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ISSN-1712-4034

# The Patent

Office Record

# La Gazette

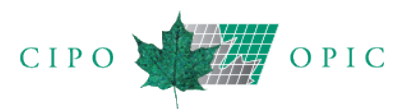
du Bureau des brevets



Vol. 148 No. 34 August 25, 2020

Vol. 148 No. 34 le 25 août 2020

Canada



# THE CANADIAN PATENT OFFICE RECORD

## LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle  
Commissioner of Patents

Johanne Bélisle  
Commissaire aux brevets

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

The Canadian Intellectual Property Office does not guarantee the accuracy of this publication, nor undertake any responsibility for errors or omissions or their consequences.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

L'Office de la propriété intellectuelle de Canada ne garantit pas l'exactitude de la présente publication et ne se rend responsable d'aucune erreur ou omission ou de leurs conséquences.

# Table of Contents

## Table des matières

|                                                                                                                                         |     |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----|
| Notices                                                                                                                                 |     |
| Avis .....                                                                                                                              | 1   |
| Canadian Patents Issued                                                                                                                 |     |
| Brevets canadiens délivrés .....                                                                                                        | 28  |
| Canadian Applications Open to Public Inspection                                                                                         |     |
| Demandes canadiennes mises à la disponibilité du public.....                                                                            | 135 |
| PCT Applications Entering the National Phase                                                                                            |     |
| Demandes PCT entrant en phase nationale .....                                                                                           | 151 |
| Canadian Divisional and Previously Unavailable Applications Open to Public Inspection                                                   |     |
| Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant .....           | 251 |
| Index of Canadian Patents Issued                                                                                                        |     |
| Index des brevets canadiens délivrés .....                                                                                              | 255 |
| Index of Canadian Applications Open to Public Inspection                                                                                |     |
| Index des demandes canadiennes mises à la disponibilité du public .....                                                                 | 274 |
| Index of PCT Applications Entering the National Phase                                                                                   |     |
| Index des demandes PCT entrant en phase nationale .....                                                                                 | 277 |
| Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection                                          |     |
| Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant ..... | 295 |

## Notices

## Avis

### 1. Dates and Code Numerals Appearing in Patent Headings

#### Dates

All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

#### Code Numerals

The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

- [11] - Number of Patent document
- [13] - Kind-of-document code
- [21] - Number assigned to the Application
- [22] - Date of Filing Application or
- [22] - Date of filing of related divisional application
- [25] - Language in which the published application was originally filed
- [30] - Data relating to priority under the Paris Convention
  
- [41] - Open to Public Inspection Date
- [45] - Date of Issue
- [48] - Correction Date ( Re-Issued, Re-Examined )
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

### 1. Dates et chiffres de code figurant à l'entête des brevets

#### Dates

Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

#### Chiffres de code

Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques ». Ces codes sont utilisés pour l'identification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

- [11] - Numéro du brevet
- [13] - Désignation du type de document
- [21] - Numéro attribué à la demande
- [22] - Date du dépôt de la demande ou
- [22] - Date du dépôt de la demande divisionnaire apparentée
- [25] - Langue dans laquelle la demande publiée a été initialement déposée
- [30] - Données relatives à la priorité selon la Convention de Paris
  
- [41] - Date de mise à la disponibilité du public
- [45] - Date de délivrance
- [48] - Date de correction ( Redélivrance, Réexamen )
- [51] - Classification internationale
- [52] - Classification nationale
- [54] - Titre de l'invention
- [60] - Apparenté par divulgation supplémentaire
- [62] - Apparenté par division
- [64] - Apparenté par redélivrance
- [71] - Nom(s) du (des) demandeur(s)
- [72] - Nom(s) de(s) l'inventeur(s)
- [73] - Nom(s) du (des) titulaire(s)
- [85] - Date d'entrée en phase nationale
- [86] - Données du dépôt international selon le PCT
- [87] - Données de publication internationale selon le PCT

## 2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: ([www.wipo.int/scit/en/standards/standards.htm](http://www.wipo.int/scit/en/standards/standards.htm)).

## 3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of \$1 per page by visiting ([www.strategis.ic.gc.ca/patentsorder](http://www.strategis.ic.gc.ca/patentsorder)) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

|                                                                                                                     |      |
|---------------------------------------------------------------------------------------------------------------------|------|
| Item 25.1* On requesting copy in electronic form of a document:                                                     | N/A  |
| a) for each request                                                                                                 | \$10 |
| b) plus, for each patent or application to which the request relates                                                | \$10 |
| c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first | \$10 |
| d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes                                     | \$10 |

## 4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of \$1 per page from the Patent Office.

## 2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: ([www.wipo.int/scit/fr/standards/standards.htm](http://www.wipo.int/scit/fr/standards/standards.htm)).

## 3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 \$ par page en visitant notre site Web ([www.strategis.ic.gc.ca/brevetscommande](http://www.strategis.ic.gc.ca/brevetscommande)) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

|                                                                                                                        |       |
|------------------------------------------------------------------------------------------------------------------------|-------|
| Article 25.1* Demande d'une copie d'un document sous forme électronique :                                              | S.O.  |
| a) pour chaque demande                                                                                                 | 10 \$ |
| b) pour chaque demande de brevet ou brevet visé par la demande                                                         | 10 \$ |
| c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel | 10 \$ |
| d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur      | 10 \$ |

## 4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 \$ la page.

## 5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

## 6. Licensing of Patents

### Voluntary Licences

Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

### Compulsory Licences

Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act*. Applications for a compulsory licence are made to the Commissioner of Patents.

## 7. Patents Available for Licence or Sale

An asterisk (\*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

## 8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

2,913,862 (Published November 12, 2019)  
3,022,251

## 5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

## 6. Octroi de licences en vertu des brevets

### Licences librement accordées

Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

### Licences obligatoires

Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

## 7. Brevets disponibles pour licence ou vente

Un astérisque (\*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

## 8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

2,913,862 (Publié le 12 novembre 2019)  
3,022,251

## 9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

## 10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

## 11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After February 19, 2019

|                                   |         |
|-----------------------------------|---------|
| 1. Transmittal Fee (Rule 14)      | \$300   |
| 2. International Filing Fee       | \$1730* |
| For each additional sheet over 30 | \$20    |
| 3. International Search Fee       | \$1600  |

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

## 9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

## 10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

## 11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 19 février 2019

|                                     |          |
|-------------------------------------|----------|
| 1. Taxe de transmission (Règle 14)  | 300 \$   |
| 2. Taxe de dépôt internationale     | 1730 \$* |
| Pour chaque feuille au delà de 30   | 20 \$    |
| 3. Taxe de recherche internationale | 1600 \$  |

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

## Notices

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

### 4. Late payment fee

50% of the fees that are due, or,  
Minimum: Transmittal fee  
Maximum: 50% of the international filing fee

### Preliminary Examination

5. Handling fee (Rule 57.2(a)) \$260

6. Preliminary examination fee (Rule 58) \$800

\* International fees will be reduced by:

- \$260 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$390 for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

## 12. PCT Notices

### Patent Cooperation Treaty (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Information Products Section  
Post Office Box 18  
1211 Geneva 20 Switzerland  
Telephone (011 41 22) 338-9618  
Facsimile (011 41 22) 740-1812

or by "E-mail" ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) or visit their Web site ([www.wipo.int](http://www.wipo.int)).

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

### 4. Taxe pour paiement tardif

50% du montant impayé, ou,  
Minimum : taxe de transmission  
Maximum : 50% de la taxe de dépôt international

### Examen préliminaire

5. Taxe de traitement (Règle 57.2a) 260 \$

6. Taxe d'examen préliminaire (Règle 58) 800 \$

\* Les frais seront réduits de:

- 260 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- 390 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

## 12. Avis PCT

### Traité de Coopération en matière de brevets (PCT)

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

l'OMPI à la Section des produits d'information  
Boîte postale 18  
1211 Genève 20 Suisse  
Téléphone (011 41 22) 338-9618  
Télécopieur (011 41 22) 740-1812

ou par courriel ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) ou visiter leur site Web ([www.wipo.int](http://www.wipo.int)).



### 13. Practice Notice

#### LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

**Note:** *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as “the Offices”) have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression “patent agent” means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term “firm” includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

### 13. Énoncé de pratique

#### LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

**Nota :** *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets.**

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais « partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships ») ainsi que des sociétés à responsabilité limitée

## Notices

Offices.

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce*.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

## 14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:

[http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h\\_wr00720.html](http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html)

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled [\*Correspondence Procedures\*](#), available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html>

Publication date: May 10, 2017

Amendment date: June 17, 2019

### On this page:

1. Physical Delivery of Correspondence and Written Communications to CIPO
2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
5. Time Period Extensions
6. Procedures in Case of an Unexpected Office Closure at CIPO

## 14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :

[http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h\\_wr00720.html](http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html)

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé [\*Procédures de correspondance\*](#), consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html>

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

### Sur cette page :

1. Remise physique de correspondance et communications écrites à l'OPIC.
2. Correspondance électronique
3. Précisions concernant les formats électroniques acceptés
4. Renseignements généraux
5. Prorogation des délais
6. Procédures en cas de fermeture imprévue des bureaux de l'OPIC

## Avis

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

### 1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office  
Place du Portage I  
50 Victoria Street, Room C-114  
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

### 1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada  
Place du Portage I  
50, rue Victoria, pièce C-114  
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

## Notices

to CIPO that contains financial information, such as credit card numbers.

Download the [Fee Payment Form](#).

### 1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development  
Canada  
C.D. Howe Building  
235 Queen Street, Room S-143  
Ottawa ON K1A 0H5  
Tel.: 343-291-3436

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,  
except statutory holidays

- Innovation, Science and Economic Development  
Canada  
Sun Life Building  
1155 Metcalfe Street, Room 950  
Montreal QC H3B 2V6  
Tel.: 514-496-1797  
Toll-free: 1-888-237-3037

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,  
except statutory holidays

- Innovation, Science and Economic Development  
Canada  
151 Yonge Street, 4th Floor  
Toronto ON M5C 2W7  
Tel.: 416-973-5000

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

fourni comme page couverture et devrait être le seul document soumis à l'OPIIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le [formulaire de paiement des frais](#).

### 1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique  
Canada  
Édifice C.D. Howe  
235, rue Queen, pièce S-143  
Ottawa (Ontario) K1A 0H5  
Tél. : 343-291-3436

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à  
l'exception des jours fériés

- Innovation, Sciences et Développement économique  
Canada  
Édifice Sun Life  
1155, rue Metcalfe, bureau 950  
Montréal (Québec) H3B 2V6  
Tél. : 514-496-1797  
Sans frais : 1-888-237-3037

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à  
l'exception des jours fériés

- Innovation, Sciences et Développement économique  
Canada  
151, rue Yonge, 4e étage  
Toronto (Ontario) M5C 2W7  
Tél. : 416-973-5000

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

## Avis

except statutory holiday

l'exception des jours fériés

- Innovation, Science and Economic Development  
Canada  
Canada Place  
9700 Jasper Avenue, Suite 725  
Edmonton AB T5J 4C3  
Tel.: 780-495-4782  
Toll-free: 1-800-461-2646

- Innovation, Sciences et Développement économique  
Canada  
Canada Place  
9700, avenue Jasper, pièce 725  
Edmonton (Alberta) T5J 4C3  
Tél. : 780-495-4782  
Sans frais : 1-800-461-2646

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,  
except statutory holidays

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à  
l'exception des jours fériés

- Innovation, Science and Economic Development  
Canada  
Library Square  
300 West Georgia Street, Suite 2000  
Vancouver BC V6B 6E1  
Tel.: 604-666-5000

- Innovation, Sciences et Développement économique  
Canada  
Library Square  
300, rue Georgia Ouest, pièce 2000  
Vancouver (C.-B.) V6B 6E1  
Tél. : 604-666-5000

8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,  
except statutory holidays

8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à  
l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

### 1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

### 1.2. Services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada sont des établissements ou des

## Notices

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

### 2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

### 2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

## Avis

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

### 2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour où l'OPIC l'a reçue (Heure de l'Est).

### 2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle : Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquiescement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

## Notices

### Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

### 2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

### Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- [filing an application](#) (regular application);
- [filing a request for national entry](#);
- [filing an international application](#) (PCT Safe or ePCT);
- [general correspondence relating to applications and patents](#);
- [maintaining the name of a patent agent on the register of patent agents](#); and
- [ordering copies in paper, or electronic form of a document](#).

### Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called [PCT E-Filing](#).

**Note:** Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a [designated establishment](#).

### Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

### Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

### 2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

### Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- [déposer une demande](#) (demande régulière);
- [déposer une demande d'entrée dans la phase nationale](#);
- [déposer une demande internationale](#) (PCT Safe ou ePCT);
- [correspondance générale concernant des demandes et des brevets](#);
- [maintien du nom d'un agent de brevets dans le registre des agents de brevets](#);
- [commande de copies papier ou d'un document sous forme électronique](#).

### Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé [Dépôt en ligne de demandes PCT](#).

**Note:** La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un [établissement désigné](#).

### Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes



## Avis

accessing the following pages:

- [filing a new or revised trademark application](#);
- [renewal of a trademark registration](#);
- [request to enter a name on the list of trademark agents](#);
- [annual renewal of a trademark agent](#);
- [requesting copies of trademark documents](#);
- [registration of a trademark application](#);

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the [Trademarks Opposition Board's online web application](#):

### *Opposition proceedings before the Trademarks Opposition Board*

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

### *Section 45 proceedings before the Trademarks Opposition Board*

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

## Copyright

:

- [nouvelle demande ou demande modifiée d'enregistrement de marque de commerce](#);
- [renouvellement de l'enregistrement d'une marque de commerce](#);
- [demande d'inscription d'un nom à la liste des agents de marques de commerce](#);
- [renouvellement annuel d'un agent de marques de commerce](#);
- [commande de copies de documents de marques de commerce](#);
- [l'enregistrement d'une marque de commerce](#)

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à [l'application web en ligne de la Commission des oppositions des marques de commerce](#).

### *Procédures d'opposition devant la Commission des oppositions des marques de commerce*

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

### *Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce*

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

## Droits d'auteur

## Notices

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- [application for registration of a copyright in a work](#),
- [application for registration of a copyright in a performer's performance, sound recording or a communication signal](#);
- [filing a grant of interest](#);
- [request for certificate of correction](#);
- [ordering copies in paper, or electronic form of a document](#); and
- [general correspondence relating to copyright](#).

## Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- [application for registration of an industrial design](#);
- [ordering copies in paper, or electronic form of a document](#);
- [general correspondence relating to industrial designs](#); and
- [payment of industrial design maintenance fees](#).

## Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- [general correspondence relating to integrated circuit topographies](#).

### 2.3 Electronic medium

**Note:** all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [demande d'enregistrement d'un droit d'auteur sur une œuvre](#),
- [demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication](#);
- [dépôt d'une concession d'intérêt](#);
- [demande de certificat de correction](#);
- [commande de copies des documents papier ou électroniques](#) et
- [correspondance générale relative aux droits d'auteur](#).

## Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [demande d'enregistrement d'un dessin industriel](#);
- [commande de copies de documents papier ou électroniques](#);
- [correspondance générale relative aux dessins industriels](#); et
- [paiement des droits de maintien des dessins industriels](#).

## Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- [correspondance générale relative aux topographies de circuits intégrés](#).

### 2.3 Supports électroniques

**Note :** Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

## Brevets

## Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

### Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

- i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
- ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

### Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

- i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou
- ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

## Notices

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

### Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

### Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

## 3. Details Concerning the Electronic Formats Accepted

### Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in [section 2.2](#) of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

### Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

### Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

## 3. Précisions concernant les formats électroniques acceptés

### Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 1/2" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

## Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in [section 2.2](#) of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

## Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

## Avis

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

## Marques de commerce

Pour l'application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la [section 2.2](#) des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

## Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d'un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d'un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L'image numérisée/stockée devrait être dans une résolution d'au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

## Notices

### 4. General Information

General information may be obtained by communicating with CIPO's [Client Service Centre](#).

### 5. Time Period Extensions

- [Time period extensions under the Patent, Trademarks and Industrial Design Acts](#)
- [Time period extensions under the Copyright and Integrated Circuit Topography Acts](#)
- [Time period extensions under the Patent Cooperation Treaty](#)
- [Time period extensions under the Madrid Protocol and the Hague Agreement](#)

#### Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

**Designated days** are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

**Prescribed days** under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)\*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)\*;
- Canada Day (July 1)\*;
- The first Monday in August;\*\*\*
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

### 4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec [le Centre de services à la clientèle de l'OPIC](#).

### 5. Prorogation des délais

- [Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels](#)
- [Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés](#)
- [Prorogation des délais en vertu du le Traité de coopération en matière de brevets](#)
- [Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye](#)

#### Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou réglementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou réglementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1<sup>er</sup> janvier)\*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)\*;
- Fête du Canada (1<sup>er</sup> juillet)\*;
- Le premier lundi du mois d'août\*\*\*;
- Fête du travail : Premier lundi du mois de septembre;

## Avis

- Remembrance Day (November 11)\*;
- Christmas Day (December 25)\*\*;
- Boxing Day (December 26)\*\* ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

\*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

\*\*If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

\*\*\*Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

### Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)\*;
- Jour de Noël (25 décembre)\*\*;
- Lendemain de Noël\*\* ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

\*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

\*\*Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

\*\*\*Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou réglementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou réglementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

### Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé<sup>MC</sup>, ou par Xpresspost<sup>MC</sup> de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

## Notices

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

### Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

- i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;
- ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;
- iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or
- iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

### Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

### Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

- i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;
- ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;
- iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou
- iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

### Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Si un délai à l'intérieur duquel une communication doit être reçue par le Bureau international de l'Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n'est pas ouvert au public, le délai expirera lors du



## Avis

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the [WIPO website](#).

### 6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to [service interruptions](#) on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in [section 2.2](#) of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible [sur le site web de l'OMPI](#).

### 6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public.

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre [page d'interruptions des services](#), lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé<sup>MC</sup>, par Xpresspost<sup>MC</sup> ou par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance. Il est toujours

## Notices

payment that is sent by fax must be accompanied by a [VISA™](#), [MasterCard™](#), or [American Express™](#) credit card number, or [CIPO deposit account number](#).

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

### 7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

#### Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

#### Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

### 8. Intellectual property acts, rules and regulations

- [Copyright Act](#)
- [Copyright Regulations](#)
- [Industrial Design Act](#)
- [Industrial Design Regulations](#)
- [Integrated Circuit Topography Act](#)
- [Integrated Circuit Topography Regulations](#)
- [Interpretation Act](#)
- [Patent Act](#)

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés [d'un numéro de carte VISA<sup>MC</sup>](#), [Mastercard<sup>MC</sup>](#) ou [American Express<sup>MC</sup>](#) ou [d'un numéro de compte de dépôt à l'OPIC](#).

Veillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

### 7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

#### Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

#### Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

### 8. Lois, règles et règlements sur la propriété intellectuelle

- [Loi sur le droit d'auteur](#)
- [Règlement sur le droit d'auteur](#)
- [Loi sur les dessins industriels](#)
- [Règlement sur les dessins industriels](#)
- [Loi sur les topographies de circuits intégrés](#)
- [Règlement sur les topographies de circuits intégrés](#)
- [Loi d'interprétation](#)
- [Loi sur les brevets](#)
- [Règles sur les brevets](#)

## Avis

- [Patent Rules](#)
- [Regulations under the PCT](#)
- [Trademarks Act](#)
- [Trademarks Regulations](#)

- [Règlement d'exécution du PCT](#)
- [Loi sur les marques de commerce](#)
- [Règlement sur les marques de commerce](#)

### **15. Canadian Applications Open to Public Inspection**

The *Canadian Patent Office Record* of August 25, 2020 contains applications open to public inspection from August 9, 2020 to August 15, 2020.

### **15. Demandes canadiennes mises à la disponibilité du public**

La *Gazette du bureau des brevets* du 25 août 2020 contient les demandes disponibles au public pour consultation pour la période du 9 août 2020 au 15 août 2020.

## Notices

### 16. Erratum

The information concerning application number 3,080,168 referred to under the section "Canadian Applications Open to Public Inspection" of the Canadian Patent Office Record of August 4<sup>th</sup> 2020 was incorrect. Please note that no application is open to public inspection under this number.

### 16. Erratum

Les renseignements concernant la demande 3,080,168 sous la rubrique « Demandes canadiennes mises a la disponibilité du publique» de la Gazette du Bureau des brevets du 4 Aout 2020 sont inexacts. Veuillez noter qu'aucune demande n'est accessible au public sous ce numéro.

## 17. Erratum

The information concerning the Canadian application 3,083,699 on July 28, 2020, referred to under the section "Canadian Divisional and Previously Unavailable Applications Open to Public Inspection" of the Canadian Patent Office Record of July 28, 2020 was incorrect. Please note that the bibliographic data element indicated by the INID Code [62] Related by Division should read 3,007,206.

## 17. Erratum

Les renseignements concernant la demande canadienne 3,083,699 sous la rubrique « Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant » de la Gazette du Bureau des brevets du 28 juillet 2020 sont inexacts. Veuillez noter que la donnée bibliographique indiqué par le code INID [62] Apparenté par division devrait être 3,007,206.

## Notices

### 18. Erratum

All information respecting patent application number 3, 080, 699 referred to under the section *PCT Applications Entering the National Phase* contained in the June 23, 2020 issue of the *Canadian Patent Office Record* was erroneously published and should be disregarded.

### 18. Erratum

Toutes les informations relatives à la demande de brevet 3, 080, 699 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro 23 juin 2020 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

# Canadian Patents Issued

August 25, 2020

## Brevets canadiens délivrés

25 août 2020

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[11] **2,435,909**  
[13] C  
[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/40 (2012.01) G07F 19/00 (2006.01)**  
[25] EN  
[54] **ONLINE PAYMENT TRANSFER AND IDENTITY MANAGEMENT SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE TRANSFERT DE PAIEMENTS EN LIGNE ET DE GESTION D'IDENTITES**  
[72] FLEISHMAN, JACK, CA  
[72] FUERSTENBERG, ZACK, CA  
[73] INTERAC CORP., CA  
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[87] (WO2002/059847)  
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[11] **2,528,572**  
[13] C  
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **GENE EXPRESSION ANALYSIS OF AIRWAY EPITHELIAL CELLS FOR DIAGNOSING LUNG CANCER**  
[54] **ANALYSE DE L'EXPRESSION GENETIQUE DES CELLULES EPITHELIALES DE VOIES AERIENNES POUR DIAGNOSTIQUER UN CANCER DU POUMON**  
[72] BRODY, JEROME S., US  
[72] SPIRA, AVRUM, US  
[73] THE TRUSTEES OF BOSTON UNIVERSITY, US  
[85] 2005-12-07  
[86] 2004-06-09 (PCT/US2004/018460)  
[87] (WO2005/000098)  
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[11] **2,559,137**  
[13] C  
[51] **Int.Cl. H05B 47/175 (2020.01) H05B 47/10 (2020.01) H05B 47/155 (2020.01) G08B 21/18 (2006.01)**  
[25] EN  
[54] **OWNER/OPERATOR CONTROL OF A LIGHT MANAGEMENT SYSTEM USING NETWORKED INTELLIGENT LUMINAIRE MANAGERS**  
[54] **COMMANDE PAR LE PROPRIETAIRE OU L'UTILISATEUR D'UN SYSTEME DE GESTION D'ECLAIRAGE UTILISANT DES GESTIONNAIRES DE LUMINAIRES INTELLIGENTS EN RESEAU**  
[72] WALTERS, JEFF D., US  
[72] DARNELL, CHARLES J., US  
[72] GIBLER, ZACHARY S., US  
[72] HENDERSON, DAVID A., US  
[73] ABL IP HOLDING LLC, US  
[86] (2559137)  
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[22] 2006-09-11  
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[11] **2,585,412**  
[13] C  
[51] **Int.Cl. G06Q 10/04 (2012.01) G01C 21/34 (2006.01)**  
[25] EN  
[54] **METHOD OF SELECTIVE RIDE-SHARING AMONG MULTIPLE USERS ALONG AN OPTIMIZED TRAVEL ROUTE**  
[54] **METHODE DE COVOITURAGE SELECTIF PARMIS DES USAGERS MULTIPLES LE LONG D'UNE ROUTE DE VOYAGE OPTIMISEE**  
[72] LEWINSON, TOM, CA  
[72] LEWINSON, SHARON, CA  
[73] RIDESHARK CORPORATION, CA  
[86] (2585412)  
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[13] C  
[51] **Int.Cl. C25B 9/06 (2006.01) C25B 1/06 (2006.01) C25B 9/18 (2006.01) C25B 9/20 (2006.01) C25B 15/08 (2006.01)**  
[25] EN  
[54] **ELECTROLYSER AND PROCESS AND APPARATUS FOR SEPARATING A GAS-LIQUID MIXTURE GENERATED THEREIN**  
[54] **ELECTROLYSEUR ET PROCEDE ET APPAREIL SERVANT A SEPARER UN MELANGE DE GAZ ET DE LIQUIDE GENERE DANS L'ELECTROLYSEUR**  
[72] HINATSU, JAMES T., CA  
[72] STEMP, MICHAEL C., CA  
[73] HYDROGENICS CORPORATION, CA  
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[51] **Int.Cl. C07K 16/18 (2006.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **REGULATORS OF NFAT**  
[54] **REGULATEURS DE NFAT**  
[72] RAO, ANJANA, US  
[72] FESKE, STEFAN, US  
[72] HOGAN, PATRICK, US  
[72] GWACK, YOUSANG, US  
[73] CHILDREN'S MEDICAL CENTER CORPORATION, US  
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August 25, 2020**

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[25] EN

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[54] **SEQUENCES OLIGONUCLEOTIDIQUES SPECIFIQUES DE NEISSERIA GONORRHOEAE**

[72] KU, LAILING, US

[72] BUSH-DONOVAN, CHARLENE, US

[72] SHERMAN, DAVID, US

[72] MENG, QI, US

[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US

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[51] **Int.Cl. H04L 12/26 (2006.01) H04W 84/18 (2009.01) H04L 12/16 (2006.01)**

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[54] **MONITORING APPARATUS AND SYSTEM**

[54] **APPAREIL ET SYSTEME DE CONTROLE**

[72] RICE, PATRICK, AU

[73] IMPRENDITORE PTY LIMITED, AU

[85] 2009-01-12

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[51] **Int.Cl. A61K 38/48 (2006.01) A61P 9/08 (2006.01) A61P 9/10 (2006.01) C12N 9/74 (2006.01)**

[25] EN

[54] **METHOD OF TREATING ENDOTHELIAL DYSFUNCTION**

[54] **PROCEDE DE TRAITEMENT D'UN DYSFONCTIONNEMENT ENDOTHELIAL**

[72] CARNEY, DARRELL H., US

[72] OLSZEWSKA-PAZDRAK, BARBARA, US

[72] FOSSUM, THERESA W., US

[73] THE TEXAS A&M UNIVERSITY SYSTEM, US

[73] THE BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2009-03-12

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[51] **Int.Cl. A61F 13/02 (2006.01) A61F 13/00 (2006.01) A61M 1/00 (2006.01)**

[25] EN

[54] **WOUND DRESSING**

[54] **PANSEMENT DE PLAIE**

[72] HARTWELL, EDWARD YERBURY, GB

[73] SMITH & NEPHEW PLC, GB

[85] 2010-05-14

[86] 2008-11-20 (PCT/GB2008/051090)

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[30] GB (0722820.8) 2007-11-21

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[54] **CALIBRATOR FOR IMMUNOASSAYS**

[54] **CALIBREUR POUR IMMUNOESSAI**

[72] ROBERTSON, JOHN FORSYTH RUSSELL, GB

[72] MURRAY, ANDREA, GB

[72] CHAPMAN, CAROLINE, GB

[72] BARNES, ANTHONY, US

[73] ONCIMMUNE LIMITED, GB

[85] 2010-05-27

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[30] GB (0725239.8) 2007-12-24

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[13] C

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR THERAPEUTIC ELECTRICAL STIMULATION**

[54] **SYSTEMES ET PROCEDES DE STIMULATION ELECTRIQUE THERAPEUTIQUE**

[72] BACHINSKI, THOMAS JEROME, US

[72] SHINDLEY, RICHARD PAUL, US

[72] LUTZ, DENNIS, US

[73] EMPI CORP., US

[85] 2010-07-06

[86] 2009-01-07 (PCT/US2009/000082)

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25 août 2020**

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[13] C

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[25] EN

[54] **PROSTATE CANCER-SPECIFIC ALTERATIONS IN ERG8 GENE EXPRESSION AND DETECTION AND TREATMENT METHODS BASED ON THOSE ALTERATIONS**

[54] **ALTERATIONS DANS L'EXPRESSION DU GENE ERG SPECIFIQUES DU CANCER DE LA PROSTATE, ET PROCEDES DE DETECTION ET DE TRAITEMENT EN FONCTION DE CES ALTERATIONS**

[72] SRIVASTAVA, SHIV, US  
[72] DOBI, ALBERT, US  
[72] SREENATH, TADURU, US  
[72] PETROVICS, GYORGY, US  
[72] SUN, CHEN, US  
[73] THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC., US

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[54] **IMPROVED CELL COMPOSITION AND METHODS OF MAKING THE SAME**

[54] **COMPOSITION CELLULAIRE AMELIOREE ET LEURS PROCEDES DE PRODUCTION**

[72] ZEITLIN, ANDY, US  
[72] RUSSOTTI, GREGORY, US  
[72] HE, SHUYANG, US  
[72] PAL, AJAI, US  
[72] CHEN, HONG J., US  
[72] BRIEVA, THOMAS, US  
[72] SHORR, RYAN, US  
[72] MURPHY, BRIAN, US  
[73] CELULARITY, INC., US

[85] 2011-02-15  
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[87] (WO2010/021714)  
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[54] **ADJUVANT INCORPORATION IN IMMUNONANOTHERAPEUTICS**

[54] **INCORPORATION D'ADJUVANT DANS LE DOMAINE DE LA NANOTHERAPIE IMMUNITAIRE**

[72] ALEXIS, FRANK, US  
[72] IANNAcone, MATTEO, US  
[72] SHI, JINJUN, US  
[72] BASTO, PAMELA, US  
[72] MOSEMAN, ELLIOTT ASHLEY, US  
[72] VON ANDRIAN, ULRICH, US  
[72] LANGER, ROBERT, US  
[72] FAROKHZAD, OMID C., US  
[72] TONTI, ELENA, IT  
[73] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[73] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US

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[30] US (PCT/US2008/011932) 2008-10-12  
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[51] **Int.Cl. A61F 2/966 (2013.01) A61F 2/962 (2013.01)**

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[54] **STENT DELIVERY DEVICE WITH ROLLING STENT RETAINING SHEATH**

[54] **DISPOSITIF DE POSE D'ENDOPROTHESE AVEC GAINE DE RETENUE D'ENDOPROTHESE A ENROULEMENT**

[72] DORN, JUERGEN, DE  
[72] HOFFMANN, MARTINA, DE  
[72] DIETRICH, DANIEL, DE  
[73] ANGIOMED GMBH & CO. MEDIZINTECHNIK KG, DE

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[30] GB (0823716.6) 2008-12-31  
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[51] **Int.Cl. C40B 40/06 (2006.01) C40B 30/04 (2006.01) C40B 60/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EXPRESSION-BASED CLASSIFICATION OF THYROID TISSUE**

[54] **SYSTEMES ET PROCEDES POUR LA CLASSIFICATION D'UN TISSU THYROIDIEN FONDEE SUR L'EXPRESSION**

[72] WISEMAN, SAM MICHAEL, CA  
[72] DAVICIONI, ELAI, CA  
[73] DECIPHER BIOSCIENCES, INC., US

[85] 2011-08-30  
[86] 2010-04-29 (PCT/CA2010/000621)  
[87] (WO2010/124372)  
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[13] C

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[25] EN

[54] **NANOCRYSTALLINE METAL COATED COMPOSITE AIRFOIL**

[54] **PROFIL AERODYNAMIQUE COMPOSITE REVETU DE METAL NANOCRISTALLIN**

[72] MACCHIA, ENZO, CA  
[72] ELEFThERIOU, ANDREAS, CA  
[72] GUGLIELMIN, GEORGE, CA  
[72] BARNETT, BARRY, CA  
[72] MCDONOUGH, THOMAS, CA  
[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2754254)  
[87] (2754254)  
[22] 2011-09-29  
[30] US (61/388384) 2010-09-30

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August 25, 2020**

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[54] **ANTIGEN PRESENTING CELL TARGETED ANTI-VIRAL VACCINES**

[54] **VACCINS ANTIVIRAUX CIBLES VERS DES CELLULES PRESENTANT DES ANTIGENES**

[72] ZURAWSKI, GERARD, US

[72] BANCHEREAU, JACQUES F., US

[72] FLAMAR, ANNE-LAURE, US

[72] LEVY, YVES, FR

[72] MONTES, MONICA, US

[73] BAYLOR RESEARCH INSTITUTE, US

[85] 2011-09-08

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[54] **ATTACHMENT MECHANISM**

[54] **MECANISME DE FIXATION**

[72] GLINSKY, VADIM, IL

[72] TIKOTZENSKI, LEOR, IL

[73] PLASAN SASA LTD., IL

[86] (2757704)

[87] (2757704)

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[30] IL (209253) 2010-11-11

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[13] C

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[25] EN

[54] **IDENTIFYING CONTENT PURCHASING OPTIONS BASED ON USER PREFERENCES**

[54] **IDENTIFICATION DES OPTIONS D'ACHAT DU CONTENU D'APRES LES PREFERENCES DE L'UTILISATEUR**

[72] GRATTON, MAX STEPHEN, US

[73] DISH NETWORK LLC, US

[86] (2762374)

[87] (2762374)

[22] 2011-12-15

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[25] EN

[54] **GROUND WATER PURIFICATION PLANT BASED ON BIOLOGICAL OXIDATION AND REDUCTION PROCESSES**

[54] **UNITE DE PURIFICATION D'EAUX SOUTERRAINES BASEE SUR DES PROCEDES D'OXYDATION ET DE REDUCTION BIOLOGIQUES**

[72] BRUNNER, WILLI, CH

[73] UNITED WATERS INTERNATIONAL AG, CH

[85] 2011-12-02

[86] 2010-06-01 (PCT/IB2010/052439)

[87] (WO2010/140116)

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[13] C

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **REGULATION OF ZINC DEFICIENCY AND TOLERANCE IN PLANTS**

[54] **REGULATION D'UNE DEFICIENCE EN ZINC ET D'UNE TOLERANCE AU ZINC DANS DES PLANTES**

[72] GONCALVES LEITE DE ASSUNCAO, ANA, DK

[72] AARTS, MARTINUS GERARDUS MARIA, NL

[73] WAGENINGEN UNIVERSITEIT, NL

[85] 2012-01-12

[86] 2010-07-16 (PCT/NL2010/050461)

[87] (WO2011/008096)

[30] EP (09165714.8) 2009-07-16

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[13] C

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[25] EN

[54] **ASSAY APPARATUSES, CONSUMABLES AND METHODS**

[54] **APPAREILS, CONSOMMABLES ET PROCEDES D'ESSAI**

[72] CHAMBERLIN, IAN, US

[72] CLINTON, CHARLES M., US

[72] GLEZER, ELI N., US

[72] JEFFREY-COKER, BANDELE, US

[72] KOCHAR, MANISH, US

[72] KOVACS, SANDOR, US

[72] LE, DT, US

[72] LEIMKUEHLER, AARON, US

[72] PINCKNEY, GREG, US

[72] ROTH, KRISTIAN, US

[72] SIGAL, GEORGE, US

[72] YIN, FEI, US

[73] MESO SCALE TECHNOLOGIES, LLC, US

[85] 2012-01-25

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[25] EN

[54] **NOVEL METHOD FOR PRODUCING DIFFERENTIATED CELLS**

[54] **NOUVEAU PROCEDE DE PRODUCTION DE CELLULES DIFFERENCIEES**

[72] ETO, KOJI, JP

[72] TAKAYAMA, NAOYA, JP

[72] NAKAMURA, SOU, JP

[72] NAKAUCHI, HIROMITSU, JP

[73] THE UNIVERSITY OF TOKYO, JP

[85] 2012-03-14

[86] 2010-09-15 (PCT/JP2010/065903)

[87] (WO2011/034073)

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[13] C

[51] **Int.Cl. C12N 7/02 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **METHOD FOR THE PURIFICATION OF ADENOVIRUS PARTICLES.**

[54] **PROCEDE DE PURIFICATION DE PARTICULES D'ADENOVIRUS.**

[72] DE VOCHT, MARCEL LEO, NL

[72] VEENSTRA, MARLOES, NL

[73] JANSSEN VACCINES & PREVENTION B.V., NL

[85] 2012-04-02

[86] 2010-10-14 (PCT/EP2010/065430)

[87] (WO2011/045378)

[30] US (61/279,014) 2009-10-15

[30] EP (09173090.3) 2009-10-15

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[13] C

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[25] EN

[54] **BIOMEDICAL ELECTRODE**

[54] **ELECTRODE BIOMEDICALE**

[72] BESIO, WALTER, US

[73] RHODE ISLAND COUNCIL ON POSTSECONDARY EDUCATION, US

[85] 2012-04-10

[86] 2010-10-27 (PCT/US2010/054211)

[87] (WO2011/056626)

[30] US (61/255,635) 2009-10-28

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[13] C

[51] **Int.Cl. G01F 25/00 (2006.01) G01F 15/14 (2006.01)**

[25] EN

[54] **VALVE METER ASSEMBLY AND METHOD**

[54] **DEBITMETRE DE ROBINET AVEC PROCEDE D'UTILISATION**

[72] BALL, MARTY SCOTT, US

[72] LINKEL, SCOTT ARON, US

[73] MUELLER INTERNATIONAL, LLC, US

[86] (2777973)

[87] (2777973)

[22] 2012-05-23

[30] US (13/149,720) 2011-05-31

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[11] **2,780,747**  
[13] C

[51] **Int.Cl. H01L 23/535 (2006.01)**

[25] EN

[54] **EXTREMELY STRETCHABLE ELECTRONICS**

[54] **DISPOSITIFS ELECTRONIQUES EXTREMEMENT ETIRABLES**

[72] ARORA, WILLIAM J., US

[72] GHAFARI, ROOZBEH, US

[73] MC10, INC., US

[85] 2012-05-11

[86] 2009-11-12 (PCT/US2009/064199)

[87] (WO2010/056857)

[30] US (12/575,008) 2009-10-07

[30] US (61/113,622) 2008-11-12

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[13] C

[51] **Int.Cl. G16B 40/00 (2019.01) G06F 16/906 (2019.01) G16B 30/00 (2019.01)**

[25] EN

[54] **DENSITY BASED CLUSTERING FOR MULTIDIMENSIONAL DATA**

[54] **MISE EN GRAPPE BASEE SUR LA DENSITE POUR DES DONNEES MULTIDIMENSIONNELLES**

[72] RODINGER, TOMAS, CA

[72] LARIO, PAULA I., CA

[73] ZYMEWORKS INC., CA

[85] 2012-05-23

[86] 2010-11-23 (PCT/CA2010/001873)

[87] (WO2011/063518)

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[13] C

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/423 (2006.01) A61K 47/40 (2006.01) A61P 27/06 (2006.01) C08L 5/16 (2006.01)**

[25] EN

[54] **TOPICAL OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF MACULAR DEGENERATION**

[54] **COMPOSITIONS OPHTHALMIQUES TOPIQUES ET METHODES DE TRAITEMENT DE LA DEGENERESCENCE MACULAIRE**

[72] JORDAN, THOMAS A., US

[72] CHABALA, JOHN CLIFFORD, US

[72] CAGLE, GERALD D., US

[73] ALDEYRA THERAPEUTICS, INC., US

[85] 2012-05-25

[86] 2010-12-09 (PCT/US2010/059719)

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**Canadian Patents Issued  
August 25, 2020**

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[13] C

[51] **Int.Cl. G01B 7/16 (2006.01) B82Y 15/00 (2011.01) G01L 1/16 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM OF FABRICATING PZT NANOPARTICLE INK BASED PIEZOELECTRIC SENSOR**

[54] **METHODE ET SYSTEME DE FABRICATION D'ENCRE A NANOPARTICULES PZT FONDE SUR UN CAPTEUR PIEZOELECTRIQUE**

[72] DUCE, JEFFREY LYNN, US

[72] JOHNSTON, SCOTT ROBERT, US

[72] SHEN, I-YEU, US

[72] CAO, GUOZHONG, US

[72] HUANG, HSIEN-LIN, US

[73] THE BOEING COMPANY, US

[73] UNIVERSITY OF WASHINGTON THROUGH ITS CENTER FOR COMMERCIALIZATION, US

[86] (2783416)

[87] (2783416)

[22] 2012-07-20

[30] US (13/212,037) 2011-08-17

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[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6876 (2018.01) C07H 21/04 (2006.01) C40B 30/04 (2006.01)**

[25] EN

[54] **PROCESSES AND KITS FOR IDENTIFYING ANEUPLOIDY**

[54] **PROCEDES ET KITS POUR IDENTIFIER UNE ANEUPLOIDIE**

[72] EHRICH, MATHIAS, US

[72] MISTRO, GUY DEL, US

[72] DECIU, COSMIN, US

[72] CHEN, YONG QING, US

[72] MCCULLOUGH, RON MICHAEL, US

[72] TIM, ROGER CHAN, US

[73] SEQUENOM, INC., US

[85] 2012-06-19

[86] 2010-12-20 (PCT/US2010/061319)

[87] (WO2011/087760)

[30] US (61/289,370) 2009-12-22

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[13] C

[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A62B 9/00 (2006.01) A62B 18/00 (2006.01)**

[25] EN

[54] **PATIENT INTERFACE AND HEADGEAR**

[54] **INTERFACE DE PATIENT ET DISPOSITIF DE PROTECTION DE LA TETE**

[72] SMITH, DANIEL JOHN, NZ

[72] HUDDART, BRETT JOHN, NZ

[72] ADAMS, MATTHEW JAMES, NZ

[72] HOBSON, NICHOLAS ALEXANDER, NZ

[72] SHARP, TIMOTHY JAMES BERESFORD, NZ

[72] PATEL, ROHEET, NZ

[72] OLSEN, GREGORY JAMES, NZ

[72] STEPHENSON, MATTHEW ROGER, NZ

[72] BARSTEN, TROY, NZ

[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ

[85] 2012-06-22

[86] 2010-12-22 (PCT/IB2010/003466)

[87] (WO2011/077254)

[30] US (61/289,641) 2009-12-23

[30] US (61/391,514) 2010-10-08

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[13] C

[51] **Int.Cl. G01N 15/14 (2006.01) G02B 21/34 (2006.01)**

[25] EN

[54] **CONVEX LENS-INDUCED CONFINEMENT FOR MEASURING DISTRIBUTIONS OF MOLECULAR SIZE**

[54] **CONFINEMENT INDUIT PAR UNE LENTILLE CONVEXE POUR MESURER DES DISTRIBUTIONS DE TAILLES MOLECULAIRES**

[72] COHEN, ADAM E., US

[72] LESLIE, SABRINA R., US

[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2012-07-11

[86] 2011-01-14 (PCT/US2011/021403)

[87] (WO2011/088398)

[30] US (61/295,492) 2010-01-15

[30] US (61/378,160) 2010-08-30

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[13] C

[51] **Int.Cl. A61F 2/92 (2013.01) A61F 2/95 (2013.01) A61F 2/24 (2006.01)**

[25] EN

[54] **EXPANDABLE MEDICAL IMPLANT**

[54] **IMPLANT MEDICAL EXPANSIBLE**

[72] GOETZ, WOLFGANG, DE

[72] LIM, HOU-SEN, SG

[73] VENUS MEDTECH (HANGZHOU), INC., CN

[85] 2012-07-26

[86] 2011-02-16 (PCT/EP2011/000738)

[87] (WO2011/101129)

[30] DE (102010008382.8) 2010-02-17

[30] US (61/306,564) 2010-02-22

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[11] **2,790,556**  
[13] C

[51] **Int.Cl. E04F 21/18 (2006.01) E04F 21/20 (2006.01)**

[25] EN

[54] **LEVELING SPACER FOR LAYING WALL TILES**

[54] **ESPACEUR NIVELEUR DESTINE A LA POSE DE CARREAUX MURAUX**

[72] BORDIN, LINO, IT

[73] PROGRESS PROFILES SPA, IT

[86] (2790556)

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[22] 2012-09-19

[30] IT (PD2011A000295) 2011-09-20

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[13] C

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 1/36 (2006.01) A61M 5/168 (2006.01)**  
[25] EN  
[54] **DEVICE FOR ADMINISTERING LIQUIDS INTO AN ANIMAL BODY, IN PARTICULAR FOR ADMINISTERING THERAPEUTIC AGENTS VIA ENDOVASCULAR INFUSION**  
[54] **DISPOSITIF POUR ADMINISTRER DES LIQUIDES DANS LE CORPS D'UN ANIMAL, EN PARTICULIER POUR ADMINISTRER DES AGENTS THERAPEUTIQUES PAR PERFUSION ENDOVASCULAIRE**  
[72] TSABARI, SHAHAR, IT  
[72] PACE, CARLA EMILIA, IT  
[73] TSABARI, SHAHAR, IT  
[85] 2012-08-30  
[86] 2011-03-04 (PCT/IB2011/050930)  
[87] (WO2011/107969)  
[30] IT (PD2010A000066) 2010-03-05

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[13] C

[51] **Int.Cl. G08B 13/24 (2006.01) B23K 13/01 (2006.01) C09J 5/06 (2006.01) E05B 47/00 (2006.01) E05B 73/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR SECURITY TAG DEPLOYMENT USING REVERSIBLE ADHESIVES**  
[54] **SYSTEME ET PROCEDE PERMETTANT LE DEPLOIEMENT D'UNE ETIQUETTE DE SECURITE UTILISANT DES ADHESIFS REVERSIBLES**  
[72] HO, WING KEI, US  
[72] PATTERSON, HUBERT A., US  
[73] SENSORMATIC ELECTRONICS LLC, US  
[85] 2012-09-07  
[86] 2011-03-03 (PCT/US2011/000422)  
[87] (WO2011/112240)  
[30] US (61/339,778) 2010-03-08

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[13] C

[51] **Int.Cl. A61M 5/178 (2006.01) A61B 17/03 (2006.01) A61M 5/142 (2006.01) A61M 5/28 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR WOUND SEALANT APPLICATION**  
[54] **METHODE ET APPAREIL D'APPLICATION D'UN AGENT DE SCELLEMENT DES PLAIES**  
[72] CASSINGHAM, CHARLES VAUGHN, US  
[72] MEZGER, WILLIAM JEROME, US  
[73] NEOMEND, INC., US  
[85] 2012-10-02  
[86] 2011-04-05 (PCT/US2011/031235)  
[87] (WO2011/127045)  
[30] US (61/320,877) 2010-04-05

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[11] **2,795,942**  
[13] C

[51] **Int.Cl. E04F 19/02 (2006.01) E04B 1/98 (2006.01)**  
[25] EN  
[54] **CONSTRUCTION TECHNIQUE FOR ATTACHING FINISHING ELEMENTS AND BUILDING STRUCTURE RESULTING THEREFROM**  
[54] **TECHNIQUE DE CONSTRUCTION POUR FIXER DES ELEMENTS DE FINITION ET STRUCTURE DE BATIMENT RESULTANTE**  
[72] O'LEARY, KEVIN, US  
[72] WARD, JASON, US  
[72] ZIMINSKI, PETER, US  
[73] JAMES HARDIE TECHNOLOGY LIMITED, IE  
[86] (2795942)  
[87] (2795942)  
[22] 2012-11-21  
[30] US (61/563,461) 2011-11-23

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[11] **2,796,204**  
[13] C

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/498 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 487/08 (2006.01)**  
[25] EN  
[54] **PYRAZOLYL QUINOXALINE KINASE INHIBITORS**  
[54] **INHIBITEURS DE PYRAZOLYL QUINOXALINE KINASE**  
[72] SAXTY, GORDON, GB  
[72] MURRAY, CHRISTOPHER WILLIAM, GB  
[72] BERDINI, VALERIO, GB  
[72] BESONG, GILBERT EBAL, DE  
[72] HAMLETT, CHRISTOPHER CHARLES FREDERICK, GB  
[72] JOHNSON, CHRISTOPHER NORBERT, GB  
[72] WOODHEAD, STEVEN JOHN, US  
[72] READER, MICHAEL, GB  
[72] REES, DAVID CHARLES, GB  
[72] MEVELLEC, LAURENCE ANNE, FR  
[72] ANGIBAUD, PATRICK RENE, FR  
[72] FREYNE, EDDY JEAN EDGARD, BE  
[72] GOVAERTS, TOM CORNELIS HORTENSE, BE  
[72] WEERTS, JOHAN ERWIN EDMOND, BE  
[72] PERERA, TIMOTHY PIETRO SUREN, BE  
[72] GILISSEN, RONALDUS ARNODUS HENDRIKA JOSEPH, BE  
[72] WROBLOWSKI, BERTHOLD, BE  
[72] LACRAMPE, JEAN FERNAND ARMAND, FR  
[72] PAPANIKOS, ALEXANDRA, BE  
[72] QUEROLLE, OLIVIER ALEXIS GEORGES, FR  
[72] PASQUIER, ELISABETH THERESE JEANNE, FR  
[72] PILATTE, ISABELLE NOELLE CONSTANCE, FR  
[72] BONNET, PASCAL GHISLAIN ANDRE, BE  
[72] EMBRECHTS, WERNER CONSTANT JOHAN, BE  
[72] AKKARI, RHALID, FR  
[72] MEERPOEL, LIEVEN, BE  
[73] ASTEX THERAPEUTICS LIMITED, GB  
[85] 2012-10-11  
[86] 2011-04-28 (PCT/GB2011/050851)  
[87] (WO2011/135376)  
[30] US (61/329,884) 2010-04-30  
[30] GB (1007286.6) 2010-04-30

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[11] **2,798,080**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **3,5-DISUBSTITUED-3H-IMIDAZO[4,5-B]PYRIDINE AND 3,5- DISUBSTITUED -3H-[1,2,3]TRIAZOLO[4,5-B] PYRIDINE COMPOUNDS AS MODULATORS OF PROTEIN KINASES**

[54] **COMPOSES PYRIDINIQUES 3,5-DISUBSTITUES-3 H-IMIDAZO [4,5-B] ET COMPOSES PYRIDINIQUES 3,5-DISUBSTITUES [1,2,3]TRIAZOLO[4,5-B] EN TANT QUE MODULATEURS DES PROTEINES KINASES**

[72] MUTHUPPALANIAPPAN, MEYYAPPAN, IN

[72] VISWANADHA, SRIKANT, IN

[72] BABU, GOVINDARAJULU, IN

[72] VAKKALANKA, SWAROOP K. V. S., CH

[73] INCOZEN THERAPEUTICS PVT. LTD., IN

[73] RHIZEN PHARMACEUTICALS S.A., CH

[85] 2012-10-31

[86] 2011-05-13 (PCT/IB2011/052120)

[87] (WO2011/145035)

[30] IN (1377/CHE/2010) 2010-05-17

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[11] **2,798,999**  
[13] C

[51] **Int.Cl. C07C 217/28 (2006.01) A61K 8/45 (2006.01) A61Q 5/12 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **CATIONIC POLYGLYCERYL COMPOSITIONS AND COMPOUNDS**

[54] **COMPOSITIONS ET COMPOSES DE POLYGLYCERYL CATIONIQUE**

[72] FEVOLA, MICHAEL J., US

[72] SUN, FRANK C., US

[72] YORK, STACEY E., US

[73] JOHNSON & JOHNSON CONSUMER COMPANIES, INC., US

[86] (2798999)

[87] (2798999)

[22] 2012-12-18

[30] US (13/331,176) 2011-12-20

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[11] **2,799,182**  
[13] C

[51] **Int.Cl. G06Q 50/00 (2012.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ONLINE RENDERING OF GAME FILES**

[54] **PROCEDE ET APPAREIL POUR LE RENDU A DISTANCE DE FICHIERS DE JEU**

[72] WOLFSON, ROGER DANIEL, US

[72] WILLIAMS, MICHAEL RYAN, US

[72] LIEBERMAN, AARON DAVID, US

[72] GIOCONDA, THOMAS GEORGE, US

[72] GOSSETT, CHRISTOPHER MICHAEL, US

[72] STEWARD, STANTON HILL, US

[73] BUNGIE, INC., US

[85] 2012-11-09

[86] 2011-05-09 (PCT/US2011/035774)

[87] (WO2011/143123)

[30] US (12/778,044) 2010-05-11

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[11] **2,799,972**  
[13] C

[51] **Int.Cl. C07D 211/40 (2006.01) A61K 31/4412 (2006.01) A61P 35/00 (2006.01) C07D 279/02 (2006.01) C07D 401/04 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 407/04 (2006.01) C07D 407/06 (2006.01) C07D 409/04 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01) C07D 471/20 (2006.01) C07D 498/08 (2006.01) C07D 498/20 (2006.01)**

[25] EN

[54] **PIPERIDINONE DERIVATIVES AS MDM2 INHIBITORS FOR THE TREATMENT OF CANCER**

[54] **DERIVES DE LA PIPERIDINONE EN TANT QU'INHIBITEURS DE MDM2 POUR LE TRAITEMENT DU CANCER**

[72] BARTBERGER, MICHAEL DAVID, US

[72] GONZALEZ BUENROSTRO, ANA, US

[72] BECK, HILARY PLAKE, US

[72] CHEN, XIAOQI, US

[72] CONNORS, RICHARD VICTOR, US

[72] DEIGNAN, JEFFREY, US

[72] DUQUETTE, JASON, US

[72] EKSTEROWICZ, JOHN, US

[72] FISHER, BENJAMIN, US

[72] FOX, BRIAN MATTHEW, US

[72] FU, JIASHENG, US

[72] FU, ZICE, US

[72] GONZALEZ LOPEZ DE TURISO, FELIX, US

[72] GRIBBLE, JR., MICHAEL WILLIAM, US

[72] GUSTIN, DARIN JAMES, US

[72] HEATH, JULIE ANNE, US

[72] HUANG, XIN, US

[72] JIAO, XIANYUN, US

[72] JOHNSON, MICHAEL, US

[72] KAYSER, FRANK, US

[72] KOPECKY, DAVID JOHN, US

[72] LAI, SUJEN, US

[72] LI, YIHONG, US

[72] LI, ZHIHONG, US

[72] LIU, JIWEN, US

[72] LOW, JONATHAN DANTE, US

[72] LUCAS, BRIAN STUART, US

[72] MA, ZHIHUA, US

[72] MCGEE, LAWRENCE, US

[72] MCINTOSH, JOEL, US

[72] MCMINN, DUSTIN, US

[72] MEDINA, JULIO CESAR, US

[72] MIHALIC, JEFFREY THOMAS, US

[72] OLSON, STEVEN HOWARD, US

[72] REW, YOSUP, US

[72] ROVETO, PHILIP MARLEY, US

[72] SUN, DAQING, US

[72] WANG, XIAODONG, US

[72] WANG, YINGCAI, US

[72] YAN, XUELEI, US

[72] YU, MING, US

[72] ZHU, JIANG, US

[73] AMGEN INC., US

[85] 2012-11-19

[86] 2011-06-03 (PCT/US2011/039184)

[87] (WO2011/153509)

[30] US (61/351,827) 2010-06-04

[30] US (61/352,322) 2010-06-07

[30] US (61/452,578) 2011-03-14

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[11] **2,801,748**  
[13] C

[51] **Int.Cl. C25D 5/04 (2006.01) C25F 7/00 (2006.01)**  
[25] EN  
[54] **A DEVICE SUITABLE FOR THE ELECTROCHEMICAL PROCESSING OF AN OBJECT, A HOLDER SUITABLE FOR SUCH A DEVICE AND A METHOD FOR THE ELECTROCHEMICAL PROCESSING OF AN OBJECT**  
[54] **DISPOSITIF CONVENANT AU TRAITEMENT ELECTROCHIMIQUE D'UN OBJET, SUPPORT CONVENANT A UN TEL DISPOSITIF ET PROCEDE POUR LE TRAITEMENT ELECTROCHIMIQUE D'UN OBJET**  
[72] BOSSCHE, BART JUUL  
WILHELMINA VAN DEN, BE  
[73] ELSYCA N.V., BE  
[86] (2801748)  
[87] (2801748)  
[22] 2013-01-14

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[11] **2,803,313**  
[13] C

[51] **Int.Cl. E21C 35/00 (2006.01)**  
[25] EN  
[54] **A SYSTEM AND METHOD FOR MONITORING MINING MACHINE EFFICIENCY**  
[54] **SYSTEME ET PROCEDE POUR SURVEILLER L'EFFICACITE DES MACHINES DE MINES**  
[72] COLLINS, MATTHEW R., US  
[72] DANIEL, KENNETH J., US  
[72] PAN, RAY, US  
[72] RIKKOLA, MICHAEL J., US  
[72] WANG, DESHENG, US  
[73] JOY GLOBAL SURFACE MINING INC, US  
[86] (2803313)  
[87] (2803313)  
[22] 2013-01-24  
[30] US (61/590,198) 2012-01-24

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[11] **2,803,713**  
[13] C

[51] **Int.Cl. F16M 11/06 (2006.01) B60J 11/08 (2006.01) B62D 63/04 (2006.01) F16M 13/02 (2006.01) F41H 5/013 (2006.01)**  
[25] EN  
[54] **MOUNTING ASSEMBLY**  
[54] **DISPOSITIF D'ASSEMBLAGE**  
[72] WOOD, JOHN, GB  
[73] AMSAFE BRIDPORT LIMITED, GB  
[86] (2803713)  
[87] (2803713)  
[22] 2013-01-28  
[30] GB (1201903.0) 2012-02-03  
[30] GB (1212702.3) 2012-07-17  
[30] GB (1301121.8) 2013-01-22

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[11] **2,804,788**  
[13] C

[51] **Int.Cl. A61B 5/026 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR CHARACTERIZING CIRCULATORY BLOOD FLOW**  
[54] **SYSTEME ET PROCEDE DE CARACTERISATION DE FLUX SANGUIN CIRCULATOIRE**  
[72] BERKOW, JAN, US  
[73] INTELAMED, INC., US  
[85] 2013-01-08  
[86] 2011-07-08 (PCT/US2011/043354)  
[87] (WO2012/006520)  
[30] US (61/362,472) 2010-07-08  
[30] US (61/428,367) 2010-12-30

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[11] **2,806,428**  
[13] C

[51] **Int.Cl. A61K 36/28 (2006.01) A61K 9/00 (2006.01) A61K 36/9068 (2006.01) A61P 17/04 (2006.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **FORMULATIONS CONTAINING EXTRACTS OF ECHINACEA ANGUSTIFOLIA AND ZINGIBER OFFICINALE WHICH ARE USEFUL IN REDUCING INFLAMMATION AND PERIPHERAL PAIN**  
[54] **FORMULATIONS CONTENANT DES EXTRAITS DE ECHINACEA ANGUSTIFOLIA ET DE ZINGIBER OFFICINALE QUI SONT UTILES DANS LA REDUCTION DE L'INFLAMMATION ET DE LA DOULEUR PERIPHERIQUE**  
[72] BOMBARDELLI, EZIO, IT  
[72] MORAZZONI, PAOLO, IT  
[73] INDENA S.P.A., IT  
[85] 2013-01-24  
[86] 2011-07-20 (PCT/EP2011/062421)  
[87] (WO2012/013551)  
[30] IT (MI2010A001373) 2010-07-26

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[11] **2,806,637**  
[13] C

[51] **Int.Cl. C07K 16/32 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **ANTIBODIES FOR EPIDERMAL GROWTH FACTOR RECEPTOR 3 (HER3)**  
[54] **ANTICORPS POUR LE RECEPTEUR 3 DU FACTEUR DE CROISSANCE EPIDERMIQUE (HER3)**  
[72] ELIS, WINFRIED, DE  
[72] ETTENBERG, SETH, US  
[72] GARNER, ANDREW PAUL, US  
[72] HAUBST, NICOLE, DE  
[72] KUNZ, CHRISTIAN CARSTEN SILVESTER, DE  
[72] REISINGER SPRAGUE, ELIZABETH ANNE, US  
[73] NOVARTIS AG, CH  
[85] 2013-01-22  
[86] 2011-08-22 (PCT/EP2011/064407)  
[87] (WO2012/022814)  
[30] US (61/375,408) 2010-08-20

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[11] **2,806,796**  
[13] C

[51] **Int.Cl. H04N 19/137 (2014.01) H04N 19/13 (2014.01) H04N 19/52 (2014.01)**  
[25] EN  
[54] **IMAGE CODING AND DECODING USING TWO-PART HORIZONTAL AND TWO-PART VERTICAL COMPONENTS OF MOTION DIFFERENCE VECTORS**  
[54] **CODAGE ET DECODAGE D'IMAGE AU MOYEN DE COMPOSANTS HORIZONTALS A DEUX PARTIES ET VERTICAUX A DEUX PARTIES DE VECTEURS DE DIFFERENCE DE MOUVEMENT**  
[72] SASAI, HISAO, JP  
[72] NISHI, TAKAHIRO, JP  
[72] SHIBAHARA, YOUJI, JP  
[72] SUGIO, TOSHIYASU, JP  
[72] TANIKAWA, KYOKO, JP  
[72] MATSUNOBU, TORU, JP  
[73] VELOS MEDIA INTERNATIONAL LIMITED, IE  
[85] 2013-01-22  
[86] 2012-06-21 (PCT/JP2012/004014)  
[87] (WO2012/176450)  
[30] US (61/500,805) 2011-06-24

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[11] **2,807,572**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6862 (2018.01)**  
[25] EN  
[54] **ASSAY SYSTEMS FOR DETERMINATION OF SOURCE CONTRIBUTION IN A SAMPLE**  
[54] **SYSTEMES DE DOSAGE SERVANT A DETERMINER UNE CONTRIBUTION DE SOURCE DANS UN ECHANTILLON**  
[72] SPARKS, ANDREW, US  
[72] STRUBLE, CRAIG, US  
[72] WANG, ERIC, US  
[72] OLIPHANT, ARNOLD, US  
[73] ARIOSA DIAGNOSTICS, INC., US  
[85] 2013-02-05  
[86] 2011-08-08 (PCT/US2011/046981)  
[87] (WO2012/019200)  
[30] US (61/371,605) 2010-08-06  
[30] US (13/013,732) 2011-01-25

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[11] **2,807,603**  
[13] C

[51] **Int.Cl. H04L 12/16 (2006.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **RELATIONSHIP AND SECURITY IN ONLINE SOCIAL AND PROFESSIONAL NETWORKS AND COMMUNITIES**  
[54] **RELATIONS ET SECURITE DANS LES RESEAUX ET COMMUNAUTES SOCIAUX ET PROFESSIONNELS EN LIGNE**  
[72] HILL, DAVE, CA  
[73] TIMEDRIGHT INC., CA  
[85] 2013-02-06  
[86] 2010-08-06 (PCT/CA2010/001216)  
[87] (WO2011/014959)  
[30] US (61/272,010) 2009-08-06  
[30] US (12/619,451) 2009-11-16

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[11] **2,809,057**  
[13] C

[51] **Int.Cl. H01H 71/58 (2006.01) H01H 71/24 (2006.01) H01H 83/02 (2006.01)**  
[25] EN  
[54] **COMPACT LATCHING MECHANISM FOR SWITCHED ELECTRICAL DEVICE**  
[54] **MECANISME DE VERROUILLAGE COMPACT POUR DISPOSITIF ELECTRIQUE A COMMUTATEUR**  
[72] PADRO, KENNY, US  
[72] BONASIA, GAETANO, US  
[73] HUBBELL INCORPORATED, US  
[86] (2809057)  
[87] (2809057)  
[22] 2013-03-11  
[30] US (13/422,787) 2012-03-16

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[11] **2,809,530**  
[13] C

[51] **Int.Cl. B60P 7/08 (2006.01)**  
[25] EN  
[54] **SIDE RAIL OF A FLATBED TRAILER FOR USE WITH CARGO RESTRAINT DEVICES**  
[54] **LONGERON D'UNE REMORQUE A PLATEAU POUR UTILISER AVEC DES DISPOSITIFS DE RETENUE**  
[72] MCCLOUD, TRAVIS SMITH, US  
[73] WABASH NATIONAL, L.P., US  
[86] (2809530)  
[87] (2809530)  
[22] 2013-03-14  
[30] US (61/611,325) 2012-03-15

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[11] **2,809,689**  
[13] C

[51] **Int.Cl. G06Q 50/30 (2012.01) B60S 5/00 (2006.01) G06Q 40/08 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR VEHICLE DATA ANALYSIS**  
[54] **SYSTEME ET PROCEDE POUR ANALYSE DE DONNEES DE VEHICULE**  
[72] JOSHUA, ROBIN, CA  
[72] ROJAS-SILVA, OSWALDO EMILIO, CA  
[72] STAMP, CHRISTOPHER, CA  
[73] CAA CLUB GROUP, CA  
[86] (2809689)  
[87] (2809689)  
[22] 2013-03-15

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[11] **2,809,952**  
[13] C

[51] **Int.Cl. A22C 13/00 (2006.01) B65B 55/00 (2006.01)**  
[25] EN  
[54] **SHIRRABLE SPICED CASING WITH INNER COATING**  
[54] **BOYAU EPISSE PLISSABLE AVEC ENROBAGE INTERNE**  
[72] SCHAEFER, EKKEHARDT TH. F., DE  
[73] WORLD PAC INTERNATIONAL AG, DE  
[86] (2809952)  
[87] (2809952)  
[22] 2013-03-19  
[30] DE (10 2012 005 446.7) 2012-03-20

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[11] **2,809,988**  
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01)**  
[25] EN  
[54] **ACTIVATION FEATURE FOR SURGICAL INSTRUMENT WITH PENCIL GRIP**  
[54] **FONCTION D'ACTIVATION POUR INSTRUMENT CHIRURGICAL AVEC PRISE-CRAYON**  
[72] KIMBALL, CORY G., US  
[72] PRICE, DANIEL W., US  
[72] CLEM, WILLIAM E., US  
[73] ETHICON ENDO-SURGERY, INC., US  
[86] (2809988)  
[87] (2809988)  
[22] 2013-03-19  
[30] US (13/426,834) 2012-03-22

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[11] **2,811,330**  
[13] C

[51] **Int.Cl. A61B 5/05 (2006.01) G01D 21/00 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR THE AUTOMATED MEASUREMENT OF SURAL NERVE CONDUCTION VELOCITY AND AMPLITUDE**  
[54] **APPAREIL ET PROCÉDE DE MESURE AUTOMATISÉE DE LA VITESSE ET DE L'AMPLITUDE DE CONDUCTION DU NERF SAPHÈNE**  
[72] BOETTCHER, BONNIEJEAN, US  
[72] CRYAN, MARC, US  
[72] GOZANI, SHAI N., US  
[72] HERB, GLENN, US  
[72] KONG, XUAN, US  
[72] WILLIAMS, MICHAEL, US  
[72] FENDROCK, CHARLES, US  
[73] NEUROMETRIX, INC., US  
[85] 2013-03-13  
[86] 2011-09-16 (PCT/US2011/052042)  
[87] (WO2012/037527)  
[30] US (61/403,453) 2010-09-16  
[30] US (61/459,127) 2010-12-06  
[30] US (61/467,857) 2011-03-25  
[30] US (61/516,944) 2011-04-11  
[30] US (61/571,203) 2011-06-22

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[11] **2,811,652**  
[13] C

[51] **Int.Cl. D21F 7/08 (2006.01)**  
[25] EN  
[54] **INDUSTRIAL TWO-LAYER FABRIC**  
[54] **TISSU DOUBLE COUCHE INDUSTRIEL**  
[72] UEDA, IKUO, JP  
[72] EGAWA, TORU, JP  
[72] KONDOU, YOSHIHISA, JP  
[73] NIPPON FILCON CO., LTD., JP  
[86] (2811652)  
[87] (2811652)  
[22] 2013-04-05  
[30] JP (2012-10062) 2012-04-26

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[11] **2,812,687**  
[13] C

[51] **Int.Cl. G01J 3/42 (2006.01)**  
[25] EN  
[54] **COMPUTER IMPLEMENTED METHOD FOR ANALYZING A GAS SAMPLE USING AN INLINE GAS ANALYZER**  
[54] **METHODE INFORMATIQUE POUR L'ANALYSE D'UN ECHANTILLON DE GAZ AU MOYEN D'UN ANALYSEUR DE GAZ EN LIGNE**  
[72] SELMAN, THOMAS H., US  
[72] JENNINGS, MATTHEW J., US  
[72] BERGMAN, STEPHEN M., US  
[73] SELMAN AND ASSOCIATES, LTD., US  
[86] (2812687)  
[87] (2812687)  
[22] 2013-04-17  
[30] US (61/625,357) 2012-04-17  
[30] US (13/863,970) 2013-04-16

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[11] **2,814,602**  
[13] C

[51] **Int.Cl. E04H 12/00 (2006.01) E04H 12/20 (2006.01) E04H 12/34 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUSES OF SUPPORTING AND BRACING A POLE**  
[54] **PROCEDES ET APPAREILS POUR SUPPORTER ET RENFORCER UN POTEAU**  
[72] BUSHORE, KEVIN M., CA  
[73] BUSHORE, KEVIN M., CA  
[86] (2814602)  
[87] (2814602)  
[22] 2013-04-26  
[30] US (13/738,122) 2013-01-10

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[11] **2,814,860**  
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/00 (2006.01) C12N 5/10 (2006.01) C12N 15/00 (2006.01) C12N 15/12 (2006.01) C12N 15/85 (2006.01)**  
[25] EN  
[54] **METHODS OF MODIFYING TRANSCRIPTIONAL REGULATORY NETWORKS IN STEM CELLS**  
[54] **METHODES DE MODIFICATION DES RESEAUX DE REGULATION TRANSCRIPTIONNELLE DANS DES CELLULES SOUCHES**  
[72] WEST, MICHAEL D., US  
[72] CHAPMAN, KAREN B., US  
[73] BIOTIME INC., US  
[85] 2013-04-15  
[86] 2011-10-21 (PCT/US2011/057387)  
[87] (WO2012/054896)  
[30] US (61/406,064) 2010-10-22  
[30] US (61/415,244) 2010-11-18

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[11] **2,817,106**  
[13] C

[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/078 (2010.01) A61J 1/05 (2006.01) C12M 1/42 (2006.01) C12N 13/00 (2006.01)**  
[25] EN  
[54] **IRRADIATION OF RED BLOOD CELLS AND ANAEROBIC STORAGE**  
[54] **IRRADIATION DES GLOBULES ROUGES ET CONSERVATION ANAEROBIE**  
[72] VERNUCCI, PAUL, US  
[72] YOSHIDA, TATSURO, US  
[73] HEMANEXT INC., US  
[85] 2013-05-06  
[86] 2011-11-04 (PCT/US2011/059372)  
[87] (WO2012/061731)  
[30] US (61/410,684) 2010-11-05

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[13] C

[51] **Int.Cl. C23F 11/14 (2006.01) C09K 8/54 (2006.01) C10G 75/02 (2006.01) E21B 41/02 (2006.01)**

[25] EN

[54] **METHOD AND COMPOSITION FOR PREVENTING CORROSION OF METAL SURFACES**

[54] **PROCEDE ET COMPOSITION EMPECHANT LA CORROSION DE SURFACES METALLIQUES**

[72] MILES, ANDREW FREDERICK, GB

[72] BRETHERTON, NEIL, GB

[72] RICHTEROVA, KARLA, GB

[72] NARAGHI, ALI, US

[73] CHAMPION TECHNOLOGIES LTD, GB

[85] 2013-05-09

[86] 2011-11-08 (PCT/GB2011/052165)

[87] (WO2012/063055)

[30] GB (1018916.5) 2010-11-09

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[11] **2,818,681**  
[13] C

[51] **Int.Cl. G01S 19/35 (2010.01) G01S 19/22 (2010.01)**

[25] EN

[54] **RECEIVER OF SATELLITE SIGNALS SERVING FOR LOCATION**

[54] **RECEPTEUR DE SIGNAUX SATELLITES SERVANT A LA LOCALISATION**

[72] REVOL, MARC, FR

[72] DEPRAZ DEPLAND, DAVID, FR

[73] THALES, FR

[86] (2818681)

[87] (2818681)

[22] 2013-06-12

[30] FR (1201711) 2012-06-15

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[11] **2,819,687**  
[13] C

[51] **Int.Cl. A22C 13/00 (2006.01) A23P 20/20 (2016.01) C08J 7/04 (2020.01) C09D 125/14 (2006.01)**

[25] EN

[54] **BIOPOLYMER-BASED FLEXIBLE-TUBE TYPE FOOD CASING WITH INTERNAL IMPREGNATION**

[54] **BOYAU ALIMENTAIRE DE TYPE A TUBE FLEXIBLE A BASE DE BIOPOLYMERE AVEC IMPREGNATION INTERNE**

[72] POHL, MATTHIAS, DE

[72] MICHAELIS, NICO, DE

[73] KALLE GMBH, DE

[86] (2819687)

[87] (2819687)

[22] 2013-06-21

[30] DE (10 2012 012 484.8) 2012-06-22

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[11] **2,819,921**  
[13] C

[51] **Int.Cl. C07C 7/04 (2006.01) C07C 2/08 (2006.01)**

[25] FR

[54] **SEPARATION PROCESS FOR HEXENE-1 FROM A MIXTURE OF PRODUCTS FROM AN ETHYLENE TRIMERISATION ZONE**

[54] **PROCEDE DE SEPARATION DE L'HEXENE-1 A PARTIR D'UN MELANGE DE PRODUITS ISSUS D'UNE ZONE DE TRIMERISATION DE L'ETHYLENE**

[72] VINEL, DANIEL-JEAN, FR

[72] CHODORGE, JEAN-ALAIN, FR

[72] PIGOURIER, JEROME, FR

[72] MARTIN, PIERRE-YVES, FR

[72] BOURNAY, LAURENT, FR

[73] AXENS, FR

[86] (2819921)

[87] (2819921)

[22] 2013-07-02

[30] FR (12 01 886) 2012-07-04

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[11] **2,820,052**  
[13] C

[51] **Int.Cl. C08F 2/00 (2006.01)**

[25] EN

[54] **IMPROVED CONTROL OVER CONTROLLED RADICAL POLYMERIZATION PROCESSES**

[54] **CONTROLE AMELIORE DES PROCEDES DE POLYMERISATION RADICALEIRE CONTROLEE**

[72] JAKUBOWSKI, WOJCIECH, US

[72] SPANSWICK, JAMES, US

[73] PILOT POLYMER TECHNOLOGIES, INC., US

[85] 2013-06-04

[86] 2011-12-07 (PCT/US2011/063673)

[87] (WO2012/078716)

[30] US (12/926,780) 2010-12-08

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[11] **2,820,533**  
[13] C

[51] **Int.Cl. C10L 10/04 (2006.01)**

[25] EN

[54] **ADDITIVES FOR FUELS AND OILS COMPRISING FUNCTIONALISED DIBLOCK COPOLYMERS**

[54] **ADDITIFS POUR CARBURANTS ET HUILES COMPORTANT DES COPOLYMERES DIBLOCS FONCTIONNALISES**

[72] WATERSON, CARL, GB

[72] LEWTAS, KENNETH, GB

[72] THEAKER, GILES, GB

[72] WRIGHT, PETER, GB

[72] SCOTT, PETER, GB

[72] KAY, CHRISTOPHER, GB

[73] INFINEUM INTERNATIONAL LIMITED, GB

[86] (2820533)

[87] (2820533)

[22] 2013-07-09

[30] EP (12175622.5) 2012-07-09

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[11] **2,821,100**  
[13] C

[51] **Int.Cl. G01N 21/954 (2006.01) F16L 55/28 (2006.01) F17D 5/00 (2006.01)**

[25] EN

[54] **PIPELINE INSPECTION APPARATUS**

[54] **APPAREIL D'INSPECTION DE PIPELINE**

[72] THURSBY, JONATHAN, GB

[72] PECK, SHAUN, GB

[72] JAY, CHRIS, GB

[73] E.V. OFFSHORE LIMITED, GB

[86] (2821100)

[87] (2821100)

[22] 2013-07-15

[30] GB (1212624.9) 2012-07-16

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[11] **2,821,348**  
[13] C

[51] **Int.Cl. A61K 47/18 (2017.01) C01B 32/15 (2017.01) C01B 32/25 (2017.01) A61K 9/14 (2006.01) A61K 39/00 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **FUNCTIONALIZED NANODIAMONDS AS DELIVERY PLATFORMS FOR NUCLEIC ACIDS**

[54] **NANODIAMANTS FONCTIONNALISES COMME PLATEFORMES DE DISTRIBUTION POUR LES ACIDES NUCLEIQUES**

[72] BADEA, ILDIKO, CA

[72] VERRALL, RONALD E., CA

[72] CHITANDA, JACKSON, CA

[72] KAUR, RANDEEP, CA

[72] ALWANI, SANIYA, CA

[73] UNIVERSITY OF SASKATCHEWAN, CA

[86] (2821348)

[87] (2821348)

[22] 2013-07-17

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[11] **2,821,400**  
[13] C

[51] **Int.Cl. H01B 7/36 (2006.01) H01B 13/00 (2006.01)**

[25] FR

[54] **CABLE INCLUDING A MARKING DEVICE**

[54] **CABLE COMPORTANT UN DISPOSITIF DE MARQUAGE**

[72] BENICHOU, FABRICE, FR

[72] CADOUR, DAMIEN, FR

[73] NEXANS, FR

[86] (2821400)

[87] (2821400)

[22] 2013-07-15

[30] FR (12 58 322) 2012-09-06

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[11] **2,821,748**  
[13] C

[51] **Int.Cl. F02B 39/16 (2006.01) F02B 37/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS TO PROTECT DOWNSTREAM ENGINE COMPONENTS FROM DAMAGE IN THE EVENT OF A TURBINE FAILURE**

[54] **METHODE ET APPAREIL DE PROTECTION DE COMPOSANTES DE MOTEUR EN AVAL EN CAS DE DOMMAGES CAUSES PAR UNE PANNE DE TURBINE**

[72] JORDE, DEAN, CA

[73] JORDE, DEAN, CA

[86] (2821748)

[87] (2821748)

[22] 2013-07-23

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[11] **2,821,906**  
[13] C

[51] **Int.Cl. G16B 20/00 (2019.01) G16B 20/20 (2019.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS FOR NON-INVASIVE PRENATAL PATERNITY TESTING**

[54] **PROCEDES DE RECHERCHE DE PATERNITE PRENATALE, NON INVASIVE**

[72] RYAN, ALLISON, US

[72] SIGURJONSSON, STYRMIR, US

[72] BANJEVIC, MILENA, US

[72] GEMELOS, GEORGE, US

[72] HILL, MATTHEW, US

[72] BANER, JOHAN, US

[72] RABINOWITZ, MATTHEW, US

[72] DEMKO, ZACHARY, US

[73] NATERA, INC., US

[85] 2013-06-14

[86] 2011-12-22 (PCT/US2011/066938)

[87] (WO2012/088456)

[30] US (61/426,208) 2010-12-22

[30] US (61/462,972) 2011-02-09

[30] US (61/448,547) 2011-03-02

[30] US (61/516,996) 2011-04-12

[30] US (13/110,685) 2011-05-18

[30] US (61/571,248) 2011-06-23

[30] US (61/542,508) 2011-10-03

[30] US (13/300,235) 2011-11-18

[30] US (13/335,043) 2011-12-22

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[11] **2,823,170**  
[13] C

[51] **Int.Cl. G06F 16/954 (2019.01) G06F 3/0481 (2013.01) G06F 3/14 (2006.01)**

[25] EN

[54] **IMMERSIVE MODE FOR A WEB BROWSER**

[54] **MODE IMMERSIF POUR UN NAVIGATEUR WEB**

[72] KUSCHER, ALEXANDER FRIEDRICH, US

[72] JITKOFF, JOHN NICHOLAS, US

[72] GABRIEL, SEBASTIEN VINCENT, US

[72] MURPHY, GLEN, US

[73] GOOGLE LLC, US

[86] (2823170)

[87] (2823170)

[22] 2013-08-01

[30] US (13/929,698) 2013-06-27

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[11] **2,823,609**  
[13] C

[51] **Int.Cl. A47L 17/02 (2006.01) A47K 1/02 (2006.01)**  
[25] EN  
[54] **PORTABLE CAMPING SINK**  
[54] **EVIER DE CAMPING PORTATIF**  
[72] THWAITES, DANNY F., US  
[73] THWAITES, DANNY F., US  
[86] (2823609)  
[87] (2823609)  
[22] 2013-08-13  
[30] US (13/586,986) 2012-08-16

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[11] **2,825,195**  
[13] C

[51] **Int.Cl. G16H 15/00 (2018.01) A61B 5/044 (2006.01) G06F 3/048 (2013.01) G06F 3/14 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR VIEWING PATIENT DATA**  
[54] **SYSTEMES ET PROCEDES DE VISUALISATION DE DONNEES DE PATIENT**  
[72] POWELL, WILLIAM CAMERON, US  
[72] MOORE, STEPHEN TREY, US  
[73] AIRSTRIP IP HOLDINGS, LLC, US  
[85] 2013-07-18  
[86] 2012-01-18 (PCT/US2012/021677)  
[87] (WO2012/099933)  
[30] US (61/433,824) 2011-01-18

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[11] **2,825,691**  
[13] C

[51] **Int.Cl. C12N 1/13 (2006.01) C12N 15/113 (2010.01) A23D 9/00 (2006.01) C12N 15/00 (2006.01) C12N 15/54 (2006.01) C12N 15/56 (2006.01) C12N 15/79 (2006.01) C12P 7/64 (2006.01)**  
[25] EN  
[54] **TAILORED OILS PRODUCED FROM RECOMBINANT OLEAGINOUS MICROORGANISMS**  
[54] **HUILES PERSONNALISEES PRODUITES A PARTIR DE MICROORGANISMES OLEAGINEUX RECOMBINANTS**  
[72] FRANKLIN, SCOTT, US  
[72] SOMANCHI, ARAVIND, US  
[72] WEE, JANICE, US  
[72] RUDENKO, GEORGE, US  
[72] MOSELEY, JEFFREY, US  
[72] RAKITSKY, WALT, US  
[72] ZHAO, XINHUA, US  
[72] BHAT, RIYAZ, US  
[73] CORBION BIOTECH, INC., US  
[85] 2013-07-24  
[86] 2012-02-02 (PCT/US2012/023696)  
[87] (WO2012/106560)  
[30] US (61/438,969) 2011-02-02  
[30] US (61/476,691) 2011-04-18  
[30] US (61/484,458) 2011-05-10  
[30] US (61/548,616) 2011-10-18

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[11] **2,827,321**  
[13] C

[51] **Int.Cl. G01B 11/00 (2006.01) G01N 21/00 (2006.01)**  
[25] EN  
[54] **VISUAL INSPECTION DEVICE**  
[54] **DISPOSITIF D'EXAMEN VISUEL**  
[72] SELBY, DAVID A., US  
[72] HYMA, STEVEN W., US  
[72] DICKERT, COREY J., US  
[72] SCHNEIDER, SCOTT, US  
[72] MERGENER, MATTHEW J., US  
[73] MILWAUKEE ELECTRIC TOOL CORPORATION, US  
[85] 2013-08-13  
[86] 2012-02-16 (PCT/US2012/025465)  
[87] (WO2012/112786)  
[30] US (61/443,467) 2011-02-16

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[11] **2,827,380**  
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A01K 67/027 (2006.01) A61K 31/713 (2006.01) A61P 25/14 (2006.01) C07H 21/02 (2006.01) C12N 15/85 (2006.01)**  
[25] EN  
[54] **THERAPEUTIC NUCLEIC ACIDS ACIDES NUCLEIQUES THERAPEUTIQUES**  
[72] DAVIDSON, BEVERLY L., US  
[72] BOUDREAU, RYAN L., US  
[73] UNIVERSITY OF IOWA RESEARCH FOUNDATION, US  
[85] 2013-08-12  
[86] 2012-02-13 (PCT/US2012/024904)  
[87] (WO2012/109667)  
[30] US (61/442,218) 2011-02-12  
[30] US (61/522,632) 2011-08-11

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[11] **2,827,636**  
[13] C

[51] **Int.Cl. G01R 33/565 (2006.01) A61N 5/00 (2006.01)**  
[25] EN  
[54] **REDUCING ARTEFACTS IN MRI IMAGE DATA**  
[54] **REDUCTION DES ARTEFACTS DANS LES DONNEES D'IMAGE IRM**  
[72] BURKE, BENJAMIN, CA  
[72] FALLONE, B. GINO, CA  
[72] WACHOWICZ, KEITH, CA  
[72] RATHEE, SATYAPAL, CA  
[73] ALBERTA HEALTH SERVICES, CA  
[86] (2827636)  
[87] (2827636)  
[22] 2013-09-19

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[11] **2,827,641**  
[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/22 (2006.01) A61M 29/02 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR TREATING OBSTRUCTIONS WITHIN BODY LUMENS**  
[54] **APPAREIL ET PROCÉDES DE TRAITEMENT D'OBSTRUCTIONS A L'INTERIEUR DE CAVITES CORPORELLES**  
[72] KROLIK, JEFFREY A., US  
[72] DOMINGO, JUAN, US  
[72] WATANABE, GWENDOLYN, US  
[72] BETELIA, RAY, US  
[72] FERNANDEZ, LUCAS, US  
[73] ARROW INTERNATIONAL, INC., US  
[85] 2013-08-16  
[86] 2012-02-17 (PCT/US2012/025734)  
[87] (WO2012/112949)  
[30] US (61/463,537) 2011-02-19  
[30] US (61/520,927) 2011-06-17

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[11] **2,827,861**  
[13] C

[51] **Int.Cl. C10G 1/04 (2006.01) B03B 9/02 (2006.01)**  
[25] EN  
[54] **A METHOD FOR EXTRACTING BITUMEN FROM AN OIL SAND STREAM**  
[54] **UNE METHODE D'EXTRACTION DU BITUME D'UN FLUX DE SABLES BITUMINEUX**  
[72] BHALODI, ANJANA KALPESH, IN  
[72] COLENBRANDER, GERHARDUS WILLEM, NL  
[72] PLOEMEN, INGMAR HUBERTUS JOSEPHINA, NL  
[73] CHEVRON CANADA LIMITED, CA  
[73] CANADIAN NATURAL UPGRADING LIMITED, CA  
[86] (2827861)  
[87] (2827861)  
[22] 2013-09-20  
[30] US (61/704,923) 2012-09-24

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[11] **2,828,096**  
[13] C

[51] **Int.Cl. A61H 23/02 (2006.01)**  
[25] EN  
[54] **ACTUATOR FOR DELIVERY OF VIBRATORY STIMULATION TO AN AREA OF THE BODY AND METHOD OF APPLICATION**  
[54] **ACTIONNEUR DESTINE A DELIVRER UNE STIMULATION VIBRATOIRE SUR UNE ZONE DU CORPS ET PROCÉDE D'APPLICATION**  
[72] SCHUBERT, SHAI Y., US  
[72] BRINK-DANAN, SAGI, US  
[73] PERFUZIA MEDICAL, INC., US  
[85] 2013-08-22  
[86] 2012-02-22 (PCT/US2012/026068)  
[87] (WO2012/116038)  
[30] US (61/445,629) 2011-02-23

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[11] **2,828,660**  
[13] C

[51] **Int.Cl. A47B 43/00 (2006.01)**  
[25] EN  
[54] **COLLAPSIBLE SHELVING UNITS AND COLLAPSIBLE ENCLOSURES**  
[54] **UNITES DE RAYONNAGE PLIABLES ET ENCEINTES PLIABLES**  
[72] WEHNER, SCOTT D., US  
[72] JIN, ZHOU XIAO, US  
[73] WEHNER, SCOTT D., US  
[73] JIN, ZHOU XIAO, US  
[86] (2828660)  
[87] (2828660)  
[22] 2013-09-27  
[30] US (13/630,213) 2012-09-28

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[11] **2,828,744**  
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 21/62 (2013.01)**  
[25] EN  
[54] **USER INTERFACE AND WORKFLOW FOR PERFORMING MACHINE LEARNING**  
[54] **INTERFACE UTILISATEUR ET FLUX DE TRAVAIL POUR EFFECTUER UN APPRENTISSAGE AUTOMATIQUE**  
[72] DICORPO, PHILLIP, US  
[72] SAWANT, SHITALKUMAR S., US  
[72] KAUFFMAN, SALLY, US  
[72] GALINDEZ, ALAN DALE, US  
[72] JAISWAL, SUMESH, IN  
[72] AGGARWAL, ASHISH, IN  
[73] SYMANTEC CORPORATION, US  
[85] 2013-08-29  
[86] 2012-02-29 (PCT/US2012/027158)  
[87] (WO2012/118905)  
[30] US (13/038,299) 2011-03-01

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[11] **2,828,878**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 5/09 (2010.01) C12Q 1/6809 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6886 (2018.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01) C40B 40/10 (2006.01)**  
[25] EN  
[54] **PREDICTING GASTROENTEROPANCREATIC NEUROENDOCRINE NEOPLASMS (GEP-NENS)**  
[54] **PREDICTION DE NEOPLASMES NEUROENDOCRINIENS GASTROENTEROPANCREATIQUES (GEP-NEN)**  
[72] MODLIN, IRVIN M., US  
[73] YALE UNIVERSITY, US  
[85] 2013-08-30  
[86] 2012-03-01 (PCT/US2012/027351)  
[87] (WO2012/119013)  
[30] US (61/448,137) 2011-03-01

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[11] **2,829,017**  
[13] C

[51] **Int.Cl. A61K 31/02 (2006.01) A61K 9/107 (2006.01) A61P 9/10 (2006.01)**

[25] EN

[54] **DODECAFLUOROPENTANE EMULSION AS A STROKE AND ISCHEMIA THERAPY**

[54] **EMULSION DE DODECAFLUOROPENTANE UTILISEE COMME THERAPIE POUR UN ACCIDENT CEREBRAL VASCULAIRE ET UNE ISCHEMIE**

[72] CULP, WILLIAM, US  
[72] SKINNER, ROBERT, US  
[72] UNGER, EVAN, US  
[73] BIOVENTURES, LLC, US  
[85] 2013-09-03  
[86] 2012-03-01 (PCT/US2012/027307)  
[87] (WO2012/121977)  
[30] US (61/449,448) 2011-03-04

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[11] **2,830,305**  
[13] C

[51] **Int.Cl. C12N 7/01 (2006.01) A61K 39/235 (2006.01) A61P 31/20 (2006.01) A61P 37/04 (2006.01) C12N 15/00 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **NON-PATHOGENIC SEROTYPE 4 FOWL ADENOVIRUS (FADV-4) AND VIRAL VECTOR THEREOF**

[54] **ADENOVIRUS AVIAIRE DE SEROTYPE 4 NON PATHOGENE (FADV-4) ET SON VECTEUR VIRAL**

[72] NAGY, EVA, CA  
[72] GRIFFIN, BRYAN, CA  
[72] GRGIC, HELENA, CA  
[72] OJKIC, DAVOR, CA  
[73] UNIVERSITY OF GUELPH, CA  
[85] 2013-09-16  
[86] 2012-03-16 (PCT/CA2012/000238)  
[87] (WO2012/129645)  
[30] US (61/453,297) 2011-03-16

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[11] **2,830,306**  
[13] C

[51] **Int.Cl. E01C 23/22 (2006.01) B05B 12/00 (2018.01)**

[25] EN

[54] **PAINT SPRAYING SYSTEM**

[54] **SYSTEME DE PULVERISATION DE PEINTURE**

[72] GRIMM, JEFFREY JOHN, US  
[72] KOLB, TROY C., US  
[73] CAPSTAN AG SYSTEMS, INC., US  
[86] (2830306)  
[87] (2830306)  
[22] 2013-10-17  
[30] US (61/720,132) 2012-10-30

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[11] **2,831,168**  
[13] C

[51] **Int.Cl. A61F 5/56 (2006.01) A61C 7/00 (2006.01)**

[25] EN

[54] **DENTAL APPLIANCE FOR RETRAINING THE TONGUE**

[54] **APPAREIL DENTAIRE DESTINE A RETENIR LA LANGUE**

[72] MAUCLAIRE, CLAUDE, FR  
[73] TONGUE LAB EUROPE, GB  
[85] 2013-06-17  
[86] 2011-12-21 (PCT/IB2011/003268)  
[87] (WO2012/085672)  
[30] EP (10306495) 2010-12-22  
[30] US (12/976,489) 2010-12-22

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[11] **2,831,399**  
[13] C

[51] **Int.Cl. H05K 5/06 (2006.01)**

[25] EN

[54] **CONTROLLER ENCLOSURE, MOUNTING AND ORIENTATION OF SAME**

[54] **ENCEINTE DE DISPOSITIF DE COMMANDE, MONTAGE ET CORRESPONDANTS**

[72] CARLSON, BRIAN P., US  
[72] CHERNIK, RYAN A., US  
[72] DAHLGREN, ARON D., US  
[72] NELSON, WESLEY M., US  
[73] ECOLAB USA INC., US  
[85] 2013-09-25  
[86] 2012-05-18 (PCT/US2012/038644)  
[87] (WO2012/162169)  
[30] US (61/488,495) 2011-05-20

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[11] **2,831,924**  
[13] C

[51] **Int.Cl. F04D 29/24 (2006.01) F04D 13/08 (2006.01) F04D 29/70 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID**

[54] **APPAREIL, SYSTEME ET PROCEDE POUR POMPER UN FLUIDE GAZEUX**

[72] JAYARAM, SHIV, US  
[72] WALTON, FREDDIE GEORGE, US  
[72] JOLLY, DAVID THOMAS, US  
[72] TETZLAFF, STEVEN KEITH, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[86] (2831924)  
[87] (2831924)  
[22] 2013-10-29  
[30] US (13/801,969) 2013-03-13  
[30] US (14/062,597) 2013-10-24

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[11] **2,832,040**  
[13] C

[51] **Int.Cl. B32B 21/02 (2006.01) B27N 3/06 (2006.01) B32B 21/08 (2006.01) B44C 5/04 (2006.01) E04F 15/00 (2006.01)**

[25] EN

[54] **POWDER BASED BALANCING LAYER**

[54] **COUCHE D'EQUILIBRAGE A BASE DE POUDRE**

[72] HAKANSSON, NICLAS, SE  
[72] PERSSON, HANS, SE  
[72] JACOBSSON, JAN, SE  
[73] VALINGE INNOVATION AB, SE  
[85] 2013-10-01  
[86] 2012-04-11 (PCT/SE2012/050386)  
[87] (WO2012/141647)  
[30] US (61/474,498) 2011-04-12  
[30] SE (1150320-8) 2011-04-12  
[30] US (61/557,734) 2011-11-09  
[30] SE (1151058-3) 2011-11-09

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25 août 2020**

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[13] C

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 35/74 (2015.01) A61L 15/32 (2006.01) A61L 27/22 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **MODULATING BACTERIAL MAM POLYPEPTIDES IN PATHOGENIC DISEASE**

[54] **MODULATION DE POLYPEPTIDES BACTERIENS MAM DANS UNE MALADIE PATHOGENE**

[72] ORTH, KIM, US

[72] HAM, HYEILIN, US

[72] KRACHLER, ANNE MARIE, US

[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2013-10-04

[86] 2012-03-30 (PCT/US2012/031552)

[87] (WO2012/138570)

[30] US (61/472,440) 2011-04-06

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[11] **2,833,286**  
[13] C

[51] **Int.Cl. B01J 6/00 (2006.01) B01J 4/00 (2006.01) C10B 53/02 (2006.01) C10L 5/44 (2006.01) C09K 3/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND APPARATUS FOR PRODUCTION OF HIGH-CARBON BIOGENIC REAGENTS**

[54] **SYSTEMES ET APPAREIL POUR LA PRODUCTION DE REACTIFS BIOGENIQUES A TENEUR ELEVEE EN CARBONE**

[72] MENNELL, JAMES A., US

[72] DESPEN, DANIEL J., US

[73] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2013-10-11

[86] 2012-04-13 (PCT/US2012/033628)

[87] (WO2012/142489)

[30] US (61/476,025) 2011-04-15

[30] US (61/476,043) 2011-04-15

[30] US (61/475,930) 2011-04-15

[30] US (61/475,937) 2011-04-15

[30] US (61/475,943) 2011-04-15

[30] US (61/475,946) 2011-04-15

[30] US (61/475,949) 2011-04-15

[30] US (61/475,956) 2011-04-15

[30] US (61/475,959) 2011-04-15

[30] US (61/475,968) 2011-04-15

[30] US (61/475,971) 2011-04-15

[30] US (61/475,973) 2011-04-15

[30] US (61/475,977) 2011-04-15

[30] US (61/475,981) 2011-04-15

[30] US (61/475,991) 2011-04-15

[30] US (61/475,996) 2011-04-15

[30] US (61/476,049) 2011-04-15

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[11] **2,834,262**  
[13] C

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/00 (2006.01) A61K 47/10 (2017.01)**

[25] EN

[54] **IMPROVED PARENTERAL FORMULATIONS OF LIPOPHILIC PHARMACEUTICAL AGENTS AND METHODS FOR PREPARING AND USING THE SAME**

[54] **PREPARATIONS PARENTERALES AMELIOREES D'AGENTS PHARMACEUTIQUES LIPOPHILES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] ANDERSSON, BORJE S., US

[72] VALDEZ, BENIGNO C., US

[72] TARRAND, JEFFREY, US

[73] PLATFORM BRIGHTWORKS TWO, LTD., US

[85] 2013-10-24

[86] 2012-04-20 (PCT/US2012/034361)

[87] (WO2012/148799)

[30] US (61/480,259) 2011-04-28

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[11] **2,835,222**  
[13] C

[51] **Int.Cl. C12N 15/13 (2006.01) C12N 5/071 (2010.01) A01K 67/027 (2006.01) C12N 5/10 (2006.01) C12N 15/00 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **TRANSGENIC CHICKEN COMPRISING AN INACTIVATED IMMUNOGLOBULIN GENE**

[54] **POULET TRANSGENIQUE COMPORTANT UN GENE INACTIVE DE L'IMMUNOGLOBULINE**

[72] LEIGHTON, PHIL, US

[72] HARRIMAN, WILLIAM DON, US

[72] ETCHES, ROBERT, US

[73] CRYSTAL BIOSCIENCE INC., US

[85] 2013-11-05

[86] 2012-05-23 (PCT/US2012/039191)

[87] (WO2012/162422)

[30] US (61/489,638) 2011-05-24

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August 25, 2020**

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[11] **2,835,284**  
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/48 (2006.01)**  
[25] EN  
[54] **METHODS FOR DETERMINING THE LIKELIHOOD OF SURVIVAL AND FOR PREDICTING LIKELIHOOD OF METASTASIS IN CANCER PATIENTS**  
[54] **PROCEDES DE DETERMINATION DE LA PROBABILITE DE SURVIE ET D'EVALUATION DE LA PROBABILITE DE METASTASES CHEZ DES PATIENTS CANCEREUX**  
[72] HUANG, WEIDONG, US  
[72] WEIDLER, JODI, US  
[72] SPERINDE, JEFF, US  
[72] HADDAD, MOJGAN, US  
[72] BATES, MICHAEL, US  
[72] WALLWEBER, GERALD J., US  
[72] WINSLOW, JOHN WILLIAM, US  
[72] JIN, XUEGUANG, US  
[73] LABORATORY CORPORATION OF AMERICA HOLDINGS, US  
[85] 2013-11-06  
[86] 2012-05-21 (PCT/US2012/038867)  
[87] (WO2012/159115)  
[30] US (61/488,028) 2011-05-19

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[11] **2,835,285**  
[13] C

[51] **Int.Cl. C12N 15/62 (2006.01) C07K 7/23 (2006.01)**  
[25] EN  
[54] **THERAPEUTIC FUSION PROTEINS**  
[54] **PROTEINES DE FUSION THERAPEUTIQUES**  
[72] CHADDOCK, JOHN, GB  
[72] HARPER, ELAINE, GB  
[73] IPSEN BIOINNOVATION LIMITED, GB  
[85] 2013-11-06  
[86] 2012-05-16 (PCT/GB2012/051104)  
[87] (WO2012/156743)  
[30] GB (1108108.0) 2011-05-16

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[11] **2,835,354**  
[13] C

[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/142 (2006.01)**  
[25] EN  
[54] **CONTINUOUS ANESTHESIA NERVE CONDUCTION APPARATUS, SYSTEM AND METHOD**  
[54] **APPAREIL, SYSTEME ET METHODE D'ANESTHESIE CONTINUE DE LA CONDUCTION NERVEUSE**  
[72] RAJENDRAN, SUNDAR, US  
[72] KOPACZ, DAN JOEL, US  
[73] SOLODEX LLC, US  
[85] 2013-11-06  
[86] 2012-05-18 (PCT/US2012/038504)  
[87] (WO2012/159000)  
[30] US (61/487,555) 2011-05-18  
[30] US (61/532,316) 2011-09-08

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[11] **2,835,885**  
[13] C

[51] **Int.Cl. A61K 33/24 (2019.01) A61K 31/416 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **MEDICAMENTS AND METHODS FOR TREATING CANCER**  
[54] **MEDICAMENTS ET PROCEDES POUR TRAITER LE CANCER**  
[72] SHESHBARADARAN, HOOSHMAND, US  
[73] BOLD THERAPEUTICS, INC., CA  
[85] 2013-11-12  
[86] 2012-05-17 (PCT/US2012/038230)  
[87] (WO2012/158856)  
[30] US (61/486,783) 2011-05-17

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[11] **2,837,418**  
[13] C

[51] **Int.Cl. C10G 2/00 (2006.01) C01B 3/48 (2006.01) C01B 3/50 (2006.01) C10J 3/00 (2006.01) C10K 3/06 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING A HYDROCARBON COMPOSITION**  
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION D'HYDROCARBURES**  
[72] EILOS, ISTO, FI  
[72] JOHANSSON, SEBASTIAN, FI  
[72] TOPPINEN, SAMI, FI  
[72] HILTUNEN, ILKKA, FI  
[72] KURKELA, ESA, FI  
[72] SIMELL, PEKKA, FI  
[73] NESTE OYJ, FI  
[85] 2013-11-26  
[86] 2012-05-30 (PCT/FI2012/050525)  
[87] (WO2012/164165)  
[30] EP (11168096.3) 2011-05-30  
[30] US (61/491,244) 2011-05-30

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[11] **2,838,059**  
[13] C

[51] **Int.Cl. A61K 31/765 (2006.01) A61K 9/14 (2006.01) A61P 19/02 (2006.01) A61L 15/50 (2006.01) A61L 27/14 (2006.01)**  
[25] EN  
[54] **METHOD, COMPOSITION, AND ARTICLES FOR IMPROVING JOINT LUBRICATION**  
[54] **PROCEDE, COMPOSITION, ET ARTICLES POUR AMELIORER UNE LUBRIFICATION D'ARTICULATION**  
[72] LAICO, JOSEPH P., US  
[73] MAGUIRE ABBEY, LLC, US  
[85] 2013-12-02  
[86] 2012-06-04 (PCT/US2012/040675)  
[87] (WO2012/167226)  
[30] US (61/493,124) 2011-06-03



**Brevets canadiens délivrés  
25 août 2020**

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[13] C

[51] **Int.Cl. A61F 7/08 (2006.01) A61F 7/02 (2006.01) B32B 27/08 (2006.01) B32B 37/00 (2006.01) C09K 5/00 (2006.01)**

[25] EN

[54] **THERMOTHERAPEUTIC PAD AND METHOD OF MANUFACTURING A THERMOTHERAPEUTIC PAD**

[54] **COUSSIN THERMOTHERAPEUTIQUE ET PROCEDE DE FABRICATION DE CELUI-CI;COUSSIN THERMOTHERAPEUTIQUE**

[72] WHITELY, JEFFREY THOMAS, CA

[73] RAPID AID CORP., CA

[86] (2838148)

[87] (2838148)

[22] 2013-12-23

[30] US (61/1911305) 2013-12-03

[30] US (14/136478) 2013-12-20

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[11] **2,838,746**  
[13] C

[51] **Int.Cl. G01N 33/573 (2006.01) C12Q 1/00 (2006.01) C12Q 1/44 (2006.01)**

[25] EN

[54] **COMPETITION BASED-DETECTION ASSAYS**

[54] **DOSAGES PAR DETECTION BASEE SUR UNE COMPETITION**

[72] ROSEMAN, DANIEL S., US

[73] SHIRE HUMAN GENETIC THERAPIES, INC., US

[85] 2013-12-06

[86] 2012-06-08 (PCT/US2012/041638)

[87] (WO2012/170870)

[30] US (61/494,643) 2011-06-08

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[11] **2,839,812**  
[13] C

[51] **Int.Cl. G06F 1/28 (2006.01) G06F 11/20 (2006.01) H02J 1/10 (2006.01) H02J 1/14 (2006.01)**

[25] EN

[54] **POWER SUPPLY**

[54] **SYSTEME D'ALIMENTATION ELECTRIQUE**

[72] PRICE, LES, GB

[72] FOWLSTON, STEPHEN, GB

[72] WILLIAMS, DAVID GARETH, GB

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2013-12-18

[86] 2012-06-20 (PCT/GB2012/051427)

[87] (WO2013/001280)

[30] GB (1110823.0) 2011-06-27

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[11] **2,840,001**  
[13] C

[51] **Int.Cl. G01P 15/08 (2006.01) B60R 21/0132 (2006.01) G01P 15/093 (2006.01)**

[25] EN

[54] **PENDULAR ACCELEROMETER**

[54] **DECELEROSTAT PENDULAIRE**

[72] CONSOLI, LUCIANO, FR

[73] SIEMENS MOBILITY SAS, FR

[85] 2013-12-19

[86] 2012-06-19 (PCT/EP2012/061743)

[87] (WO2012/175515)

[30] EP (11290282.0) 2011-06-21

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[11] **2,840,238**  
[13] C

[51] **Int.Cl. F16K 37/00 (2006.01)**

[25] EN

[54] **CONTROL VALVE MONITORING SYSTEM**

[54] **SYSTEME DE CONTROLE DE SOUPAPE DE REGULATION**

[72] CARDER, KENNETH H., US

[72] ANDERSON, SHAWN W., US

[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2013-12-20

[86] 2012-07-17 (PCT/US2012/047039)

[87] (WO2013/012849)

[30] US (61/510,252) 2011-07-21

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[11] **2,840,666**  
[13] C

[51] **Int.Cl. B65D 75/32 (2006.01)**

[25] EN

[54] **PROCESS FOR MAKING A PACKAGE FOR A FOODSTUFF PRODUCT, IN PARTICULAR A CONFECTIONERY PRODUCT**

[54] **PROCEDE DESTINE A CREER UN EMBALLAGE POUR UN PRODUIT ALIMENTAIRE, NOTAMMENT UN PRODUIT DE CONFISERIE**

[72] SAPPÀ, ENRICO, IT

[72] SOBRERO, GIOVANNI, IT

[73] SOREMARTEC S.A., LU

[86] (2840666)

[87] (2840666)

[22] 2014-01-23

[30] IT (TO2013A000097) 2013-02-06

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[11] **2,840,964**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/686 (2018.01) C12P 19/34 (2006.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **DIRECT AMPLIFICATION AND DETECTION OF VIRAL AND BACTERIAL PATHOGENS**

[54] **AMPLIFICATION DIRECTE ET DETECTION D'AGENTS PATHOGENES VIRAUX ET BACTERIENS**

[72] EXNER, MAURICE, US

[72] JACKY, LUCA, US

[72] CHEN, YIN-PENG, US

[72] MAI, HUONG, US

[72] TABB, MICHELLE M., US

[72] AYE, MICHAEL, US

[72] CHEN, JULES, US

[73] QUEST DIAGNOSTICS INVESTMENTS INCORPORATED, US

[85] 2014-01-03

[86] 2012-07-06 (PCT/US2012/045763)

[87] (WO2013/006793)

[30] US (61/505,055) 2011-07-06

[30] US (61/552,405) 2011-10-27

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[11] **2,841,678**  
[13] C

[51] **Int.Cl. A47J 45/07 (2006.01)**

[25] FR

[54] **REMOVABLE GRASPING DEVICE FOR A COOKING CONTAINER EQUIPPED WITH NON-RETURN MEANS FOR A ROTARY CLAMPING FOOT**

[54] **DISPOSITIF DE PREHENSION AMOVIBLE D'UN RECIPIENT CULINAIRE MUNI DE MOYENS ANTIRETOUR D'UNE PATTE DE SERRAGE ROTATIVE**

[72] CUILLERY, PASCAL, FR

[73] SEB S.A., FR

[86] (2841678)

[87] (2841678)

[22] 2014-01-31

[30] FR (1351707) 2013-02-27

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August 25, 2020**

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[11] **2,841,900**  
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6886 (2018.01) C07K 14/705 (2006.01) C12N 9/12 (2006.01)**

[25] EN

[54] **ROS KINASE IN LUNG CANCER**

[54] **KINASE ROS DANS LE CANCER DU POUMON**

[72] RIMKUNAS, VICTORIA  
MCGUINNESS, US

[72] HAACK, HERBERT, US

[72] GU, TING-LEI, US

[72] GUO, AILAN, US

[72] POSSEMATO, ANTHONY PAUL, US

[72] CROSBY, KATHERINE ELEANOR, US

[72] TUCKER, MEGHAN ANN, US

[72] REEVES, CYNTHIA, US

[73] CELL SIGNALING TECHNOLOGY, INC., US

[85] 2014-01-10

[86] 2012-05-23 (PCT/US2012/039108)

[87] (WO2012/162373)

[30] US (13/113,676) 2011-05-23

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[11] **2,841,994**  
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01) C12N 5/0784 (2010.01) A61K 38/17 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **C4B-BINDING PROTEIN (C4BP) ISOFORMS FOR IMMUNOMODULATION**

[54] **ISOFORMES DE LA PROTEINE LIANT C48 (C48P) DESTINEES A L'IMMUNOMODULATION**

[72] ARAN PERRAMON, JOSEP M., ES

[72] OLIVAR MIRO, RUT, ES

[73] FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL), ES

[85] 2014-01-15

[86] 2012-07-16 (PCT/EP2012/063932)

[87] (WO2013/010998)

[30] EP (11382240.7) 2011-07-15

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[11] **2,842,006**  
[13] C

[51] **Int.Cl. H03F 1/32 (2006.01) H04L 25/03 (2006.01) H04L 27/26 (2006.01)**

[25] EN

[54] **MULTI-BAND PEAK POWER REDUCTION**

[54] **REDUCTION DE PUISSANCE DE PIC MULTI-BLOC**

[72] MORRIS, BRAD, CA

[72] MCGOWAN, NEIL, CA

[72] KILAMBI, SAI, CA

[73] TELEFONAKTIEBOLAGET L M ERICSSON (PUBL), SE

[85] 2014-01-15

[86] 2012-06-27 (PCT/IB2012/053254)

[87] (WO2013/014551)

[30] US (13/190,660) 2011-07-26

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[11] **2,842,565**  
[13] C

[51] **Int.Cl. C10L 1/02 (2006.01) C10L 1/06 (2006.01)**

[25] EN

[54] **LOW SULFUR FUEL COMPOSITIONS HAVING IMPROVED LUBRICITY**

[54] **COMPOSITIONS DE CARBURANT A FAIBLE TENEUR EN SOUFRE ET A POUVOIR LUBRIFIANT AMELIORE**

[72] WOLF, LESLIE R., US

[73] BUTAMAX ADVANCED BIOFUELS LLC, US

[85] 2014-01-20

[86] 2012-07-27 (PCT/US2012/048733)

[87] (WO2013/016716)

[30] US (61/512,859) 2011-07-28

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[11] **2,842,658**  
[13] C

[51] **Int.Cl. F25B 39/04 (2006.01) F25B 40/00 (2006.01) F25B 49/02 (2006.01)**

[25] EN

[54] **CONDENSER UNIT**

[54] **MODULE DE CONDENSEUR**

[72] ZOLLI, VINCE, CA

[72] MEAD, WILLIAM J., CA

[72] WALLET, GERALD, CA

[73] NATIONAL REFRIGERATION & AIR CONDITIONING CANADA CORP., CA

[86] (2842658)

[87] (2842658)

[22] 2014-02-12

[30] US (61/763,723) 2013-02-12

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[11] **2,842,886**  
[13] C

[51] **Int.Cl. H04M 7/00 (2006.01) H04W 28/18 (2009.01) H04W 88/18 (2009.01) G10L 19/00 (2013.01)**

[25] EN

[54] **MECHANISM OF DYNAMIC SIGNALING OF ENCODER CAPABILITIES**

[54] **MECANISME DE SIGNALISATION DYNAMIQUE DE CAPACITES DE CODEUR**

[72] RABIPOUR, RAFI, CA

[72] CHU, CHUNG CHEUNG, CA

[72] COHN, DANIEL, US

[73] TELEFONAKTIEBOLAGET L M ERICSSON (PUBL), SE

[85] 2014-01-23

[86] 2012-08-17 (PCT/IB2012/054202)

[87] (WO2013/024464)

[30] US (61/524,386) 2011-08-17

[30] US (61/531,796) 2011-09-09

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[11] **2,842,994**  
[13] C

[51] **Int.Cl. H02H 1/00 (2006.01) H02H 3/00 (2006.01)**

[25] EN

[54] **ADAPTIVE LIGHT DETECTION FOR ARC MITIGATION SYSTEMS**

[54] **DETECTION DE LUMIERE ADAPTATIVE POUR DES SYSTEMES D'ATTENUATION D'ARC**

[72] RODGERS, BARRY, US

[72] PATRICK, HENRY, US

[73] SCHNEIDER ELECTRIC USA, INC., US

[85] 2014-01-23

[86] 2012-08-08 (PCT/US2012/049936)

[87] (WO2013/025411)

[30] US (13/210,943) 2011-08-16

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[11] **2,843,133**  
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR CONTROLLING OPERATION OF A REDUCED PRESSURE THERAPY SYSTEM**  
[54] **SYSTEMES ET PROCEDES DE COMMANDE DU FONCTIONNEMENT D'UN SYSTEME DE THERAPIE PAR PRESSION REDUITE**  
[72] ALLEN, JULIE, GB  
[72] ASKEM, BEN ALAN, GB  
[72] COLLINSON, SARAH JENNY, GB  
[72] HUGHEY, RICHARD, US  
[72] NICOLINI, DEREK, GB  
[73] SMITH & NEPHEW PLC, GB  
[85] 2014-01-24  
[86] 2011-11-02 (PCT/US2011/059016)  
[87] (WO2013/015827)  
[30] US (61/511,950) 2011-07-26

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[11] **2,843,338**  
[13] C

[51] **Int.Cl. A61K 31/5415 (2006.01) A61K 31/546 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **SELECTIVE INHIBITION OF MALTI PROTEASE BY PHENOTHIAZINE DERIVATIVES**  
[54] **INHIBITION SELECTIVE DE LA PROTEASE MALTI PAR DES DERIVES DE PHENOTHIAZINE**  
[72] KRAPPMANN, DANIEL, DE  
[72] NAGEL, DANIEL, DE  
[72] SCHENDEL, DOLORES, DE  
[72] SPRANGER, STEFANI, US  
[73] HELMHOLTZ ZENTRUM MUNCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUR GESUNDHEIT UND UMWELT (GMBH), DE  
[85] 2014-01-28  
[86] 2012-08-01 (PCT/EP2012/065072)  
[87] (WO2013/017637)  
[30] EP (11006346.8) 2011-08-02

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[11] **2,843,392**  
[13] C

[51] **Int.Cl. B29C 48/80 (2019.01) B29C 48/36 (2019.01)**  
[25] EN  
[54] **APPARATUS FOR EXTRUDING PLASTIC MATERIALS**  
[54] **APPAREIL SERVANT A EXTRUDER DES MATIERES PLASTIQUES**  
[72] KAY, ALEX, CA  
[72] OOSTERMAN, JAMES, CA  
[72] JOYCE, DAVID, CA  
[73] REDETEC INC., CA  
[86] (2843392)  
[87] (2843392)  
[22] 2014-02-20  
[30] US (61/941,689) 2014-02-19

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[11] **2,843,504**  
[13] C

[51] **Int.Cl. C07K 14/00 (2006.01) C07K 7/08 (2006.01)**  
[25] EN  
[54] **PROTEIN CARRIER-LINKED PRODRUGS**  
[54] **PROMEDICAMENTS LIES A UN EXCIPIENT PROTEIQUE**  
[72] HERSEL, ULRICH, DE  
[72] VETTER, DIRK, DE  
[73] ASCENDIS PHARMA A/S, DK  
[85] 2014-01-29  
[86] 2012-08-10 (PCT/EP2012/065740)  
[87] (WO2013/024049)  
[30] EP (11177408.9) 2011-08-12

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[11] **2,843,920**  
[13] C

[51] **Int.Cl. F16K 11/20 (2006.01) F16K 1/44 (2006.01) F16K 1/52 (2006.01)**  
[25] EN  
[54] **FLUID VALVES HAVING MULTIPLE FLUID FLOW CONTROL MEMBERS**  
[54] **ROBINETS A MULTIPLES ELEMENTS DE REGULATION D'ECOULEMENT DE FLUIDE**  
[72] ANAGNOS, RICHARD JAMES, US  
[73] FISHER CONTROLS INTERNATIONAL LLC, US  
[85] 2014-01-31  
[86] 2012-08-07 (PCT/US2012/049807)  
[87] (WO2013/022864)  
[30] US (61/522,336) 2011-08-11

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[11] **2,844,196**  
[13] C

[51] **Int.Cl. F24H 9/20 (2006.01) F24D 19/10 (2006.01) F24H 1/20 (2006.01) H05B 1/02 (2006.01)**  
[25] EN  
[54] **WATER HEATER AND METHOD OF OPERATING A WATER HEATER**  
[54] **CHAUFFE-EAU ET PROCEDE DE FONCTIONNEMENT D'UN CHAUFFE-EAU**  
[72] BRANECKY, BRIAN T., US  
[73] A. O. SMITH CORPORATION, US  
[86] (2844196)  
[87] (2844196)  
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[30] US (13/834,929) 2013-03-15

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[51] **Int.Cl. A01C 5/06 (2006.01) A01B 13/08 (2006.01) A01B 63/111 (2006.01) A01B 63/114 (2006.01) A01C 7/18 (2006.01)**  
[25] EN  
[54] **APPARATUS, SYSTEMS AND METHODS FOR ROW UNIT DOWNFORCE CONTROL**  
[54] **EQUIPEMENT, SYSTEMES ET PROCEDES DE COMMANDE DE FORCE D'APPUI D'UNITES DE RANGEE**  
[72] SAUDER, DEREK A., US  
[72] RADTKE, IAN R., US  
[72] STOLLER, JASON J., US  
[73] PRECISION PLANTING LLC, US  
[85] 2014-02-04  
[86] 2012-08-06 (PCT/US2012/049747)  
[87] (WO2013/022835)  
[30] US (61/515,700) 2011-08-05

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[13] C

[51] **Int.Cl. A61H 21/00 (2006.01) A61H 1/00 (2006.01) A61H 23/02 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR GASTROINTESTINAL AND VASCULAR ATROPHY ENGINEERING TO RESTORE NORMAL YOUTHFUL BODILY FUNCTIONS**  
[54] **SYSTEME POUR INGENIERIE D'ATROPHIE GASTRO-INTESTINALE ET VASCULAIRE, DESTINE A RESTAURER LES FONCTIONS CORPORELLES JEUNES NORMALES**  
[72] LACY, FRANKLIN R., US  
[73] LACY, FRANKLIN R., US  
[85] 2014-02-07  
[86] 2012-08-02 (PCT/US2012/049349)  
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[25] EN  
[54] **STABLE POVIDONE-IODINE COMPOSITIONS**  
[54] **COMPOSITIONS STABLES DE POVIDONE-IODE**  
[72] CAPRIOTTI, JOSEPH, US  
[72] LIANG, BO, US  
[72] SAMSON, C. MICHAEL, US  
[72] STEIN, JASON, US  
[72] WEISER, MICHAEL, US  
[73] FORESIGHT BIOTHERAPEUTICS, INC., US  
[85] 2014-02-28  
[86] 2012-09-14 (PCT/US2012/055402)  
[87] (WO2013/040347)  
[30] US (61/535,667) 2011-09-16

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[13] C

[51] **Int.Cl. A62C 27/00 (2006.01) E06C 5/32 (2006.01) E06C 5/36 (2006.01)**  
[25] EN  
[54] **EDGE PROFILE FOR BORDERING A SUPERSTRUCTURE OF A RESCUE VEHICLE, IN PARTICULAR A FIRE FIGHTING VEHICLE**  
[54] **PROFIL DE BORDURE POUR BORDER UNE SUPERSTRUCTURE D'UN VEHICULE DE SECOURS, EN PARTICULIER UN VEHICULE DE LUTTE CONTRE L'INCENDIE**  
[72] MUHE-STURM, FRANK, DE  
[72] KRAEMER, JENS, DE  
[73] IVECO MAGIRUS AG, DE  
[86] (2847448)  
[87] (2847448)  
[22] 2014-03-21  
[30] EP (13161368.9) 2013-03-27

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[51] **Int.Cl. G02B 27/00 (2006.01) B42D 25/328 (2014.01) B29D 11/00 (2006.01) G02B 3/00 (2006.01)**  
[25] EN  
[54] **OPTIONALLY TRANSFERABLE OPTICAL SYSTEM WITH A REDUCED THICKNESS**  
[54] **SYSTEME OPTIQUE EVENTUELLEMENT TRANSFERABLE A EPAISSEUR REDUITE**  
[72] JORDAN, GREGORY R., US  
[72] CAPE, SAMUEL M., US  
[72] PALM, SCOTT K., US  
[72] GOSNELL, JONATHAN D., US  
[72] KENNEDY, CAROLINE B., US  
[73] VISUAL PHYSICS, LLC, US  
[85] 2014-02-14  
[86] 2012-08-17 (PCT/US2012/051394)  
[87] (WO2013/028534)  
[30] US (61/525,239) 2011-08-19

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[51] **Int.Cl. D06M 10/02 (2006.01) D06M 10/00 (2006.01)**  
[25] EN  
[54] **HIGH PERFORMANCE BALLISTIC COMPOSITES AND METHOD OF MAKING**  
[54] **COMPOSITES BALISTIQUES HAUTE PERFORMANCE ET LEUR PROCEDE DE FABRICATION**  
[72] TAM, THOMAS YIU-TAI, US  
[72] HURST, DAVID A., US  
[72] TALLENT, MARK, US  
[72] ARDIFF, HENRY GERARD, US  
[72] YOUNG, JOHN ARMSTRONG, US  
[72] KLEIN, RALF, US  
[72] GRUNDEN, BRADLEY, US  
[73] HONEYWELL INTERNATIONAL INC., US  
[85] 2014-02-28  
[86] 2012-09-05 (PCT/US2012/053796)  
[87] (WO2013/103400)  
[30] US (61/531,302) 2011-09-06  
[30] US (61/566,295) 2011-12-02  
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[51] **Int.Cl. G06F 30/13 (2020.01) G06Q 30/00 (2012.01)**  
[25] EN  
[54] **PATTERN-BASED DESIGN SYSTEM**  
[54] **SYSTEME DE CONCEPTION A BASE DE MODELE**  
[72] PRIEST, DAVID M., CA  
[73] PRIEST, DAVID M., CA  
[86] (2847652)  
[87] (2847652)  
[22] 2014-03-27  
[30] US (61/806,020) 2013-03-28  
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[30] US (14/059,011) 2013-10-21  
[30] US (14/132,127) 2013-12-18

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[51] **Int.Cl. B03B 9/02 (2006.01)**  
[25] EN  
[54] **IMPROVED METHOD FOR RECOVERING BITUMENT FROM TAR SANDS**  
[54] **PROCEDE AMELIORE POUR RECUPERER DU BITUME A PARTIR DE SABLES BITUMINEUX**  
[72] FAVERO, CEDRICK, FR  
[72] TIZZOTTI, MORGAN, FR  
[72] GAILLARD, NICOLAS, FR  
[73] S.P.C.M. SA, FR  
[86] (2847680)  
[87] (2847680)  
[22] 2014-03-28  
[30] FR (1353517) 2013-04-18

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[51] **Int.Cl. E05B 73/00 (2006.01) A47B 21/04 (2006.01) F16M 11/06 (2006.01)**  
[25] EN  
[54] **ELECTRONIC EQUIPMENT SECURITY DEVICE**  
[54] **DISPOSITIF DE SECURITE D'EQUIPEMENT ELECTRONIQUE**  
[72] GALANT, STEVE N., CA  
[73] COMPUCAGE INTERNATIONAL INC., CA  
[85] 2014-03-06  
[86] 2012-08-09 (PCT/CA2012/050541)  
[87] (WO2013/020234)  
[30] US (61/521,438) 2011-08-09  
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[25] EN  
[54] **HOISTING PLATFORM SYSTEM**  
[54] **SYSTEME DE PLATEFORME DE LEVAGE**  
[72] PRUSKAUER, MARK ALAN, US  
[73] PRUSKAUER, MARK ALAN, US  
[85] 2014-03-26  
[86] 2013-10-24 (PCT/US2013/066719)  
[87] (WO2014/066705)  
[30] US (61/718,505) 2012-10-25  
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[13] C

[51] **Int.Cl. C10G 1/04 (2006.01)**  
[25] EN  
[54] **RECOVERY OF SOLVENT FROM DILUTED TAILINGS BY FEEDING A DESEGREGATED FLOW TO NOZZLES**  
[54] **RECUPERATION DE SOLVANT DE RESIDUS DILUES PAR ALIMENTATION D'UN FLUX DESAGREGE VERS DES BUSES**  
[72] VAN DER MERWE, SHAWN, CA  
[72] HANN, THOMAS CHARLES, CA  
[73] FORT HILLS ENERGY L.P., CA  
[86] (2848254)  
[87] (2848254)  
[22] 2011-04-28  
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[13] C

[51] **Int.Cl. A01G 23/14 (2006.01)**  
[25] EN  
[54] **SAP COLLECTING ARRANGEMENT**  
[54] **DISPOSITIF DE COLLECTE DE SEVE**  
[72] VACHON, LEANDRE, CA  
[73] LE GROUPE DSD INC., CA  
[86] (2848568)  
[87] (2848568)  
[22] 2014-04-10

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[11] **2,848,636**  
[13] C

[51] **Int.Cl. A61M 1/16 (2006.01) B82Y 30/00 (2011.01) B82Y 40/00 (2011.01) B01D 53/22 (2006.01) B01D 69/02 (2006.01) B01D 69/08 (2006.01)**  
[25] EN  
[54] **GAS EXCHANGER COMPRISING NANOTUBES AND ARTIFICIAL LUNG**  
[54] **ECHANGEUR DE GAZ COMPRENANT DES NANOTUBES ET POU MON ARTIFICIEL**  
[72] PALTÍ, YORAM, IL  
[73] PALTÍ, YORAM, IL  
[85] 2014-03-13  
[86] 2012-09-21 (PCT/IB2012/001856)  
[87] (WO2013/041950)  
[30] US (61/538,417) 2011-09-23

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[25] EN  
[54] **PORPHYRIN MICROBUBBLES**  
[54] **MICROBULES DE PORPHYRINE**  
[72] ZHENG, GANG, CA  
[72] LOVELL, JONATHAN, CA  
[72] HUYNH, ELIZABETH, CA  
[73] UNIVERSITY HEALTH NETWORK, CA  
[85] 2014-03-21  
[86] 2012-10-11 (PCT/CA2012/000937)  
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[30] US (61/546,663) 2011-10-13

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[13] C

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[25] EN  
[54] **COVALENTLY FUNCTIONALIZED NANODIAMOND-BASED MALDI MATRICES AND METHODS OF USE THEREOF**  
[54] **MATRICES MALDI BASEES SUR DES NANO-DIAMANTS A FONCTIONNALISATION COVALENTE ET PROCEDES D'UTILISATION DE CELLES-CI**  
[72] EL-ANEED, ANAS, CA  
[72] CHITANDA, JACKSON, CA  
[73] UNIVERSITY OF SASKATCHEWAN, CA  
[86] (2849588)  
[87] (2849588)  
[22] 2014-04-22  
[30] CA (2,821,348) 2013-07-17  
[30] US (61/847,256) 2013-07-17  
[30] US (61/813,913) 2013-04-19

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[13] C

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[25] EN  
[54] **MEASUREMENT PROCESS OF MORPHO - GEOMETERICAL PARAMETERS OF A PERSON WEARING EYEGLASSES**  
[54] **PROCEDE DE MESURE DE PARAMETRES MORPHO-GEOMETRIQUES D'UNE PERSONNE PORTANT DES LUNETTES**  
[72] DIVO, FABIEN, FR  
[72] PINAULT, PHILIPPE, FR  
[73] ESSILOR INTERNATIONAL, FR  
[85] 2014-03-26  
[86] 2012-07-31 (PCT/EP2012/064915)  
[87] (WO2013/045133)  
[30] FR (1158665) 2011-09-28

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[13] C

[51] **Int.Cl. C01B 15/023 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PRODUCING HYDROGEN PEROXIDE**  
[54] **PROCEDE POUR LA PRODUCTION DE PEROXYDE D'HYDROGENE**  
[72] VANDENBUSSCHE, ALAIN, BE  
[72] DHAESE, PATRICK MARKUS, BR  
[72] BLOOMFIELD, STEPHEN, BE  
[72] JANSSENS, FRANCINE, BE  
[73] SOLVAY SA, BE  
[85] 2014-03-26  
[86] 2012-10-02 (PCT/EP2012/069414)  
[87] (WO2013/053617)  
[30] EP (11184576.4) 2011-10-11

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[51] **Int.Cl. A61F 13/505 (2006.01) A61F 13/02 (2006.01) A61F 13/84 (2006.01) A61K 9/70 (2006.01)**  
[25] EN  
[54] **REMOVABLE COVERING AND INTERACTIVE PACKAGING**  
[54] **REVETEMENT AMOVIBLE ET EMBALLAGE INTERACTIF**  
[72] EAVES, FELMONT FARRELL, III, US  
[73] EMRGE, LLC, US  
[85] 2014-03-28  
[86] 2012-10-19 (PCT/US2012/061033)  
[87] (WO2013/059600)  
[30] US (61/549,317) 2011-10-20  
[30] US (61/561,522) 2011-11-18  
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[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 27/16 (2006.01) C12N 9/64 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR NEUROPROTECTION**  
[54] **PROCEDES ET COMPOSITIONS POUR LA NEUROPROTECTION**  
[72] FEINSTEIN, ELENA, IL  
[73] QUARK PHARMACEUTICALS, INC., US  
[85] 2014-04-04  
[86] 2012-11-01 (PCT/US2012/062894)  
[87] (WO2013/067076)  
[30] US (61/554,982) 2011-11-03  
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[13] C

[51] **Int.Cl. A61L 24/04 (2006.01) A61L 24/00 (2006.01) A61L 26/00 (2006.01)**  
[25] EN  
[54] **HEMOSTATIC COMPOSITIONS**  
[54] **COMPOSITION HEMOSTATIQUE**  
[72] HEDRICH, HANS CHRISTIAN, AT  
[72] HOEFINGHOFF, JORIS, AT  
[73] BAXTER INTERNATIONAL INC., US  
[73] BAXTER HEALTHCARE SA, CH  
[85] 2014-04-07  
[86] 2012-10-10 (PCT/EP2012/070054)  
[87] (WO2013/053753)  
[30] US (61/545,939) 2011-10-11

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[13] C

[51] **Int.Cl. A41D 20/00 (2006.01) A42C 5/00 (2006.01)**  
[25] EN  
[54] **SWEAT DIVERTER**  
[54] **DISPOSITIF DE DEVIATION DE SUEUR**  
[72] SHAPIRO, JAMES, US  
[73] SHAPIRO, JAMES, US  
[85] 2014-04-09  
[86] 2012-10-10 (PCT/US2012/059549)  
[87] (WO2013/055787)  
[30] US (61/546,420) 2011-10-12  
[30] US (61/592,457) 2012-01-30

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[11] **2,852,043**  
[13] C

[51] **Int.Cl. G01N 15/10 (2006.01) C12M 1/34 (2006.01) H01J 49/04 (2006.01)**  
[25] EN  
[54] **SAMPLE TRANSFERRING APPARATUS FOR MASS CYTOMETRY**  
[54] **APPAREIL DE TRANSFERT D'ECHANTILLON POUR CYTOMETRIE DE MASSE**  
[72] JONG, RAYMOND, CA  
[73] FLUIDIGM CANADA INC., CA  
[85] 2014-04-10  
[86] 2012-10-26 (PCT/IB2012/002568)  
[87] (WO2013/061155)  
[30] US (61/551,470) 2011-10-26

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[13] C

[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR IMPROVING FIXATION OF A MEDICAL DEVICE**  
[54] **DISPOSITIF ET PROCEDE POUR AMELIORER LA FIXATION D'UN DISPOSITIF MEDICAL**  
[72] KERANEN, OLLI, SE  
[72] ZERKOWSKI, HANS-REINHARD, CH  
[73] MEDTENTIA INTERNATIONAL LTD OY, FI  
[85] 2014-04-14  
[86] 2012-11-09 (PCT/EP2012/072285)  
[87] (WO2013/068542)  
[30] EP (11188915.0) 2011-11-12  
[30] US (61/559,689) 2011-11-14

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[13] C

[51] **Int.Cl. A61K 31/444 (2006.01) C12Q 1/6827 (2018.01) C12Q 1/6876 (2018.01) A61P 25/18 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **BIOMARKERS PREDICTIVE OF RESPONSIVENESS TO ALPHA 7 NICOTINIC ACETYLCHOLINE RECEPTOR ACTIVATOR TREATMENT**

[54] **BIOMARQUEURS PREDICTIFS DE LA SENSIBILITE AU TRAITEMENT PAR L'ACTIVATEUR DU RECEPTEUR DE L'ACETYLCHOLINE NICOTINIQUE ALPHA 7**

[72] FEUERBACH, DOMINIK, CH

[72] GOMEZ-MANCILLA, BALTAZAR, CH

[72] HE, YUNSHENG, US

[72] JOHNS, DONALD, US

[72] LOPEZ-LOPEZ, CRISTINA, CH

[72] MCALLISTER, KEVIN HALL, CH

[72] PEZOUS, NICOLE, CH

[72] SANDFORD, LISA, CH

[72] WEISS, MARKUS, CH

[73] NOVARTIS AG, CH

[85] 2014-04-14

[86] 2012-10-18 (PCT/IB2012/055692)

[87] (WO2013/057687)

[30] US (61/549,319) 2011-10-20

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[13] C

[51] **Int.Cl. A61M 16/06 (2006.01) A61F 5/56 (2006.01) A61M 16/00 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01)**

[25] EN

[54] **INTERFACE COMPRISING A NASAL SEALING PORTION**

[54] **INTERFACE COMPRENANT UNE PARTIE DE SCELLEMENT ETANCHE NASAL**

[72] BEARNE, PETER DAVID ALEXANDER, NZ

[72] PATEL, ROHEET, NZ

[72] MIDDELKOOP, KRISTIN ELIZABETH, NZ

[72] COX, MICHAEL JOHN HENRI, NZ

[72] MASHAL, FADI, NZ

[72] OLSEN, GREGORY JAMES, NZ

[72] MASON, ISAAC TRISTRAM TANE, GB

[72] STEPHENSON, MATTHEW ROGER, NZ

[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ

[85] 2014-04-16

[86] 2012-10-31 (PCT/NZ2012/000199)

[87] (WO2013/066195)

[30] US (61/553,872) 2011-10-31

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[13] C

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[25] EN

[54] **FORMULATIONS FOR THE TREATMENT OF DIABETES**

[54] **PREPARATIONS POUR LE TRAITEMENT DU DIABETE**

[72] PRESTRELSKI, STEVEN, US

[72] SCOTT, NANCY, US

[73] XERIS PHARMACEUTICALS, INC., US

[85] 2014-04-29

[86] 2012-10-31 (PCT/US2012/062816)

[87] (WO2013/067022)

[30] US (61/553,388) 2011-10-31

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[13] C

[51] **Int.Cl. C09K 21/14 (2006.01) C07F 9/09 (2006.01) C07F 9/38 (2006.01) C08F 230/02 (2006.01)**

[25] EN

[54] **NON-HALOGEN FLAME RETARDANT POLYMERS**

[54] **POLYMERES RETARDATEURS DE FLAMME NON HALOGENES**

[72] LAI, JOHN TA-YUAN, US

[72] CHOU, TI, US

[73] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2014-04-29

[86] 2012-10-31 (PCT/US2012/062639)

[87] (WO2013/066906)

[30] US (61/553,460) 2011-10-31

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[13] C

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[54] **APPARATUS FOR THE TREATMENT OF AIR**

[54] **APPAREIL POUR LE TRAITEMENT DE L'AIR.**

[72] POULSTON, STEPHEN, GB

[72] SMITH, ANDREW WILLIAM JOHN, GB

[72] BENNETT, STEPHEN CHARLES, GB

[72] ROWSELL, ELIZABETH, GB

[73] ANGLO PLATINUM MARKETING LIMITED, GB

[85] 2014-05-06

[86] 2012-11-06 (PCT/GB2012/052764)

[87] (WO2013/068737)

[30] GB (1119171.5) 2011-11-07

[30] US (61/556,329) 2011-11-07

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[25] EN

[54] **METHOD OF USING A STERILIZATION WRAP SYSTEM**

[54] **PROCEDE D'UTILISATION D'UN SYSTEME D'EMBALLAGE DE STERILISATION**

[72] FARMER, JEFFREY JAMES, US  
[72] HOLT, KELLY L., US  
[72] ANDERSON, RONALD K., US  
[72] GAYNOR, MELISSA R., US  
[72] SCHWARZ, CORINNA, US  
[73] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY, IE

[85] 2014-05-07  
[86] 2012-11-05 (PCT/IB2012/056163)  
[87] (WO2013/068907)  
[30] US (61/557,215) 2011-11-08  
[30] US (61/592,233) 2012-01-30  
[30] US (13/667,526) 2012-11-02

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[13] C

[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01)**

[25] EN

[54] **DEVICE FOR TENDON AND LIGAMENT TREATMENT**

[54] **DISPOSITIF POUR LE TRAITEMENT D'UN TENDON ET D'UN LIGAMENT**

[72] SUN, WENQUAN, US  
[72] MONTEIRO, GARY, US  
[73] LIFECCELL CORPORATION, US

[85] 2014-05-07  
[86] 2012-11-07 (PCT/US2012/063816)  
[87] (WO2013/070670)  
[30] US (61/558,328) 2011-11-10

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[11] **2,855,010**  
[13] C

[51] **Int.Cl. E21B 4/02 (2006.01) E21B 17/01 (2006.01)**

[25] EN

[54] **REINFORCED DIRECTIONAL DRILLING ASSEMBLIES AND METHODS OF FORMING SAME**

[54] **ENSEMBLES RENFORCES DE FORAGE DIRECTIONNEL ET LEURS PROCEDES DE FABRICATION**

[72] AKBARI, HOSSEIN, GB  
[72] JONES, GERAINT, GB  
[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2014-05-08  
[86] 2012-11-09 (PCT/US2012/064285)  
[87] (WO2013/071005)  
[30] US (13/293,135) 2011-11-10

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[11] **2,855,390**  
[13] C

[51] **Int.Cl. C07D 233/80 (2006.01) A61K 31/4166 (2006.01) A61K 31/4178 (2006.01) A61K 31/4184 (2006.01) A61P 27/02 (2006.01) A61P 29/00 (2006.01) C07D 235/02 (2006.01) C07D 401/06 (2006.01) C07D 403/04 (2006.01) C07D 403/06 (2006.01) C07D 405/06 (2006.01) C07D 409/06 (2006.01)**

[25] EN

[54] **2,5-DIOXOIMIDAZOLIDIN-1-YL-3-PHENYLUREA DERIVATIVES AS FORMYL PEPTIDE RECEPTOR LIKE-1 (FPRL-1) RECEPTOR MODULATORS**

[54] **DERIVES DE 2,5-DIOXOIMIDAZOLIDIN-1-YL-3-PHENYLUREE A TITRE DE MODULATEURS DU RECEPTEUR DE TYPE 1 DU PEPTIDE N-FORMYLE (FPRL-1)**

[72] BEARD, RICHARD L., US  
[72] VULIGONDA, VIDYASAGAR, US  
[72] VU, THONG, US  
[72] DONELLO, JOHN E., US  
[72] VISWANATH, VEENA, US  
[72] GARST, MICHAEL E., US  
[73] ALLERGAN, INC., US

[85] 2014-05-09  
[86] 2012-11-10 (PCT/US2012/064571)  
[87] (WO2013/071203)  
[30] US (61/558,080) 2011-11-10

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[11] **2,856,103**  
[13] C

[51] **Int.Cl. C07D 253/08 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 409/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07F 7/18 (2006.01)**

[25] EN

[54] **MORPHOLINYLBENZOTRIAZINE S FOR USE IN CANCER THERAPY**

[54] **MORPHOLINYLBENZOTRIAZINE S DESTINEES A ETRE UTILISEES EN ONCOTHERAPIE**

[72] MEDERSKI, WERNER, DE  
[72] FUCHSS, THOMAS, DE  
[72] EMDE, ULRICH, DE  
[72] BUCHSTALLER, HANS-PETER, DE  
[73] MERCK PATENT GMBH, DE

[85] 2014-05-16  
[86] 2012-10-30 (PCT/EP2012/004542)  
[87] (WO2013/072015)  
[30] DE (10 2011 118 830.8) 2011-11-18



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[13] C

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 33/00 (2006.01)**  
[25] EN  
[54] **USE OF INHIBITORS OF THE ACTIVITY OR FUNCTION OF PI3K**  
[54] **UTILISATION D'INHIBITEURS DE L'ACTIVITE OU DE LA FONCTION DE PI3K**  
[72] COOKE, NIGEL GRAHAM, CH  
[72] FERNANDES GOMES DOS SANTOS, PAULO ANTONIO, CH  
[72] FURET, PASCAL, CH  
[72] HEBACH, CHRISTINA, CH  
[72] HOGENAUER, KLEMENS, CH  
[72] HOLLINGWORTH, GREGORY, GB  
[72] KALIS, CHRISTOPH, CH  
[72] LEWIS, IAN, CH  
[72] SMITH, ALEXANDER BAXTER, CH  
[72] SOLDERMANN, NICOLAS, CH  
[72] STAUFFER, FREDERIC, CH  
[72] STRANG, ROSS, CH  
[72] STOWASSER, FRANK, CH  
[72] TUFILLI, NICOLA, CH  
[72] VON MATT, ANETTE, CH  
[72] WOLF, ROMAIN, CH  
[72] ZECRI, FREDERIC, US  
[73] NOVARTIS AG, CH  
[85] 2014-05-28  
[86] 2012-12-14 (PCT/IB2012/057332)  
[87] (WO2013/088404)  
[30] US (61/576,194) 2011-12-15

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[11] **2,857,424**  
[13] C

[51] **Int.Cl. G01N 21/84 (2006.01)**  
[25] EN  
[54] **TESTING APPARATUS**  
[54] **APPAREIL DE TEST**  
[72] POLWART, NEIL, GB  
[72] ASHBROOK, ANTHONY PETER, GB  
[72] TYRIE, GRAHAM, GB  
[73] NOVARUM DX LIMITED, GB  
[85] 2014-05-29  
[86] 2012-03-30 (PCT/GB2012/050717)  
[87] (WO2012/131386)  
[30] GB (1105474.9) 2011-03-31

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[11] **2,857,467**  
[13] C

[51] **Int.Cl. D02G 3/02 (2006.01) D01F 6/04 (2006.01)**  
[25] EN  
[54] **ULTRA -HIGH MOLECULAR WEIGHT POLYETHYLENE MULTIFILAMENT YARN**  
[54] **FIL DE POLYETHYLENE MULTIFILAMENTS DE POIDS MOLECULAIRE ULTRA-ELEVE**  
[72] MENCKE, JACOBUS JOHANNES, NL  
[72] HEIJNEN, JOHANNES HENDRIKUS MARIE, NL  
[72] VAN DER WERFF, HARM, NL  
[73] DSM IP ASSETS B.V., NL  
[85] 2014-05-29  
[86] 2012-12-14 (PCT/EP2012/075514)  
[87] (WO2013/087827)  
[30] EP (11193491.5) 2011-12-14

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[11] **2,857,602**  
[13] C

[51] **Int.Cl. B08B 15/02 (2006.01) A61J 3/00 (2006.01) B01F 15/00 (2006.01) B01L 1/00 (2006.01)**  
[25] EN  
[54] **MACHINE FOR THE PREPARATION OF PHARMACEUTICAL PRODUCTS**  
[54] **MACHINE SERVANT A LA PREPARATION DE PRODUITS PHARMACEUTIQUES**  
[72] FIORAVANTI, FABIO, IT  
[72] BIANCO, WALTER, IT  
[73] OMNICELL, INC., US  
[85] 2014-05-30  
[86] 2012-12-05 (PCT/IB2012/056998)  
[87] (WO2013/084167)  
[30] EP (11192020.3) 2011-12-05

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[11] **2,857,851**  
[13] C

[51] **Int.Cl. B65D 1/40 (2006.01)**  
[25] EN  
[54] **PERFORATED TOP CURL FOR PLASTIC CONTAINER**  
[54] **BORD ROULE SUPERIEUR PERFORE POUR CONTENANT DE PLASTIQUE**  
[72] PANTELLERIA, JOSEPH A., US  
[73] HUHTAMAKI, INC., US  
[86] (2857851)  
[87] (2857851)  
[22] 2014-07-28  
[30] US (61/859,449) 2013-07-29

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[11] **2,857,958**  
[13] C

[51] **Int.Cl. A61K 47/34 (2017.01) A61K 9/00 (2006.01) A61K 31/365 (2006.01) A61P 33/00 (2006.01)**  
[25] EN  
[54] **LONG-ACTING INJECTABLE MOXIDECTIN FORMULATIONS AND MOXIDECTIN CRYSTAL FORMS**  
[54] **FORMULATIONS DE MOXIDECTINE INJECTABLE A ACTION PROLONGEE ET CRISTAL DE MOXIDECTINE**  
[72] CADY, SUSAN MANCINI, US  
[72] MA, BAOQING, US  
[72] CHAPMAN, ROBERT CLARK, US  
[72] YANG, CHUNHUA, US  
[72] JAIN, UDAY, US  
[73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US  
[85] 2014-06-02  
[86] 2012-11-30 (PCT/US2012/067215)  
[87] (WO2013/082373)  
[30] US (61/566,336) 2011-12-02

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[11] **2,858,074**  
[13] C

[51] **Int.Cl. A61F 13/02 (2006.01)**  
[25] EN  
[54] **RELEASABLE MEDICAL DRAPES**  
[54] **CHAMPS OPERATOIRES MEDICAUX LIBERABLES**  
[72] LOCKE, CHRISTOPHER BRIAN, GB  
[72] ROBINSON, TIMOTHY MARK, GB  
[72] YAO, LI, US  
[73] KCI LICENSING, INC., US  
[85] 2014-06-02  
[86] 2012-12-14 (PCT/US2012/069893)  
[87] (WO2013/090810)  
[30] US (61/576,774) 2011-12-16

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[11] **2,858,201**  
[13] C

[51] **Int.Cl. B08B 3/08 (2006.01) A47L 15/00 (2006.01) C11D 1/06 (2006.01) C11D 3/16 (2006.01)**

[25] EN

[54] **LOW FOAMING SOLID SINK DETERGENT**

[54] **DETERGENT SOLIDE A FAIBLE MOUSSAGE POUR EVIER**

[72] VINSON, THOMAS JOHN, US

[72] MOLINARO, KATHERINE, US

[72] FINISON, JEREMY, US

[73] ECOLAB USA INC., US

[85] 2014-06-04

[86] 2012-12-04 (PCT/US2012/067784)

[87] (WO2013/085914)

[30] US (61/566,804) 2011-12-05

[30] US (61/708,929) 2012-10-02

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[11] **2,859,172**  
[13] C

[51] **Int.Cl. B01J 49/09 (2017.01) B01J 19/24 (2006.01) B01J 47/04 (2006.01) B01J 47/14 (2017.01)**

[25] EN

[54] **ACID REGENERATION OF ION EXCHANGE RESINS FOR INDUSTRIAL APPLICATIONS**

[54] **REGENERATION ACIDE DE RESINES ECHANGEUSES D'IONS POUR DES APPLICATIONS INDUSTRIELLES**

[72] EVERSON, TERRENCE P., US

[72] WEN, LI, US

[72] TAN, LYLIEN, US

[72] VOSS, PETER, US

[72] TOETSCHINGER, MARK, US

[73] ECOLAB USA INC., US

[85] 2014-06-12

[86] 2012-12-12 (PCT/US2012/069280)

[87] (WO2013/090446)

[30] US (61/569,829) 2011-12-13

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[11] **2,859,203**  
[13] C

[51] **Int.Cl. A61K 31/485 (2006.01) A61P 1/10 (2006.01)**

[25] EN

[54] **METHODS FOR TREATMENT AND PREVENTION OF OPIOID INDUCED CONSTIPATION USING ORAL COMPOSITIONS OF METHYLNALTREXONE**

[54] **METHODES DE TRAITEMENT ET DE PREVENTION DE LA CONSTIPATION INDUITE PAR UN OPIOIDE AU MOYEN DE COMPOSITIONS ORALES DE METHYLNALTREXONE**

[72] BORTEY, ENOCH, US

[73] SALIX PHARMACEUTICALS, INC., US

[85] 2014-06-12

[86] 2012-12-19 (PCT/US2012/070612)

[87] (WO2013/096444)

[30] US (61/577,654) 2011-12-19

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[11] **2,859,390**  
[13] C

[51] **Int.Cl. B01J 31/10 (2006.01)**

[25] EN

[54] **PROCESS OF PRODUCING AND USE OF A TREATED, PROMOTED ION EXCHANGE RESIN CATALYST**

[54] **PROCEDE DE FABRICATION ET D'UTILISATION D'UN CATALYSEUR A BASE D'UNE RESINE ECHANGEUSE D'IONS ACTIVEE, TRAITEE**

[72] OLSEN, ROBERT J., US

[72] SCHULTZ, ALFRED K., US

[72] PIERCE, GREGORY C., US

[72] TOPP, KLAUS-DIETER, DE

[73] ROHM AND HAAS COMPANY, US

[85] 2014-06-13

[86] 2012-12-14 (PCT/US2012/069630)

[87] (WO2013/101493)

[30] US (61/581,064) 2011-12-28

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[11] **2,859,406**  
[13] C

[51] **Int.Cl. A61K 31/426 (2006.01) A61K 31/195 (2006.01) A61K 31/427 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **USES OF 4'-DEFERRITHIOCIN ANALOGS**

[54] **UTILISATION D'ANALOGUES DE 4'-DEFERRITHIOCINE**

[72] BERGERON, RAYMOND J., JR., US

[73] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC., US

[85] 2014-06-13

[86] 2012-12-14 (PCT/US2012/069795)

[87] (WO2013/090750)

[30] US (61/576,920) 2011-12-16

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[11] **2,859,614**  
[13] C

[51] **Int.Cl. C12Q 1/02 (2006.01) C12N 5/07 (2010.01) C40B 30/06 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **A RAPID QUANTITATIVE ASSAY TO MEASURE CFTR FUNCTION IN A PRIMARY INTESTINAL CULTURE MODEL**

[54] **DOSAGE QUANTITATIF RAPIDE POUR LA MESURE DE LA FONCTION CFTR DANS UN MODELE DE CULTURE INTESTINALE PRIMAIRE**

[72] BEEKMAN, JEFFREY MATTHIJN, NL

[72] DEKKERS, JOHANNA FLORENTIA, NL

[72] VAN DER ENT, CORNELIS KORSTIAAN, NL

[72] CLEVERS, JOHANNES CAROLUS, NL

[73] KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN, NL

[73] UMC UTRECHT HOLDING B.V., NL

[85] 2014-06-17

[86] 2012-12-19 (PCT/IB2012/057497)

[87] (WO2013/093812)

[30] US (61/577,110) 2011-12-19

[30] US (61/579,661) 2011-12-23

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[11] **2,859,625**

[13] C

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[25] EN  
[54] **DE-ICING OF A WIND TURBINE  
BLADE**  
[54] **DEGIVRAGE D'UNE PALE DE  
TURBINE EOLIENNE**  
[72] BAHUGUNI, ANAND, SG  
[72] KANDASAMY, RAVI, SG  
[72] WONG, VOON HON, SG  
[73] VESTAS WIND SYSTEMS A/S, DK  
[85] 2014-06-17  
[86] 2012-12-14 (PCT/DK2012/050471)  
[87] (WO2013/091642)  
[30] DK (PA 2011 70739) 2011-12-21  
[30] US (61/578,239) 2011-12-21

[11] **2,859,709**

[13] C

- [51] **Int.Cl. C08L 79/02 (2006.01) C08L  
101/06 (2006.01) D21H 17/54  
(2006.01) D21H 17/56 (2006.01) D21H  
21/18 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS  
OF MAKING PAPER PRODUCTS**  
[54] **COMPOSITIONS ET PROCEDES  
DE FABRICATION DE PRODUITS  
PAPETIERS**  
[72] ROSENCRANCE, SCOTT, US  
[72] GRIGORIEV, VLADIMIR, US  
[72] LU, CHEN, US  
[73] KEMIRA OYJ, FI  
[85] 2014-06-17  
[86] 2012-12-07 (PCT/US2012/068414)  
[87] (WO2013/095952)  
[30] US (13/334,866) 2011-12-22

[11] **2,860,422**

[13] C

- [51] **Int.Cl. A61B 5/0488 (2006.01) A61M  
16/04 (2006.01) A61B 1/267 (2006.01)  
A61N 1/05 (2006.01)**  
[25] EN  
[54] **CLAMP FOR SECURING A  
TERMINAL END OF A WIRE TO A  
SURFACE ELECTRODE**  
[54] **BRIDE DE SERRAGE POUR FIXER  
UNE EXTREMITE TERMINALE  
D'UN FIL METALLIQUE A UNE  
ELECTRODE DE SURFACE**  
[72] LI, WENJENG, US  
[72] BENNETT, STEVEN W., US  
[72] LITTLE, DAVID JOHN, II, US  
[72] STANISLAUS, MARIA CHARLES  
VIJAY, US  
[72] HACKER, DAVID C., US  
[73] MEDTRONIC XOMED, INC., US  
[85] 2014-07-03  
[86] 2012-12-12 (PCT/US2012/069253)  
[87] (WO2013/103487)  
[30] US (13/343,283) 2012-01-04

[11] **2,861,027**

[13] C

- [51] **Int.Cl. A61L 27/00 (2006.01) A61K  
8/64 (2006.01) A61K 38/17 (2006.01)  
A61P 7/04 (2006.01) A61P 17/02  
(2006.01) A61P 19/02 (2006.01) A61P  
35/00 (2006.01) A61P 37/02 (2006.01)  
A61P 43/00 (2006.01)**  
[25] EN  
[54] **COLLAGEN STRUCTURE, AND  
METHOD FOR PRODUCING  
COLLAGEN STRUCTURE**  
[54] **STRUCTURE EN COLLAGENE, ET  
SON PROCEDE DE PRODUCTION**  
[72] OGURA, TAKAYUKI, JP  
[72] TANAKA, KEISUKE, JP  
[72] OHBA, YASUHIRO, JP  
[72] HATTORI, SHUNJI, JP  
[73] NIPPI, INCORPORATED, JP  
[85] 2014-07-11  
[86] 2013-01-11 (PCT/JP2013/050484)  
[87] (WO2013/105665)  
[30] JP (2012-003883) 2012-01-12

[11] **2,861,339**

[13] C

- [51] **Int.Cl. C07D 401/06 (2006.01) A61K  
31/454 (2006.01) A61P 9/00 (2006.01)  
A61P 35/00 (2006.01)**  
[25] EN  
[54] **METALLOENZYME INHIBITOR  
COMPOUNDS**  
[54] **COMPOSES INHIBITEURS DE  
METALLOENZYMES**  
[72] HOEKSTRA, WILLIAM J., US  
[72] SCHOTZINGER, ROBERT J., US  
[72] RAFFERTY, STEPHEN W., US  
[73] MYCOVIA PHARMACEUTICALS,  
INC., US  
[85] 2014-07-15  
[86] 2013-01-18 (PCT/US2013/022313)  
[87] (WO2013/109998)  
[30] US (61/589,076) 2012-01-20

[11] **2,861,459**

[13] C

- [51] **Int.Cl. A61K 31/25 (2006.01) A61K  
31/14 (2006.01) A61K 31/573  
(2006.01) A61K 31/60 (2006.01) A61P  
35/00 (2006.01) A61P 35/02 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS  
OF USE OF PHORBOL ESTERS**  
[54] **COMPOSITIONS CONTENANT  
DES ESTERS DE PHORBOL ET  
METHODES D'UTILISATION DE  
CES DERNIERS**  
[72] HAN, ZHENG TAO, US  
[72] CHEN, HUNG-FONG, CN  
[73] BIOSUCCESS BIOTECH CO. LTD.,  
US  
[85] 2014-07-16  
[86] 2013-01-18 (PCT/US2013/022324)  
[87] (WO2013/110006)  
[30] US (61/588,165) 2012-01-18  
[30] US (61/588,167) 2012-01-18  
[30] US (61/588,162) 2012-01-18

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[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/395 (2006.01) C07K 14/705 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **BISPECIFIC CHIMERIC ANTIGEN RECEPTORS AND THERAPEUTIC USES THEREOF**

[54] **RECEPTEURS D'ANTIGENE CHIMERES BISPECIFIQUES ET UTILISATIONS THERAPEUTIQUES DE CEUX-CI**

[72] JENSEN, MICHAEL, US

[73] SEATTLE CHILDREN'S HOSPITAL D/B/A SEATTLE CHILDREN'S RESEARCH INSTITUTE, US

[85] 2014-07-16

[86] 2013-02-13 (PCT/US2013/025953)

[87] (WO2013/123061)

[30] US (61/598,216) 2012-02-13

[11] **2,861,638**  
[13] C

[51] **Int.Cl. C07D 239/34 (2006.01) A01N 43/50 (2006.01) C07D 405/04 (2006.01)**

[25] EN

[54] **2,6-DIHALO-5-ALKOXY-4-SUBSTITUTED-PYRIMIDINES, PYRIMIDINE-CARBALDEHYDES, AND METHODS OF FORMATION AND USE**

[54] **PYRIMIDINES 2,6-DIHALO-5-ALCOXY-4-SUBSTITUEES, PYRIMIDINE-CARBALDEHYDES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] SIDDALL, THOMAS LYMAN, US

[72] ROTH, JOSHUA JOHN, US

[73] DOW AGROSCIENCES LLC, US

[85] 2014-06-25

[86] 2012-12-28 (PCT/US2012/072121)

[87] (WO2013/102111)

[30] US (61/582,156) 2011-12-30

[11] **2,861,786**  
[13] C

[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/50 (2020.01) A24F 40/90 (2020.01)**

[25] EN

[54] **AEROSOL-GENERATING DEVICE AND SYSTEM**

[54] **DISPOSITIF ET SYSTEME DE PRODUCTION D'AEROSOL**

[72] GREIM, OLIVIER, CH

[72] PLOJOUX, JULIEN, CH

[72] RUSCIO, DANI, CH

[72] MANCA, LAURENT, CH

[73] PHILIP MORRIS PRODUCTS S.A., CH

[85] 2014-06-26

[86] 2012-12-28 (PCT/EP2012/077084)

[87] (WO2013/102611)

[30] EP (12150114.2) 2012-01-03

[30] EP (12155245.9) 2012-02-13

[30] EP (12155254.1) 2012-02-13

[30] EP (12155252.5) 2012-02-13

[30] EP (12155258.2) 2012-02-13

[30] EP (12155241.8) 2012-02-13

[11] **2,862,214**  
[13] C

[51] **Int.Cl. A63B 71/06 (2006.01) G16H 20/30 (2018.01) G01P 15/18 (2013.01)**

[25] EN

[54] **A DEVICE AND METHOD FOR TRACKING THE ACTIVITY OF A SUBJECT**

[54] **UN DISPOSITIF ET UNE METHODE DE SUIVI DE L'ACTIVITE D'UN SUJET**

[72] HOMSI, KRISTOPHER L., US

[72] SCHMITT, MICHAEL, US

[72] WEAST, AARON B., US

[73] NIKE INNOVATE C.V., US

[85] 2014-07-17

[86] 2013-01-17 (PCT/US2013/021971)

[87] (WO2013/109776)

[30] US (61/587,996) 2012-01-18

[30] US (61/587,998) 2012-01-18

[30] US (61/588,001) 2012-01-18

[30] US (61/588,008) 2012-01-18

[11] **2,862,583**  
[13] C

[51] **Int.Cl. G07F 7/08 (2006.01) A47F 10/04 (2006.01) B62B 3/14 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PREVENTING SHOPPING CART THEFT**

[54] **PROCEDE ET SYSTEME POUR EMPECHER LE VOL DE CHARIOTS DE SUPERMARCHE**

[72] MARGALIT, YEHUDA, IL

[72] MARGALIT, RUTH, IL

[73] NOMIL LTD., IL

[85] 2014-07-24

[86] 2013-01-23 (PCT/IL2013/050062)

[87] (WO2013/111131)

[30] US (61/589,542) 2012-01-23

[11] **2,862,606**  
[13] C

[51] **Int.Cl. C07H 15/04 (2006.01) C07H 1/00 (2006.01) C07H 15/203 (2006.01)**

[25] EN

[54] **AN EFFICIENT AND SCALABLE PROCESS FOR THE MANUFACTURE OF FONDAPARINUX SODIUM**

[54] **PROCEDE EFFICACE ET EXTENSIBLE DE FABRICATION DE FONDAPARINUX SODIQUE**

[72] PATEL, PAYAL PARTH, US

[72] MA, CHUN, US

[72] OHRR, KEVIN K., US

[72] NADJI, SOURENA, US

[73] RELIABLE BIOPHARMACEUTICAL CORPORATION, US

[85] 2014-07-24

[86] 2012-02-02 (PCT/US2012/023610)

[87] (WO2013/115817)

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[11] **2,862,907**  
[13] C

[51] **Int.Cl. C12N 15/54 (2006.01) C12N 9/10 (2006.01) C12N 15/63 (2006.01) C12P 7/64 (2006.01)**

[25] EN

[54] **GENES ENCODING A NOVEL TYPE OF LYSOPHOPHATIDYLCHOLINE ACYLTRANSFERASES AND THEIR USE TO INCREASE TRIACYLGLYCEROL PRODUCTION AND/OR MODIFY FATTY ACID COMPOSITION**

[54] **GENES CODANT UN NOUVEAU TYPE DE LYSOPHOPHATIDYLCHOLINE ACYLTRANSFERASES ET LEUR UTILISATION POUR AUGMENTER LA PRODUCTION DE TRIACYLGLYCEROL ET/OU MODIFIER LA COMPOSITION D'ACIDESGRAS**

[72] CHEN, QILLIN, CA  
[72] ZOU, JITAO, CA  
[72] ZHENG, ZHIFU, US  
[72] XU, JINGYU, CA  
[73] DOW AGROSCIENCES LLC, US  
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[86] (2862907)  
[87] (2862907)  
[22] 2007-12-13  
[62] 2,671,674  
[30] US (11/820,014) 2007-06-15  
[30] US (60/874,497) 2006-12-13

[11] **2,863,090**  
[13] C

[51] **Int.Cl. B65D 41/48 (2006.01) B65D 1/02 (2006.01) B65D 41/34 (2006.01) B65D 51/16 (2006.01) B65D 85/72 (2006.01) B67D 3/00 (2006.01)**

[25] EN

[54] **A PLUG FOR CLOSING THE NECK OF A CONTAINER, AS WELL AS A PACKAGING ASSEMBLY INCLUDING SUCH A PLUG**

[54] **BOUCHON DE FERMETURE DU GOULOT D'UN RECIPIENT AINSI QUE DISPOSITIF DE CONDITIONNEMENT COMPRENANT UN TEL BOUCHON**

[72] GRAUX, STEPHANE, FR  
[72] LAMOUREUX, RICHARD, CA  
[73] TETRA LAVAL HOLDINGS & FINANCE SA, CH

[85] 2014-07-09  
[86] 2013-01-11 (PCT/EP2013/050500)  
[87] (WO2013/104763)  
[30] FR (1250351) 2012-01-13

[11] **2,864,332**  
[13] C

[51] **Int.Cl. C07D 311/58 (2006.01) A61K 31/353 (2006.01) A61K 31/4025 (2006.01) A61P 5/00 (2006.01) A61P 19/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED CHROMAN COMPOUNDS AS CALCIUM SENSING RECEPTOR MODULATORS**

[54] **COMPOSES SUBSTITUES DE CHROMANE EN TANT QUE MODULATEURS DES RECEPTEURS DE DETECTION DU CALCIUM**

[72] SHUKLA, MANOJKUMAR RAMPRASAD, IN  
[72] SARDE, ANKUSH GANGARAM, IN  
[72] LORIYA, RAJESHKUMAR MAGANLAL, IN  
[72] PACHPUTE, VIPUL DILIP, IN  
[72] WALKE, NAVNATH BAJIRAO, IN  
[72] KHAN, TALHA HUSSAIN, IN  
[72] KULKARNI, SANJEEV ANANT, IN  
[72] PALLE, VENKATA P., IN  
[72] KAMBOJ, RAJENDER KUMAR, IN  
[73] LUPIN LIMITED, IN

[85] 2014-08-11  
[86] 2013-02-22 (PCT/IB2013/051445)  
[87] (WO2013/124828)  
[30] IN (178/KOL/2012) 2012-02-24  
[30] IN (1030/KOL/2012) 2012-09-07

[11] **2,864,743**  
[13] C

[51] **Int.Cl. G06Q 20/28 (2012.01) G06Q 20/36 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD OF REGISTERING STORED-VALUE CARDS INTO ELECTRONIC WALLETS**

[54] **SYSTEME ET PROCEDE D'ENREGISTREMENT DE CARTES PREPAYEES DANS DES PORTE-MONNAIE ELECTRONIQUES**

[72] CAMPOS, TOMAS ARIEL, US  
[72] VAISH, TUSHAR, US  
[72] AGONCILLO-ANDRES, SHEILA, US  
[72] PONNAM, RAJESH, US  
[73] BLACKHAWK NETWORK, INC., US

[85] 2014-08-14  
[86] 2013-02-15 (PCT/US2013/026501)  
[87] (WO2013/123438)  
[30] US (61/599,249) 2012-02-15  
[30] US (61/601,911) 2012-02-22

[11] **2,865,182**  
[13] C

[51] **Int.Cl. C07K 16/26 (2006.01) G01N 33/74 (2006.01)**

[25] EN

[54] **MEANS AND METHODS OF MEASURING PARATHYROID HORMONE IN PATIENTS SUFFERING FROM OXIDATIVE STRESS**

[54] **MOYENS ET PROCEDES DE MESURE DE L'HORMONE PARATHYROIDIENNE CHEZ DES PATIENTS SOUFFRANT DE STRESS OXYDATIF**

[72] ARMBRUSTER, FRANZ PAUL, DE  
[72] HOCHER, BERTHOLD, DE  
[72] GROEN, HANS JUERGEN, DE  
[72] ROTH, HEINZ JUERGEN, DE  
[73] IMMUNDIAGNOSTIK AG, DE

[85] 2014-08-21  
[86] 2013-02-22 (PCT/EP2013/053632)  
[87] (WO2013/124462)  
[30] EP (12156441.3) 2012-02-22

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[11] **2,865,422**  
[13] C

[51] **Int.Cl. G06F 15/16 (2006.01)**  
[25] EN  
[54] **PERSISTENT NODE FRAMEWORK**  
[54] **INFRASTRUCTURE D'UN NŃUD PERSISTANT**  
[72] JADHAV, AJAY, US  
[73] JADHAV, AJAY, US  
[85] 2014-08-22  
[86] 2013-02-25 (PCT/US2013/027584)  
[87] (WO2013/126868)  
[30] US (61/602,241) 2012-02-23

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[11] **2,865,792**  
[13] C

[51] **Int.Cl. G09F 19/18 (2006.01) H04H 20/62 (2009.01) G09F 21/04 (2006.01)**  
[25] EN  
[54] **APPARATUS, SYSTEM, AND METHOD FOR DISPLAYING CONTENT ON A VEHICLE**  
[54] **APPAREIL, SYSTEME ET PROCEDE D'AFFICHAGE DE CONTENU SUR UN VEHICULE**  
[72] SEAL, TREVOR, US  
[73] HITCH DEMON, LLC, US  
[85] 2014-08-27  
[86] 2013-03-01 (PCT/US2013/028740)  
[87] (WO2013/131049)  
[30] US (61/605,646) 2012-03-01

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[11] **2,866,469**  
[13] C

[51] **Int.Cl. C10G 31/06 (2006.01) C10B 53/00 (2006.01) C10G 1/00 (2006.01) C10G 67/02 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR UPGRADING PYROLYSIS OIL, TREATED PYROLYSIS OIL AND THE USE THEREOF**  
[54] **PROCEDE DE VALORISATION D'HUILE DE PYROLYSE, HUILE DE PYROLYSE TRAITEE ET SON UTILISATION**  
[72] GUTIERREZ, ANDREA, FI  
[72] JOKELA, PEKKA, FI  
[72] NOUSIAINEN, JAAKKO, FI  
[73] UPM-KYMMENE CORPORATION, FI  
[85] 2014-09-05  
[86] 2013-03-14 (PCT/FI2013/050292)  
[87] (WO2013/135973)  
[30] FI (20125294) 2012-03-16

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[11] **2,866,684**  
[13] C

[51] **Int.Cl. B65B 11/02 (2006.01) H02J 50/00 (2016.01) H02J 50/27 (2016.01)**  
[25] EN  
[54] **ROTARY WRAPPING MACHINE FOR PACKAGING OBJECTS**  
[54] **MACHINE A EMBALLER ROTATIVE PERMETTANT D'EMBALLER DES OBJETS**  
[72] MESSERSI', MAURIZIO, IT  
[73] MESSERSI' PACKAGING SRL, IT  
[85] 2014-09-08  
[86] 2014-02-07 (PCT/IB2014/058853)  
[87] (WO2014/128587)  
[30] IT (MI2013A000234) 2013-02-20

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[11] **2,866,870**  
[13] C

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/02 (2006.01) G01N 35/04 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR DETECTING FALLEN CONTAINERS SUITABLE FOR APPARATUS FOR AUTOMATED EVALUATION OF MICROORGANISM GROWTH IN TEST SAMPLES**  
[54] **SYSTEMES ET PROCEDES DE DETECTION DE RECIPIENTS TOMBES APPROPRIES POUR UN APPAREIL POUR L'EVALUATION AUTOMATISEE DE LA CROISSANCE DE MICRO-ORGANISMES DANS DES ECHANTILLONS POUR ESSAI**  
[72] WILSON, MARK, US  
[72] KNEBEL, JAMES, US  
[72] VIVET, THIERRY, US  
[73] BIOMERIEUX, INC., US  
[85] 2014-09-09  
[86] 2013-03-26 (PCT/US2013/033814)  
[87] (WO2013/148634)  
[30] US (61/617,210) 2012-03-29

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[11] **2,867,603**  
[13] C

[51] **Int.Cl. A23C 20/00 (2006.01)**  
[25] EN  
[54] **IMPROVED DRY BLEND FOR MAKING ANALOGUE CHEESE**  
[54] **MELANGE SEC AMELIORE POUR LA FABRICATION DE FROMAGE ANALOGUE**  
[72] ATAPATTU, CHANDRANI, US  
[72] FANNON, JOHN, US  
[73] ALLIED BLENDING, L.P., US  
[85] 2014-09-16  
[86] 2013-03-15 (PCT/US2013/032119)  
[87] (WO2013/138728)  
[30] US (61/611,922) 2012-03-16  
[30] US (61/732,054) 2012-11-30

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[11] **2,867,675**  
[13] C

[51] **Int.Cl. B01F 3/08 (2006.01) B01J 4/02 (2006.01) C01D 3/26 (2006.01) C25C 1/06 (2006.01)**  
[25] EN  
[54] **PREPARATION METHOD AND STATION FOR NON-CAKING AGENT SOLUTIONS**  
[54] **PROCEDE DE PREPARATION ET STATION POUR SOLUTIONS D'AGENT NON AGGLUTINANT**  
[72] BAKKENES, HENDRIKUS WILHELMUS, NL  
[72] HEEZEN, WILLEM FERDINAND, NL  
[73] AKZO NOBEL CHEMICALS INTERNATIONAL B.V., NL  
[85] 2014-09-17  
[86] 2013-03-27 (PCT/EP2013/056458)  
[87] (WO2013/144174)  
[30] EP (12162533.9) 2012-03-30  
[30] EP (12162544.6) 2012-03-30  
[30] US (61/619,997) 2012-04-04  
[30] US (61/620,033) 2012-04-04

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[11] **2,867,978**  
[13] C

[51] **Int.Cl. A61M 15/00 (2006.01)**  
[25] EN  
[54] **DEVICE FOR THE PORTIONED OUTPUT OF MEDICATIONS**  
[54] **DISPOSITIF DE DISTRIBUTION DE MEDICAMENTS PAR PORTIONS**  
[72] VON SCHUCKMANN, ALFRED, DE  
[73] VON SCHUCKMANN, ALFRED, DE  
[85] 2014-09-19  
[86] 2013-04-02 (PCT/EP2013/056927)  
[87] (WO2013/150021)  
[30] DE (10 2012 102 974.1) 2012-04-05  
[30] DE (10 2012 104 850.9) 2012-06-05

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[11] **2,868,042**  
[13] C

[51] **Int.Cl. G05D 16/06 (2006.01)**  
[25] EN  
[54] **FLUID REGULATOR HAVING IMPROVED FLOW STABILITY**  
[54] **REGULATEUR DE FLUIDE AVEC STABILITE D'ECOULEMENT AMELIOREE**

[72] NASHERY, KHASHAYAR A., US  
[72] SCHEFFLER, DOUGLAS J., US  
[73] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US

[85] 2014-09-19  
[86] 2013-03-27 (PCT/US2013/034080)  
[87] (WO2013/148819)  
[30] US (61/618,557) 2012-03-30

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[11] **2,868,111**  
[13] C

[51] **Int.Cl. H02B 7/00 (2006.01) H02B 1/20 (2006.01) H02B 7/01 (2006.01) H02H 3/00 (2006.01) H02H 3/04 (2006.01)**

[25] EN  
[54] **METHOD FOR DESIGN OF SUBSEA ELECTRICAL SUBSTATION AND POWER DISTRIBUTION SYSTEM**  
[54] **PROCEDE POUR PERMETTRE LA CONCEPTION D'UNE SOUS-STATION ELECTRIQUE SOUS-MARINE ET SYSTEME DE DISTRIBUTION D'ELECTRICITE**

[72] BAKER, JOHN LESLIE, US  
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2014-09-19  
[86] 2013-04-19 (PCT/US2013/037453)  
[87] (WO2013/163043)  
[30] US (61/639,501) 2012-04-27  
[30] US (61/780,459) 2013-03-13

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[11] **2,868,136**  
[13] C

[51] **Int.Cl. C08K 7/18 (2006.01) C08K 3/01 (2018.01) C08K 3/013 (2018.01) B60C 1/00 (2006.01) C08J 3/18 (2006.01) C08K 3/30 (2006.01) C08L 7/00 (2006.01) C08L 9/00 (2006.01)**

[25] FR  
[54] **RUBBER COMPOSITION FOR TIRE TREAD, CONTAINING POTASSIUM SULFATE MICROPARTICLES**  
[54] **COMPOSITION DE CAOUTCHOUC POUR BANDE DE ROULEMENT DE PNEUMATIQUE COMPORTANT DES MICROPARTICULES DE SULFATE DE POTASSIUM**

[72] MAESAKA, MASAYUKI, JP  
[72] PAGANO, SALVATORE, JP  
[72] WATANABE, MAKIKO, JP  
[73] MICHELIN RECHERCHE ET TECHNIQUE S.A., CH

[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2014-09-22  
[86] 2013-04-04 (PCT/EP2013/057075)  
[87] (WO2013/152980)  
[30] FR (1253271) 2012-04-10

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[11] **2,868,449**  
[13] C

[51] **Int.Cl. C10L 3/06 (2006.01)**  
[25] EN  
[54] **HYDROCARBON PROCESSING**  
[54] **TRAITEMENT D'HYDROCARBURE**

[72] NIKIFORUK, COLIN, CA  
[73] NIKIFORUK, COLIN, CA

[85] 2014-09-25  
[86] 2013-05-17 (PCT/CA2013/050385)  
[87] (WO2013/170388)  
[30] US (61/648,750) 2012-05-18

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[11] **2,868,478**  
[13] C

[51] **Int.Cl. G05D 23/19 (2006.01) F24H 9/20 (2006.01) H04L 12/28 (2006.01)**

[25] EN  
[54] **THERMAL STORAGE DEVICE**  
[54] **DISPOSITIF DE STOCKAGE THERMIQUE**

[72] MCDONALD, ALAN, GB  
[73] BASIC HOLDINGS, IE

[85] 2014-09-25  
[86] 2013-03-26 (PCT/EP2013/056449)  
[87] (WO2013/144169)  
[30] GB (1205302.1) 2012-03-26  
[30] GB (1212547.2) 2012-07-13

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[11] **2,868,776**  
[13] C

[51] **Int.Cl. A61H 23/04 (2006.01) A61H 9/00 (2006.01) A61H 23/00 (2006.01) A61H 31/00 (2006.01)**

[25] EN  
[54] **BODY PULSATING APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE DE PULSATIONS CORPORELLES**

[72] HANSEN, CRAIG N., US  
[72] CROSS, PAUL C., US  
[73] ELECTROMED, INC., US

[85] 2014-09-26  
[86] 2013-03-26 (PCT/US2013/000094)  
[87] (WO2013/147964)  
[30] US (13/431,956) 2012-03-27

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[11] **2,868,797**  
[13] C

[51] **Int.Cl. B05D 3/10 (2006.01) B05D 7/14 (2006.01)**

[25] EN  
[54] **PRETREATMENT OF METAL SURFACES PRIOR TO PAINT USING POLYANILINE PARTICLES**  
[54] **PRETRAITEMENT DE SURFACES METALLIQUES AVANT DE PEINDRE UTILISANT DES PARTICULES DE POLYANILINE**

[72] SCHIMPF, DAVID, US  
[72] DUNHAM, BRUCE, US  
[72] FRISZ, WILLIAM, US  
[72] ZHANG, JUN Q., US  
[73] DUBOIS CHEMICALS, INC., US

[85] 2014-09-26  
[86] 2013-03-27 (PCT/US2013/034009)  
[87] (WO2013/148772)  
[30] US (13/432,031) 2012-03-28

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,868,813**  
[13] C

[51] **Int.Cl. G01V 3/26 (2006.01) E21B 47/0228 (2012.01)**

[25] EN

[54] **ELECTROMAGNETIC METHOD FOR OBTAINING DIP AZIMUTH ANGLE**

[54] **PROCEDE ELECTROMAGNETIQUE POUR OBTENIR UN ANGLE D'AZIMUT D'INCLINAISON**

[72] ZHONG, XIAOYAN, US

[72] MINERBO, GERALD N., US

[72] CRARY, STEVEN F., US

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2014-09-26

[86] 2013-03-29 (PCT/US2013/034566)

[87] (WO2013/149125)

[30] US (61/617,412) 2012-03-29

[30] US (13/800,271) 2013-03-13

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[11] **2,868,992**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/18 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/30 (2006.01) C07K 14/475 (2006.01) C07K 17/14 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MULTIPHASIC RELEASE OF GROWTH FACTORS**

[54] **SYSTEME ET PROCEDE DE LIBERATION MULTIPHASIQUE DE FACTEURS DE CROISSANCE**

[72] CLOKIE, CAMERON M.L., CA

[72] PEEL, SEAN A.F., CA

[73] INDUCE BIOLOGICS INC., CA

[85] 2014-09-30

[86] 2012-10-17 (PCT/CA2012/050738)

[87] (WO2013/152418)

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[11] **2,869,059**  
[13] C

[51] **Int.Cl. G02B 6/46 (2006.01) G02B 6/36 (2006.01)**

[25] EN

[54] **DEPLOYING OPTICAL FIBERS USING INDEXING TERMINALS**

[54] **DEPLOIEMENT DE FIBRES OPTIQUES AU MOYEN DE BORNES A INDEXATION**

[72] KMIT, PAUL, US

[72] PARSONS, THOMAS, US

[72] GRONVALL, ERIK, US

[72] ELLENS, DOUGLAS C., US

[72] TOUNDAS, PANAYIOTIS, CA

[72] BADAR, TIMOTHY G., US

[72] SMITH, TREVOR, D., US

[73] ADC TELECOMMUNICATIONS, INC., US

[85] 2014-09-29

[86] 2013-03-29 (PCT/US2013/034618)

[87] (WO2013/149150)

[30] US (61/618,156) 2012-03-30

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[11] **2,869,237**  
[13] C

[51] **Int.Cl. B65G 15/08 (2006.01) B65G 21/10 (2006.01) B65G 41/00 (2006.01) B65G 47/02 (2006.01) B65G 47/34 (2006.01)**

[25] EN

[54] **CONVEYOR SYSTEM**

[54] **SYSTEME DE TRANSPORT**

[72] WHELAN, DARREN JOHN, AU

[73] DW TECHNOLOGIES PTY LTD, AU

[85] 2014-10-01

[86] 2013-03-28 (PCT/AU2013/000332)

[87] (WO2013/149292)

[30] AU (2012901317) 2012-04-03

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[11] **2,870,165**  
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 33/13 (2006.01)**

[25] EN

[54] **CONTINUOUS MULTI-STAGE WELL STIMULATION SYSTEM**

[54] **SYSTEME DE STIMULATION DE Puits MULTI-ETAGE CONTINU**

[72] DUPREE, WADE D., US

[72] FOUCHER, PIERRE-ARNAUD, US

[72] MARTINEZ, RUBEN, US

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2014-10-09

[86] 2013-06-04 (PCT/US2013/043969)

[87] (WO2013/184610)

[30] US (61/655,126) 2012-06-04

[30] US (61/709,642) 2012-10-04

[30] US (13/908,202) 2013-06-03

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[11] **2,870,229**  
[13] C

[51] **Int.Cl. B23P 15/04 (2006.01) F01D 5/14 (2006.01) F04D 29/02 (2006.01) F04D 29/32 (2006.01) B21D 53/78 (2006.01) B23K 20/02 (2006.01)**

[25] FR

[54] **METHOD FOR CREATING A METAL REINFORCEMENT WITH INSERT FOR PROTECTING A LEADING EDGE MADE OF COMPOSITE**

[54] **PROCEDE DE REALISATION D'UN RENFORT METALLIQUE AVEC INSERT POUR LA PROTECTION D'UN BORD D'ATTAQUE EN MATERIAU COMPOSITE**

[72] FRANCHET, JEAN-MICHEL, FR

[72] KLEIN, GILLES, FR

[72] LECONTE, GILBERT, FR

[72] MAGNAUDEIX, DOMINIQUE, FR

[73] SNECMA, FR

[85] 2014-10-10

[86] 2013-04-11 (PCT/FR2013/050785)

[87] (WO2013/156711)

[30] FR (1253595) 2012-04-19



**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,870,654**  
[13] C

[51] **Int.Cl. G21C 1/06 (2006.01) G21C 21/00 (2006.01)**

[25] EN

[54] **INTEGRAL PRESSURIZED WATER REACTOR WITH COMPACT UPPER INTERNALS ASSEMBLY**

[54] **REACTEUR A EAU SOUS PRESSION INTEGRE COMPRENANT UN ENSEMBLE D'ELEMENTS INTERNES SUPERIEURS COMPACTS**

[72] SHARGOTS, SCOTT J., US

[72] ALES, MATTHEW W., US

[72] BERTHOLD, MICHAEL S., US

[73] BWXT MPOWER, INC., US

[85] 2014-10-16

[86] 2013-04-16 (PCT/US2013/036756)

[87] (WO2013/158623)

[30] US (61/625,491) 2012-04-17

[30] US (13/863,659) 2013-04-16

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[11] **2,871,056**  
[13] C

[51] **Int.Cl. G02C 7/10 (2006.01) G02B 27/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE ADDITION OF A FUNCTIONAL COATING ON AN OPTICAL SURFACE OF A SPECTACLE LENS SUITABLE TO BE ARRANGED IN A SPECTACLE FRAME**

[54] **PROCEDE DESTINE A L'AJOUT D'UN REVETEMENT FONCTIONNEL SUR UNE SURFACE OPTIQUE D'UN VERRE DE LUNETTE, APTE A ETRE AGENCE DANS UNE MONTURE DE LUNETTE**

[72] ARROUY, FREDERIC, FR

[72] MILLER, PHILIP, FR

[73] ESSILOR INTERNATIONAL, FR

[85] 2014-10-20

[86] 2013-05-24 (PCT/EP2013/060705)

[87] (WO2013/174963)

[30] EP (12305575.8) 2012-05-24

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[11] **2,871,149**  
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01) B25J 9/00 (2006.01)**

[25] EN

[54] **SINGLE SITE ROBOTIC DEVICE AND RELATED SYSTEMS AND METHODS**

[54] **DISPOSITIF ROBOTIQUE A SITE UNIQUE ET SYSTEMES ET PROCEDES ASSOCIES**

[72] MONDRY, JACK, US

[72] FARRITOR, SHANE, US

[72] MARKVICKA, ERIC, US

[72] FREDERICK, THOMAS, US

[72] BARTELS, JOSEPH, US

[73] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US

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[86] 2013-03-15 (PCT/US2013/032397)

[87] (WO2014/011238)

[30] US (61/640,879) 2012-05-01

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[11] **2,871,172**  
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5517 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PYRROLOBENZODIAZEPINES**

[54] **PYRROLOBENZODIAZEPINES**

[72] HOWARD, PHILIP WILSON, GB

[72] THURSTON, DAVID, GB

[72] RAHMAN, KHONDAKER MIRAZUR, GB

[73] MEDIMMUNE LIMITED, GB

[85] 2014-10-21

[86] 2013-04-30 (PCT/GB2013/051098)

[87] (WO2013/164593)

[30] US (61/640,310) 2012-04-30

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[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4439 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **ARYLETHYNYL DERIVATIVES**

[54] **DERIVES D'ARYLETHYNYLE**

[72] JAESCHKE, GEORG, CH

[72] LINDEMANN, LOTHAR, CH

[72] STADLER, HEINZ, CH

[72] VIEIRA, ERIC, CH

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2014-10-23

[86] 2013-07-12 (PCT/EP2013/064747)

[87] (WO2014/012851)

[30] EP (12176662.0) 2012-07-17

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[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/4985 (2006.01) A61K 31/5383 (2006.01) A61K 31/55 (2006.01) A61P 37/06 (2006.01) C07D 498/04 (2006.01)**

[25] EN

[54] **TETRAHYDRONAPHTHYRIDINE AND RELATED BICYCLIC COMPOUNDS FOR INHIBITION OF ROR.GAMMA.ACTIVITY AND THE TREATMENT OF DISEASE**

[54] **TETRAHYDRONAPHTHYRIDINE ET COMPOSES BICYCLIQUES APPARENTES POUR L'INHIBITION DE L'ACTIVITE RORGAMMA ET LE TRAITEMENT D'UNE MALADIE**

[72] AICHER, THOMAS, US

[72] BARR, KENNETH, US

[72] LAPOINTE, BLAIR, US

[72] SIMOV, VLADIMIR, US

[72] STEIN, KARIN, US

[72] THOMAS, WILLIAM, US

[72] TOOGOOD, PETER, US

[72] VAN HUIS, CHAD, US

[72] WHITE, CATHERINE, US

[73] MERCK SHARP & DOHME CORP., US

[73] LYCERA CORPORATION, US

[85] 2014-10-23

[86] 2013-05-07 (PCT/US2013/039839)

[87] (WO2013/169704)

[30] US (61/644,158) 2012-05-08

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[13] C

[51] **Int.Cl. A61F 13/02 (2006.01)**

[25] EN

[54] **APPARATUS AND PROCESS FOR PROVIDING A COILED COLLAGEN CARRIER**

[54] **APPAREIL ET PROCEDE POUR OBTENIR UN SUPPORT DE COLLAGENE ENROULE**

[72] BERTELSEN, POUL, DK

[72] LARSEN, HENRIK NEUSCHAFFER, DK

[72] PEDERSEN, PERNILLE DYBENDAL, DK

[73] TAKEDA AS, NO

[85] 2014-10-27

[86] 2013-05-22 (PCT/EP2013/060532)

[87] (WO2013/174874)

[30] DK (PCT/DK2012/050178) 2012-05-24

[30] EP (12194089.4) 2012-11-23

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[13] C

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/36 (2013.01) G07F 19/00 (2006.01)**  
[25] EN  
[54] **FRAUD RESISTANT PASSCODE ENTRY SYSTEM**  
[54] **SYSTEME DE SAISIE DE CODE EMPECHANT LA FRAUDE**  
[72] FINNAN, BRIAN G., US  
[72] BRICE, FRANK P., US  
[72] BROWN, WILLIAM B., US  
[73] ARCANUM TECHNOLOGY LLC, US  
[85] 2014-10-24  
[86] 2013-04-24 (PCT/US2013/037973)  
[87] (WO2013/163285)  
[30] US (61/638,223) 2012-04-25

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[11] **2,871,737**  
[13] C

[51] **Int.Cl. C09D 5/00 (2006.01)**  
[25] EN  
[54] **HIGH SOLAR-REFLECTIVITY ROOFING GRANULES UTILIZING LOW ABSORPTION COMPONENTS**  
[54] **GRANULES DE COUVERTURE REFLECHISSANT BIEN LE RAYONNEMENT SOLAIRE ET UTILISANT DES COMPOSANTS CARACTERISES PAR UNE FAIBLE ABSORPTION**  
[72] BAI, FENG, US  
[72] BUDD, KENTON D., US  
[72] EVERMAN, REBECCA L., US  
[72] LINDSAY, CRAIG W., US  
[73] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2014-10-27  
[86] 2013-04-08 (PCT/US2013/035551)  
[87] (WO2013/165650)  
[30] US (61/640,462) 2012-04-30

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[13] C

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 34/10 (2016.01) A61B 17/15 (2006.01) A61F 2/38 (2006.01) A61F 2/46 (2006.01)**  
[25] EN  
[54] **PATIENT-SPECIFIC INSTRUMENTATION AND METHOD FOR ARTICULAR JOINT REPAIR**  
[54] **INSTRUMENTATION SPECIFIQUE POUR UN PATIENT ET PROCEDE POUR LA REPARATION DE JONCTION ARTICULAIRE**  
[72] COUTURE, PIERRE, CA  
[72] NGUYEN, TRONG TIN, CA  
[72] NEUROHR, ANSELM JAKOB, CA  
[72] MERETTE, JEAN-SEBASTIEN, CA  
[72] ABIVEN, JEAN-GUILLAUME, CA  
[72] RICHARD, ALAIN, CA  
[73] ZIMMER, INC., US  
[85] 2014-10-29  
[86] 2013-05-24 (PCT/CA2013/050398)  
[87] (WO2013/173926)  
[30] US (61/651,061) 2012-05-24  
[30] US (61/671,990) 2012-07-16  
[30] US (61/787,579) 2013-03-15

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[13] C

[51] **Int.Cl. G06F 16/903 (2019.01) G06Q 30/06 (2012.01) G06F 16/904 (2019.01)**  
[25] EN  
[54] **VIN SCAN/CODE CATALOG AND INFORMATION LOOKUP**  
[54] **VIN SCAN/CATALOGUE DE CODES ET RECHERCHE D'INFORMATIONS**  
[72] CHRISTY, ROBERT C., US  
[72] THAO, JOHNNY, US  
[72] WILSON, SCOTT, US  
[72] MATHIS, SHERRY M., US  
[73] DAYCO IP HOLDINGS, LLC, US  
[85] 2014-10-31  
[86] 2013-06-04 (PCT/US2013/043972)  
[87] (WO2013/188160)  
[30] US (13/492,957) 2012-06-11

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[13] C

[51] **Int.Cl. C25F 3/14 (2006.01) B82Y 30/00 (2011.01) B23B 41/14 (2006.01) B23H 9/14 (2006.01) B23K 9/013 (2006.01) C25F 7/00 (2006.01)**  
[25] EN  
[54] **FABRICATION OF NANOPORES USING HIGH ELECTRIC FIELDS**  
[54] **FABRICATION DE NANOPORES A L'AIDE DE CHAMPS ELECTRIQUES ELEVES**  
[72] KWOK, WING HEI, CA  
[72] TABARD-COSSA, VINCENT, CA  
[72] BRIGGS, KYLE ALEXANDER ZARKEL, CA  
[73] THE UNIVERSITY OF OTTAWA, CA  
[85] 2014-11-04  
[86] 2013-05-07 (PCT/IB2013/000891)  
[87] (WO2013/167955)  
[30] US (61/643,651) 2012-05-07  
[30] US (61/781,081) 2013-03-14

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[11] **2,872,634**  
[13] C

[51] **Int.Cl. E04C 2/296 (2006.01) E04B 1/76 (2006.01) E04F 13/073 (2006.01) E04F 13/08 (2006.01) E04F 13/12 (2006.01) E04B 1/94 (2006.01)**  
[25] EN  
[54] **FOAM WALL INSULATION SYSTEM**  
[54] **SYSTEME D'ISOLATION DE PAROI EN MOUSSE**  
[72] SAGNARD, ALAIN, CH  
[72] MASSUEGER, LARS, CH  
[73] DDP SPECIALTY ELECTRONIC MATERIALS US, INC., US  
[85] 2014-11-04  
[86] 2013-05-28 (PCT/US2013/042797)  
[87] (WO2013/184425)  
[30] US (61/656,541) 2012-06-07

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[13] C

[51] **Int.Cl. C10G 29/10 (2006.01) C10L 1/00 (2006.01)**  
[25] EN  
[54] **PROCESS, METHOD, AND SYSTEM FOR REMOVING MERCURY FROM FLUIDS**  
[54] **METHODE, PROCEDE, ET SYSTEME POUR ELIMINER LE MERCURE DE FLUIDES**  
[72] COOPER, RUSSELL EVAN, US  
[72] O'REAR, DENNIS JOHN, US  
[72] GALLUP, DARRELL LYNN, US  
[72] YOUNG, LYMAN ARNOLD, US  
[72] YEAN, SUJIN, US  
[73] CHEVRON U.S.A. INC., US  
[85] 2014-11-05  
[86] 2013-05-16 (PCT/US2013/041345)  
[87] (WO2013/173579)  
[30] US (61/648,061) 2012-05-16

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[13] C

[51] **Int.Cl. C10G 29/10 (2006.01) C10L 1/00 (2006.01)**  
[25] EN  
[54] **PROCESS, METHOD, AND SYSTEM FOR REMOVING MERCURY FROM FLUIDS**  
[54] **TRAITEMENT, PROCEDE ET SYSTEME POUR ELIMINER LE MERCURE DE FLUIDES**  
[72] O'REAR, DENNIS JOHN, US  
[72] COOPER, RUSSELL EVAN, US  
[72] YEAN, SUJIN, US  
[72] GALLUP, DARRELL LYNN, US  
[72] YOUNG, LYMAN ARNOLD, US  
[73] CHEVRON U.S.A. INC., US  
[85] 2014-11-05  
[86] 2013-05-16 (PCT/US2013/041357)  
[87] (WO2013/173586)  
[30] US (61/647,919) 2012-05-16

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[11] **2,872,967**  
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01)**  
[25] EN  
[54] **A REPLACEABLE SUTURING HEAD, A REPLACEABLE NEEDLE CARTRIDGE, AND A SUTURING DEVICE**  
[54] **TETE DE SUTURE REMPLACABLE, CARTOUCHE D'AIGUILLE REMPLACABLE ET DISPOSITIF DE SUTURE**  
[72] BERRY, ALEXANDER CHARLES, GB  
[73] SUTRUE LIMITED, GB  
[85] 2014-11-07  
[86] 2013-05-08 (PCT/GB2013/051185)  
[87] (WO2013/167885)  
[30] GB (1208024.8) 2012-05-08

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[11] **2,872,970**  
[13] C

[51] **Int.Cl. G01N 23/10 (2018.01) G01N 21/59 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR MEASUREMENT OF CONCENTRATION OF A SPECIFIC ANALYTE IN A BIOLOGICAL MATERIAL**  
[54] **PROCEDE ET APPAREIL DE MESURE DE CONCENTRATION D'ANALYTE SPECIFIQUE DANS UNE MATIERE BIOLOGIQUE**  
[72] KULLENBERG, RAGNAR, SE  
[72] TORGRIP, RALF, SE  
[72] DANIELSSON, FREDRIK, SE  
[72] LANDSTROM, ERIC, SE  
[73] MANTEX IP AB, SE  
[85] 2014-11-07  
[86] 2013-06-12 (PCT/EP2013/062111)  
[87] (WO2013/189795)  
[30] EP (12172578.2) 2012-06-19

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[11] **2,873,522**  
[13] C

[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/06 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR DETERMINING A PAIR OF PROGRESSIVE OPHTHALMIC LENSES**  
[54] **PROCESSUS DE DETERMINATION DE PAIRE DE LENTILLES OPHTALMIQUES PROGRESSIVES**  
[72] PAILLE, DAMIEN, FR  
[72] ROUSSEAU, BENJAMIN, FR  
[72] CONTET, AUDE, FR  
[72] POULAIN, ISABELLE, FR  
[72] VIALET, STEPHANIE, FR  
[72] KARIOTY, FARID, FR  
[73] ESSILOR INTERNATIONAL, FR  
[85] 2014-11-13  
[86] 2013-06-28 (PCT/EP2013/063602)  
[87] (WO2014/001490)  
[30] EP (12305772.1) 2012-06-29

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[11] **2,873,593**  
[13] C

[51] **Int.Cl. A47H 1/00 (2006.01) A47H 1/10 (2006.01)**  
[25] EN  
[54] **ASSEMBLY FOR MOUNTING SHADES**  
[54] **ENSEMBLE DE MONTAGE DE STORES**  
[72] GEIGER, JAMES, US  
[73] GEIGTECH EAST BAY LLC, US  
[85] 2014-11-13  
[86] 2013-05-15 (PCT/US2013/041175)  
[87] (WO2013/173471)  
[30] US (61/647,445) 2012-05-15

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[11] **2,873,621**  
[13] C  
[51] **Int.Cl. G16H 40/40 (2018.01) G16H 40/67 (2018.01) G16H 80/00 (2018.01) A61M 1/14 (2006.01) A61M 1/34 (2006.01) A61M 1/36 (2006.01)**  
[25] EN  
[54] **HOME MEDICAL DEVICE SYSTEMS AND METHODS FOR THERAPY PRESCRIPTION AND TRACKING, SERVICING AND INVENTORY**  
[54] **SYSTEMES ET PROCEDES DE DISPOSITIF MEDICAL A DOMICILE POUR UNE PRESCRIPTION ET UN SUIVI, UN SERVICE ET UN INVENTAIRE DE THERAPIE**  
[72] MILLER, JOSHUA JAMES, US  
[72] WIEBENSON, DEREK, CH  
[72] WILKERSON, DOUGLAS L., US  
[72] TIWARI, NEIL, US  
[72] ROBINSON, TIMOTHY G., US  
[72] MINKUS, MARC STEVEN, US  
[72] MULLER, MATTHEW R., US  
[72] WELLINGS, ANDERS J., US  
[72] HANSBRO, KATHRYN LOUISE, US  
[72] CIZMAN, BORUT, US  
[72] KUNZEMAN, BRIAN S., US  
[72] COOPER, ROBIN D., US  
[72] KUDELKA, TIMOTHY L., US  
[72] SARTO, ANGELO A., US  
[72] LINDO, STEVE JOSEPH, US  
[72] BAUSTAD, JOSTEIN, US  
[72] MOUNTS, DUSTON, US  
[72] HILL, SHAFALI, US  
[73] BAXTER INTERNATIONAL INC., US  
[73] BAXTER HEALTHCARE S.A., CH  
[85] 2014-11-13  
[86] 2013-05-14 (PCT/US2013/040967)  
[87] (WO2013/173349)  
[30] US (61/647,340) 2012-05-15  
[30] US (13/828,900) 2013-03-14

[11] **2,873,991**  
[13] C  
[51] **Int.Cl. C12P 19/34 (2006.01) C12M 1/38 (2006.01)**  
[25] EN  
[54] **EXTREME PCR**  
[54] **PCR EXTREME**  
[72] WITTEW, CARL T., US  
[72] FARRAR, JARED STEVEN, US  
[73] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US  
[85] 2014-11-17  
[86] 2013-05-23 (PCT/US2013/042473)  
[87] (WO2013/177429)  
[30] US (61/651,161) 2012-05-24  
[30] US (61/811,145) 2013-04-12

[11] **2,874,084**  
[13] C  
[51] **Int.Cl. C07C 29/80 (2006.01) C07C 29/90 (2006.01) C07C 31/20 (2006.01) C12P 7/18 (2006.01) C07B 61/00 (2006.01)**  
[25] EN  
[54] **PRODUCTION METHOD FOR 1,4-BUTANEDIOL**  
[54] **PROCEDE DE FABRICATION DE 1,4-BUTANEDIOL**  
[72] UTSUNOMIYA, MASARU, JP  
[72] IZAWA, YUSUKE, JP  
[72] KONISHI, NORIKAZU, JP  
[72] TANAKA, KOTA, JP  
[72] MATSUZONO, SHINICHIRO, JP  
[72] SUZUKI, TAKAYUKI, JP  
[72] JAPS, MICHAEL, US  
[72] BURK, MARK, US  
[72] CLARK, WARREN, US  
[73] GENOMATICA, INC., US  
[85] 2014-11-19  
[86] 2013-06-03 (PCT/JP2013/065367)  
[87] (WO2013/183592)  
[30] JP (2012-128065) 2012-06-05  
[30] JP (2013-037301) 2013-02-27

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[13] C  
[51] **Int.Cl. G16B 30/00 (2019.01) C12Q 1/6809 (2018.01) G16B 20/20 (2019.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS**  
[54] **PROCEDES ET METHODES D'EVALUATION NON INVASIVE DE VARIATIONS GENETIQUES**  
[72] DECIU, COSMIN, US  
[72] KIM, SUNG K., US  
[73] SEQUENOM, INC., US  
[85] 2014-11-18  
[86] 2013-05-20 (PCT/US2013/041906)  
[87] (WO2013/177086)  
[30] US (61/649,841) 2012-05-21  
[30] US (61/740,377) 2012-12-20  
[30] US (61/740,368) 2012-12-20  
[30] US (13/782,857) 2013-03-01  
[30] US (13/782,883) 2013-03-01

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[13] C  
[51] **Int.Cl. A01N 43/58 (2006.01) A01N 37/46 (2006.01) A01N 43/36 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 43/78 (2006.01) A01N 47/24 (2006.01) A01N 51/00 (2006.01) A01P 3/00 (2006.01) A01P 7/00 (2006.01)**  
[25] EN  
[54] **PYRAZOLE COMPOUND AND PESTICIDAL MIXTURES COMPRISING A PYRAZOLE COMPOUND**  
[54] **COMPOSE DE PYRAZOLE ET MELANGES PESTICIDES COMPRENANT UN COMPOSE DE PYRAZOLE**  
[72] SORDEL, SEBASTIAN, DE  
[72] SALINGER, DANIEL, DE  
[72] DEFIEBER, CHRISTIAN, DE  
[72] LANGEWALD, JURGEN, DE  
[72] GOCKEL, BIRGIT, DE  
[72] HADEN, EGON, DE  
[72] CULBERTSON, DEBORAH L., US  
[72] GUNJIMA, KOSHI, US  
[73] BASF SE, DE  
[85] 2014-11-21  
[86] 2013-06-12 (PCT/EP2013/062123)  
[87] (WO2013/189801)  
[30] US (61/661,817) 2012-06-20  
[30] US (61/717,117) 2012-10-23

[11] **2,874,502**  
[13] C  
[51] **Int.Cl. A01N 31/02 (2006.01) A01N 33/12 (2006.01) A01N 59/16 (2006.01)**  
[25] EN  
[54] **AQUEOUS ALCOHOLIC MICROBICIDAL COMPOSITIONS COMPRISING ZINC IONS**  
[54] **COMPOSITIONS MICROBICIDES ALCOOLIQUE AQUEUSES COMPRENANT DES IONS ZINC**  
[72] IJAZ, MOHAMMAD KHALID, US  
[72] ZHU, YUN-PENG, US  
[73] RECKITT BENCKISER LLC, US  
[85] 2014-11-24  
[86] 2013-06-28 (PCT/GB2013/051721)  
[87] (WO2014/006380)  
[30] GB (1211688.5) 2012-07-02  
[30] US (61/731,895) 2012-11-30

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25 août 2020**

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[13] C

[51] **Int.Cl. G01N 17/04 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR EVALUATING POWER TRANSMISSION CONDUCTORS**  
[54] **APPAREIL ET METHODE D'EVALUATION DE CONDUCTEURS DE TRANSMISSION**  
**D'ALIMENTATION**  
[72] MURRAY, NEAL SCOTT, US  
[73] ELECTRIC POWER RESEARCH INSTITUTE, INC., US  
[86] (2874665)  
[87] (2874665)  
[22] 2014-12-12

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[11] **2,874,910**  
[13] C

[51] **Int.Cl. C08G 63/181 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 63/66 (2006.01)**  
[25] EN  
[54] **POLYESTEROLS FOR PRODUCING RIGID POLYURETHANE FOAMS**  
[54] **POLYESTEROLS POUR LA FABRICATION DE MOUSSES RIGIDES DE POLYURETHANE**  
[72] JACOBMEIER, OLAF, DE  
[72] KAMPF, GUNNAR, DE  
[73] BASF SE, DE  
[85] 2014-11-27  
[86] 2013-05-28 (PCT/EP2013/060947)  
[87] (WO2013/178623)  
[30] EP (12169955.7) 2012-05-30

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[11] **2,875,007**  
[13] C

[51] **Int.Cl. C08F 2/18 (2006.01) C08F 2/20 (2006.01) C08F 2/44 (2006.01)**  
[25] EN  
[54] **MIXED SALT SUSPENSION POLYMERIZATION PROCESS AND RESINS AND CATALYSTS PRODUCED THEREOF**  
[54] **PROCEDE DE POLYMERISATION D'UNE SUSPENSION DE SEL MIXTE ET RESINES ET CATALYSEURS AINSI OBTENUS**  
[72] MASUDO, TAKASHI, JP  
[72] OLSEN, ROBERT J., US  
[72] PARKER, GARTH R., US  
[72] TREJO, JOSE ANTONIO, US  
[73] ROHM AND HAAS COMPANY, US  
[85] 2014-11-27  
[86] 2013-06-07 (PCT/US2013/044631)  
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[30] US (61/657,817) 2012-06-10  
[30] US (61/657,816) 2012-06-10

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[13] C

[51] **Int.Cl. C23C 18/20 (2006.01) C23C 18/24 (2006.01) C23C 18/30 (2006.01)**  
[25] EN  
[54] **PROCESS FOR METALLIZING NONCONDUCTIVE PLASTIC SURFACES**  
[54] **PROCEDE POUR LA METALLISATION DE SURFACES DE MATIERES PLASTIQUES NON CONDUCTRICES**  
[72] NARUSKEVICIUS, LEONAS, LT  
[72] BUDILOVSKIS, DANAS, LT  
[72] GYLIENE, ONA, LT  
[72] TAMASAUSKAITE TAMASIUNAITE, LORETA, LT  
[73] ATOTECH DEUTSCHLAND GMBH, DE  
[85] 2014-12-01  
[86] 2013-06-05 (PCT/EP2013/061568)  
[87] (WO2013/182590)  
[30] LT (2012042) 2012-06-05

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[11] **2,875,487**  
[13] C

[51] **Int.Cl. B29C 59/02 (2006.01) F16J 15/08 (2006.01) F16J 15/10 (2006.01)**  
[25] EN  
[54] **GASKET MATERIAL, GASKETS, AND RELATED METHODS**  
[54] **MATERIAU DE JOINT, JOINTS ET PROCEDES CORRESPONDANTS**  
[72] AYKANAT, AYDIN, US  
[72] YOUNG, JOSEPH D., US  
[72] PITOLAJ, STEFAN, US  
[72] ROGALSKI, EARL J., US  
[73] GARLOCK SEALING TECHNOLOGIES LLC, US  
[85] 2014-12-02  
[86] 2012-10-19 (PCT/US2012/060989)  
[87] (WO2014/003807)  
[30] US (61/664,549) 2012-06-26

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[51] **Int.Cl. C07D 401/10 (2006.01) A61K 31/4439 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **CAMSYLATE SALT**  
[54] **SEL DE CAMSYLATE**  
[72] BOHLIN, MARTIN HANS, GB  
[72] STEWART, CRAIG ROBERT, GB  
[73] ASTRAZENECA AB, SE  
[85] 2014-12-03  
[86] 2013-06-20 (PCT/GB2013/051606)  
[87] (WO2013/190302)  
[30] US (61/662,592) 2012-06-21

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[51] **Int.Cl. H04N 21/458 (2011.01) H04H 40/09 (2009.01) H04N 21/2183 (2011.01) G06Q 30/02 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR EFFICIENT MANIFEST MANIPULATION**  
[54] **PROCEDE ET SYSTEME DE MANIPULATION DE MANIFESTE EFFICACE**  
[72] SANTANGELO, BRYAN DAVID, US  
[72] SHERWIN, JEFFREY, US  
[73] COMCAST CABLE COMMUNICATIONS MANAGEMENT, LLC, US  
[85] 2014-12-04  
[86] 2013-05-02 (PCT/US2013/039275)  
[87] (WO2014/178872)

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[51] **Int.Cl. G01N 23/2252 (2018.01) G01N 23/2206 (2018.01)**  
[25] EN  
[54] **CLUSTER ANALYSIS OF UNKNOWN IN SEM-EDS DATASET**  
[54] **ANALYSE EN GRAPPES DE DONNEES INCONNUES DANS UN ENSEMBLE DE DONNEES SEM-EDS**  
[72] BUHOT, MICHAEL, AU  
[72] PHAN, VAN HUNG, AU  
[72] OWEN, MICHAEL JAMES, AU  
[73] FEI COMPANY, US  
[85] 2014-12-05  
[86] 2013-06-28 (PCT/US2013/048726)  
[87] (WO2014/005101)  
[30] US (13/536,308) 2012-06-28

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[51] **Int.Cl. A61C 13/12 (2006.01) A61C 13/225 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR MEDICAL TREATMENT AND REHABILITATION OF JAWS**  
[54] **PROCEDE ET SYSTEME S'APPLIQUANT A UN TRAITEMENT MEDICAL ET A LA REHABILITATION DES MACHOIRES**  
[72] VESHLER, MISHEL, IL  
[72] AHARONI, BENZI, IL  
[73] VESHLER, MISHEL, IL  
[73] AHARONI, BENZI, IL  
[85] 2014-12-09  
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[30] IL (220326) 2012-06-12

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[51] **Int.Cl. A47J 37/07 (2006.01)**  
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[54] **GRILL**  
[54] **GRIL**  
[72] BUCHER, ARMIN, CH  
[72] MATHIS, MARC, CH  
[73] SOMMERLIVING AG, CH  
[85] 2014-12-11  
[86] 2013-06-17 (PCT/EP2013/062485)  
[87] (WO2014/001115)  
[30] CH (00901/12) 2012-06-27  
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[13] C

[51] **Int.Cl. H04L 9/32 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR USING DERIVED CREDENTIALS TO AUTHENTICATE A DEVICE ACROSS MULTIPLE PLATFORMS**  
[54] **PROCEDES ET SYSTEMES POUR UTILISER DES JUSTIFICATIFS D'IDENTITE DERIVES POUR AUTHENTIFIER UN DISPOSITIF A TRAVERS DE MULTIPLES PLATEFORMES**  
[72] BOYSEN, ANDRE, CA  
[73] CUMMING, HUGH, CA  
[72] DAS, ABHISHEK, CA  
[72] RONDA, TROY JACOB, CA  
[72] VARLEY, MICHAEL, CA  
[73] SECUREKEY TECHNOLOGIES INC., CA  
[85] 2014-01-08  
[86] 2013-07-08 (PCT/CA2013/000625)  
[87] (WO2014/008579)  
[30] US (13/548,357) 2012-07-13

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[13] C

[51] **Int.Cl. A61F 5/56 (2006.01) A61C 7/08 (2006.01) A61C 19/00 (2006.01) A61M 21/00 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUSES FOR PERFORMING REMOTE TITRATION OF MANDIBULAR PROTRUSION**  
[54] **PROCEDES ET APPAREILS PERMETTANT LA REALISATION DE TITRAGE DE PROTRUSION MANDIBULAIRE A DISTANCE**  
[72] REMMERS, JOHN, US  
[72] TAM, HUGO, CA  
[72] MACARTNEY, TERRY, CA  
[72] SANTOSHAM, PETER, CA  
[72] TOPOR, ZBIGNIEW LUDWIK, CA  
[72] GROSSE, JOSHUA, CA  
[73] ZST HOLDINGS, INC., CA  
[85] 2014-12-12  
[86] 2013-06-13 (PCT/US2013/045644)  
[87] (WO2013/188660)  
[30] US (61/659,231) 2012-06-13

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[13] C

[51] **Int.Cl. B60K 1/04 (2019.01) B60L 58/26 (2019.01) B60W 10/26 (2006.01) H02J 7/00 (2006.01)**  
[25] EN  
[54] **ENERGY STORAGE SYSTEM FOR HYBRID ELECTRIC VEHICLE**  
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR VEHICULE ELECTRIQUE HYBRIDE**  
[72] REYBURN, STEVEN T., US  
[72] FORD, DEAN M., US  
[72] MILLER, BRUCE E., US  
[73] ALLISON TRANSMISSION, INC., US  
[85] 2014-12-12  
[86] 2013-06-13 (PCT/US2013/045687)  
[87] (WO2013/188680)  
[30] US (61/659,215) 2012-06-13

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[13] C

[51] **Int.Cl. C09K 21/12 (2006.01) C08G 18/44 (2006.01) C08K 3/32 (2006.01) C08K 5/523 (2006.01)**  
[25] EN  
[54] **HALOGEN-FREE FLAME RETARDANT TPU WITH VERY HIGH LOI**  
[54] **COMPOSITIONS DE TPU IGNIFUGES SANS HALOGENE A LOI TRES ELEVE**  
[72] MAKADIA, CHETAN M., US  
[72] GIOVANNITTI-JENSEN, ANN, US  
[73] LUBRIZOL ADVANCED MATERIALS, INC., US  
[85] 2014-12-17  
[86] 2013-06-05 (PCT/US2013/044202)  
[87] (WO2013/191902)  
[30] US (61/660,869) 2012-06-18

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[13] C

[51] **Int.Cl. B21D 22/16 (2006.01) B21D 45/02 (2006.01) B21D 53/28 (2006.01)**  
[25] EN  
[54] **HELICAL SPLINE FORMING FORMATION DE CANNELURES HELICOIDALES**  
[72] ABBASSIAN, BAHMAN, CA  
[72] CHRISTIANSEN, LISA, CA  
[73] MAGNA POWERTRAIN INC., CA  
[85] 2014-12-17  
[86] 2013-07-02 (PCT/US2013/049105)  
[87] (WO2014/008279)  
[30] US (61/668,271) 2012-07-05

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[13] C

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/02 (2006.01) A61L 2/08 (2006.01)**  
[25] EN  
[54] **APPLIANCE FOR DISINFECTING HAND-HELD DEVICES**  
[54] **APPAREIL DE DESINFECTION DE DISPOSITIFS PORTATIFS**  
[72] FREUE, GUILLERMO J. COHEN, US  
[72] MISHKIN, GARY JOEL, US  
[72] LYNN, WILLIAM WARREN, US  
[73] ALUVIS INTERNATIONAL, INC., US  
[85] 2014-12-18  
[86] 2013-05-17 (PCT/US2013/041568)  
[87] (WO2013/173703)  
[30] US (61/648,759) 2012-05-18  
[30] US (61/789,704) 2013-03-15

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[13] C

[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/20 (2020.01) A24F 40/40 (2020.01)**  
[25] EN  
[54] **SMOKING ARTICLE FOR USE WITH AN INTERNAL HEATING ELEMENT**  
[54] **ARTICLE A FUMER DESTINE A ETRE UTILISE AVEC UN ELEMENT CHAUFFANT INTERNE**  
[72] MITREV, PANDE, CH  
[72] BADERTSCHER, THOMAS, CH  
[73] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2014-12-19  
[86] 2013-06-20 (PCT/EP2013/062869)  
[87] (WO2013/190036)  
[30] EP (12173054.3) 2012-06-21  
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[13] C

[51] **Int.Cl. A61K 36/82 (2006.01) A61P 17/00 (2006.01) A61Q 19/08 (2006.01)**  
[25] EN  
[54] **COMPOSITION CONTAINING TEA WATER FOR PREVENTING AGING OF SKIN**  
[54] **COMPOSITION CONTENANT DE L'EAU DE THE POUR PREVENIR LE VIEILLISSEMENT DE LA PEAU**  
[72] CHANG, HUI KYOUNG, KR  
[72] YOO, SE JIN, KR  
[72] RHA, CHAN SU, KR  
[72] BAEK, SEOK YUN, KR  
[72] KIM, JOO YEON, KR  
[72] YANG, MI SUK, KR  
[73] AMOREPACIFIC CORPORATION, KR  
[85] 2014-12-19  
[86] 2013-04-26 (PCT/KR2013/003646)  
[87] (WO2014/003304)  
[30] KR (10-2012-0070454) 2012-06-29

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[11] **2,877,493**  
[13] C

[51] **Int.Cl. C40B 40/06 (2006.01) C12P 19/34 (2006.01) C40B 30/04 (2006.01)**  
[25] EN  
[54] **HIGHLY MULTIPLEX PCR METHODS AND COMPOSITIONS**  
[54] **PROCEDES DE PCR HAUTEMENT MULTIPLEX ET COMPOSITIONS**  
[72] ZIMMERMANN, BERNHARD, US  
[72] HILL, MATTHEW M., US  
[72] LACROUTE, PHILIPPE GILBERT, US  
[72] DODD, MICHAEL, US  
[73] NATERA, INC., US  
[85] 2014-12-19  
[86] 2012-11-21 (PCT/US2012/066339)  
[87] (WO2014/018080)  
[30] US (61/675,020) 2012-07-24  
[30] US (13/683,604) 2012-11-21

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[13] C

[51] **Int.Cl. B23P 6/00 (2006.01)**  
[25] EN  
[54] **REPAIR OF A SHROUDED BLADE**  
[54] **REPARATION D'UNE AUBE RENFORCEE**  
[72] DUBS, GREGORY ALAN, US  
[72] MILIDANTRI, THOMAS HORACE, US  
[73] ANSALDO ENERGIA SWITZERLAND AG, CH  
[85] 2014-12-22  
[86] 2013-06-27 (PCT/US2013/048135)  
[87] (WO2014/008088)  
[30] US (61/667,090) 2012-07-02  
[30] US (13/917,876) 2013-06-14

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[13] C

[51] **Int.Cl. B29C 65/00 (2006.01)**  
[25] EN  
[54] **A METHOD FOR THE MANUFACTURE OF A PLASTICS PRODUCT AND A PRODUCT MADE BY THE METHOD**  
[54] **PROCEDE DE FABRICATION D'UN PRODUIT EN MATIERE PLASTIQUE ET PRODUIT FABRIQUE PAR LE PROCEDE**  
[72] HANSEN, CHRISTINA, DK  
[72] LICHT BOTCHER, RENE, DK  
[73] LEGO A/S, DK  
[85] 2014-12-23  
[86] 2013-07-01 (PCT/DK2013/050216)  
[87] (WO2014/005591)  
[30] DK (PA 2012 70393) 2012-07-04

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[13] C

[51] **Int.Cl. C07D 215/233 (2006.01) A61K 31/47 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **N-[4-(QUINOLIN-4-YLOXY)CYCLOHEXYL(METHYL)](HETERO)ARYLCARBOXAMIDES AS ANDROGEN RECEPTOR ANTAGONISTS, PRODUCTION AND USE THEREOF AS MEDICINAL PRODUCTS**

[54] **N-[4-(QUINOLIN-4-YLOXY)CYCLOHEXYL(METHYL)](HETERO)ARYLCARBOXAMIDES UTILISABLES EN TANT QU'ANTAGONISTES DES RECEPTEURS AUX ANDROGENES, LEUR PRODUCTION ET LEUR UTILISATION EN TANT QUE MEDICAMENTS**

[72] NGUYEN, DUY, DE

[72] KUNZER, HERMANN (DECEASED), DE

[72] FAUS GIMENEZ, HORTENSIA, DE

[72] BADER, BENJAMIN, DE

[72] KOHR, SILKE, DE

[72] FRITSCH, MARTIN, DE

[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE

[85] 2014-12-23

[86] 2013-06-24 (PCT/EP2013/063118)

[87] (WO2014/001247)

[30] EP (12004764.2) 2012-06-26

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[13] C

[51] **Int.Cl. E02B 15/04 (2006.01) E02B 15/10 (2006.01)**

[25] EN

[54] **OIL COLLECTOR**

[54] **COLLECTEUR D'HUILE**

[72] LUNDIN, LARS INGRAM, FI

[73] M & L PATENT OY AB, FI

[85] 2014-12-23

[86] 2013-06-10 (PCT/FI2013/050623)

[87] (WO2014/001613)

[30] FI (20125704) 2012-06-25

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[13] C

[51] **Int.Cl. B66C 13/12 (2006.01) B66C 23/70 (2006.01)**

[25] EN

[54] **TELESCOPIC ARM FOR OPERATING MACHINES**

[54] **BRAS TELESCOPIQUE POUR MACHINES D'ACTIONNEMENT**

[72] MAGNI, RICCARDO, IT

[73] C.M.C. S.R.L. - SOCIETA UNIPERSONALE, IT

[85] 2014-12-29

[86] 2013-07-02 (PCT/IB2013/001409)

[87] (WO2014/006474)

[30] IT (MO2012A000170) 2012-07-06

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[13] C

[51] **Int.Cl. A62B 1/14 (2006.01) A62B 35/00 (2006.01) A62B 35/04 (2006.01)**

[25] EN

[54] **ROPE GRAB**

[54] **COULISSEAU DE SECURITE**

[72] CASEBOLT, SCOTT C., US

[72] BLOMBERG, JOHN P., US

[72] MILLER, RICK G., US

[73] D B INDUSTRIES, LLC, US

[85] 2014-12-23

[86] 2013-07-17 (PCT/US2013/050868)

[87] (WO2014/015026)

[30] US (13/551,845) 2012-07-18

[30] US (13/891,871) 2013-05-10

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[11] **2,878,272**  
[13] C

[51] **Int.Cl. F24F 11/76 (2018.01) F24F 13/08 (2006.01) G05D 23/19 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR BALANCING AN HVAC SYSTEM**

[54] **SYSTEMES ET METHODES D'EQUILIBRAGE D'UN SYSTEME CVCA**

[72] USELTON, ROBERT B., US

[73] LENNOX INDUSTRIES INC., US

[86] (2878272)

[87] (2878272)

[22] 2015-01-19

[30] US (14/169,637) 2014-01-31

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[13] C

[51] **Int.Cl. B62D 55/08 (2006.01) B62D 55/12 (2006.01) B62D 55/125 (2006.01)**

[25] EN

[54] **DRIVE SPROCKET FOR A TRACKED UTILITY VEHICLE**

[54] **PIGNON D'ENTRAINEMENT POUR UN VEHICULE UTILITAIRE A CHENILLES**

[72] EAVENSON, JIMMY N., SR., US

[72] DILGARD, TIM, US

[72] CMICH, RYAN, US

[72] SCHAEGLER, AXEL, US

[73] MTD PRODUCTS INC, US

[85] 2014-12-31

[86] 2013-07-03 (PCT/US2013/049289)

[87] (WO2014/008378)

[30] US (61/668,650) 2012-07-06

[30] US (61/668,671) 2012-07-06

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[11] **2,878,323**  
[13] C

[51] **Int.Cl. C10L 1/06 (2006.01) C10G 35/04 (2006.01)**

[25] EN

[54] **EXTRACTED CONJUNCT POLYMER NAPHTHA**

[54] **NAPHTA POLYMERE CONJOINT EXTRAIT**

[72] TIMKEN, HYE KYUNG CHO, US

[72] DALVAND, IZADYAR, US

[72] CYR, DOUGLAS ROBERT, US

[72] CHENG, MICHAEL TUNG-HAI, US

[72] LUO, HUPING, US

[72] WINTER, SHAWN SHLOMO, US

[72] DRIVER, MICHAEL SEAN, US

[72] MOHR, DONALD HENRY, US

[73] CHEVRON U.S.A. INC., US

[85] 2015-01-02

[86] 2013-06-05 (PCT/US2013/044343)

[87] (WO2014/021985)

[30] US (13/563,415) 2012-07-31

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[11] **2,878,354**  
[13] C

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/44 (2006.01)**

[25] EN

[54] **DUAL SPECTROMETER**

[54] **SPECTROMETRE DOUBLE**

[72] SCHIERING, DAVID W., US

[72] FRAYER, MAXIM, US

[72] ZOU, PENG, US

[73] SMITHS DETECTION, INC., US

[85] 2015-01-02

[86] 2013-07-03 (PCT/US2013/049256)

[87] (WO2014/008359)

[30] US (61/668,693) 2012-07-06

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[13] C

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[25] EN  
[54] **CATIONIC LIPID**  
[54] **LIPIDE CATIONIQUE**  
[72] KUBOYAMA, TAKESHI, JP  
[72] ERA, TOMOHIRO, JP  
[72] NAOI, TOMOYUKI, JP  
[72] YAGI, KAORI, JP  
[72] HOSOE, SHINTARO, JP  
[73] KYOWA KIRIN CO., LTD., JP  
[85] 2015-01-02  
[86] 2013-07-08 (PCT/JP2013/068682)  
[87] (WO2014/007398)  
[30] JP (2012-152423) 2012-07-06  
[30] US (61/789,466) 2013-03-15  
[30] JP (2013-092327) 2013-04-25

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[11] **2,878,435**  
[13] C

[51] **Int.Cl. C07D 413/04 (2006.01) A61K 31/423 (2006.01) A61P 25/00 (2006.01) C07D 413/14 (2006.01)**

[25] EN  
[54] **BENZISOXAZOLE MODULATORS OF NEUROGENESIS**  
[54] **MODULATEURS BENZISOXAZOLE DE LA NEUROGENESE**  
[72] CECCARELLI, SIMONA M., CH  
[72] JAGASIA, RAVI, DE  
[72] JAKOB-ROETNE, ROLAND, DE  
[72] WICHMANN, JUERGEN, DE  
[73] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2015-01-06  
[86] 2013-07-23 (PCT/EP2013/065452)  
[87] (WO2014/016267)  
[30] EP (12177968.0) 2012-07-26

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[13] C

[51] **Int.Cl. B65D 83/04 (2006.01) A61J 7/00 (2006.01)**

[25] EN  
[54] **A RECEPTACLE FOR CONTAINING AND DISPENSING SOLID MEDICINAL PILLS**  
[54] **RECEPTACLE POUR CONTENIR ET DISTRIBUER DES COMPRIMES MEDICINAUX SOLIDES**  
[72] PAZ, ILAN, IL  
[73] P.C.O.A. DEVICES LTD., IL  
[85] 2015-01-08  
[86] 2013-07-24 (PCT/IL2013/050631)  
[87] (WO2014/020594)  
[30] IL (221186) 2012-07-30  
[30] IL (226074) 2013-04-30

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[11] **2,878,923**  
[13] C

[51] **Int.Cl. A47J 43/25 (2006.01) A47J 43/08 (2006.01) A47J 43/10 (2006.01)**

[25] EN  
[54] **DISK GRATER**  
[54] **RAPE CIRCULAIRE**  
[72] HERREN, BRUNO, CH  
[73] GROUPE SEB SCHWEIZ GMBH, CH  
[85] 2015-01-12  
[86] 2013-07-11 (PCT/EP2013/064664)  
[87] (WO2014/009460)  
[30] CH (01076/12) 2012-07-12

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[13] C

[51] **Int.Cl. A47D 13/02 (2006.01) A44B 11/25 (2006.01)**

[25] EN  
[54] **SAFETY BUCKLE DEVICE**  
[54] **DISPOSITIF A BOUCLE DE SECURITE**  
[72] WIKNER, JAKOB, SE  
[72] BERGENS, THOMAS, SE  
[72] ANDREN, MARTEN, SE  
[73] BABYBJORN AB, SE  
[85] 2015-01-12  
[86] 2013-07-03 (PCT/SE2013/050861)  
[87] (WO2014/011104)  
[30] SE (1250818-0) 2012-07-12

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[11] **2,879,104**  
[13] C

[51] **Int.Cl. C07D 209/08 (2006.01) A61K 31/404 (2006.01) A61P 19/08 (2006.01) A61P 21/00 (2006.01) C07D 401/06 (2006.01)**

[25] EN  
[54] **INDOLECARBONITRILES AS SELECTIVE ANDROGEN RECEPTOR MODULATORS**  
[54] **INDOLECARBONITRILES UTILISES COMME MODULATEURS SELECTIFS DES RECEPTEURS AUX ANDROGENES**  
[72] TURNBULL, PHILIP STEWART, US  
[72] CADILLA, RODOLFO, US  
[73] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB  
[85] 2015-01-14  
[86] 2013-07-15 (PCT/IB2013/001530)  
[87] (WO2014/013309)  
[30] US (61/672,455) 2012-07-17  
[30] US (61/748,874) 2013-01-04

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[11] **2,879,293**  
[13] C

[51] **Int.Cl. C08J 5/04 (2006.01) B32B 27/04 (2006.01) C08J 5/24 (2006.01) C08K 7/14 (2006.01) C08L 23/12 (2006.01)**

[25] EN  
[54] **ARTICLES INCLUDING HIGH MELT FLOW INDEX RESINS**  
[54] **ARTICLES COMPRENANT DES RESINES A INDICE D'ECOULEMENT DE FUSION ELEVE**  
[72] KUNAL, KUMAR, US  
[72] MASON, MARK O., US  
[72] HARPER, CORAY, US  
[72] EBELING, THOMAS, US  
[73] HANWHA AZDEL, INC., US  
[85] 2015-01-15  
[86] 2013-07-15 (PCT/US2013/050472)  
[87] (WO2014/014813)  
[30] US (61/672,021) 2012-07-16

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[11] **2,879,583**  
[13] C

[51] **Int.Cl. C07C 277/08 (2006.01) A23L 33/10 (2016.01) A23L 33/12 (2016.01) A61K 31/22 (2006.01) A61K 49/00 (2006.01) A61P 9/10 (2006.01) A61P 25/00 (2006.01) C07C 279/14 (2006.01) C07H 13/04 (2006.01) C11C 3/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING CREATINE FATTY ESTERS, CREATINE FATTY ESTERS THUS PREPARED AND USES THEREOF**

[54] **PROCEDE DE PREPARATION D'ESTERS GRAS DE CREATINE, ESTERS GRAS DE CREATINE AINSI PREPARES ET LEURS UTILISATIONS**

[72] DEZARD, SOPHIE, FR

[72] TARAN, FREDERIC, FR

[72] TROTIER-FAURION, ALEXANDRA, FR

[72] MABONDZO, ALOISE, FR

[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2015-01-20

[86] 2013-07-17 (PCT/EP2013/065109)

[87] (WO2014/019855)

[30] EP (12352002.5) 2012-07-30

[11] **2,879,601**  
[13] C

[51] **Int.Cl. G01N 33/49 (2006.01)**

[25] EN

[54] **DEVICE FOR MONITORING SPATIAL COAGULATION OF BLOOD AND OF COMPONENTS THEREOF**

[54] **DISPOSITIF DE CONTROLE DE LA COAGULATION TRIDIMENSIONNELLE DU SANG ET DE SES COMPOSANTS**

[72] ATAULLAKHANOV, FAZOIL INOYATOVICH, RU

[72] SARBASH, VASILII IVANOVICH, RU

[72] PANTELEEVA, MIKHAIL ALEKSANDROVICH, RU

[72] KARAMZIN, SERGEY SERGEEVICH, RU

[73] OBSHESTVO S OGRANICHENNOY OTVETSTVENNOSTYU «GEMATOLOGICHESKAYA KORPORATSIYA», RU

[85] 2015-01-20

[86] 2013-07-09 (PCT/EA2013/000007)

[87] (WO2014/026697)

[30] EA (201201022) 2012-08-15

[11] **2,879,804**  
[13] C

[51] **Int.Cl. C08F 220/04 (2006.01) C08K 5/05 (2006.01)**

[25] EN

[54] **STABILIZED AQUEOUS WATER CLARIFIER COMPOSITION AND METHODS OF USE**

[54] **COMPOSITION AQUEUSE STABILISEE POUR CLARIFICATEUR D'EAU ET SES PROCEDES D'UTILISATION**

[72] HOYLES, STEPHEN M., US

[72] AYERS, CALLIE M., US

[73] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2015-01-21

[86] 2013-08-20 (PCT/US2013/055718)

[87] (WO2014/035723)

[30] US (61/693,441) 2012-08-27

[11] **2,879,912**  
[13] C

[51] **Int.Cl. G21F 9/00 (2006.01) C23G 1/00 (2006.01) F28G 9/00 (2006.01)**

[25] EN

[54] **METHODS OF REUSING A CLEANING SOLUTION**

[54] **PROCEDES DE REUTILISATION D'UNE SOLUTION DE NETTOYAGE**

[72] VARRIN, ROBERT D., US

[72] LITTLE, MICHAEL J., US

[73] DOMINION ENGINEERING, INC., US

[85] 2015-01-22

[86] 2013-07-25 (PCT/US2013/052117)

[87] (WO2014/018787)

[30] US (61/676,168) 2012-07-26

[30] US (61/676,481) 2012-07-27

[11] **2,879,992**  
[13] C

[51] **Int.Cl. A23C 9/13 (2006.01)**

[25] EN

[54] **NOVEL FERMENTED MILK PRODUCT AND METHOD FOR PRODUCING THE SAME**

[54] **PRODUIT A BASE DE LAIT FERMENTE ET SON PROCEDE DE PRODUCTION**

[72] OHMACHI, AIKO, JP

[72] MATSUYAMA, HIROAKI, JP

[72] MORITA, YOSHIKAZU, JP

[72] ISHIDA, YUKO, JP

[72] NARA, TAKAYUKI, JP

[72] KATO, KEN, JP

[72] SERIZAWA, ATSUSHI, JP

[72] UENO, HIROSHI, JP

[72] URAZONO, HIROSHI, JP

[73] MEGMILK SNOW BRAND CO., LTD., JP

[85] 2015-01-23

[86] 2012-07-31 (PCT/JP2012/069396)

[87] (WO2014/020680)

[11] **2,880,150**  
[13] C

[51] **Int.Cl. B65D 21/02 (2006.01)**

[25] EN

[54] **CONTAINER FOR LIQUIDS**

[54] **RECIPIENT POUR LIQUIDES**

[72] HANSSSEN, HUBERT JOSEPH FRANS, NL

[73] EUROKEG B.V., NL

[85] 2015-01-26

[86] 2013-07-22 (PCT/EP2013/065440)

[87] (WO2014/016261)

[30] EP (12178370.8) 2012-07-27

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25 août 2020**

[11] **2,880,536**

[13] C

- [51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/08 (2006.01) A61L 2/16 (2006.01) A61L 2/20 (2006.01)**
- [25] EN
- [54] **METHODS FOR ORGANIZING THE DISINFECTION OF ONE OR MORE ITEMS CONTAMINATED WITH BIOLOGICAL AGENTS**
- [54] **PROCEDES D'ORGANISATION DE DESINFECTION D'UN OU DE PLUSIEURS ARTICLES CONTAMINES PAR DES AGENTS BIOLOGIQUES**
- [72] JINEDATHA, CHETAN, US
- [73] THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
- [85] 2015-01-29
- [86] 2013-08-01 (PCT/US2013/053307)
- [87] (WO2014/022717)
- [30] US (61/678,558) 2012-08-01

[11] **2,880,997**

[13] C

- [51] **Int.Cl. H01M 8/18 (2006.01)**
- [25] EN
- [54] **REDOX FLOW CELL COMPRISING HIGH MOLECULAR WEIGHT COMPOUNDS AS REDOX PAIR AND SEMIPERMEABLE MEMBRANE FOR STORAGE OF ELECTRICAL ENERGY**
- [54] **PILE A FLUX REDOX COMPRENANT DES COMPOSES MACROMOLECULAIRES COMME COUPLE REDOX ET UNE MEMBRANE SEMIPERMEABLE POUR LE STOCKAGE D'ENERGIE ELECTRIQUE**
- [72] SCHUBERT, ULRICH SIGMAR, DE
- [72] HAGER, MARTIN, DE
- [72] JANOSCHKA, TOBIAS, DE
- [73] JENABATTERIES GMBH, DE
- [85] 2015-02-04
- [86] 2013-07-25 (PCT/EP2013/002206)
- [87] (WO2014/026728)
- [30] DE (102012016317.7) 2012-08-14

[11] **2,881,345**

[13] C

- [51] **Int.Cl. A61B 46/00 (2016.01) A61B 46/10 (2016.01) A61B 50/13 (2016.01) A61B 50/15 (2016.01)**
- [25] EN
- [54] **STERILE DRAPE FOR TWO TIERED HOSPITAL INSTRUMENT TABLE**
- [54] **CHAMP OPERATOIRE STERILE POUR TABLE D'INSTRUMENTS D'HOPITAL A DEUX ETAGES**
- [72] HOUDE, AJAY Y., US
- [72] ROBINSON, JEFFREY S., US
- [72] CORONADO, JOSE LUIS, US
- [72] EDGETT, KEITH J., US
- [72] ROBINSON, JAMES B., US
- [72] O'CONNOR, DENISE E., US
- [73] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY, IE
- [85] 2015-02-06
- [86] 2013-07-31 (PCT/IB2013/056291)
- [87] (WO2014/024095)
- [30] US (61/681,846) 2012-08-10
- [30] US (61/715,974) 2012-10-19
- [30] US (13/710,568) 2012-12-11

[11] **2,881,370**

[13] C

- [51] **Int.Cl. C09D 201/00 (2006.01) C09D 7/61 (2018.01) B05D 1/36 (2006.01) B05D 5/06 (2006.01) C09D 5/29 (2006.01)**
- [25] EN
- [54] **LUSTER COATING COMPOSITION, METHOD FOR PRODUCING MULTI LAYERED COATING FILM THEREWITH, AND MULTI LAYERED COATING FILM**
- [54] **COMPOSITION DE REVETEMENT LUSTREE, PROCEDE DE PRODUCTION D'UN FILM DE REVETEMENT A COUCHES MULTIPLES AVEC LADITE COMPOSITION ET FILM DE REVETEMENT A COUCHES MULTIPLES**
- [72] FUJIWARA, SHINICHI, JP
- [73] NIPPON PAINT AUTOMOTIVE COATINGS CO., LTD., JP
- [85] 2015-02-06
- [86] 2013-08-06 (PCT/JP2013/071260)
- [87] (WO2014/024884)
- [30] JP (2012-174982) 2012-08-07

[11] **2,881,673**

[13] C

- [51] **Int.Cl. G01V 7/06 (2006.01) G01V 3/38 (2006.01) G01V 3/40 (2006.01)**
- [25] EN
- [54] **A METHOD OF PROCESSING GRAVITY GRADIENT DATA**
- [54] **PROCEDE DE TRAITEMENT DE DONNEES DE GRADIENT DE GRAVITE**
- [72] SMITH, ROBERT JAMES, AU
- [72] PAINE, JOHN WILLIAM, AU
- [73] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU
- [85] 2015-02-10
- [86] 2013-09-25 (PCT/AU2013/001096)
- [87] (WO2014/047682)
- [30] AU (2012904183) 2012-09-25

[11] **2,882,166**

[13] C

- [51] **Int.Cl. F02K 1/72 (2006.01)**
- [25] FR
- [54] **THRUST REVERSER DEVICE FIXED STRUCTURE**
- [54] **STRUCTURE FIXE DE DISPOSITIF D'INVERSION DE POUSSEE**
- [72] BUNEL, SERGE, FR
- [72] BELLANGER, ALEXANDRE, FR
- [73] AIRCELLE, FR
- [85] 2015-02-13
- [86] 2013-09-17 (PCT/FR2013/052135)
- [87] (WO2014/044964)
- [30] FR (12/58769) 2012-09-19

[11] **2,882,494**

[13] C

- [51] **Int.Cl. G01V 99/00 (2009.01)**
- [25] EN
- [54] **TEMPERATURE MODELING CONSTRAINED ON GEOPHYSICAL DATA AND KINEMATIC RESTORATION**
- [54] **MODELISATION DE TEMPERATURE LIMITEE SUR DES DONNEES GEOPHYSIQUES ET RESTAURATION CINEMATIQUE**
- [72] WIJK, TORGEIR, NO
- [72] HOKSTAD, KETIL, NO
- [72] DRAEGE, ANDERS, NO
- [72] DUFFAUT, KENNETH, NO
- [72] FICHLER, CHRISTINE, NO
- [72] KYRKJEBO, RUNE, NO
- [73] EQUINOR ENERGY AS, NO
- [85] 2015-02-19
- [86] 2012-08-20 (PCT/EP2012/066178)
- [87] (WO2014/029415)

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[11] **2,882,648**  
[13] C

[51] **Int.Cl. B60C 23/00 (2006.01) B60S 5/04 (2006.01)**  
[25] EN  
[54] **CENTRAL TIRE INFLATION SYSTEM PRESSURE REGULATOR**  
[54] **REGULATEUR DE PRESSION DE SYSTEME DE GONFLAGE PNEUMATIQUE CENTRAL**  
[72] KRANZ, MARK J., US  
[73] EQUALAIRE SYSTEMS, INC., US  
[85] 2015-02-20  
[86] 2013-09-19 (PCT/US2013/060531)  
[87] (WO2014/047240)  
[30] US (61/703,109) 2012-09-19

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[11] **2,883,693**  
[13] C

[51] **Int.Cl. B65D 47/26 (2006.01) B65D 47/20 (2006.01)**  
[25] EN  
[54] **LID OF A CONTAINER**  
[54] **COUVERCLE DE RECIPIENT**  
[72] BRATSCH, CHRISTIAN, AT  
[72] VON RETTBERG, MARC, DE  
[73] XOLUTION GMBH, DE  
[85] 2015-02-27  
[86] 2013-09-13 (PCT/EP2013/069012)  
[87] (WO2014/044606)  
[30] EP (12185214.9) 2012-09-20

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[11] **2,883,702**  
[13] C

[51] **Int.Cl. A61G 7/057 (2006.01) A47C 21/04 (2006.01)**  
[25] EN  
[54] **MULTI-LAYERED PATIENT SUPPORT COVER SHEET SYSTEM**  
[54] **SYSTEME DE SUPPORT POUR PATIENT SOUS FORME D'UNE FEUILLE PROTECTRICE MULTICOUCHE**  
[72] LUCKEMEYER, JAMES A., US  
[72] LOCKE, CHRISTOPHER, GB  
[73] HUNTLEIGH TECHNOLOGY LIMITED, GB  
[85] 2015-02-13  
[86] 2013-08-30 (PCT/US2013/057627)  
[87] (WO2014/036466)  
[30] US (61/695,002) 2012-08-30

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[11] **2,883,716**  
[13] C

[51] **Int.Cl. C03C 17/36 (2006.01)**  
[25] FR  
[54] **SUBSTRATE PROVIDED WITH A STACK HAVING THERMAL PROPERTIES AND AN ABSORBENT LAYER**  
[54] **SUBSTRAT MUNI D'UN EMPILEMENT A PROPRIETES THERMIQUES ET A COUCHE ABSORBANTE**  
[72] JRIBI, RAMZI, FR  
[72] LORENZZI, JEAN-CARLOS, FR  
[73] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2015-02-26  
[86] 2013-09-20 (PCT/FR2013/052175)  
[87] (WO2014/044984)  
[30] FR (1258867) 2012-09-21

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[11] **2,883,956**  
[13] C

[51] **Int.Cl. A61F 9/007 (2006.01) A61M 1/00 (2006.01)**  
[25] EN  
[54] **IRRIGATION SLEEVE AND PHACOEMULSIFICATION NEEDLE WITH SLEEVE RETENTION FEATURES**  
[54] **MANCHON D'IRRIGATION ET AIGUILLE DE PHACOEMULSIFICATION AVEC DES ELEMENTS DE RETENTION DU MANCHON**  
[72] PERKINS, JAMES TAYLOR, US  
[72] LEWIS, ANTHONY K., US  
[73] BAUSCH & LOMB INCORPORATED, US  
[85] 2015-03-03  
[86] 2013-10-25 (PCT/US2013/066806)  
[87] (WO2014/066756)  
[30] US (13/661,493) 2012-10-26

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[11] **2,883,983**  
[13] C

[51] **Int.Cl. G01V 9/02 (2006.01) G06T 7/168 (2017.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR DETECTION AND CHARACTERIZATION OF CHANNEL SYSTEMS**  
[54] **PROCEDES ET SYSTEMES DE DETECTION ET DE CARACTERISATION DE SYSTEMES DE CANAUX**  
[72] SHELEF, EITAN, US  
[72] LOMASK, JESSE, US  
[72] FILDANI, ANDREA, US  
[73] CHEVRON U.S.A. INC., US  
[85] 2015-03-03  
[86] 2013-11-26 (PCT/US2013/071807)  
[87] (WO2014/088877)  
[30] US (13/706,148) 2012-12-05

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[11] **2,883,998**  
[13] C

[51] **Int.Cl. A61K 9/51 (2006.01) B82Y 5/00 (2011.01) A61K 9/10 (2006.01) A61K 9/14 (2006.01) A61K 31/497 (2006.01) A61K 31/58 (2006.01) A61P 17/14 (2006.01)**

[25] EN

[54] **POLYMERIC FINASTERIDE AND MINOXIDIL NANOPARTICLES, METHOD FOR PREPARING SAME, AQUEOUS SUSPENSION CONTAINING SAME, PHARMACEUTICAL COMPOSITION AND USE THEREOF**

[54] **NANOPARTICULE POLYMERE DE FINASTERIDE ET DE MINOXIDIL, PROCEDE POUR SA PREPARATION, SUSPENSION AQUEUSE LA CONTENANT, COMPOSITION PHARMACEUTIQUE, ET SON UTILISATION**

[72] POHLMANN, ADRIANA RAFFIN, BR

[72] JORNADA, DENISE SOLEDADE, BR

[72] NASCIMENTO, LUDMILA PINHEIRO DO, BR

[72] GUTERRES, SILVIA STANISCUASKI, BR

[73] UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS, BR

[73] BIOLAB SANUS FARMACEUTICA LTDA., BR

[85] 2015-02-26

[86] 2013-08-30 (PCT/BR2013/000335)

[87] (WO2014/032152)

[30] BR (BR102012022036-9) 2012-08-31

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[11] **2,884,417**  
[13] C

[51] **Int.Cl. E21B 19/16 (2006.01) E21B 19/20 (2006.01) E21B 19/24 (2006.01)**

[25] EN

[54] **METHOD OF INTERCONNECTING A DRILL ROD WITH A DRILL STRING BY MEANS OF A THREADED CONNECTION, ROD HANDLING SYSTEM AND DRILL RIG**

[54] **PROCEDE POUR RACCORDER UNE TIGE DE FORAGE ET UN TRAIN DE TIGES DE FORAGE AU MOYEN D'UN RACCORD FILETE, SYSTEME DE MANIPULATION DE TIGE ET PLATEFORME DE FORAGE**

[72] EVERMARK, KENT, SE

[72] ROSMARK, PETER, SE

[72] VILEN, PER, SE

[73] SANDVIK INTELLECTUAL PROPERTY AB, SE

[85] 2015-03-10

[86] 2013-09-06 (PCT/EP2013/068485)

[87] (WO2014/048697)

[30] EP (12186110.8) 2012-09-26

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[11] **2,884,606**  
[13] C

[51] **Int.Cl. A61B 6/03 (2006.01) A61B 5/026 (2006.01) A61B 5/0275 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DIAGNOSING STROKES**

[54] **SYSTEMES ET PROCEDES DE DIAGNOSTIC D'ACCIDENTS VASCULAIRES CEREBRAUX**

[72] GOYAL, MAYANK, CA

[73] MG STROKE ANALYTICS INC., CA

[85] 2015-03-04

[86] 2013-09-04 (PCT/CA2013/000761)

[87] (WO2014/036638)

[30] US (61/697,282) 2012-09-05

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[11] **2,884,744**  
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) F24F 11/88 (2018.01) H01H 47/32 (2006.01) H02J 7/00 (2006.01) G05D 23/19 (2006.01)**

[25] EN

[54] **ENERGY HARVESTING LOAD CONTROL SWITCH**

[54] **COMMUTATEUR DE COMMANDE DE CHARGE DE COLLECTE D'ENERGIE**

[72] BRANDT, NATHAN ALLEN, US

[72] LUCAS, RICHARD WILLIAM, US

[72] JOHNSON, JUSTIN BRUCE, US

[72] JONASSON, BRENT THOMAS, US

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2015-03-11

[86] 2013-09-24 (PCT/US2013/061279)

[87] (WO2014/047604)

[30] US (13/625,397) 2012-09-24

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[11] **2,884,924**  
[13] C

[51] **Int.Cl. C09K 3/32 (2006.01) C09K 8/588 (2006.01)**

[25] EN

[54] **HYDROCARBON-BASED ADHERENTS REMOVED FROM A SOLID SUBSTRATE**

[54] **ADHESIFS A BASE D'HYDROCARBURE RETIRES D'UN SUBSTRAT SOLIDE**

[72] ALJUBORI, AHMED, CA

[72] JASKA, CORY, CA

[72] COBOS, SYGIFREDO, CA

[73] OILFLOW SOLUTIONS INC., CA

[85] 2015-03-13

[86] 2013-12-18 (PCT/GB2013/053331)

[87] (WO2014/096813)

[30] GB (1223171.8) 2012-12-21

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[11] **2,885,178**  
[13] C

[51] **Int.Cl. F03G 7/06 (2006.01)**  
[25] EN  
[54] **THERMOACOUSTIC  
TRANSDUCER APPARATUS  
INCLUDING A TRANSMISSION  
DUCT**  
[54] **APPAREIL TRANSDUCTEUR  
THERMO-ACOUSTIQUE  
COMPRENANT UNE CONDUITE  
DE TRANSMISSION**  
[72] STEINER, THOMAS WALTER, CA  
[72] MEDARD DE CHARDON, BRIAC,  
CA  
[72] GOTTFRIED, KRISTJAN TOD, CA  
[72] KLOPFER, RONALD GREGORY, CA  
[73] ETALIM INC., CA  
[85] 2015-03-16  
[86] 2013-09-17 (PCT/CA2013/000794)  
[87] (WO2014/043790)  
[30] US (61/702,918) 2012-09-19

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[11] **2,885,291**  
[13] C

[51] **Int.Cl. C25B 1/13 (2006.01) C25B 1/26  
(2006.01) C25B 1/30 (2006.01) C25B  
11/04 (2006.01)**  
[25] EN  
[54] **ELECTROLYTIC CELL  
EQUIPPED WITH  
MICROELECTRODES**  
[54] **CELLULE ELECTROLYTIQUE  
POURVUE DE  
MICROELECTRODES**  
[72] GULLA, ANDREA FRANCESCO, US  
[73] INDUSTRIE DE NORA S.P.A., IT  
[85] 2015-03-17  
[86] 2013-11-08 (PCT/EP2013/073356)  
[87] (WO2014/072458)  
[30] IT (MI2012A001909) 2012-11-09

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[11] **2,885,450**  
[13] C

[51] **Int.Cl. F24F 11/41 (2018.01) F24F  
11/81 (2018.01) F24F 11/86 (2018.01)  
F25B 49/02 (2006.01) G05D 23/19  
(2006.01)**  
[25] EN  
[54] **SYSTEM FOR OPERATING AN  
HVAC SYSTEM HAVING  
TANDEM COMPRESSORS**  
[54] **SYSTEME DE  
FONCTIONNEMENT D'UN  
SYSTEME CVCA COMPORTANT  
DES COMPRESSEURS EN  
TANDEM**  
[72] HUNG, DER-KAI, US  
[72] HAVARD, HAROLD GENE, US  
[72] LEAL, ROSA MARIA, US  
[73] LENNOX INDUSTRIES INC., US  
[86] (2885450)  
[87] (2885450)  
[22] 2015-03-19  
[30] US (14/221,862) 2014-03-21

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[11] **2,885,735**  
[13] C

[51] **Int.Cl. G05D 16/06 (2006.01)**  
[25] EN  
[54] **BALANCED VALVE PORT FOR  
FLUID REGULATOR**  
[54] **ORIFICE DE VANNE EQUILIBRE  
POUR REGULATEUR DE FLUIDE**  
[72] NGUYEN, TUNG K., US  
[72] MEVIUS, JASON S., US  
[72] ZHOU, BIAO, CN  
[73] EMERSON PROCESS  
MANAGEMENT REGULATOR  
TECHNOLOGIES, INC., US  
[85] 2015-03-20  
[86] 2013-09-27 (PCT/US2013/062109)  
[87] (WO2014/052714)  
[30] CN (201210377054.0) 2012-09-28  
[30] US (13/659,041) 2012-10-24

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[11] **2,885,840**  
[13] C

[51] **Int.Cl. C07D 275/02 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PRODUCING  
ISOTHIAZOLE COMPOUND**  
[54] **PROCEDE DE FABRICATION  
D'UN COMPOSE D'ISOTHIAZOLE**  
[72] ABE, TAKASHI, JP  
[73] KUMIAI CHEMICAL INDUSTRY  
CO., LTD., JP  
[85] 2015-03-24  
[86] 2013-10-04 (PCT/JP2013/005925)  
[87] (WO2014/054294)  
[30] JP (2012-223321) 2012-10-05

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[11] **2,885,857**  
[13] C

[51] **Int.Cl. C07D 403/12 (2006.01) A01N  
43/713 (2006.01) A01N 43/90  
(2006.01) A01P 17/00 (2006.01) C07D  
231/14 (2006.01) C07D 231/16  
(2006.01) C07D 257/04 (2006.01)  
C07D 498/04 (2006.01)**  
[25] EN  
[54] **TETRAZOLINONE COMPOUNDS  
AND THEIR USE AS PESTICIDES**  
[54] **COMPOSES DE TETRAZOLINONE  
ET LEUR UTILISATION COMME  
PESTICIDES**  
[72] ARIMORI, SADAYUKI, JP  
[72] SHIODA, TAKAYUKI, JP  
[73] SUMITOMO CHEMICAL  
COMPANY, LIMITED, JP  
[85] 2015-03-23  
[86] 2013-09-27 (PCT/JP2013/077014)  
[87] (WO2014/051165)  
[30] JP (2012-216038) 2012-09-28  
[30] JP (2012-280707) 2012-12-25  
[30] JP (2013-115179) 2013-05-31  
[30] JP (2013-140423) 2013-07-04

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[11] **2,885,968**  
[13] C

[51] **Int.Cl. H04L 12/70 (2013.01)**  
[25] EN  
[54] **DATA PACKET TRANSPORT AND  
DELIVERY SYSTEM AND  
METHOD**  
[54] **SYSTEME ET PROCEDE DE  
TRANSPORT ET DE  
DISTRIBUTION DE PAQUET DE  
DONNEES**  
[72] SILVERS, DAVID, US  
[73] SILVERSMITH, INC., US  
[85] 2015-03-13  
[86] 2013-09-13 (PCT/US2013/059586)  
[87] (WO2014/043430)  
[30] US (61/700,942) 2012-09-14

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[11] **2,886,147**  
[13] C

[51] **Int.Cl. H04W 28/08 (2009.01) H04W 72/04 (2009.01) H04W 92/20 (2009.01) H04W 76/14 (2018.01)**

[25] EN

[54] **OPTIMIZED CONTROL SYSTEM FOR AGGREGATION OF MULTIPLE BROADBAND CONNECTIONS OVER RADIO INTERFACES**

[54] **SYSTEME DE GESTION OPTIMISE POUR L'AGREGATION DE MULTIPLES CONNEXIONS LARGE BANDE SUR DES INTERFACES RADIO**

[72] KERPEZ, KENNETH, US

[72] CHIANG, MUNG, US

[73] ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC., US

[85] 2015-03-25

[86] 2012-09-29 (PCT/US2012/058157)

[87] (WO2014/051630)

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[11] **2,886,300**  
[13] C

[51] **Int.Cl. F01D 17/16 (2006.01) F02C 6/18 (2006.01) F02C 7/36 (2006.01) F02C 9/20 (2006.01)**

[25] EN

[54] **A TURBOEXPANDER AND DRIVEN TURBOMACHINE SYSTEM**

[54] **SYSTEME DE TURBODETENDEUR ET DE TURBOMACHINE ENTRAINEE**

[72] MARIOTTI, GABRIELE, IT

[72] DEL TURCO, PAOLO, IT

[72] BERTI, MATTEO, IT

[72] LANDI, GIACOMO, NO

[73] NUOVO PIGNONE SRL, IT

[85] 2015-03-26

[86] 2013-09-27 (PCT/EP2013/070265)

[87] (WO2014/053421)

[30] IT (FI2012A000196) 2012-10-01

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[11] **2,886,416**  
[13] C

[51] **Int.Cl. G01V 5/12 (2006.01)**

[25] EN

[54] **METHOD FOR DETECTING FRACTURES IN A SUBTERRANEAN FORMATION**

[54] **PROCEDE DE DETECTION DE FRACTURES DANS UNE FORMATION SOUTERRAINE**

[72] SMAARDYK, JOHN EDWARD, US

[72] STEINMAN, DONALD K., US

[72] HERTZOG, RUSSEL, JR., US

[73] GE OIL & GAS LOGGING SERVICES, INC., US

[85] 2015-03-26

[86] 2013-10-03 (PCT/US2013/063162)

[87] (WO2014/055712)

[30] US (13/645,248) 2012-10-04

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[11] **2,886,853**  
[13] C

[51] **Int.Cl. B23B 45/14 (2006.01) B23B 47/28 (2006.01) B23B 49/02 (2006.01)**

[25] EN

[54] **MULTI-PURPOSE LAYOUT TOOL AND DRILL GUIDE, AND RELATED COMPONENTS**

[54] **OUTIL DE DISPOSITIF MULTIUSAGE ET GUIDE DE FORAGE, ET COMPOSANTES ASSOCIEES**

[72] ADKIN, ROBERT WILLIAM, CA

[73] ADKIN, ROBERT WILLIAM, CA

[86] (2886853)

[87] (2886853)

[22] 2015-03-31

[30] US (61/975,075) 2014-04-04

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[11] **2,887,280**  
[13] C

[51] **Int.Cl. F04D 29/04 (2006.01) F04D 13/08 (2006.01) F04D 29/40 (2006.01) F16C 33/02 (2006.01)**

[25] EN

[54] **APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY**

[54] **APPAREIL ET SYSTEME DESTINES A UN DISPOSITIF DE POMPE DE SURFACE HORIZONTALE ABSORBANT LA POUSSEE**

[72] ST. JOHN, BRENT DAVID, US

[72] NICHOLSON, RYAN MICHAEL, US

[72] LUNK, DAVID, US

[72] PARMETER, LARRY JAMES, US

[72] LEAMY, BRETT, US

[72] JOHNSON, KEITH LEON, US

[72] KENNER, JOHN VANDERSTAAY, US

[72] GOTTSCHALK, THOMAS JOHN, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[86] (2887280)

[87] (2887280)

[22] 2015-04-02

[30] US (61/974,907) 2014-04-03

[30] US (14/274,233) 2014-05-09

[30] US (14/657,835) 2015-03-13

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[11] **2,887,601**  
[13] C

[51] **Int.Cl. B28C 7/02 (2006.01) B28C 5/00 (2006.01)**

[25] EN

[54] **SNEAK WATER DETECTION FOR CONCRETE DELIVERY VEHICLES**

[54] **DETECTION D'EAU INSIDIEUSE POUR VEHICULES DE DISTRIBUTION DE BETON**

[72] JORDAN, RICHARD K., US

[72] ROBERTS, MARK F., US

[72] KOEHLER, ERIC P., US

[73] VERIFI LLC, US

[85] 2015-04-08

[86] 2013-10-11 (PCT/US2013/064587)

[87] (WO2014/062507)

[30] US (61/713,914) 2012-10-15

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August 25, 2020**

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[11] **2,887,644**  
[13] C

[51] **Int.Cl. B26B 29/02 (2006.01) B26B 5/00 (2006.01)**  
[25] EN  
[54] **HAND CUTTER WITH BLADE GUARD**  
[54] **CUTTER A MAIN DOTE D'UN PROTEGE-LAME**  
[72] LANDWEHR, THOMAS JAY, US  
[73] RITESAFETY PRODUCTS INTERNATIONAL, LLC, US  
[85] 2015-04-09  
[86] 2013-10-16 (PCT/IB2013/059382)  
[87] (WO2014/060957)  
[30] US (13/654,523) 2012-10-18

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[11] **2,887,887**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 1/00 (2006.01) A61P 3/10 (2006.01) A61P 25/04 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **PYRAZOLOPYRIDINE DERIVATIVES AS TTX-S BLOCKERS**  
[54] **DERIVES DE PYRAZOLOPYRIDINE EN TANT QUE BLOQUANTS DE TTX-S**  
[72] KAWAMURA, KIYOSHI, JP  
[72] YAMAGISHI, TATSUYA, JP  
[72] ARANO, YOSHIMASA, JP  
[72] MORITA, MIKIO, JP  
[73] RAQUALIA PHARMA INC., JP  
[85] 2015-04-09  
[86] 2013-10-31 (PCT/JP2013/006475)  
[87] (WO2014/068988)  
[30] US (61/720,974) 2012-10-31

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[11] **2,888,118**  
[13] C

[51] **Int.Cl. A61B 5/055 (2006.01) G16H 50/20 (2018.01) A61B 5/00 (2006.01) G01R 33/563 (2006.01)**  
[25] FR  
[54] **METHOD FOR QUANTIFYING BRAIN INJURIES**  
[54] **PROCEDE DE QUANTIFICATION DES LESIONS CEREBRALES**  
[72] PUYBASSET, LOUIS, FR  
[72] GALANAUD, DAMIEN, FR  
[72] BENALI, HABIB, FR  
[72] PERLBARG, VINCENT, FR  
[72] LEHERICY, STEPHANE, FR  
[73] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR  
[85] 2015-04-10  
[86] 2013-10-15 (PCT/FR2013/052454)  
[87] (WO2014/060695)  
[30] FR (1259910) 2012-10-17  
[30] FR (1351046) 2013-02-07  
[30] FR (1351047) 2013-02-07

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[11] **2,888,432**  
[13] C

[51] **Int.Cl. B01J 8/00 (2006.01)**  
[25] FR  
[54] **MANAGEMENT OF THE CHARGING OF A REACTOR WITH SOLID PARTICLES**  
[54] **GESTION DU CHARGEMENT EN PARTICULES SOLIDES D'UN REACTEUR**  
[72] MAIRESSE, JULIEN, FR  
[72] LEROY, PASCAL, FR  
[73] TOTAL RAFFINAGE CHIMIE, FR  
[85] 2015-04-15  
[86] 2013-10-28 (PCT/FR2013/052570)  
[87] (WO2014/068232)  
[30] FR (1260313) 2012-10-29

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[11] **2,888,536**  
[13] C

[51] **Int.Cl. E01H 5/06 (2006.01) B60D 3/00 (2006.01)**  
[25] EN  
[54] **SUPPORT FRAME FOR AN IMPLEMENT**  
[54] **CADRE DE SOUTIEN POUR UN ACCESSOIRE**  
[72] GENDRON, JEAN-PHILIPPE, CA  
[72] AUBIN-MARCHAND, JEREMIE, CA  
[72] ROY, NORMAND, CA  
[73] SOUCY INTERNATIONAL INC., CA  
[86] (2888536)  
[87] (2888536)  
[22] 2013-02-21  
[62] 2,808,025  
[30] US (61/601,086) 2012-02-21

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[11] **2,888,764**  
[13] C

[51] **Int.Cl. F25B 49/02 (2006.01) F24F 1/10 (2011.01) F16N 25/00 (2006.01) F25B 5/02 (2006.01) F25B 6/02 (2006.01) F25B 31/00 (2006.01) F25B 43/02 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR MANAGING LUBRICANT LEVELS IN TANDEM COMPRESSOR ASSEMBLIES OF AN HVAC SYSTEM**  
[54] **MECANISME DE GESTION DES NIVEAUX DE LUBRIFIANT DANS LES DISPOSITIFS DE COMPRESSION EN TANDEM D'UN SYSTEME CVCA**  
[72] HIM, AYLAN, US  
[72] HUNG, DER-KAI, US  
[72] MACKAY, DAVID, US  
[72] HONG, LIN, US  
[73] LENNOX INDUSTRIES INC., US  
[86] (2888764)  
[87] (2888764)  
[22] 2015-04-21  
[30] US (14/293,099) 2014-06-02



**Brevets canadiens délivrés  
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[11] **2,889,508**  
[13] C

[51] **Int.Cl. E21B 1/26 (2006.01) B25D 9/14 (2006.01) B25D 9/26 (2006.01)**

[25] EN

[54] **PERCUSSION DEVICE FOR A HYDRAULIC ROCK DRILLING MACHINE, METHOD OF OPERATION OF A PERCUSSION DEVICE AND HYDRAULIC ROCK DRILLING MACHINE INCLUDING A PERSUSSION DEVICE**

[54] **DISPOSITIF A PERCUSSION POUR UNE PERFORATRICE DE ROCHES HYDRAULIQUE, PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF A PERCUSSION ET PERFORATRICE DE ROCHES HYDRAULIQUE COMPRENANT LEDITDISPOSITIF A PERCUSSION**

[72] JOHANSSON, THOMAS, SE

[73] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2015-04-24

[86] 2013-10-30 (PCT/SE2013/051265)

[87] (WO2014/084772)

[30] SE (1251341-2) 2012-11-28

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[11] **2,889,747**  
[13] C

[51] **Int.Cl. D21H 17/37 (2006.01) D21H 17/29 (2006.01) D21H 21/18 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING A FIBRE STOCK FOR MAKING OF PAPER, BOARD OR THE LIKE AND PRODUCT**

[54] **PROCEDE POUR LE TRAITEMENT D'UNE PATE DE FIBRES POUR LA FABRICATION DE PAPIER, DE CARTON OU SIMILAIRE ET PRODUIT CORRESPONDANT**

[72] HIETANIEMI, MATTI, FI

[72] VIRTANEN, MIKKO, FI

[72] SARANPAA, EMMI, FI

[73] KEMIRA OYJ, FI

[85] 2015-04-27

[86] 2013-11-12 (PCT/FI2013/051067)

[87] (WO2014/072587)

[30] FI (20126180) 2012-11-12

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[11] **2,889,812**  
[13] C

[51] **Int.Cl. H01Q 1/28 (2006.01) B64G 1/22 (2006.01) H01Q 15/16 (2006.01)**

[25] EN

[54] **LARGE DEPLOYABLE REFLECTOR FOR A SATELLITE ANTENNA**

[54] **GRAND REFLECTEUR DEPLOYABLE POUR UNE ANTENNE SATELLITE**

[72] MESCHINI, ALBERTO, IT

[72] RIGATO, RICCARDO, IT

[72] SCAROZZA, DAVIDE, IT

[73] THALES ALENIA SPACE ITALIA S.P.A. CON UNICO SOCIO, IT

[85] 2015-04-28

[86] 2013-11-04 (PCT/IB2013/059894)

[87] (WO2014/068538)

[30] EP (12425177.8) 2012-11-05

[30] EP (13159073.9) 2013-03-13

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[11] **2,890,382**  
[13] C

[51] **Int.Cl. E06B 3/92 (2006.01)**

[25] EN

[54] **SLIDE GUIDE FRAME PORTION OF SCREEN DEVICE**

[54] **SECTION CHASSIS DE GUIDAGE DE COULISSEMENT POUR DISPOSITIFS TAMIS**

[72] OKACHI, YASUBUMI, JP

[72] WATANABE, MITSU HARU, JP

[73] METACO INC., JP

[85] 2015-05-04

[86] 2013-10-17 (PCT/JP2013/078157)

[87] (WO2014/069242)

[30] JP (2012-243837) 2012-11-05

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[11] **2,890,585**  
[13] C

[51] **Int.Cl. H02P 5/00 (2016.01) F04B 49/00 (2006.01) H02P 5/747 (2006.01) H02P 29/00 (2016.01)**

[25] EN

[54] **SYSTEM COMPRISING A FIRST ELECTRIC MOTOR AND A SECOND ELECTRIC MOTOR FOR DRIVING A STRING**

[54] **SYSTEME COMPORTANT UN PREMIER MOTEUR ELECTRIQUE ET UN DEUXIEME MOTEUR ELECTRIQUE POUR ENTRAINER UN ENSEMBLE D'ELEMENTS ROTATIFS**

[72] PIEDER, JOERG, CH

[72] BELLI, PAOLO, IT

[73] ABB SCHWEIZ AG, CH

[85] 2015-05-01

[86] 2013-11-07 (PCT/EP2013/073276)

[87] (WO2014/072409)

[30] EP (12191670.4) 2012-11-07

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[11] **2,890,726**  
[13] C

[51] **Int.Cl. A01G 31/02 (2006.01)**

[25] EN

[54] **GROWING SYSTEM AND METHOD FOR GROWING PLANTS ON WATER**

[54] **SYSTEME DE CULTURE ET PROCEDE DE CULTURE DE PLANTES SUR L'EAU**

[72] BOTMAN, JOHANNES PETRUS MARIA, NL

[73] JALMAJA HOLDING B.V., NL

[85] 2015-05-07

[86] 2013-11-13 (PCT/NL2013/050814)

[87] (WO2014/077682)

[30] NL (2009795) 2012-11-13

[30] NL (2010567) 2013-04-04

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[11] **2,890,811**  
[13] C

[51] **Int.Cl. B65G 69/34 (2006.01) B60P 1/43 (2006.01)**

[25] EN

[54] **TRACTION DEVICE**

[54] **DISPOSITIF A TRACTION**

[72] DELANGHE, ERNEST J., US

[72] DATHE, PAUL, US

[73] CALIBER, INC., US

[86] (2890811)

[87] (2890811)

[22] 2015-05-08

[30] US (61/990446) 2014-05-08

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[11] **2,890,910**  
[13] C

[51] **Int.Cl. B65D 5/491 (2006.01) B65D 5/48 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR WINE BOTTLE PACKAGING AND DISPLAY**  
[54] **PROCEDE ET APPAREIL D'EMBALLAGE ET DE PRESENTATION DE BOUTEILLE DE VIN**  
[72] RUIJSSENAARS, ROBERT, US  
[72] BRADY, JENNIFER, US  
[72] LEE, ALEX, US  
[72] ADDIS, ROYAL, US  
[72] HOFFMAN, LAURA, US  
[72] THOMPSON, DOUG, US  
[72] JONES, BENJAMIN, US  
[73] E. & J. GALLO WINERY, US  
[85] 2015-05-08  
[86] 2013-11-06 (PCT/US2013/068640)  
[87] (WO2014/074545)  
[30] US (13/672,673) 2012-11-08

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[11] **2,891,492**  
[13] C

[51] **Int.Cl. B01D 53/22 (2006.01) C10L 3/10 (2006.01)**  
[25] EN  
[54] **CONTROL OF GAS COMPOSITION OF A GAS SEPARATION SYSTEM HAVING MEMBRANES**  
[54] **COMMANDE DE LA COMPOSITION GAZEUSE D'UNE INSTALLATION DE SEPARATION DE GAZ AU MOYEN DE MEMBRANES**  
[72] UNGERANK, MARKUS, AT  
[72] ROEGL, HARALD, AT  
[73] EVONIK FIBRES GMBH, AT  
[85] 2015-05-14  
[86] 2013-10-09 (PCT/EP2013/071039)  
[87] (WO2014/075850)  
[30] EP (12192571.3) 2012-11-14  
[30] EP (13167835.1) 2013-05-15

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[11] **2,891,514**  
[13] C

[51] **Int.Cl. A61K 31/7034 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **COMPOUNDS, COMPOSITIONS AND METHODS USING E-SELECTIN ANTAGONISTS FOR MOBILIZATION OF HEMATOPOIETIC CELLS**  
[54] **COMPOSES, COMPOSITIONS ET PROCEDES UTILISANT DES ANTAGONISTES D'E-SELECTINE POUR LA MOBILISATION DE CELLULES HEMATOPOIETIQUES**  
[72] MAGNANI, JOHN L., US  
[73] GLYCOMIMETICS, INC., US  
[85] 2015-05-13  
[86] 2013-12-05 (PCT/US2013/073258)  
[87] (WO2014/089269)  
[30] US (61/734,924) 2012-12-07  
[30] US (61/784,206) 2013-03-14

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[11] **2,891,532**  
[13] C

[51] **Int.Cl. F16C 33/00 (2006.01) F16C 35/00 (2006.01)**  
[25] EN  
[54] **SENSOR BEARING ASSEMBLY WITH COVER MOUNTED SENSOR**  
[54] **ENSEMBLE PALIER A CAPTEUR MONTE SUR UN COUVERCLE**  
[72] GROVE, FRANS, US  
[72] KLINGLMAIR, ERICH, AT  
[72] PICHLER, ANDREAS, AT  
[73] AKTIEBOLAGET SKF, SE  
[85] 2015-05-14  
[86] 2013-11-14 (PCT/US2013/070159)  
[87] (WO2014/078574)  
[30] US (13/677,903) 2012-11-15

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[11] **2,891,536**  
[13] C

[51] **Int.Cl. F21V 9/02 (2018.01) F21V 3/06 (2018.01) E04B 9/32 (2006.01) E06B 7/28 (2006.01) F21S 8/02 (2006.01) F21V 7/00 (2006.01)**  
[25] EN  
[54] **ARTIFICIAL LIGHTING SYSTEM FOR SIMULATING A NATURAL LIGHTING**  
[54] **SYSTEME D'ECLAIRAGE ARTIFICIEL POUR SIMULATION D'UN ECLAIRAGE NATUREL**  
[72] DI TRAPANI, PAOLO, IT  
[72] MAGATTI, DAVIDE, IT  
[73] COELUX S.R.L., IT  
[85] 2015-05-14  
[86] 2013-11-14 (PCT/IB2013/060141)  
[87] (WO2014/076656)  
[30] IT (TO2012A000988) 2012-11-14  
[30] US (13/838,998) 2013-03-15

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[11] **2,891,760**  
[13] C

[51] **Int.Cl. F04D 29/063 (2006.01) F04D 29/16 (2006.01)**  
[25] FR  
[54] **SEALING ASSEMBLY FOR TURBOMACHINE**  
[54] **ASSEMBLAGE D'ETANCHEITE POUR TURBOMACHINE**  
[72] BRILLET, CHRISTOPHE MICHEL  
GEORGES MARCEL, FR  
[72] CHABANNE, PIERRE, FR  
[72] GIRARDOT, JULIEN, FR  
[72] SCULLER, LIONEL, FR  
[73] TURBOMECA, FR  
[85] 2015-05-14  
[86] 2013-12-18 (PCT/FR2013/053174)  
[87] (WO2014/096708)  
[30] FR (1262620) 2012-12-21

**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,892,670**  
[13] C

[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01)**  
[25] EN  
[54] **TUBULAR CONNECTION WITH HELICALLY EXTENDING TORQUE SHOULDER**  
[54] **LIAISON TUBULAIRE COMPORTANT UN EPAULEMENT DE COUPLE S'ETENDANT DE FACON HELICOIDALE**  
[72] HOU, FU J., US  
[72] BANKER, EDWARD O., US  
[73] ULTRA PREMIUM OILFIELD SERVICES, LTD., US  
[85] 2015-05-26  
[86] 2013-11-25 (PCT/US2013/071652)  
[87] (WO2014/085314)  
[30] US (61/730,720) 2012-11-28  
[30] US (13/798,330) 2013-03-13

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[11] **2,892,674**  
[13] C

[51] **Int.Cl. B01D 17/02 (2006.01) B01D 11/04 (2006.01) B01D 17/025 (2006.01) E03F 5/10 (2006.01)**  
[25] EN  
[54] **WASTE REMOVAL SYSTEM FOR FAT, OIL, AND GREASE**  
[54] **SYSTEME D'ELIMINATION DES DECHETS POUR CORPS GRAS, HUILES ET GRAISSESES**  
[72] BATTEN, WILLIAM C., US  
[72] KYLES, BRUCE W., US  
[73] THERMACO, INC., US  
[85] 2015-05-26  
[86] 2013-11-25 (PCT/US2013/071693)  
[87] (WO2014/082037)  
[30] US (61/729,681) 2012-11-26  
[30] US (14/088,899) 2013-11-25

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[13] C

[51] **Int.Cl. A61C 5/40 (2017.01) A61C 5/42 (2017.01)**  
[25] FR  
[54] **INSTRUMENT FOR BORING DENTAL ROOT CANALS**  
[54] **INSTRUMENT POUR L'ALEPAGE DES CANAUX RADICULAIRES DENTAIRES**  
[72] ROTA, GILBERT, FR  
[72] VALLOTTON, PAUL-HENRI, CH  
[73] MAILLEFER INSTRUMENTS HOLDING SARL, CH  
[85] 2015-05-27  
[86] 2013-06-07 (PCT/IB2013/001191)  
[87] (WO2014/118591)  
[30] IB (PCT/IB2013/000108) 2013-01-30

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[11] **2,893,478**  
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/191 (2006.01) A61K 47/02 (2006.01) A61K 47/12 (2006.01)**  
[25] EN  
[54] **DIALYSIS COMPOSITION**  
[54] **COMPOSITION DE DIALYSE**  
[72] FORSBACK, GUNITA, SE  
[72] HANCOCK, VIKTORIA, SE  
[72] WIESLANDER, ANDERS, SE  
[72] LINDEN, TORBJORN, SE  
[73] GAMBRO LUNDIA AB, SE  
[85] 2015-06-02  
[86] 2013-12-18 (PCT/EP2013/077019)  
[87] (WO2014/095953)  
[30] SE (1251447-7) 2012-12-18  
[30] US (61/738,572) 2012-12-18

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[13] C

[51] **Int.Cl. B23K 26/14 (2014.01)**  
[25] FR  
[54] **LASER WELDING HEAD AND PROCESS**  
[54] **TETE ET PROCEDE DE SOUDAGE LASER**  
[72] CHANTELOUP, DENIS LUC ALAIN, FR  
[72] DUBOURDIEU, JEAN MARC, FR  
[72] LAMAISON, OLIVIER, FR  
[72] VALLY, CHRISTIAN, FR  
[73] TURBOMECA, FR  
[85] 2015-06-08  
[86] 2013-12-16 (PCT/FR2013/053090)  
[87] (WO2014/096653)  
[30] FR (1262368) 2012-12-19

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[51] **Int.Cl. H01H 69/01 (2006.01) H01H 71/74 (2006.01) H01H 11/00 (2006.01)**  
[25] EN  
[54] **TRIP DEVICE SUPPORT FRAME AND TOP FRAME CALIBRATION METHOD**  
[54] **ARMATURE DE SUPPORT DE DISPOSITIF DECLENCHEUR ET PROCEDE D'ETALONNAGE D'ARMATURE SUPERIEURE**  
[72] MALONEY, JAMES GERARD, US  
[73] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2015-06-09  
[86] 2014-02-07 (PCT/US2014/015262)  
[87] (WO2014/143462)  
[30] US (13/798,192) 2013-03-13

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[13] C

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/04 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **SLIDING SLEEVE HAVING DEFORMABLE BALL SEAT**  
[54] **MANCHON COULISSANT AYANT UN SIEGE DE ROTULE DEFORMABLE**  
[72] CROWLEY, SCOTT, US  
[72] WARD, DAVID, US  
[72] GARCIA, CESAR G., US  
[72] GREENAN, IAIN M., US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[85] 2015-06-11  
[86] 2013-12-13 (PCT/US2013/074898)  
[87] (WO2014/093758)  
[30] US (61/736,993) 2012-12-13

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[11] **2,895,405**  
[13] C

[51] **Int.Cl. A41D 13/06 (2006.01) A41D 13/05 (2006.01)**  
[25] EN  
[54] **KNEE PAD SUPPORT FRAME**  
[54] **ARMATURE DE SUPPORT POUR GENOUILLERE**  
[72] RICHARDS, LEE, US  
[73] RICHARDS, LEE, US  
[85] 2015-06-16  
[86] 2014-01-02 (PCT/US2014/010010)  
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[30] US (13/732,640) 2013-01-02

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[13] C

[51] **Int.Cl. H02K 5/22 (2006.01) F04B 17/03 (2006.01) H02K 5/10 (2006.01) H02K 5/24 (2006.01) H02K 7/14 (2006.01)**

[25] EN

[54] **ELECTRIC MOTOR AND ELECTRIC PUMP**

[54] **MOTEUR ELECTRIQUE ET POMPE ELECTRIQUE**

[72] ISHIZEKI, MASAKI, JP  
[72] SHINDO, YOICHI, JP  
[72] SHIBUYA, SHINJI, JP  
[72] HIROTA, KEN, JP  
[72] TAKAHASHI, ATSUSHI, JP  
[72] MASUYAMA, YUZURU, JP  
[72] IJIMA, TOMOO, JP  
[72] YAMAMOTO, KEN, JP  
[72] SADAKATA, NOBUYASU, JP  
[72] ENKAKU, SHIGEYUKI, JP  
[73] MITSUBA CORPORATION, JP  
[85] 2015-06-25  
[86] 2013-12-25 (PCT/JP2013/084724)  
[87] (WO2014/104121)  
[30] JP (2012-288315) 2012-12-28  
[30] JP (2012-288316) 2012-12-28  
[30] JP (2013-003792) 2013-01-11  
[30] JP (2013-204809) 2013-09-30  
[30] JP (2013-242063) 2013-11-22  
[30] JP (2013-243926) 2013-11-26  
[30] JP (2013-244297) 2013-11-26

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[13] C

[51] **Int.Cl. C08G 77/04 (2006.01) C08G 77/52 (2006.01) C08K 3/22 (2006.01) C08K 5/54 (2006.01) C08K 5/57 (2006.01) C08L 83/04 (2006.01) C08L 83/14 (2006.01)**

[25] EN

[54] **TEMPERATURE-RESISTANT SILICONE RESINS**

[54] **RESINES EN SILICONE RESISTANT A LA TEMPERATURE**

[72] ZHOU, CHAOYIN, US  
[72] NOWAK, ANDREW P., US  
[72] SHARP, RICHARD E., US  
[72] LI, WEN, US  
[72] FRENCH, JAMES E., US  
[73] THE BOEING COMPANY, US  
[86] (2896111)  
[87] (2896111)  
[22] 2015-07-02  
[30] US (14/329,884) 2014-07-11

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[11] **2,896,808**  
[13] C

[51] **Int.Cl. B42D 25/00 (2014.01)**

[25] EN

[54] **RELIEFED CARD-SHAPED DATA CARRIER**

[54] **SUPPORT DE STOCKAGE DE DONNEES SOUS FORME DE CARTE A RELIEF**

[72] RUHLAND-BAUER, MICHAEL, DE  
[72] REINER, HARALD, DE  
[72] HUYNH, THANH-HAO, DE  
[72] MAYER, KARLHEINZ, DE  
[73] GIESECKE+DEVRIENT MOBILE SECURITY GMBH, DE

[85] 2015-06-29  
[86] 2013-12-20 (PCT/EP2013/003926)  
[87] (WO2014/108164)  
[30] DE (10 2013 000 556.6) 2013-01-14

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[13] C

[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/32 (2006.01) H01R 4/28 (2006.01) H01R 31/06 (2006.01)**

[25] EN

[54] **REPLACEABLE MACHINE-MOUNTED MALE INPUT POWER CONNECTIONS**

[54] **CONNEXIONS ELECTRIQUES REMPLACABLES D'ENTREE MALE MONTEES SUR UNE MACHINE**

[72] GARVEY, PAUL WILLIAM, US  
[72] LIEBERT, SCOTT S., US  
[73] ILLINOIS TOOL WORKS INC., US  
[85] 2015-06-26  
[86] 2014-02-10 (PCT/US2014/015645)  
[87] (WO2014/163762)  
[30] US (13/793,391) 2013-03-11

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[11] **2,897,041**  
[13] C

[51] **Int.Cl. F02C 9/00 (2006.01) F02C 7/32 (2006.01)**

[25] EN

[54] **LIFING AND PERFORMANCE OPTIMIZATION LIMIT MANAGEMENT FOR TURBINE ENGINE**

[54] **GESTION DE LA LIMITE D'OPTIMISATION DES PERFORMANCES ET DE PREDICTION DE LA DUREE DE VIE POUR MOTEUR A TURBINE**

[72] ARMSTRONG, MICHAEL, US  
[72] FRENCH, MAT, US  
[73] ROLLS-ROYCE CORPORATION, US  
[85] 2015-07-02  
[86] 2013-10-22 (PCT/US2013/066047)  
[87] (WO2014/143187)  
[30] US (61/794,165) 2013-03-15

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[11] **2,898,087**  
[13] C

[51] **Int.Cl. E02D 17/20 (2006.01)**

[25] EN

[54] **LOAD TRANSFER OR CONNECTOR DEVICE FOR EXPANDED CELL CONFINEMENT STRUCTURES AND METHODS FOR DOING THE SAME**

[54] **DISPOSITIF DE TRANSFERT DE CHARGE OU DE CONNEXION DESTINE A DES STRUCTURES DE CONFINEMENT CELLULAIRE DEPLOYEES ET LEURS PROCEDES DE FABRICATION**

[72] BACH, GARY M., US  
[72] HANDLOS, WILLIAM G., US  
[72] MCCONNELL, JEREMY A., US  
[72] SCHNEIDER, CORY S., US  
[72] WEDIN, BRYAN S., US  
[72] STELTER, PATRICIA J., US  
[73] REYNOLDS PRESTO PRODUCTS INC., US  
[85] 2015-07-13  
[86] 2014-01-10 (PCT/US2014/011080)  
[87] (WO2014/116443)  
[30] US (13/746,531) 2013-01-22

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[13] C

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[25] EN

[54] **INTERNALLY COOLED INTERNAL COMBUSTION ENGINE AND METHOD THEREOF**

[54] **MOTEUR A COMBUSTION INTERNE REFROIDI INTERIEUREMENT ET PROCEDE ASSOCIE**

[72] MULYE, NIRMAL, US

[73] MULYE, NIRMAL, US

[85] 2015-07-13

[86] 2014-01-17 (PCT/US2014/012035)

[87] (WO2014/113660)

[30] US (61/753,719) 2013-01-17

[30] IB (PCT/IB2013/002593) 2013-11-20

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[11] **2,898,248**  
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01)**

[25] EN

[54] **AEROSOL-GENERATING DEVICE COMPRISING MULTIPLE SOLID-LIQUID PHASE-CHANGE MATERIALS**

[54] **DISPOSITIF DE PRODUCTION D'AEROSOL COMPRENANT DE MULTIPLES MATERIAUX A CHANGEMENT DE PHASE SOLIDE-LIQUIDE**

[72] SILVESTRINI, PATRICK CHARLES, CH

[72] FARINE, MARIE, CH

[72] ROWE, CHRISTOPHER JAMES, GB

[72] CANE, MICHAEL ROGER, GB

[73] PHILIP MORRIS PRODUCTS S.A., CH

[85] 2015-07-15

[86] 2013-12-23 (PCT/EP2013/077890)

[87] (WO2014/139611)

[30] EP (13159401.2) 2013-03-15

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[13] C

[51] **Int.Cl. A23J 3/08 (2006.01) A23C 9/12 (2006.01) A23J 1/20 (2006.01)**

[25] EN

[54] **METHOD FOR IMPROVING VISCOSITY, SOLUBILITY, AND PARTICLE SIZE OF MILK PROTEIN CONCENTRATES**

[54] **PROCEDE POUR AMELIORER LA VISCOSITE, LA SOLUBILITE ET LA GRANULOMETRIE DE CONCENTRES PROTEIQUES DU LAIT**

[72] PETERSEN, BRENT, US

[72] WARD, LOREN, US

[73] GLANBIA NUTRITIONALS (IRELAND) LTD., IE

[85] 2015-07-15

[86] 2014-01-15 (PCT/US2014/011726)

[87] (WO2014/113499)

[30] US (61/752,957) 2013-01-15

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[13] C

[51] **Int.Cl. A63C 11/00 (2006.01) B63B 32/30 (2020.01) B63B 34/60 (2020.01) A63C 11/10 (2006.01)**

[25] EN

[54] **A SKIING ACCESSORY**

[54] **ACCESSOIRE POUR SKIER**

[72] DARCY, STEVEN, AU

[73] GENIAS VENTURES PTY LTD, AU

[85] 2015-07-21

[86] 2014-01-22 (PCT/AU2014/000038)

[87] (WO2014/113841)

[30] AU (2013900207) 2013-01-23

[30] AU (2013902253) 2013-06-20

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[11] **2,898,864**  
[13] C

[51] **Int.Cl. F01D 11/00 (2006.01)**

[25] FR

[54] **FIXED DIFFUSER VANES ASSEMBLY FOR GUIDING FLOW THROUGH A TURBOMACHINE, COMPRISING AN INTERNAL PLATFORM WITH INBUILT REINFORCEMENTS, AND ASSOCIATED TURBOMACHINE AND PRODUCTION METHOD**

[54] **AUBAGE FIXE DE DISTRIBUTION DE FLUX DANS UNE TURBOMACHINE, COMPRENANT UNE PLATE-FORME INTERNE A RENFORTS INTEGRES, TURBOMACHINE ET PROCEDE DE FABRICATION ASSOCIES**

[72] CONGRATEL, SEBASTIEN, FR

[72] CHAMBRE, MARION, FR

[72] RICHARD, BRUNO, FR

[72] ROULLET, ROMAIN, FR

[73] SNECMA, FR

[85] 2015-07-21

[86] 2014-01-22 (PCT/FR2014/050113)

[87] (WO2014/114873)

[30] FR (1350582) 2013-01-23

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[13] C

[51] **Int.Cl. C08G 18/66 (2006.01) C08G 18/42 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **CLEAR HYDROPHOBIC TPU**

[54] **POLYURETHANE THERMOPLASTIQUE (TPU) HYDROPHOBE CLAIR**

[72] MELTZER, DONALD A., US

[72] KULKARNI, PALLAVI, US

[72] WALDER, ANTHONY J., US

[72] FARKAS, JULIUS, US

[73] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2015-07-23

[86] 2014-02-03 (PCT/US2014/014373)

[87] (WO2014/121174)

[30] US (61/760,352) 2013-02-04

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[13] C

[51] **Int.Cl. G08B 21/02 (2006.01) F21V 29/70 (2015.01) H05B 47/10 (2020.01) F21S 8/00 (2006.01) G08B 5/36 (2006.01) G08B 25/08 (2006.01) G08B 25/10 (2006.01) G08C 17/02 (2006.01) H02J 7/35 (2006.01)**

[25] EN  
[54] **PERSONAL INCIDENT ALERT SYSTEM**  
[54] **DISPOSITIF PERSONNEL D'ALERTE D'INCIDENT**  
[72] NOWZARI, NADER, CA  
[73] NOWZARI, NADER, CA  
[86] (2902917)  
[87] (2902917)  
[22] 2015-09-01  
[30] US (62/070,769) 2014-09-04

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[11] **2,902,992**  
[13] C

[51] **Int.Cl. C07D 311/82 (2006.01) C07H 21/00 (2006.01) C09B 11/24 (2006.01) G01N 33/58 (2006.01)**

[25] EN  
[54] **RHODAMINE COMPOUNDS AND THEIR USE AS FLUORESCENT LABELS**  
[54] **COMPOSES DE RHODAMINE ET LEUR UTILISATION COMME MARQUEURS FLUORESCENTS**  
[72] ROMANOV, NIKOLAI NIKOLAEVICH, GB  
[72] LIU, XIAOHAI, GB  
[73] ILLUMINA CAMBRIDGE LTD, GB  
[85] 2015-08-28  
[86] 2013-03-08 (PCT/EP2013/054793)  
[87] (WO2014/135223)

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[11] **2,903,452**  
[13] C

[51] **Int.Cl. G10L 25/54 (2013.01) H04H 60/37 (2009.01)**

[25] EN  
[54] **SIGNATURE MATCHING OF CORRUPTED AUDIO SIGNAL**  
[54] **MISE EN CORRESPONDANCE DE SIGNATURES DE SIGNAUX AUDIO CORROMPUS**  
[72] FONSECA, BENEDITO J., JR., US  
[72] BAUM, KEVIN L., US  
[72] ISHTIAQ, FAISAL, US  
[72] WILLIAMS, JAY J., US  
[73] ARRIS ENTERPRISES LLC, US  
[85] 2015-09-01  
[86] 2014-03-07 (PCT/US2014/022165)  
[87] (WO2014/164369)  
[30] US (13/794,753) 2013-03-11

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[11] **2,903,628**  
[13] C

[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/20 (2006.01)**

[25] EN  
[54] **METER ROLLER FOR AN AGRICULTURAL METERING SYSTEM**  
[54] **ROULEAU DOSEUR POUR SYSTEME DE DOSAGE AGRICOLE**  
[72] HENRY, JAMES W., CA  
[73] CNH INDUSTRIAL CANADA, LTD., CA  
[86] (2903628)  
[87] (2903628)  
[22] 2015-09-09  
[30] US (62/074,857) 2014-11-04

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[11] **2,904,675**  
[13] C

[51] **Int.Cl. B63G 8/00 (2006.01) B63G 8/22 (2006.01) B63B 3/13 (2006.01) B63G 8/39 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR IMPROVING BUOYANCY IN UNDERWATER VEHICLES**  
[54] **SYSTEMES ET PROCEDES D'AMELIORATION DE FLOTTABILITE DE VEHICULES SOUS-MARINS**  
[72] RIKOSKI, RICHARD J., US  
[72] POMPA, JONATHAN, US  
[72] DAMUS, ROBERT S., US  
[72] OWENS, DYLAN, US  
[73] HADAL, INC., US  
[85] 2015-09-08  
[86] 2014-03-14 (PCT/US2014/029663)  
[87] (WO2014/145027)  
[30] US (61/792,708) 2013-03-15

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[11] **2,906,500**  
[13] C

[51] **Int.Cl. B64C 27/32 (2006.01) B64C 11/32 (2006.01) B64C 27/54 (2006.01)**

[25] EN  
[54] **ROTOR ASSEMBLY APPARATUS**  
[54] **APPAREIL A ROTOR**  
[72] PODGURSKI, DANIEL M., US  
[73] THE BOEING COMPANY, US  
[86] (2906500)  
[87] (2906500)  
[22] 2015-09-30  
[30] US (14/570709) 2014-12-15

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[11] **2,906,653**  
[13] C

[51] **Int.Cl. H05K 5/03 (2006.01) H04Q 1/02 (2006.01)**

[25] EN  
[54] **BELOW GRADE ENCLOSURE**  
[54] **ENCEINTE DESTINEE A UNE INSTALLATION SOUS LE NIVEAU DU SOL**  
[72] ALARCON, SERGIO A., US  
[72] BISTON, WILLIAM D., US  
[72] DUDLEY, TIMOTHY L., US  
[72] ROST, ALAN L., US  
[73] AMERICAN PRODUCTS, L.L.C., US  
[86] (2906653)  
[87] (2906653)  
[22] 2015-10-01  
[30] US (62/058,598) 2014-10-01  
[30] US (14/870,156) 2015-09-30

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[11] **2,907,060**  
[13] C

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/381 (2006.01) A61P 17/00 (2006.01)**

[25] EN  
[54] **TOPICAL ANTI-INFLAMMATORY PHARMACEUTICAL COMPOSITION WITH ZILEUTON CREAM FORMULATION**  
[54] **COMPOSITION PHARMACEUTIQUE ANTI-INFLAMMATOIRE TOPIQUE AVEC UNE FORMULATION DE CREME DE ZILEUTON**  
[72] NAM, KI YEAN, KR  
[72] KIM, JEONG JUN, KR  
[72] OH, SOO HYUN, KR  
[72] LEE, SAE YEON, KR  
[72] AHN, JI YE, KR  
[73] QURIENT CO., LTD., KR  
[85] 2015-09-15  
[86] 2014-08-13 (PCT/KR2014/007525)  
[87] (WO2015/064898)  
[30] KR (10-2013-0130165) 2013-10-30

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[11] **2,907,537**

[13] C

- [51] **Int.Cl. A61F 2/40 (2006.01) A61F 2/30 (2006.01)**  
[25] EN  
[54] **PROSTHETIC DEVICES TO IMPROVE JOINT MECHANICS IN ARTHROPLASTY**  
[54] **DISPOSITIFS PROTHETIQUES CONCUS POUR AMELIORER LA MECANIQUE DES ARTICULATIONS EN ARTHROPLASTIE**  
[72] ROCHE, CHRISTOPHER P., US  
[72] ROUTMAN, HOWARD D., US  
[72] WRIGHT, THOMAS W., US  
[72] GAYDOS, COREY, US  
[73] EXACTECH, INC., US  
[85] 2015-09-16  
[86] 2013-07-31 (PCT/US2013/052920)  
[87] (WO2014/022506)  
[30] US (61/678,353) 2012-08-01  
[30] US (61/784,690) 2013-03-14  
[30] US (13/955,083) 2013-07-31

[11] **2,907,851**

[13] C

- [51] **Int.Cl. E01B 19/00 (2006.01) E01B 26/00 (2006.01) E01F 7/02 (2006.01)**  
[25] EN  
[54] **WIND, SNOW AND SAND PROTECTING DEVICE FOR RAILWAYS**  
[54] **DISPOSITIF DE PROTECTION CONTRE LE VENT, LA NEIGE ET LE SABLE DESTINE AUX VOIES FERREES**  
[72] ERNSTAD, BJORN, SE  
[72] AXELSSON, PER, SE  
[73] OSBORN INTERNATIONAL AB, SE  
[85] 2015-09-23  
[86] 2013-12-12 (PCT/EP2013/076455)  
[87] (WO2014/166559)  
[30] EP (13163253.1) 2013-04-11

[11] **2,908,317**

[13] C

- [51] **Int.Cl. F21K 9/69 (2016.01) F21V 29/70 (2015.01) F21K 9/23 (2016.01)**  
[25] EN  
[54] **SMOOTH LED PAR LAMP**  
[54] **LAMPE A DIODES ELECTROLUMINESCENTES A REFLECTEUR PARABOLIQUE A SURFACE PLANE**  
[72] YAN, ELLIS, US  
[73] TECHNICAL CONSUMER PRODUCTS, INC., US  
[85] 2015-09-28  
[86] 2014-04-18 (PCT/US2014/034616)  
[87] (WO2014/172614)  
[30] US (13/866,577) 2013-04-19

[11] **2,908,514**

[13] C

- [51] **Int.Cl. H02J 7/00 (2006.01) H01M 10/44 (2006.01) H04M 1/02 (2006.01)**  
[25] EN  
[54] **CHARGING METHOD, MOBILE DEVICE, CHARGING DEVICE, AND CHARGING SYSTEM**  
[54] **PROCEDE DE CHARGE, DISPOSITIF MOBILE, DISPOSITIF DE CHARGE ET SYSTEME DE CHARGE**  
[72] SONG, GANG, CN  
[73] HUAWEI DEVICE CO., LTD., CN  
[85] 2015-10-01  
[86] 2014-01-09 (PCT/CN2014/070354)  
[87] (WO2014/110995)  
[30] CN (201310018595.9) 2013-01-18

[11] **2,908,544**

[13] C

- [51] **Int.Cl. E02F 9/28 (2006.01)**  
[25] EN  
[54] **LOCK ASSEMBLY**  
[54] **ENSEMBLE DE VERROUILLAGE**  
[72] HAND, ALEXANDER EDWARD, AU  
[72] GIUDICE, LUKE DANIEL, AU  
[72] HEBBAR, BALAMURALI MANJIL, AU  
[73] KEECH CASTINGS AUSTRALIA PTY LIMITED, AU  
[85] 2015-09-17  
[86] 2014-02-24 (PCT/AU2014/000165)  
[87] (WO2014/153591)  
[30] AU (2013901026) 2013-03-25  
[30] AU (2013901149) 2013-04-03

[11] **2,908,558**

[13] C

- [51] **Int.Cl. F16B 5/01 (2006.01)**  
[25] EN  
[54] **LIGHTWEIGHT SUPPORT STRUCTURE, METHOD OF PRODUCING A LIGHTWEIGHT SUPPORT STRUCTURE, COMPOSITE SANDWICH PANEL AND METHOD OF PRODUCING A COMPOSITE SANDWICH PANEL**  
[54] **STRUCTURE DE SUPPORT DE FAIBLE POIDS, PROCEDE DE PRODUCTION D'UNE STRUCTURE DE SUPPORT DE FAIBLE POIDS, PANNEAU EN SANDWICH COMPOSITE ET PROCEDE DE PRODUCTION D'UN PANNEAU EN SANDWICH COMPOSITE**  
[72] BURKHARD, GREGOR, CH  
[72] NAGELI, DOMINIK CHRISTIAN, CH  
[73] RUAG SCHWEIZ AG, RUAG SPACE, CH  
[85] 2015-09-18  
[86] 2013-12-10 (PCT/EP2013/076127)  
[87] (WO2014/146739)  
[30] EP (13160089.2) 2013-03-20

[11] **2,910,118**

[13] C

- [51] **Int.Cl. F41A 9/58 (2006.01)**  
[25] EN  
[54] **FIRING DEVICE FOR FIRING CARTRIDGE AMMUNITION**  
[54] **DISPOSITIF DE TIR DE MUNITIONS ENCARTOUCHEES**  
[72] MALTAN, JOHANNES, DE  
[72] KITTL, WOLFGANG, DE  
[72] KREBS, MICHAEL, DE  
[72] HUBER, FLORIAN, DE  
[73] RHEINMETALL WAFFE MUNITION GMBH, DE  
[85] 2015-10-23  
[86] 2014-03-10 (PCT/EP2014/054602)  
[87] (WO2014/154473)  
[30] DE (10 2013 005 378.1) 2013-03-28

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[13] C

[51] **Int.Cl. G01B 21/32 (2006.01) E02D 31/00 (2006.01) G01V 7/00 (2006.01)**  
[25] EN  
[54] **BIPARTITE SENSOR ARRAY**  
[54] **RESEAU DE CAPTEURS EN DEUX PARTIES**  
[72] DANISCH, LEE ALLEN, CA  
[73] MEASURAND INSTRUMENTS INC., CA  
[85] 2015-11-02  
[86] 2014-05-01 (PCT/CA2014/050417)  
[87] (WO2014/176699)  
[30] CA (2,815,195) 2013-05-02

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[11] **2,911,513**  
[13] C

[51] **Int.Cl. F16K 3/314 (2006.01) F16K 3/18 (2006.01)**  
[25] EN  
[54] **VALVE WITH REMOVABLE SEAT**  
[54] **SOUPAPE AYANT UN SIEGE AMOVIBLE**  
[72] REILLY, WILLIAM J., US  
[72] THAU, LAWRENCE W., US  
[72] DAVIS, MICHAEL, US  
[72] PRINCE, MICHAEL, US  
[73] VICTAULIC COMPANY, US  
[85] 2015-11-05  
[86] 2014-05-06 (PCT/US2014/036918)  
[87] (WO2014/182664)  
[30] US (61/820,202) 2013-05-07  
[30] US (61/925,724) 2014-01-10

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[11] **2,911,666**  
[13] C

[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/153 (2017.01) B29C 64/268 (2017.01) B22F 3/24 (2006.01)**  
[25] EN  
[54] **ADDITIVE-MANUFACTURING SYSTEMS, APPARATUSES AND METHODS**  
[54] **SYSTEMES, APPAREILS ET PROCEDES D'IMPRESSION EN TROIS DIMENSIONS**  
[72] DIETRICH, DAVID MICHAEL, US  
[72] COCHRAN, RUSSELL W., US  
[72] BLOCH, DANIEL D., US  
[72] COLEMAN, GARY W., US  
[73] THE BOEING COMPANY, US  
[85] 2015-11-05  
[86] 2014-06-24 (PCT/US2014/043833)  
[87] (WO2015/012992)  
[30] US (13/949,946) 2013-07-24

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[11] **2,911,695**  
[13] C

[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/158 (2006.01) A61M 5/32 (2006.01)**  
[25] EN  
[54] **RETRACTABLE NEEDLE CATHETER INSERTION DEVICE**  
[54] **DISPOSITIF D'INSERTION DE CATHETER A AIGUILLE RETRACTABLE**  
[72] TISCI, DANTE A., US  
[72] NOSKOWICZ, DAVID S., US  
[73] MEDLINE INDUSTRIES, INC., US  
[85] 2015-11-06  
[86] 2014-04-18 (PCT/US2014/034581)  
[87] (WO2014/182421)  
[30] US (13/889,063) 2013-05-07

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[11] **2,911,776**  
[13] C

[51] **Int.Cl. C10C 3/08 (2006.01) C10G 1/04 (2006.01)**  
[25] EN  
[54] **A SYSTEM FOR PROCESSING A BITUMEN-DERIVED STREAM WITHIN SECONDARY EXTRACTION**  
[54] **UN SYSTEME DE TRAITEMENT DE FLUX DERIVE DU BITUME DANS UNE EXTRACTION SECONDAIRE**  
[72] HEINISH, MARK KENT, CA  
[72] CRYDERMAN, CHRISTOPHER RYAN, CA  
[72] CLEYLE, PETER JOSEPH, XX  
[73] SUNCOR ENERGY INC., CA  
[86] (2911776)  
[87] (2911776)  
[22] 2015-11-09

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[11] **2,912,155**  
[13] C

[51] **Int.Cl. G02B 6/38 (2006.01) H01R 13/633 (2006.01)**  
[25] EN  
[54] **SECURE SC OPTICAL FIBER CONNECTOR AND REMOVAL TOOLS**  
[54] **CONNECTEUR DE FIBRE OPTIQUE SC SUR ET OUTILS DE RETRAIT**  
[72] DURRANT, RICHARD C. E., US  
[72] ADAMS, DARREN J. M., GB  
[73] ADVANCED FIBER PRODUCTS, LLC, US  
[85] 2015-11-10  
[86] 2013-05-21 (PCT/US2013/042121)  
[87] (WO2013/177234)  
[30] US (61/649,867) 2012-05-21  
[30] US (61/809,872) 2013-04-08  
[30] US (13/899,535) 2013-05-21

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[11] **2,913,189**  
[13] C

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 33/00 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61P 31/00 (2006.01)**  
[25] EN  
[54] **METHOD OF TREATING INTRACELLULAR INFECTION**  
[54] **METHODE DE TRAITEMENT D'UNE INFECTION INTRACELLULAIRE**  
[72] PELLEGRINI, MARC, AU  
[72] EBERT, GREGOR KLAUS-PETER, AU  
[72] BEGLEY, COLIN GLENN, US  
[73] THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH, AU  
[85] 2015-11-20  
[86] 2014-06-25 (PCT/AU2014/050092)  
[87] (WO2014/205516)  
[30] AU (2013902327) 2013-06-25  
[30] AU (2014901029) 2014-03-24  
[30] AU (2014901977) 2014-05-26

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[11] **2,914,143**  
[13] C

[51] **Int.Cl. B65B 25/02 (2006.01) B65B 25/04 (2006.01) B65B 43/42 (2006.01) B65B 43/54 (2006.01) B65B 43/56 (2006.01) B65B 57/00 (2006.01)**

[25] EN

[54] **IMPROVED APPARATUS FOR FILLING CONTAINERS WITH HORTICULTURAL PRODUCTS**

[54] **APPAREIL AMELIORE DE REMPLISSAGE DE RECIPIENTS AVEC DES PRODUITS HORTICOLES**

[72] BENEDETTI, LUCA, IT

[73] UNITEC S.P.A., IT

[85] 2015-11-30

[86] 2014-05-14 (PCT/IB2014/061426)

[87] (WO2014/199248)

[30] IT (PN2013A000031) 2013-06-11

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[11] **2,914,258**  
[13] C

[51] **Int.Cl. B66C 13/04 (2006.01) B65D 90/22 (2006.01) B66C 13/06 (2006.01) B66C 13/08 (2006.01) B66C 15/00 (2006.01) B66C 23/88 (2006.01) B66F 13/00 (2006.01) B66F 19/00 (2006.01)**

[25] EN

[54] **TAG LINE EXTENSION**

[54] **EXTENSION DE CABLE STABILISATEUR**

[72] COTTONE, SHAUN, AU

[73] RISING FAST PTY LTD, AU

[85] 2015-12-02

[86] 2013-06-05 (PCT/AU2013/000594)

[87] (WO2013/181700)

[30] AU (2012902383) 2012-06-05

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[11] **2,914,475**  
[13] C

[51] **Int.Cl. G02B 21/24 (2006.01) G02B 21/36 (2006.01)**

[25] EN

[54] **AUTO-FOCUS METHODS AND SYSTEMS FOR MULTI-SPECTRAL IMAGING**

[54] **PROCEDES ET SYSTEMES D'AUTOFOCUS POUR IMAGERIE MULTI-SPECTRALE**

[72] BREDNO, JOERG, US

[72] MARTIN, JIM F., US

[72] SARKAR, ANINDYA, US

[73] VENTANA MEDICAL SYSTEMS, INC., US

[85] 2015-12-03

[86] 2014-07-15 (PCT/EP2014/065064)

[87] (WO2015/007697)

[30] US (61/847,978) 2013-07-18

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[11] **2,915,284**  
[13] C

[51] **Int.Cl. H02K 21/24 (2006.01) H02K 7/14 (2006.01)**

[25] EN

[54] **A WORKING ASSEMBLY SUITABLE FOR USE IN AN AGRICULTURE MACHINE AND AN AGRICULTURE MACHINE**

[54] **ENSEMBLE DE TRAVAIL DESTINE A ETRE UTILISE DANS UNE MACHINE AGRICOLE ET MACHINE AGRICOLE**

[72] VAN DE VOORT VAN DE KLEY, ANTONIUS THEODORUS MARIA, NL

[73] KVERNELAND A/S, NO

[85] 2015-11-27

[86] 2014-05-27 (PCT/EP2014/060887)

[87] (WO2014/191378)

[30] EP (13169715.3) 2013-05-29

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[11] **2,915,569**  
[13] C

[51] **Int.Cl. B60P 7/06 (2006.01) B65D 81/05 (2006.01)**

[25] EN

[54] **DUNNAGE BAG ARRANGEMENT**

[54] **AGENCEMENT DE SAC DE FARDAGE**

[72] PANSEGROUW, BESTER JACOBUS, ZA

[73] STOPAK INDIA PVT. LTD., IN

[85] 2015-12-15

[86] 2014-06-13 (PCT/IB2014/062197)

[87] (WO2014/203134)

[30] ZA (2013/04659) 2013-06-21

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[11] **2,915,646**  
[13] C

[51] **Int.Cl. G06F 21/56 (2013.01) G06F 21/53 (2013.01) G06F 12/1009 (2016.01) G06F 9/455 (2018.01)**

[25] EN

[54] **PAGE FAULT INJECTION IN VIRTUAL MACHINES TO CAUSE MAPPING OF SWAPPED-OUT MEMORY PAGES INTO (VM) VIRTUALIZED MEMORY**

[54] **INJECTION DE DEFAILLANCE DE PAGE DANS LES MACHINES VIRTUELLES EN VUE DE CAUSER LE MAPPAGE DE PAGES DE MEMOIRE ECHANGEES EN MEMOIRE VIRTUELLE**

[72] LUTAS, ANDREI-VLAD, RO

[73] BITDEFENDER IPR MANAGEMENT LTD, CY

[85] 2015-12-15

[86] 2014-07-02 (PCT/RO2014/000018)

[87] (WO2015/152747)

[30] US (61/847,538) 2013-07-17

[30] US (14/289,163) 2014-05-28

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[11] **2,915,652**  
[13] C

[51] **Int.Cl. G01N 17/04 (2006.01) E02D 1/08 (2006.01) E02D 31/06 (2006.01) E02D 33/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ASSESSING SUBGRADE CORROSION**

[54] **APPAREIL ET METHODE D'EVALUATION DE LA CORROSION EN SOUS-OEUVRE**

[72] MURRAY, NEAL SCOTT, US

[73] ELECTRIC POWER RESEARCH INSTITUTE, INC., US

[86] (2915652)

[87] (2915652)

[22] 2014-12-12

[30] US (14/143,103) 2013-12-30

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[11] **2,916,595**  
[13] C

[51] **Int.Cl. H04W 4/50 (2018.01) H04W 4/12 (2009.01) H04W 8/22 (2009.01) H04W 52/02 (2009.01) H04W 80/06 (2009.01) H04W 80/08 (2009.01) H04W 84/18 (2009.01) H04L 12/701 (2013.01) G06F 8/65 (2018.01) H04W 76/10 (2018.01) H04W 76/28 (2018.01) G08B 21/02 (2006.01) H04L 12/16 (2006.01) H04L 12/28 (2006.01) H04L 29/06 (2006.01) H04L 29/12 (2006.01)**

[25] EN

[54] **EFFICIENT COMMUNICATION FOR DEVICES OF A HOME NETWORK**

[54] **COMMUNICATION EFFICACE DESTINEE A DES DISPOSITIFS DANS UN RESEAU DOMESTIQUE**

[72] ERICKSON, GRANT M., US  
[72] LOGUE, JAY D., US  
[72] BOROSS, CHRISTOPHER A., US  
[72] SMITH, ZACHARY B., US  
[72] HARDISON, OSBORNE B., US  
[72] SCHULTZ, RICHARD J., US  
[72] GUJJARU, SUNNY P., US  
[72] NEELEY, MATTHEW G., US  
[73] GOOGLE LLC, US  
[85] 2015-12-22  
[86] 2014-06-23 (PCT/US2014/043699)  
[87] (WO2014/209901)  
[30] US (13/926,335) 2013-06-25

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[11] **2,916,774**  
[13] C

[51] **Int.Cl. F24F 13/20 (2006.01)**

[25] EN

[54] **VENT HOOD INCLUDING DEVICE FOR MODIFYING THE VENT HOOD**

[54] **HOTTE COMPORTANT UN DISPOSITIF PERMETTANT DE MODIFIER LA HOTTE**

[72] ANDERSEN, JOHN L., US  
[73] BUILDER'S BEST, INC., US  
[86] (2916774)  
[87] (2916774)  
[22] 2008-05-07  
[62] 2,630,761  
[30] US (11/746,279) 2007-05-09

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[11] **2,917,253**  
[13] C

[51] **Int.Cl. F16L 11/08 (2006.01)**

[25] EN

[54] **SUBMARINE FLEXIBLE PIPE**

[54] **TUYAU SOUPLE SOUS-MARIN**

[72] ANELLI, PIETRO, IT  
[72] SICA, RODOLFO, IT  
[72] PEREGO, GABRIELE, IT  
[72] FERREIRA GODINHO, CARLOS ALBERTO, IT  
[73] PRYSMIAN S.P.A., IT  
[85] 2016-01-04  
[86] 2014-07-08 (PCT/IB2014/062939)  
[87] (WO2015/004597)  
[30] IT (MI2013A001165) 2013-07-10

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[11] **2,917,700**  
[13] C

[51] **Int.Cl. A45D 44/00 (2006.01) F04B 43/12 (2006.01) F04B 49/06 (2006.01)**

[25] EN

[54] **SYSTEM AND APPARATUS FOR DISPENSING BEAUTY PRODUCTS**

[54] **SYSTEME ET APPAREIL DE DISTRIBUTION DE PRODUITS DE BEAUTE**

[72] WITCHELL, DAVID J., US  
[72] WICKSTROM, CARL, US  
[72] BARAKAT, ALANA, US  
[72] BUSH, SCOTT, US  
[72] OLOL, MUSSE, US  
[72] DESILVA, DILAN, US  
[72] ARNOLD, WILLIAM, US  
[72] THOMPSON, ERIC, US  
[73] COLORCULTURE NETWORK, LLC, US  
[85] 2016-01-07  
[86] 2014-07-17 (PCT/US2014/047050)  
[87] (WO2015/009943)  
[30] US (61/847,214) 2013-07-17  
[30] US (14/201,638) 2014-03-07

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[11] **2,918,257**  
[13] C

[51] **Int.Cl. H02M 3/158 (2006.01) G05F 1/565 (2006.01) H02M 1/15 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR PROVIDING REGULATED CURRENT TO AN ELECTRICAL LOAD**

[54] **DISPOSITIF ET PROCEDURE POUR FOURNIR UN COURANT REGULE A UNE CHARGE ELECTRIQUE**

[72] WEE, KAI FOOK FRANCIS, SG  
[72] GROPPI, LEOPOLDO, IT  
[72] STONA, ANDREA, IT  
[73] OPULENT ELECTRONICS INTERNATIONAL PTE LTD, SG  
[85] 2016-01-13  
[86] 2015-02-09 (PCT/SG2015/050016)  
[87] (WO2015/122848)  
[30] SG (2014010839) 2014-02-11

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[11] **2,918,484**  
[13] C

[51] **Int.Cl. A61B 18/12 (2006.01)**

[25] EN

[54] **BIPOLAR SURGICAL INSTRUMENT**

[54] **INSTRUMENT CHIRURGICAL BIPOLAIRE**

[72] DING, WEIJIANG, CN  
[72] YI, PEIXIONG, CN  
[72] SHEN, XIUCHENG, CN  
[72] KERR, DUANE E., US  
[72] SYED, SARFRAZ AHAMED, CN  
[73] COVIDIEN LP, US  
[85] 2016-01-15  
[86] 2013-08-07 (PCT/CN2013/080953)  
[87] (WO2015/017994)

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[11] **2,919,405**  
[13] C

[51] **Int.Cl. F16F 1/371 (2006.01) F16C 27/06 (2006.01) F16F 3/10 (2006.01)**

[25] EN

[54] **NEGATIVE SPRING COMPENSATION FOR ELASTOMERIC BEARING TORQUE**

[54] **COMPENSATION PAR RESSORT NEGATIVE POUR COUPLE DE ROULEMENT ELASTOMERE**

[72] HINKS, WILLIAM L., US  
[73] HINKS, WILLIAM L., US  
[86] (2919405)  
[87] (2919405)  
[22] 2014-03-11  
[62] 2,845,346  
[30] US (13/804,100) 2013-03-14

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[11] **2,919,641**  
[13] C

[51] **Int.Cl. A23L 7/178 (2016.01) A23L 7/174 (2016.01) A23L 7/196 (2016.01) A23L 11/00 (2016.01) A23P 30/32 (2016.01)**

[25] EN

[54] **QUICK-COOK GRAINS AND PULSES**

[54] **CEREALES ET LEGUMINEUSES A CUISSON RAPIDE**

[72] MOORE, GARY, US

[72] YACU, WALEED, US

[73] THE QUAKER OATS COMPANY, US

[86] (2919641)

[87] (2919641)

[22] 2011-11-23

[62] 2,818,704

[30] US (61/416,468) 2010-11-23

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[11] **2,919,662**  
[13] C

[51] **Int.Cl. C22C 21/10 (2006.01) B22D 7/00 (2006.01) B22D 15/00 (2006.01) C22C 21/00 (2006.01) C22C 21/02 (2006.01) C22F 1/04 (2006.01) C22F 1/043 (2006.01) C22F 1/053 (2006.01) F28F 21/08 (2006.01)**

[25] EN

[54] **HIGH STRENGTH ALUMINUM ALLOY FIN STOCK FOR HEAT EXCHANGER**

[54] **TOLE A AILETTES EN ALLIAGE D'ALUMINIUM A HAUTE RESISTANCE POUR ECHANGEUR DE CHALEUR**

[72] GATENBY, KEVIN MICHAEL, US

[72] AHMED, HANY, US

[72] KADALI, JYOTHI, US

[72] ALUIA, DEREK WILLIAM, US

[72] BACIAK, JOHN MICHAEL, III, US

[72] HOWELLS, ANDREW D., CA

[73] NOVELIS INC., US

[73] DENSO INTERNATIONAL AMERICA, INC., US

[85] 2016-01-27

[86] 2014-08-07 (PCT/US2014/050086)

[87] (WO2015/021244)

[30] US (61/863,572) 2013-08-08

[30] US (61/863,568) 2013-08-08

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[11] **2,920,751**  
[13] C

[51] **Int.Cl. E05B 65/08 (2006.01) E05C 19/00 (2006.01) E06B 5/11 (2006.01)**

[25] EN

[54] **ANTI-BURGLARY SLIDING FRAMES SYSTEM**

[54] **SYSTEME DE CHASSIS COULISSANTS ANTI-CAMBRIOLAGE**

[72] ZAFEIROPOULOS, GRIGORIOS, GR

[73] ZAFEIROPOULOS, GRIGORIOS, GR

[85] 2016-02-08

[86] 2013-08-08 (PCT/GR2013/000042)

[87] (WO2014/023983)

[30] GR (20120100417) 2012-08-09

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[11] **2,921,307**  
[13] C

[51] **Int.Cl. H01J 37/26 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COMPRESSIVE SCANNING ELECTRON MICROSCOPY**

[54] **SYSTEME ET PROCEDE DE MICROSCOPIE ELECTRONIQUE A BALAYAGE COMPRIME**

[72] REED, BRYAN W., US

[73] LAWRENCE LIVERMORE NATIONAL SECURITY, LLC, US

[85] 2016-02-11

[86] 2014-10-08 (PCT/US2014/059644)

[87] (WO2015/061037)

[30] US (14/063,319) 2013-10-25

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[11] **2,921,967**  
[13] C

[51] **Int.Cl. H04L 27/18 (2006.01)**

[25] EN

[54] **PROCESSING A NOISY ANALOGUE SIGNAL**

[54] **TRAITEMENT D'UN SIGNAL ANALOGUE BRUYANT**

[72] MAYO, RICHARD HAMMOND, GB

[73] HANWHA SYSTEMS EUROPE, LTD., GB

[85] 2016-02-22

[86] 2013-08-23 (PCT/GB2013/052235)

[87] (WO2014/030016)

[30] GB (1215114.8) 2012-08-24

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[11] **2,921,982**  
[13] C

[51] **Int.Cl. C07D 519/00 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **NOVEL CYTOTOXIC AGENTS FOR CONJUGATION OF DRUGS TO CELL BINDING MOLECULE**

[54] **NOUVEAUX AGENTS CYTOTOXIQUES POUR LA CONJUGAISON DE MEDICAMENTS AVEC LA MOLECULE DE LIAISON CELLULAIRE**

[72] ZHAO, ROBERT YONGXIN, CN

[73] HANGZHOU DAC BIOTECH CO., LTD, CN

[85] 2016-02-22

[86] 2013-09-02 (PCT/IB2013/058229)

[87] (WO2015/028850)

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[11] **2,922,245**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/142 (2006.01) A61M 5/14 (2006.01)**

[25] EN

[54] **ENTERAL FEEDING PUMP WITH PUMP SET FLUSHING AND FLOW COMPENSATION**

[54] **POMPE DE NUTRITION ENTERALE EQUIPEE D'UN SYSTEME DE CHASSE D'ENSEMBLE DE POMPE ET POURVUE D'UNE COMPENSATION DE DEBIT**

[72] HOLDERLE, ERIC B., US

[72] JUSTIN, MICHAEL, US

[73] KPR U.S., LLC, US

[85] 2016-02-23

[86] 2014-08-29 (PCT/US2014/053338)

[87] (WO2015/031714)

[30] US (61/871,944) 2013-08-30

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,922,845**  
[13] C

[51] **Int.Cl. C06B 45/24 (2006.01) C06B 25/20 (2006.01) C07C 47/27 (2006.01) C07C 47/58 (2006.01) C07C 49/245 (2006.01) F42B 5/16 (2006.01)**

[25] EN

[54] **BURN RATE MODIFIER**

[54] **MODIFICATEUR DE TAUX DE COMBUSTION**

[72] WARRENDER, GARRY, AU

[72] JONES, ASHLEY, AU

[73] THALES AUSTRALIA LIMITED, AU

[85] 2016-03-01

[86] 2014-09-11 (PCT/AU2014/000903)

[87] (WO2015/035458)

[30] AU (2013903513) 2013-09-12

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[11] **2,922,992**  
[13] C

[51] **Int.Cl. G06F 13/40 (2006.01)**

[25] EN

[54] **MOBILE COMPUTING DEVICE AND METHOD OF TRANSMITTING DATA THEREFROM**

[54] **DISPOSITIF INFORMATIQUE MOBILE ET PROCEDE D'EMISSION DE DONNES A PARTIR DE CELUI-CI**

[72] WYNN, BRADLEY S., US

[73] THE BOEING COMPANY, US

[85] 2016-03-02

[86] 2014-07-01 (PCT/US2014/045092)

[87] (WO2015/038223)

[30] US (14/025,521) 2013-09-12

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[11] **2,923,375**  
[13] C

[51] **Int.Cl. H02J 7/02 (2016.01) B60L 58/10 (2019.01) H01M 10/42 (2006.01) H01M 10/44 (2006.01) H01M 10/48 (2006.01) H02J 7/10 (2006.01)**

[25] EN

[54] **POWER STORAGE DEVICE AND METHOD OF CONTROLLING POWER STORAGE DEVICE**

[54] **DISPOSITIF DE STOCKAGE D'ENERGIE ET METHODE DE COMMANDE DU DISPOSITIF DE STOCKAGE D'ENERGIE**

[72] SUGENO, NAOYUKI, JP

[72] WATANABE, KOHKI, JP

[72] TERAUCHI, MASUMI, JP

[72] TAKIZAWA, SHUICHI, JP

[72] IMAMURA, NORITOSHI, JP

[72] UMETSU, KOJI, JP

[73] MURATA MANUFACTURING CO., LTD., JP

[85] 2016-03-04

[86] 2014-06-26 (PCT/JP2014/003411)

[87] (WO2015/040779)

[30] JP (2013-191811) 2013-09-17

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[11] **2,923,706**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR DETECTING MUTATION IN THE HUMAN EZH2 GENE**

[54] **PROCEDES ET COMPOSITIONS DE DETECTION D'UNE MUTATION DANS LE GENE EZH2 HUMAIN**

[72] MA, XIAOJU MAX, US

[72] MANOHAR, CHITRA, US

[72] TSAN, ALISON, US

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2016-03-08

[86] 2014-10-07 (PCT/EP2014/071372)

[87] (WO2015/052147)

[30] US (61/888,660) 2013-10-09

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[11] **2,923,910**  
[13] C

[51] **Int.Cl. G06T 15/00 (2011.01) G06T 1/20 (2006.01)**

[25] EN

[54] **RENDERING APPARATUS FOR 3D GRAPHICS**

[54] **APPAREIL DE RENDU DE GRAPHIQUES 3D**

[72] IWASAKI, TETSUJI, JP

[73] SQUARE ENIX HOLDINGS CO., LTD., JP

[85] 2016-03-09

[86] 2014-06-19 (PCT/JP2014/003292)

[87] (WO2015/037169)

[30] JP (2013-191005) 2013-09-13

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[11] **2,924,451**  
[13] C

[51] **Int.Cl. H04N 21/472 (2011.01) H04N 21/485 (2011.01)**

[25] EN

[54] **APPLICATION SERVICE METHOD, RECORDING MEDIUM ON WHICH PROGRAM FOR CARRYING OUT SERVICE METHOD IS RECORDED, AND BROADCAST RECEIVING APPARATUS**

[54] **PROCEDE DE FOURNITURE DE SERVICE APPLICATIF, SUPPORT D'ENREGISTREMENT SUR LEQUEL UN PROGRAMME DE MISE EN OEUVRE DU PROCEDE DE FOURNITURE DE SERVICE EST ENREGISTRE, ET RECEPTEUR DE RADIODIFFUSION**

[72] KANG, CHANG-HWAN, KR

[72] NAM, SUNG-WOO, KR

[72] KIM, JIN-GWAN, KR

[72] HYOUNG, DA-HYE, KR

[72] PARK, JAE-HWAN, KR

[72] LEE, JUNG-IK, KR

[72] WON, JU-HYUN, KR

[73] ALTICAST CORPORATION, KR

[85] 2016-03-15

[86] 2013-11-25 (PCT/KR2013/010709)

[87] (WO2015/037780)

[30] KR (10-2013-0111049) 2013-09-16

[30] KR (10-2013-0142716) 2013-11-22

**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,924,456**  
[13] C

[51] **Int.Cl. H04N 21/472 (2011.01) H04N 21/478 (2011.01)**  
[25] EN  
[54] **APPLICATION SERVICE METHOD, RECORDING MEDIUM ON WHICH PROGRAM FOR CARRYING OUT THE SERVICE METHOD IS RECORDED, AND BROADCAST RECEIVING APPARATUS**  
[54] **PROCEDE DE FOURNITURE DE SERVICE APPLICATIF, SUPPORT D'ENREGISTREMENT SUR LEQUEL UN PROGRAMME DE MISE EN OEUVRE DU PROCEDE DE FOURNITURE DE SERVICE EST ENREGISTRE, ET RECEPTEUR DE RADIODIFFUSION**  
[72] KANG, CHANG-HWAN, KR  
[72] NAM, SUNG-WOO, KR  
[72] KIM, JIN-GWAN, KR  
[72] HYOUNG, DA-HYE, KR  
[72] PARK, JAE-HWAN, KR  
[72] LEE, JUNG-IK, KR  
[72] WON, JU-HYUN, KR  
[73] ALTICAST CORPORATION, KR  
[85] 2016-03-15  
[86] 2013-11-25 (PCT/KR2013/010711)  
[87] (WO2015/037781)  
[30] KR (10-2013-0111049) 2013-09-16  
[30] KR (10-2013-0142740) 2013-11-22

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[11] **2,925,038**  
[13] C

[51] **Int.Cl. F02C 7/05 (2006.01) B64D 33/02 (2006.01) F02C 7/055 (2006.01)**  
[25] EN  
[54] **ENVIRONMENTAL DEFENSE SHIELD**  
[54] **BOUCLIER DE PROTECTION DE L'ENVIRONNEMENT**  
[72] SNYDER, DENNIS, US  
[73] SHIELD AERODYNAMICS LLC, US  
[85] 2016-03-22  
[86] 2013-09-27 (PCT/US2013/062392)  
[87] (WO2014/099088)  
[30] US (61/706,400) 2012-09-27

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[11] **2,925,503**  
[13] C

[51] **Int.Cl. H01T 1/22 (2006.01) E21B 28/00 (2006.01) G01V 1/157 (2006.01)**  
[25] FR  
[54] **SPARK-GAP OF AN ELECTRIC ARC GENERATION DEVICE, AND CORRESPONDING ELECTRIC ARC GENERATION DEVICE**  
[54] **ECLATEUR D'UN DISPOSITIF DE GENERATION D'ARC ELECTRIQUE ET DISPOSITIF DE GENERATION D'ARC ELECTRIQUE CORRESPONDANT**  
[72] DELCHAMBRE, MICHAEL, FR  
[72] LABUDA, SERGEI, FR  
[72] ONQUIERT, GUILLAUME, FR  
[73] ENE29 S.AR.L., LU  
[85] 2016-03-17  
[86] 2014-09-17 (PCT/IB2014/064594)  
[87] (WO2015/040555)  
[30] FR (13 59030) 2013-09-19

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[11] **2,926,275**  
[13] C

[51] **Int.Cl. C09D 11/38 (2014.01) A01N 25/10 (2006.01) A01N 59/16 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **ANTI-BACTERIAL AQUEOUS INK COMPOSITIONS COMPRISING SELF-DISPERSED SULFONATED POLYESTER-SILVER NANOPARTICLE COMPOSITES**  
[54] **COMPOSITIONS D'ENCRE AQUEUSES ANTIBACTERIENNES RENFERMANT DES COMPOSITES DE NANOPARTICULES ARGENT-POLYESTER SULFONEES AUTO-DISPERSEES**  
[72] FARRUGIA, VALERIE M., CA  
[72] DESOUZA, ALANA RAH, CA  
[73] XEROX CORPORATION, US  
[86] (2926275)  
[87] (2926275)  
[22] 2016-04-05  
[30] US (14/706097) 2015-05-07

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[11] **2,927,766**  
[13] C

[51] **Int.Cl. A01C 7/20 (2006.01) A01C 7/08 (2006.01) F16L 33/00 (2006.01) F16L 37/138 (2006.01)**  
[25] EN  
[54] **VACUUM HOSE COUPLING WITH QUICK LOCK FEATURE**  
[54] **RACCORD DE TUYAU D'ASPIRATEUR A FONCTIONNALITE DE RACCORD RAPIDE**  
[72] JOHNSON, CHAD M., US  
[73] CNH INDUSTRIAL AMERICA LLC, US  
[86] (2927766)  
[87] (2927766)  
[22] 2016-04-21  
[30] US (14/788,287) 2015-06-30

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[11] **2,928,783**  
[13] C

[51] **Int.Cl. B61L 27/00 (2006.01)**  
[25] EN  
[54] **A SYSTEM TO PROVIDE REAL-TIME RAILROAD GRADE CROSSING INFORMATION TO SUPPORT TRAFFIC MANAGEMENT DECISION-MAKING**  
[54] **UN SYSTEME SERVANT A FOURNIR DE L'INFORMATION DE PASSAGE A NIVEAU EN TEMPS REEL EN VUE DE SOUTENIR LA PRISE DE DECISION DE GESTION DE TRAFIC**  
[72] REMPEL, GARRETH, CA  
[72] TERNOWETSKY, NEIL, CA  
[72] REIMER, MARK, CA  
[72] BIAN, CHAO, CA  
[73] TRAINFO CORP., CA  
[86] (2928783)  
[87] (2928783)  
[22] 2016-05-04  
[30] US (62/158,172) 2015-05-07

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,929,040**  
[13] C

[51] **Int.Cl. A61M 1/34 (2006.01) A61M 27/00 (2006.01) B01D 46/00 (2006.01)**  
[25] EN  
[54] **FLUID FILTRATION DEVICE AND SYSTEM**  
[54] **DISPOSITIF ET SYSTEME DE FILTRATION DE FLUIDE**  
[72] BONANO, SAMANTHA, US  
[72] LIZAUCKAS, ANTHONY, US  
[72] PEPE, GREGORY, US  
[72] SHVETSOV, KYRYLO, US  
[73] BUFFALO FILTER LLC, US  
[85] 2016-04-28  
[86] 2014-10-13 (PCT/US2014/060276)  
[87] (WO2015/065687)  
[30] US (61/896,826) 2013-10-29  
[30] US (14/106,123) 2013-12-13

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[11] **2,929,912**  
[13] C

[51] **Int.Cl. G01V 9/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR STRESS INVERSION VIA IMAGE LOGS AND FRACTURING DATA**  
[54] **SYSTEME ET METHODE D'INVERSION DE CONTRAINTE AU MOYEN DE DIAGRAPHIES D'IMAGE ET DE DONNEES DE FRACTURATION**  
[72] SHAHRI, MOJTABA PORDEL, US  
[72] MUTLU, OVUNC, US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[86] (2929912)  
[87] (2929912)  
[22] 2016-05-13  
[30] US (14/715,880) 2015-05-19

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[11] **2,930,111**  
[13] C

[51] **Int.Cl. B60B 33/00 (2006.01) A01B 69/00 (2006.01) A01B 73/00 (2006.01) A01D 89/00 (2006.01)**  
[25] EN  
[54] **CASTER WHEEL ASSEMBLY FOR AN AGRICULTURAL IMPLEMENT**  
[54] **ENSEMBLE DE ROUE PIVOTANTE POUR UN ACCESSOIRE AGRICOLE**  
[72] DIENST, JOHNATHON R., US  
[72] CONNORS, MICHAEL J., US  
[73] CNH INDUSTRIAL AMERICA LLC, US  
[86] (2930111)  
[87] (2930111)  
[22] 2016-05-16  
[30] US (14/797,009) 2015-07-10

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[11] **2,930,341**  
[13] C

[51] **Int.Cl. B29C 70/02 (2006.01) B29C 63/02 (2006.01) E03C 1/18 (2006.01)**  
[25] EN  
[54] **SANITARY BASIN MOLDED PART AND METHOD FOR MANUFACTURING SUCH A SANITARY BASIN MOLDED PART**  
[54] **BAC SANITAIRE MOULE ET PROCEDE DE FABRICATION D'UN BAC SANITAIRE MOULE DE CE TYPE**  
[72] PATERNOSTER, RUDOLF, DE  
[72] PREUSS, JOSEF, DE  
[73] SCHOCK GMBH, DE  
[85] 2016-05-11  
[86] 2014-09-23 (PCT/EP2014/002575)  
[87] (WO2015/070940)  
[30] DE (10 2013 019 536.5) 2013-11-15

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[11] **2,931,603**  
[13] C

[51] **Int.Cl. G02F 1/33 (2006.01) G01N 21/64 (2006.01)**  
[25] EN  
[54] **ACOUSTO-OPTIC DEFLECTOR COMPRISING MULTIPLE ELECTRO-ACOUSTIC TRANSDUCERS**  
[54] **DEFLECTEUR ACOUSTO-OPTIQUE COMPRENANT DE MULTIPLES TRANSDUCTEURS ELECTRO-ACOUSTIQUES**  
[72] ROZSA, BALAZS JOZSEF, HU  
[72] KATONA, GERGELY, HU  
[72] MAAK, PAL ANDOR, HU  
[73] FEMTONICS KFT., HU  
[85] 2016-05-25  
[86] 2013-11-28 (PCT/HU2013/000115)  
[87] (WO2015/079269)

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[11] **2,931,628**  
[13] C

[51] **Int.Cl. A47G 9/10 (2006.01) A47C 27/08 (2006.01)**  
[25] EN  
[54] **NOVEL FUNCTIONALLY SUPPORTIVE PILLOWS AND METHODS OF PREPARATION THEREOF**  
[54] **NOUVEAUX OREILLERS APPORTANT UN SOUTIEN FONCTIONNEL ET LEURS PROCEDES DE PREPARATION**  
[72] LIRAN, GIORA, US  
[72] LEVY, EYAL, US  
[73] YOGIBO LLC, US  
[85] 2016-05-25  
[86] 2014-11-26 (PCT/US2014/067790)  
[87] (WO2015/081312)  
[30] US (61/910,031) 2013-11-27

**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,933,360**  
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) H02B 3/00 (2006.01) H02J 3/00 (2006.01) H02S 10/00 (2014.01) H02K 7/18 (2006.01)**

[25] EN

[54] **UTILITY GRID, INTERMITTENT ENERGY MANAGEMENT SYSTEM**

[54] **RESEAU DE DISTRIBUTION D'ELECTRICITE, SYSTEME DE GESTION D'ENERGIE INTERMITTENT**

[72] PAVLOVSKI, ALEXANDRE, CA

[72] ANICHKOV, DMITRIY, US

[73] GREEN POWER LABS INC., CA

[85] 2016-06-09

[86] 2014-12-22 (PCT/US2014/071944)

[87] (WO2015/100256)

[30] US (61/921,077) 2013-12-26

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[11] **2,934,280**  
[13] C

[51] **Int.Cl. G06F 16/901 (2019.01) G06F 16/907 (2019.01) G06F 7/00 (2006.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **LONG STRING PATTERN MATCHING OF AGGREGATED ACCOUNT DATA**

[54] **FILTRAGE DE LONGUES CHAINES DE CARACTERES SUR DES DONNEES DE COMPTE AGREGES**

[72] CALDWELL, JOHN RYAN, US

[72] DEWITT, BRANDON, US

[72] STIEN, BRIAN, US

[73] MX TECHNOLOGIES, INC., US

[85] 2016-06-16

[86] 2014-12-16 (PCT/US2014/070685)

[87] (WO2015/095242)

[30] US (61/916,703) 2013-12-16

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[11] **2,934,284**  
[13] C

[51] **Int.Cl. G06K 9/68 (2006.01) H04N 21/23 (2011.01) H04N 21/80 (2011.01) G06T 11/60 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR RECOGNITION OF ITEMS IN MEDIA DATA AND DELIVERY OF INFORMATION RELATED THERETO**

[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE D'ELEMENTS DANS DONNEES MULTIMEDIAS ET DE DISTRIBUTION D'INFORMATIONS LES CONCERNANT**

[72] MCDEVITT, JOHN, US

[73] HSNI, LLC, US

[86] (2934284)

[87] (2934284)

[22] 2012-01-18

[62] 2,824,329

[30] US (61/433,755) 2011-01-18

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[11] **2,934,451**  
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 47/00 (2012.01)**

[25] EN

[54] **SMART GROUPING LEGEND**

[54] **LEGENDE DE REGROUPEMENT INTELLIGENTE**

[72] WISE, MATTHEW EDWIN, US

[73] LANDMARK GRAPHICS CORPORATION, US

[85] 2016-06-17

[86] 2014-01-30 (PCT/US2014/013875)

[87] (WO2015/116103)

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[11] **2,934,752**  
[13] C

[51] **Int.Cl. B01F 15/02 (2006.01) B01D 19/00 (2006.01)**

[25] EN

[54] **TANK OVERFLOW PIPE ADJUSTABLE DECHLORINATING DEVICE**

[54] **DISPOSITIF DE DECHLORATION REGLABLE DE TUYAU DE TROP-PLEIN DE RESERVOIR**

[72] DUER, MICHAEL J., US

[72] HANDKE, PAUL E., US

[73] RED VALVE COMPANY, INC., US

[86] (2934752)

[87] (2934752)

[22] 2016-06-30

[30] US (62/186,863) 2015-06-30

[30] US (15/198,352) 2016-06-30

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[11] **2,935,074**  
[13] C

[51] **Int.Cl. H01B 13/34 (2006.01) H01B 3/30 (2006.01) H01B 7/36 (2006.01)**

[25] EN

[54] **HIGH VISIBILITY CABLE**

[54] **CABLE A HAUTE VISIBILITE**

[72] RANGANATHAN, SATHISH KUMAR, US

[72] MURALI, SUJITH, US

[72] MALINOSKI, JON MICHAEL, US

[72] FRANKOWSKI, SCOTT EDWARD, US

[72] SIRIPURAPU, SRINIVAS, US

[72] MHETAR, VIJAY, US

[72] LAWSON, BARRY EUGENE, US

[73] GENERAL CABLE TECHNOLOGIES CORPORATION, US

[85] 2016-06-23

[86] 2014-12-23 (PCT/US2014/072185)

[87] (WO2015/100342)

[30] US (61/920,035) 2013-12-23

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[11] **2,935,633**  
[13] C

[51] **Int.Cl. A47C 31/00 (2006.01) A47C 27/00 (2006.01)**

[25] EN

[54] **COVER ASSEMBLIES FOR MATTRESSES**

[54] **ENSEMBLES HOUSES POUR MATELAS**

[72] JENSEN, IDA T., DK

[72] OBERWELZ, ELGER, US

[72] OVERTHUN, THOMAS D.C., US

[72] SCHNITZER, MARTIN, US

[72] JOHNSON, KARA W., US

[73] TEMPUR WORLD, LLC, US

[85] 2016-06-29

[86] 2014-12-30 (PCT/US2014/072647)

[87] (WO2015/103186)

[30] US (14/145,867) 2013-12-31

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[11] **2,936,547**  
[13] C

[51] **Int.Cl. B65D 33/28 (2006.01)**

[25] EN

[54] **DRAWSTRING TRASH BAG**

[54] **SAC-POUBELLE A CORDON**

[72] MOODY, WADE MORGAN, US

[72] COBLER, BRAD A., US

[73] POLY-AMERICA, L.P., US

[86] (2936547)

[87] (2936547)

[22] 2016-07-19

[30] US (14/859,414) 2015-09-21

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[11] **2,936,547**  
[13] C

[51] **Int.Cl. B65D 33/28 (2006.01)**

[25] EN

[54] **DRAWSTRING TRASH BAG**

[54] **SAC-POUBELLE A CORDON**

[72] MOODY, WADE MORGAN, US

[72] COBLER, BRAD A., US

[73] POLY-AMERICA, L.P., US

[86] (2936547)

[87] (2936547)

[22] 2016-07-19

[30] US (14/859,414) 2015-09-21

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,937,732**  
[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 23/00 (2006.01) E21B 34/00 (2006.01)**

[25] EN

[54] **SIGNAL OPERATED ISOLATION VALVE**

[54] **VANNE D'ISOLEMENT ACTIONNEE PAR SIGNAL**

[72] NOSKE, JOE, US

[72] SMITH, RODDIE R., GB

[72] SMITH, PAUL L., US

[72] BAILEY, THOMAS F., US

[72] MCDOWELL, CHRISTOPHER L., US

[72] TILTON, FREDERICK T., US

[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[86] (2937732)

[87] (2937732)

[22] 2011-09-20

[62] 2,811,118

[30] US (61/384,493) 2010-09-20

[30] US (13/227,847) 2011-09-08

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[11] **2,939,815**  
[13] C

[51] **Int.Cl. A61C 3/00 (2006.01) A61C 5/42 (2017.01) A61C 1/08 (2006.01)**

[25] EN

[54] **THERAPEUTIC TOOTH BUD ABLATION**

[54] **ABLATION THERAPEUTIQUE DE BOURGEON DENTAIRE**

[72] COLBY, LEIGH E., US

[73] TRIAGENICS, INC., US

[86] (2939815)

[87] (2939815)

[22] 2010-05-10

[62] 2,761,652

[30] US (61/177,143) 2009-05-11

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[11] **2,939,821**  
[13] C

[51] **Int.Cl. A61C 3/00 (2006.01) A61C 5/42 (2017.01) A61C 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR VOLUME SCANNING**

[54] **METHODE DE BALAYAGE DE VOLUME**

[72] COLBY, LEIGH E., US

[73] TRIAGENICS, INC., US

[86] (2939821)

[87] (2939821)

[22] 2010-05-10

[62] 2,761,652

[30] US (61/177,143) 2009-05-11

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[11] **2,940,731**  
[13] C

[51] **Int.Cl. H04W 76/12 (2018.01) H04W 12/06 (2009.01)**

[25] EN

[54] **METHOD FOR ACCESSING LOCAL SERVICES IN WLANS**

[54] **PROCEDE POUR ACCEDER A DES SERVICES LOCAUX DANS DES RESEAUX LOCAUX SANS FIL**

[72] FORSMAN, MATS, SE

[72] THYNI, TOMAS, SE

[72] ANDERSSON, PER-OLA, SE

[72] WELIN, ANNIKKI, SE

[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2016-08-24

[86] 2014-02-24 (PCT/SE2014/050226)

[87] (WO2015/126300)

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[11] **2,941,230**  
[13] C

[51] **Int.Cl. C07K 1/18 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **METHOD FOR PURIFYING IMMUNOGLOBULIN**

[54] **PROCEDE DE PURIFICATION D'IMMUNOGLOBULINE**

[72] SON, KI-HWAN, KR

[72] KANG, YONG, KR

[72] PARK, DONG-HWAN, KR

[72] CHOI, SUNG MIN, KR

[72] SEO, KANG YUN, KR

[72] KIM, KI-YONG, KR

[73] GREEN CROSS HOLDINGS CORPORATION, KR

[85] 2016-08-30

[86] 2014-03-11 (PCT/KR2014/002020)

[87] (WO2015/137530)

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[11] **2,941,232**  
[13] C

[51] **Int.Cl. C07K 1/36 (2006.01) C07K 1/18 (2006.01) C07K 1/30 (2006.01) C07K 1/34 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **METHOD FOR PURIFYING IMMUNOGLOBULIN**

[54] **PROCEDE DE PURIFICATION D'IMMUNOGLOBULINE**

[72] PARK, DONG-HWAN, KR

[72] SON, KI-HWAN, KR

[72] SEO, KANG YUN, KR

[72] CHOI, SUNG MIN, KR

[72] LEE, GUN SUL, KR

[72] KIM, KI-YONG, KR

[73] GREEN CROSS HOLDINGS CORPORATION, KR

[85] 2016-08-30

[86] 2014-03-11 (PCT/KR2014/002021)

[87] (WO2015/137531)

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[11] **2,941,824**  
[13] C

[51] **Int.Cl. C07D 263/48 (2006.01) A61K 31/421 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **SUBSTITUTED PHENYLAMINO-OXAZOLE-4-CARBOXYLIC ACID AMIDES AS TYK2 KINASE INHIBITORS**

[54] **AMIDES D'ACIDE PHENYLAMINO-OXAZOLE-4-CARBOXYLIQUE SUBSTITUES EN TANT QU'INHIBITEURS DE LA KINASE TYK2**

[72] READER, JOHN CHARLES, GB

[73] SAREUM LIMITED, GB

[85] 2016-09-02

[86] 2013-09-03 (PCT/EP2013/068198)

[87] (WO2015/032423)



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[11] **2,942,317**  
[13] C

[51] **Int.Cl. D06M 13/53 (2006.01) B05D 1/18 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR AUTOMATED PRODUCTION OF A ROLL OF WAXED FABRIC**  
[54] **APPAREILLAGE DE PRODUCTION AUTOMATISEE D'UN ROULEAU DE TISSU CIRE**  
[72] DESROSIERS, TONI MARIE, CA  
[72] BALL, LIAM, CA  
[72] GUNSTONE, ADRIAN, CA  
[72] ANDERSON, JACOB, CA  
[72] CHARLTON, MORGAN, CA  
[72] HINDS, DOUGLAS, CA  
[73] ABEEGO DESIGNS INC., CA  
[86] (2942317)  
[87] (2942317)  
[22] 2016-09-15

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[11] **2,942,634**  
[13] C

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 50/06 (2012.01) G06Q 50/08 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ADVANCED SANITARY SEWER INFRASTRUCTURE MANAGEMENT**  
[54] **SYSTEMES ET PROCEDES POUR LA GESTION D'INFRASTRUCTURES D'EGOUTS SANITAIRES**  
[72] CURRIN, DAVID BRETT, US  
[72] EASTER, C. CLARK, US  
[72] MARSH, BRENDAN, US  
[72] RICHARDS, II, EDMUND BENNETT, US  
[72] WOOD, JUSTIN CHARLES, US  
[72] CASTILLO AQUEVEQUE, ROGELIO FERNANDO, US  
[73] T4 SPATIAL LLC, US  
[85] 2016-09-13  
[86] 2013-03-14 (PCT/US2013/031724)  
[87] (WO2014/142929)

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[11] **2,943,441**  
[13] C

[51] **Int.Cl. H04W 4/14 (2009.01) H04W 80/10 (2009.01)**  
[25] EN  
[54] **SHORT MESSAGE SERVICE MOBILE ORIGINATED/MOBILE TERMINATED WITHOUT MOBILE STATION INTERNATIONAL SUBSCRIBER DIRECTORY NUMBER (MSISDN) IN INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS)**  
[54] **SERVICE DE MESSAGES COURTS PROVENANT D'UN MOBILE/A DESTINATION D'UN MOBILE SANS NUMERO INTERNATIONAL D'ABONNE MOBILE (MSISDN) DANS UN SOUS-SYSTEME MULTIMEDIA DE PROTOCOLE INTERNET (IMS)**  
[72] WONG, CURT, US  
[72] MUTIKAINEN, JARI, FI  
[73] NOKIA TECHNOLOGIES OY, FI  
[86] (2943441)  
[87] (2943441)  
[22] 2013-04-08  
[62] 2,869,116  
[30] US (61/622166) 2012-04-10

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[11] **2,944,769**  
[13] C

[51] **Int.Cl. G01R 31/36 (2020.01) B60L 58/10 (2019.01) G01R 31/371 (2019.01) H01M 10/48 (2006.01) H02J 15/00 (2006.01)**  
[25] EN  
[54] **POWER STORAGE DEVICE, CONTROL METHOD, CONTROL DEVICE, POWER STORAGE SYSTEM, MAINTENANCE SYSTEM, ELECTRIC VEHICLE, AND ELECTRONIC EQUIPMENT**  
[54] **DISPOSITIF DE STOCKAGE DE COURANT, PROCEDE DE COMMANDE, DISPOSITIF DE COMMANDE, SYSTEME DE STOCKAGE DE COURANT, SYSTEME DE MAINTENANCE, VEHICULE ELECTRIQUE ET EQUIPEMENT ELECTRONIQUE**  
[72] SUGENO, NAOYUKI, JP  
[72] ODASHIMA, YOSHIHIRO, JP  
[72] SATO, KAZUMI, JP  
[72] TERAUCHI, MASUMI, JP  
[72] ENDO, NARUHIKO, JP  
[72] TAJIMA, TOSHIO, JP  
[72] UMETSU, KOJI, JP  
[73] MURATA MANUFACTURING CO., LTD., JP  
[85] 2016-10-03  
[86] 2015-03-18 (PCT/JP2015/001494)  
[87] (WO2015/155939)  
[30] JP (2014-081830) 2014-04-11

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[11] **2,945,688**  
[13] C

[51] **Int.Cl. C08J 3/22 (2006.01) B09B 3/00 (2006.01) C08K 3/04 (2006.01) C08L 101/00 (2006.01)**  
[25] EN  
[54] **RENEWABLE REPLACEMENTS FOR CARBON BLACK IN COMPOSITES AND METHODS OF MAKING AND USING THEREOF**  
[54] **SUBSTITUTS RENOUVELABLES DU NOIR DE CARBONE DANS DES COMPOSITES, ET PROCEDES DE FABRICATION ET D'UTILISATION DE CEUX-CI**  
[72] MOHANTY, AMAR, CA  
[72] MISRA, MANJUSRI, CA  
[72] BALI, ATUL, CA  
[72] RODRIGUEZ-URIBE, ARTURO, CA  
[73] UNIVERSITY OF GUELPH, CA  
[85] 2016-07-28  
[86] 2015-03-13 (PCT/CA2015/050189)  
[87] (WO2015/135080)  
[30] US (61/952,964) 2014-03-14

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[11] **2,947,052**  
[13] C

[51] **Int.Cl. B01D 53/02 (2006.01) B01D 71/02 (2006.01) B01J 20/18 (2006.01) B01J 29/70 (2006.01) C01B 39/02 (2006.01) C01B 39/46 (2006.01)**

[25] EN

[54] **SEPARATION AND STORAGE OF FLUIDS USING ITQ-55**

[54] **SEPARATION ET STOCKAGE DE FLUIDES UTILISANT DE L'ITQ-55**

[72] CORCORAN, EDWARD W., JR., US

[72] KORTUNOV, PAVEL, US

[72] PAUR, CHARANJIT S., US

[72] RAVIKOVITCH, PETER I., US

[72] WANG, YU, US

[72] CORMA CANOS, AVELINO, ES

[72] VALENCIA VALENCIA, SUSANA, ES

[72] REY GARCIA, FERNANDO, ES

[72] CANTIN SANZ, ANGEL, ES

[72] PALOMINO ROCA, MIGUEL, ES

[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US

[85] 2016-10-26

[86] 2015-06-19 (PCT/US2015/036636)

[87] (WO2015/196043)

[30] ES (P201430935) 2014-06-20

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[11] **2,947,305**  
[13] C

[51] **Int.Cl. F04B 39/00 (2006.01) F04B 27/04 (2006.01)**

[25] EN

[54] **CONNECTING ROD FOR AN AIR COMPRESSOR**

[54] **BIELLE DESTINEE A UN COMPRESSEUR D'AIR**

[72] HRITZ, JEFFREY, US

[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US

[85] 2016-10-27

[86] 2015-05-11 (PCT/US2015/030123)

[87] (WO2015/172137)

[30] US (61/990,974) 2014-05-09

[30] US (14/705,360) 2015-05-06

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[11] **2,947,690**  
[13] C

[51] **Int.Cl. B65G 45/16 (2006.01)**

[25] EN

[54] **BELT STRIPPER HAVING MODULE INCLINATION**

[54] **RACLEUR DE COURROIE A POSITION OBLIQUE DU MODULE**

[72] SCHWARZE, HANS-OTTO, DE

[73] KILL-FRECH, CORNELIA, DE

[85] 2016-11-01

[86] 2015-04-23 (PCT/EP2015/000837)

[87] (WO2015/165577)

[30] DE (10 2014 006 281.3) 2014-05-02

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[11] **2,947,782**  
[13] C

[51] **Int.Cl. A61F 2/00 (2006.01) A61B 5/00 (2006.01) A61F 5/00 (2006.01)**

[25] FR

[54] **IMPLANTABLE OCCLUSION SYSTEM COMPRISING A DEVICE FOR DETECTING ATROPHY OF A NATURAL CONDUIT**

[54] **SYSTEME OCCLUSIF IMPLANTABLE COMPRENANT UN DISPOSITIF DE DETECTION DE L'ATROPHIE D'UN CONDUIT NATUREL**

[72] LAMRAOUI, HAMID, FR

[73] UROMEMS, FR

[85] 2016-11-02

[86] 2014-05-21 (PCT/EP2014/060467)

[87] (WO2014/187870)

[30] FR (1354534) 2013-05-21

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[11] **2,947,863**  
[13] C

[51] **Int.Cl. B01B 1/00 (2006.01)**

[25] EN

[54] **NETWORKED BOILER SYSTEM**

[54] **SYSTEME DE CHAUDIERE RESEAUTEE**

[72] WILSON, JOHN, US

[72] OSIENSKI, RICHARD, US

[72] RAWSON, MARK, US

[72] HANNIGAN, BRIAN, US

[72] ABAD, DAVID, US

[72] FIALLOS, OMAR, US

[73] MESTEK, INC., US

[86] (2947863)

[87] (2947863)

[22] 2016-11-04

[30] US (62/251,815) 2015-11-06

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[11] **2,948,321**  
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) G05B 19/02 (2006.01) G06F 9/455 (2018.01) G06G 7/48 (2006.01)**

[25] EN

[54] **EMPLOYING A TARGET RISK ATTRIBUTE PREDICTOR WHILE DRILLING**

[54] **EMPLOI D'UN PREDICTEUR D'ATTRIBUT DE RISQUE CIBLE PENDANT LE FORAGE**

[72] DURSUN, SERKAN, US

[72] SAMUEL, ROBELLO, US

[72] ANIKET, US

[73] LANDMARK GRAPHICS CORPORATION, US

[85] 2016-11-07

[86] 2014-08-21 (PCT/US2014/052156)

[87] (WO2015/191095)

[30] US (62/009,822) 2014-06-09

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[11] **2,948,356**  
[13] C

[51] **Int.Cl. G06K 9/60 (2006.01) G01C 25/00 (2006.01) G06T 3/40 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING PUPILLARY DISTANCE AND SCALE**

[54] **SYSTEMES ET PROCEDES POUR DETERMINER UN ECART ET UNE ECHELLE PUPILLAIRES**

[72] COON, JONATHAN, US

[72] TURETZKY, DARREN, US

[72] ENGLE, RYAN, US

[85] 2016-11-07

[86] 2015-05-08 (PCT/US2015/030011)

[87] (WO2015/172097)

[30] US (61/990,556) 2014-05-08

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[11] **2,948,477**  
[13] C

[51] **Int.Cl. F03B 13/06 (2006.01)**

[25] EN

[54] **PUMPED HYDRO TOWER**

[54] **TOUR HYDRAULIQUE A LIQUIDE POMPE**

[72] JONES, JERALD EDWARD, US

[72] RHOADES, VALERIE LISA, US

[73] ILLINOIS TOOL WORKS INC., US

[85] 2016-11-08

[86] 2015-02-19 (PCT/US2015/016515)

[87] (WO2015/175068)

[30] US (14/279,119) 2014-05-15

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[11] **2,948,569**  
[13] C

[51] **Int.Cl. F42B 33/00 (2006.01) F42B 30/00 (2006.01) F42B 99/00 (2006.01)**

[25] EN

[54] **MECHANICALLY ADAPTABLE PROJECTILE AND METHOD OF MANUFACTURING THE SAME**

[54] **PROJECTILE ADAPTABLE MECANIQUEMENT ET METHODE DE FABRICATION ASSOCIEE**

[72] TEIG, RANDY S., US

[72] TEIG, ADAM H., US

[73] TEIG, RANDY S., US

[73] TEIG, ADAM H., US

[86] (2948569)

[87] (2948569)

[22] 2016-11-10

[30] US (14/939194) 2015-11-12

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[11] **2,950,450**  
[13] C

[51] **Int.Cl. H05B 6/74 (2006.01) F24C 7/02 (2006.01)**

[25] EN

[54] **SEMICONDUCTOR MICROWAVE OVEN AND SEMICONDUCTOR MICROWAVE SOURCE THEREOF**

[54] **FOUR A MICRO-ONDES A SEMI-CONDUCTEUR ET SOURCE DE MICRO-ONDES A SEMI-CONDUCTEUR POUR CELUI-CI**

[72] ZHANG, FEINA, CN

[72] TANG, XIANGWEI, CN

[72] DU, XIANTAO, CN

[72] LIU, MINYONG, CN

[73] GUANGDONG MIDEA KITCHEN APPLIANCES MANUFACTURING CO., LTD., CN

[73] MIDEA GROUP CO., LTD., CN

[85] 2016-11-28

[86] 2014-11-06 (PCT/CN2014/090428)

[87] (WO2015/180416)

[30] CN (201410232874.X) 2014-05-28

[30] CN (201410232381.6) 2014-05-28

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[11] **2,950,592**  
[13] C

[51] **Int.Cl. A61L 9/04 (2006.01) A61L 9/12 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM OF A NETWORK OF DIFFUSERS INCLUDING A LIQUID LEVEL SENSOR**

[54] **PROCEDE ET SYSTEME DE RESEAU DE DIFFUSEURS COMPRENANT UN CAPTEUR DE NIVEAU DE LIQUIDE**

[72] CONROY, THOMAS A., US

[72] BECKER, TODD H., US

[72] SIEGEL, THOMAS G., US

[73] CONROY, THOMAS A., US

[73] BECKER, TODD H., US

[73] SCENTBRIDGE HOLDINGS, LLC, US

[85] 2016-11-24

[86] 2015-04-17 (PCT/US2015/026460)

[87] (WO2015/161246)

[30] US (61/981,533) 2014-04-18

[30] US (62/045,989) 2014-09-04

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[11] **2,950,712**  
[13] C

[51] **Int.Cl. E06B 1/04 (2006.01) E06B 1/12 (2006.01) E06B 1/36 (2006.01) E06B 1/52 (2006.01)**

[25] EN

[54] **MASONRY LINTEL FOR LONG SPANS**

[54] **LINTEAU DE MACONNERIE DESTINE A DE LONGUES TRAVEES**

[72] HOHMANN, RONALD P., JR., US

[72] OSMANSKI, RICHARD, US

[72] MASON, CHRISTOPHER, US

[73] MITEK HOLDINGS, INC., US

[86] (2950712)

[87] (2950712)

[22] 2016-12-02

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[11] **2,951,297**  
[13] C

[51] **Int.Cl. H02G 3/02 (2006.01) F21S 8/02 (2006.01) F21V 21/04 (2006.01) H02G 3/08 (2006.01)**

[25] EN

[54] **LUMINAIRE JUNCTION BOX HOUSING**

[54] **LOGEMENT DE BOITE DE RACCORDEMENT DE LUMINAIRE**

[72] SCHUBERT, MATTHEW, US

[72] STAUNER, JOSEPH, US

[73] ABL IP HOLDING LLC, US

[86] (2951297)

[87] (2951297)

[22] 2016-12-09

[30] US (62/264979) 2015-12-09

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[11] **2,952,883**  
[13] C

[51] **Int.Cl. B65B 11/04 (2006.01) B65B 11/02 (2006.01) B65B 65/08 (2006.01) G01B 5/04 (2006.01)**

[25] EN

[54] **PALLET WRAP MACHINE MONITOR**

[54] **DISPOSITIF DE CONTROLE DE MACHINE D'EMBALLAGE PAR RETRACTION DE PALETTES**

[72] ASHBY, JOHN W., CA

[72] CAPSON, SAMUEL J., CA

[72] SCHIECK, MARTIN J., CA

[73] CRAWFORD PACKAGING INC., CA

[85] 2016-12-19

[86] 2015-06-19 (PCT/CA2015/050571)

[87] (WO2015/192250)

[30] US (62/014,254) 2014-06-19

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August 25, 2020**

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[11] **2,952,888**  
[13] C

[51] **Int.Cl. G10L 19/20 (2013.01)**  
[25] EN  
[54] **IMPROVING CLASSIFICATION BETWEEN TIME-DOMAIN CODING AND FREQUENCY DOMAIN CODING**  
[54] **AMELIORATION DE LA CLASSIFICATION ENTRE LE CODAGE DANS LE DOMAINE TEMPOREL ET LE CODAGE DANS LE DOMAINE FREQUENTIEL**  
[72] GAO, YANG, US  
[73] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2016-12-19  
[86] 2015-07-23 (PCT/CN2015/084931)  
[87] (WO2016/015591)  
[30] US (62/029,437) 2014-07-26  
[30] US (14/511,943) 2014-10-10

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[11] **2,952,977**  
[13] C

[51] **Int.Cl. E03F 5/04 (2006.01) E03C 1/22 (2006.01)**  
[25] EN  
[54] **DRAIN AND DRAIN LEVELING MECHANISM**  
[54] **DRAIN ET MECANISME DE MISE A NIVEAU DE DRAIN**  
[72] HUBER, DONALD GENE, US  
[73] THE DRAIN COMPANY, LLC, US  
[85] 2016-12-19  
[86] 2015-07-09 (PCT/US2015/039807)  
[87] (WO2016/007787)  
[30] US (62/023,685) 2014-07-11

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[11] **2,953,294**  
[13] C

[51] **Int.Cl. H04W 24/10 (2009.01) H04W 72/08 (2009.01)**  
[25] EN  
[54] **MANAGEMENT OF WIRELESS DEVICES IN LIMITED RADIO COVERAGE**  
[54] **GESTION DE DISPOSITIFS SANS FIL DANS UNE COUVERTURE RADIO LIMITEE**  
[72] SCHLIWA-BERTLING, PAUL, SE  
[72] SUNDBERG, MARTEN, SE  
[72] DIACHINA, JOHN WALTER, US  
[72] JOHANSSON, NICKLAS, SE  
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2016-12-21  
[86] 2015-06-24 (PCT/IB2015/054746)  
[87] (WO2015/198244)  
[30] US (62/016,558) 2014-06-24  
[30] US (62/107,847) 2015-01-26  
[30] US (14/748,026) 2015-06-23

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[11] **2,953,620**  
[13] C

[51] **Int.Cl. G02B 21/26 (2006.01) G01N 1/14 (2006.01) G01N 1/28 (2006.01) G01N 15/00 (2006.01) G01N 15/02 (2006.01) G01N 15/06 (2006.01) G01N 21/59 (2006.01) G01N 35/00 (2006.01)**  
[25] EN  
[54] **SAMPLE PROCESSING IMPROVEMENTS FOR MICROSCOPY**  
[54] **AMELIORATIONS DE TRAITEMENT D'ECHANTILLON DESTINEES A LA MICROSCOPIE**  
[72] FINE, ALAN MARC, CA  
[72] MACAULAY, HERSHEL, CA  
[72] HYMES-VANDERMEULEN, NOAH, CA  
[73] ALENTIC MICROSCIENCE INC., CA  
[85] 2016-12-23  
[86] 2014-06-25 (PCT/CA2014/050610)  
[87] (WO2014/205576)  
[30] US (61/839,735) 2013-06-26

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[11] **2,954,312**  
[13] C

[51] **Int.Cl. B23Q 17/09 (2006.01)**  
[25] EN  
[54] **ELECTRONICALLY CONTROLLED SUBSTRATE WORKING APPARATUS**  
[54] **APPAREIL DE TRAVAIL DE SUBSTRAT A CONTROLE ELECTRONIQUE**  
[72] BOHNER, STEPHAN E., CA  
[73] 2141632 ONTARIO INC., CA  
[86] (2954312)  
[87] (2954312)  
[22] 2017-01-12  
[30] US (62/278,574) 2016-01-14

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[11] **2,954,464**  
[13] C

[51] **Int.Cl. H04L 12/22 (2006.01) H04L 12/26 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETECTING AN ATTACK ON A WORK ENVIRONMENT CONNECTED TO A COMMUNICATION NETWORK**  
[54] **PROCEDE DE DETECTION D'UNE ATTAQUE SUR UN ENVIRONNEMENT DE TRAVAIL CONNEXTE A UN RESEAU DE COMMUNICATION**  
[72] OCHSE, MARCO, DE  
[73] DEUTSCHE TELEKOM AG, DE  
[85] 2017-01-06  
[86] 2015-07-02 (PCT/EP2015/065143)  
[87] (WO2016/005273)  
[30] EP (14176736.8) 2014-07-11

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[11] **2,955,614**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61J 15/00 (2006.01) A61M 5/142 (2006.01)**  
[25] EN  
[54] **DETECTION SYSTEM FOR FLOW CONTROL APPARATUS**  
[54] **APPAREIL DE COMMANDE D'ECOULEMENT COMPRENANT UN SYSTEME DE DETECTION**  
[72] BOULANGER, JASON, US  
[72] HUDSON, JOSEPH, US  
[72] TRELFOURD, LESTER PAUL, US  
[73] KPR U.S., LLC, US  
[85] 2017-01-18  
[86] 2015-07-22 (PCT/US2015/041510)  
[87] (WO2016/014651)  
[30] US (62/028,983) 2014-07-25

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[11] **2,955,831**  
[13] C

[51] **Int.Cl. B29C 64/00 (2017.01) B33Y 80/00 (2015.01) B64F 5/00 (2017.01) C25D 5/56 (2006.01)**

[25] EN

[54] **TOOLING HAVING A DURABLE METALLIC SURFACE OVER AN ADDITIVELY FORMED POLYMER BASE AND METHOD OF FORMING SUCH TOOLING**

[54] **OUTILLAGE COMPORTANT UNE SURFACE METALLIQUE DURABLE SUR UNE BASE DE POLYMERE FORMEE DE MANIERE ADDITIVE ET METHODE DE FORMAGE D'UN TEL OUTILLAGE**

[72] TSOTSIS, THOMAS K., US  
[73] THE BOEING COMPANY, US  
[86] (2955831)  
[87] (2955831)  
[22] 2017-01-20  
[30] US (15/089739) 2016-04-04

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[11] **2,956,402**  
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01)**

[25] EN

[54] **FRAME WITH INTEGRAL SEWING CUFF FOR PROSTHETIC VALVES**

[54] **CADRE AVEC MANCHON DE SUTURE INTEGRE POUR VALVES PROTHETIQUES**

[72] GASSLER, PAUL D., US  
[73] W.L. GORE & ASSOCIATES, INC., US  
[85] 2017-01-25  
[86] 2015-08-13 (PCT/US2015/045002)  
[87] (WO2016/028591)  
[30] US (62/038,727) 2014-08-18

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[25] EN

[54] **ANTI-LAG3 ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS**

[54] **ANTICORPS ET FRAGMENTS DE FIXATION A L'ANTIGENE ANTI-LAG3**

[72] LIANG, LINDA, US  
[72] FAYADAT-DILMAN, LAURENCE, US  
[72] MALEFYT, RENE DE WAAL, US  
[72] RAGHUNATHAN, GOPALAN, US  
[73] MERCK SHARP & DOHME CORP., US  
[85] 2017-02-02  
[86] 2015-08-17 (PCT/US2015/045481)  
[87] (WO2016/028672)  
[30] US (62/039,081) 2014-08-19  
[30] US (62/171,319) 2015-06-05

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[13] C

[51] **Int.Cl. C02F 3/10 (2006.01) B01J 19/30 (2006.01) C02F 3/00 (2006.01) C02F 1/28 (2006.01) C02F 3/32 (2006.01)**

[25] EN

[54] **BIOCOMPOSITE MATERIAL FOR PURIFICATION OF SEWAGE WATERS FROM NITRITE, NITRATE AND PHOSPHATE IONS**

[54] **MATERIAU BIOCOMPOSITE POUR L'ELIMINATION DES IONS NITRITE, NITRATE ET PHOSPHATE PRESENTS DANS DES EAUX D'EGOUT**

[72] DEDOV, ALEKSEI GEORGIEVICH, RU  
[72] IVANOVA, EKATERINA ALEKSANDROVNA, RU  
[72] BELOUSOVA, ELENA EVGENYEVNA, RU  
[72] DOLNIKOVA, GALINA ALEKSANDROVNA, RU  
[72] ISHKOV, ALEKSANDR GAVRILOVICH, RU  
[72] IDIATULOV, RAFET KUTUZOVICH, RU  
[72] KIRPICHNIKOV, MIKHAIL PETROICH, RU  
[72] LOBAKOVA, ELENA SERGEEVNA, RU  
[72] SANDZHIEVA, DELGIR ANDREEVNA, RU  
[72] PONOMARENKO, ANNA DMITRIEVNA, RU  
[72] SHARONOVA, ANASTASIA NIKOLAEVNA, RU  
[73] PUBLICHNOE AKTSIONERNOE OBSHESTVO "GAZPROM", RU  
[85] 2017-02-08  
[86] 2015-12-09 (PCT/RU2015/000864)  
[87] (WO2016/204649)  
[30] RU (2015123301) 2015-06-17

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[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/00 (2012.01) E21B 47/008 (2012.01)**  
[25] EN  
[54] **DOWNHOLE SENSOR SYSTEM FOR STEAM BREAKTHROUGH DETECTION**  
[54] **SYSTEME DE CAPTEUR DE FOND DE TROU DESTINE A LA DETECTION DE PERCEE DE VAPEUR**  
[72] PART, DARREN, CA  
[72] FOUILLARD, PHIL, CA  
[72] UGRICIC, DANIEL, CA  
[73] OILFIELD EQUIPMENT DEVELOPMENT CENTER LIMITED, SC  
[86] (2957757)  
[87] (2957757)  
[22] 2017-02-13  
[30] US (62/296,454) 2016-02-17  
[30] US (15/428,579) 2017-02-09

[11] **2,957,779**  
[13] C

[51] **Int.Cl. B60D 1/42 (2006.01)**  
[25] EN  
[54] **ROTATABLE TWO-POINT HITCH SYSTEM**  
[54] **MECANISME D'ATTACHE ROTATIVE A DEUX POINTS**  
[72] HARNETIAUX, TRAVIS LESTER, US  
[73] CNH INDUSTRIAL AMERICA LLC, US  
[86] (2957779)  
[87] (2957779)  
[22] 2017-02-13  
[30] US (15/073,205) 2016-03-17

[11] **2,957,942**  
[13] C

[51] **Int.Cl. B66C 17/00 (2006.01) E04C 3/02 (2006.01)**  
[25] EN  
[54] **CRANE RAIL**  
[54] **RAIL DE GRUE**  
[72] GIVENS, RAYMOND D., CA  
[73] GIVENS, RAYMOND D., CA  
[86] (2957942)  
[87] (2957942)  
[22] 2017-02-14

[11] **2,958,113**  
[13] C

[51] **Int.Cl. C07B 37/06 (2006.01) D21C 1/02 (2006.01) C08H 8/00 (2010.01)**  
[25] EN  
[54] **ENERGY-EFFICIENT AND ENVIRONMENTALLY FRIENDLY PROCESS FOR THE PRODUCTION OF FURFURAL FROM LIGNOCELLULOSIC MATERIAL**  
[54] **PROCESSUS ECOENERGETIQUE ET RESPECTUEUX DE L'ENVIRONNEMENT POUR LA PRODUCTION DE FURYLALDEHYDE A PARTIR DE MATIERE LIGNOCELLULOSIQUE**  
[72] MARCKMANN, HENNING, DE  
[72] HORTSCH, RALF, DE  
[72] SCHUTH, MARCO, DE  
[72] ARZT, BERNHARD, DE  
[73] CLARIANT INTERNATIONAL LTD, CH  
[85] 2017-02-14  
[86] 2015-07-30 (PCT/EP2015/067573)  
[87] (WO2016/020269)  
[30] EP (14002758.2) 2014-08-06

[11] **2,958,185**  
[13] C

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[25] EN  
[54] **FC VARIANTS WITH ALTERED BINDING TO FCRN**  
[54] **VARIANTS DE FC AVEC UNE LIAISON ALTEREE A FCRN**  
[72] CHAMBERLAIN, AARON, US  
[72] DAHIYAT, BASSIL, US  
[72] DESJARLAIS, JOHN RUDOLPH, US  
[72] KARKI, SHER BAHADUR, US  
[72] LAZAR, GREGORY ALAN, US  
[73] XENCOR, INC., US  
[86] (2958185)  
[87] (2958185)  
[22] 2008-12-22  
[62] 2,703,997  
[30] US (61/016,793) 2007-12-26  
[30] US (61/031,353) 2008-02-25  
[30] US (61/046,353) 2008-04-18  
[30] US (61/050,172) 2008-05-02  
[30] US (61/079,779) 2008-07-10  
[30] US (61/099,178) 2008-09-22

[11] **2,959,214**  
[13] C

[51] **Int.Cl. D06M 10/00 (2006.01) D06M 14/18 (2006.01) D06M 15/263 (2006.01) H01B 7/288 (2006.01)**  
[25] EN  
[54] **TEXTILE FABRIC FOR PREVENTING THE PENETRATION AND SPREADING OF WATER IN CABLES**  
[54] **STRUCTURE TEXTILE PERMETTANT D'EMPECHER QUE DE L'EAU NE S'INTRODUISE ET NE SE REPANDE DANS DES CABLES**  
[72] KRAMER, DOMINIC, DE  
[72] SCHNEIDER, ULRICH, DE  
[72] JARRE, GERALD, DE  
[72] SCHUSTER, MATTHIAS, DE  
[72] ZAPLATILEK, NERMINA, DE  
[72] SUTTER, MARCO, DE  
[72] SMITH, IAIN, GB  
[73] CARL FREUDENBERG KG, DE  
[85] 2017-02-24  
[86] 2015-09-01 (PCT/EP2015/069940)  
[87] (WO2016/034578)  
[30] DE (102014012888.1) 2014-09-04

[11] **2,959,933**  
[13] C

[51] **Int.Cl. A01B 69/00 (2006.01) B62D 9/00 (2006.01)**  
[25] EN  
[54] **IMPLEMENT STEERABLE TRACK ASSEMBLY WITH PIVOTING STEERING ACTUATOR**  
[54] **MECANISME DE RAIL DIRIGEABLE D'ACCESSOIRE DOTE D'UN ACTIONNEUR DE DIRECTION PIVOTANT**  
[72] PRICKEL, MARVIN A., US  
[72] PRODDUTURI, SHIVAKUMAR, US  
[72] LYKKEN, TOM, US  
[72] ZACH, DAVID ALLEN, US  
[73] CNH INDUSTRIAL AMERICA LLC, US  
[86] (2959933)  
[87] (2959933)  
[22] 2017-03-06  
[30] US (15/093,094) 2016-04-07

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[13] C

[51] **Int.Cl. E21B 21/06 (2006.01)**  
[25] EN  
[54] **INDUCTION HEATER FOR DRILLING CUTTINGS AND OTHER MATERIALS AND METHOD**  
[54] **APPAREIL DE CHAUFFAGE A INDUCTION DESTINE AUX DEBLAIS DE FORAGE ET AUTRES MATERIAUX, ET METHODE**  
[72] FOLK, ROBERT, CA  
[72] LACHANCE, ADRIAN, CA  
[73] ELECTRIC HORSEPOWER INC., CA  
[86] (2960052)  
[87] (2960052)  
[22] 2017-03-07  
[30] US (62/304,897) 2016-03-07

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[13] C

[51] **Int.Cl. A61K 31/352 (2006.01) A61P 31/04 (2006.01)**  
[25] EN  
[54] **A PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF BACTERIAL MULTI-DRUG RESISTANT INFECTIONS**  
[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DES INFECTIONS BACTERIENNES RESISTANTES A DE NOMBREUX MEDICAMENTS**  
[72] VISHWAKARMA, RAM, IN  
[72] KUMAR, AJAY, IN  
[72] KHAN, INSHAD ALI, IN  
[72] BHARATE, SANDIP BIBISHAN, IN  
[72] JOSHI, PRASHANT, IN  
[72] SINGH, SAMSHER, IN  
[72] SATTI, NARESH, IN  
[73] COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, IN  
[85] 2017-03-07  
[86] 2015-10-21 (PCT/IN2015/050143)  
[87] (WO2016/067309)  
[30] IN (3077/DEL/2014) 2014-10-29

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[13] C

[51] **Int.Cl. B65G 53/24 (2006.01) B65G 53/42 (2006.01)**  
[25] EN  
[54] **VACUUM CONVEYOR WITH INTAKE NOZZLE AND SLEEVE**  
[54] **MECANISME DE TRANSPORT A VIDE A BUSE D'ADMISSION ET MANCHON**  
[72] CARTERI, JONATHAN ROBERT, CA  
[72] BROBERG, NICHOLAS, CA  
[72] KAEDING, MICHAEL RYAN, CA  
[72] PEUTERT, CHANCE, CA  
[73] BRANDT INDUSTRIES CANADA LTD., CA  
[86] (2960550)  
[87] (2960550)  
[22] 2017-03-13  
[30] CA (2,932,814) 2016-06-14

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[11] **2,960,846**  
[13] C

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 39/108 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01)**  
[25] EN  
[54] **ADJUVANTS CONTAINING DEAE DEXTRAN, IMMUNOSTIMULATORY OLIGONUCLEOTIDE AND OIL**  
[54] **ADJUVANTS RENFERMANT DU DEAE DEXTRAN, UN OLIGONUCLEOTIDE IMMUNOSTIMULATOIRE ET DE L'HUILE**  
[72] BAGI, CEDO MARTIN, US  
[72] CHILDERS, TEDD ALAN, US  
[72] DOMINOWSKI, PAUL JOSEPH, US  
[72] KREBS, RICHARD LEE, US  
[72] MANNAN, RAMASAMY MANNAR, US  
[72] OLSEN, MARY KATHRYN, US  
[72] THOMPSON, JAMES RICHARD, US  
[72] WEERATNA, RISINI DHAMMIKA, US  
[72] YANCEY, ROBERT JOHN, JR., US  
[72] ZHANG, SHUCHENG, US  
[72] MEDIRATTA, SANGITA, US  
[73] ZOETIS SERVICES LLC, US  
[86] (2960846)  
[87] (2960846)  
[22] 2009-06-24  
[62] 2,723,786  
[30] US (61/076,232) 2008-06-27  
[30] US (61/214,557) 2009-04-24

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[13] C

[51] **Int.Cl. B41J 2/175 (2006.01) G03G 21/14 (2006.01) H04N 1/034 (2006.01)**  
[25] EN  
[54] **REPLACEABLE ITEM AUTHENTICATION**  
[54] **AUTHENTICATION D'ARTICLE REMPLACABLE**  
[72] PANSHIN, STEPHEN D., US  
[72] WARD, JEFFERSON P., US  
[72] NESS, ERIK D., US  
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US  
[85] 2017-03-23  
[86] 2016-10-27 (PCT/US2016/059107)  
[87] (WO2018/080495)

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[13] C

[51] **Int.Cl. A61K 31/713 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**  
[25] EN  
[54] **METHODS FOR TREATING EYE DISORDERS**  
[54] **PROCEDES DE TRAITEMENT DE TROUBLES OCULAIRES**  
[72] FEINSTEIN, ELENA, IL  
[72] ALPERT, EVGENIA, IL  
[72] METT, IGOR, IL  
[72] BAR-ILAN, AMIR, IL  
[72] SPIVAK, IGOR, IL  
[72] KALINSKI, HAGAR, IL  
[72] SLAGER, NETANJA, IL  
[73] QUARK PHARMACEUTICALS, INC., US  
[86] (2962219)  
[87] (2962219)  
[22] 2009-10-22  
[62] 2,738,957  
[30] US (61/196,995) 2008-10-22  
[30] US (61/198,931) 2008-11-11  
[30] IL (PCT/IL2009/000179) 2009-02-15

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[13] C

[51] **Int.Cl. A61L 27/50 (2006.01) A61F 2/30 (2006.01) A61K 9/00 (2006.01) A61L 27/14 (2006.01) A61L 27/30 (2006.01) A61L 27/38 (2006.01) A61L 27/40 (2006.01) A61L 27/54 (2006.01) A61L 27/56 (2006.01)**

[25] EN

[54] **ARTICULAR CARTILAGE REPAIR**

[54] **REPARATION DU CARTILAGE ARTICULAIRE**

[72] GUILAK, FARSHID, US

[72] ESTES, BRADLEY T., US

[72] MOUTOS, FRANKLIN THOMAS, US

[73] CYTEX THERAPEUTICS, INC., US

[85] 2017-03-22

[86] 2015-09-23 (PCT/US2015/051695)

[87] (WO2016/049166)

[30] US (62/053,883) 2014-09-23

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[11] **2,963,910**  
[13] C

[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/62 (2006.01)**

[25] EN

[54] **CATIONIC MULTIPLE QUATERNARY AMMONIUM-BASED SURFACTANTS FOR ENHANCING PRODUCTION IN SUBTERRANEAN FORMATIONS**

[54] **TENSIOACTIFS CATIONIQUES A BASE DE MULTIPLES AMMONIUMS QUATERNAIRES POUR L'AUGMENTATION DE LA PRODUCTION DANS DES FORMATIONS SOUTERRAINES**

[72] HE, KAI, US

[72] ZHAO, FUNIAN, US

[72] QU, LIANGWEI, US

[72] XU, LIANG, US

[73] MULTI-CHEM GROUP, LLC, US

[85] 2017-04-06

[86] 2014-12-22 (PCT/US2014/071862)

[87] (WO2016/105338)

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[11] **2,964,306**  
[13] C

[51] **Int.Cl. C22B 3/38 (2006.01) C22B 3/06 (2006.01) C22B 60/02 (2006.01)**

[25] EN

[54] **PROCESSING FOR THE EXTRACTION OF RARE EARTH ELEMENTS**

[54] **TRAITEMENT POUR L'EXTRACTION D'ELEMENTS DES TERRES RARES**

[72] KASAINI, HENRY, US

[73] RARE ELEMENT RESOURCES, LTD., US

[85] 2017-04-10

[86] 2015-10-13 (PCT/US2015/055403)

[87] (WO2016/058007)

[30] US (62/062,705) 2014-10-10

[30] US (62/074,608) 2014-11-03

[30] US (62/165,155) 2015-05-21

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[11] **2,964,394**  
[13] C

[51] **Int.Cl. C08F 220/56 (2006.01)**

[25] EN

[54] **POLYACRYLAMIDE RESIN, PAPERMAKING ADDITIVE, AND PAPER**

[54] **RESINE POLYACRYLAMIDE, ADDITIF DE FABRICATION DU PAPIER ET PAPIER**

[72] FUJIWARA, TAKAHIRO, JP

[72] FUKUDA, ATSUSHI, JP

[73] HARIMA CHEMICALS, INCORPORATED, JP

[85] 2017-04-13

[86] 2016-10-14 (PCT/JP2016/080481)

[87] (WO2017/073355)

[30] JP (2015-214877) 2015-10-30

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[11] **2,965,067**  
[13] C

[51] **Int.Cl. H03M 13/27 (2006.01) H04H 20/71 (2009.01) H03M 13/11 (2006.01) H03M 13/23 (2006.01)**

[25] EN

[54] **APPARATUS FOR TIME INTERLEAVING AND METHOD USING THE SAME**

[54] **APPAREIL D'ENTRELACAGE TEMPOREL ET METHODE D'UTILISATION ASSOCIEE**

[72] LIM, BO-MI, KR

[72] KWON, SUN-HYOUNG, KR

[72] PARK, SUNG-IK, KR

[72] LEE, JAE-YOUNG, KR

[72] KIM, HEUNG-MOOK, KR

[72] HUR, NAM-HO, KR

[73] ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KR

[86] (2965067)

[87] (2965067)

[22] 2017-04-24

[30] KR (10-2016-0051128) 2016-04-26

[30] KR (10-2016-0052350) 2016-04-28

[30] KR (10-2017-0047880) 2017-04-13

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[11] **2,965,087**  
[13] C

[51] **Int.Cl. B64F 5/23 (2017.01) G01N 1/18 (2006.01) G01N 1/20 (2006.01)**

[25] EN

[54] **METHOD OF SAMPLING DE-ICING FLUID AND SYSTEM FOR SAMPLING DE-ICING FLUID**

[54] **PROCEDE D'ECHANTILLONNAGE DE FLUIDE DE DEGIVRAGE, ET SYSTEME D'ECHANTILLONNAGE DE FLUIDE DE DEGIVRAGE**

[72] SVANEBJERG, ELO, DK

[72] VESTERGAARD, STEFAN, DK

[73] VESTERGAARD COMPANY A/S, DK

[85] 2017-04-19

[86] 2014-10-24 (PCT/IB2014/065579)

[87] (WO2016/063112)



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[13] C

[51] **Int.Cl. A43B 5/00 (2006.01) A63B 21/055 (2006.01) A63B 69/00 (2006.01)**  
[25] EN  
[54] **FOOTWEAR ARTICLE FOR USE WITH RESISTANCE EXERCISE SYSTEM**  
[54] **CHAUSSURES DESTINEES A ETRE UTILISEES AVEC UN SYSTEME D'EXERCICE A LA RESISTANCE**  
[72] SCHREIBER, DANIEL, US  
[72] CRANKE, CHRISTOPHER T., US  
[73] FUNCTIONWEAR, LLC, US  
[86] (2965316)  
[87] (2965316)  
[22] 2013-05-06  
[62] 2,872,422  
[30] US (13/464,853) 2012-05-04  
[30] US (61/778,726) 2013-03-13

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[11] **2,965,538**  
[13] C

[51] **Int.Cl. G01R 29/26 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS OF MEASURING AND DETERMINING NOISE PARAMETERS**  
[54] **SYSTEMES ET PROCEDES DE MESURE ET DE DETERMINATION DE PARAMETRES DE BRUIT**  
[72] SIMPSON, GARY R., US  
[73] MAURY MICROWAVE, INC., US  
[85] 2017-04-21  
[86] 2015-10-27 (PCT/US2015/057531)  
[87] (WO2016/073241)  
[30] US (62/074,466) 2014-11-03  
[30] US (14/921,763) 2015-10-23

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[11] **2,966,466**  
[13] C

[51] **Int.Cl. A61K 31/403 (2006.01) A61K 31/4035 (2006.01) A61K 31/427 (2006.01) A61K 31/4439 (2006.01) A61P 31/20 (2006.01) C07D 209/56 (2006.01) C07D 401/12 (2006.01) C07D 409/12 (2006.01) C07D 417/12 (2006.01)**  
[25] EN  
[54] **CHEMICALS, COMPOSITIONS, AND METHODS FOR TREATMENT AND PREVENTION OF ORTHOPOXVIRUS INFECTIONS AND ASSOCIATED DISEASES**  
[54] **PRODUITS CHIMIQUES, COMPOSITIONS ET PROCEDES DE TRAITEMENT ET DE PREVENTION DES INFECTIONS A ORTHOPOXVIRUS ET DES MALADIES ASSOCIEES**  
[72] JORDAN, ROBERT, US  
[72] BAILEY, THOMAS R., US  
[72] RIPPIN, SUSAN R., US  
[72] DAI, DONGCHENG, US  
[73] SIGA TECHNOLOGIES, INC., US  
[86] (2966466)  
[87] (2966466)  
[22] 2007-04-23  
[62] 2,866,037  
[30] US (11/785,998) 2007-04-23

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[11] **2,966,588**  
[13] C

[51] **Int.Cl. H04W 56/00 (2009.01) H04L 5/14 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR SYNCHRONIZATION SIGNAL**  
[54] **SYSTEMES ET PROCEDES POUR SIGNAL DE SYNCHRONISATION**  
[72] YIN, ZHANPING, US  
[72] NOGAMI, TOSHIZO, US  
[72] KOWALSKI, JOHN MICHAEL, US  
[73] SHARP KABUSHIKI KAISHA, JP  
[85] 2017-05-01  
[86] 2015-11-06 (PCT/US2015/059585)  
[87] (WO2016/073927)  
[30] US (62/077,106) 2014-11-07  
[30] US (14/933,870) 2015-11-05

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[11] **2,967,064**  
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR FACILITATING SHIPPING OF PARCELS FOR RETURNING ITEMS**  
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FACILITER L'EXPEDITION DE COLIS POUR LE RETOUR D'ARTICLES**  
[72] TIBBS, ANDY, US  
[72] SLAYTON, JOHN, US  
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US  
[85] 2017-05-05  
[86] 2015-11-13 (PCT/US2015/060757)  
[87] (WO2016/077807)  
[30] US (62/080,130) 2014-11-14

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[11] **2,967,228**  
[13] C

[51] **Int.Cl. B64C 39/06 (2006.01) B64C 27/26 (2006.01) B64C 27/30 (2006.01) B64C 29/02 (2006.01) B64C 39/02 (2006.01) B64D 27/02 (2006.01)**  
[25] EN  
[54] **VERTICAL TAKE OFF AND LANDING CLOSED WING AIRCRAFT**  
[54] **AERONEF A AILE FERMEE A DECOLLAGE ET ATERRISSAGE A LA VERTICALE**  
[72] FENNY, CARLOS ALEXANDER, US  
[72] OLSON, ROHN LEE, US  
[72] ZAHASKY, ANDREW JAMES, US  
[73] BELL HELICOPTER TEXTRON INC., US  
[86] (2967228)  
[87] (2967228)  
[22] 2017-05-11  
[30] US (62/336,363) 2016-05-13  
[30] US (62/336,465) 2016-05-13

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,967,232**  
[13] C

[51] **Int.Cl. E04F 15/18 (2006.01) B32B 5/02 (2006.01) B32B 5/26 (2006.01) B32B 5/28 (2006.01) B32B 5/30 (2006.01)**

[25] EN

[54] **SEPARATING MEMBRANE WITH IMPROVED ADHESION AND PROCESS FOR OBTAINING IT**

[54] **MEMBRANE DE SEPARATION DOTEE D'UNE ADHERENCE AMELIOREE ET SON PROCEDE DE PRODUCTION**

[72] CAIS, FEDERICO, IT

[72] BUSATTA, NICOLA, IT

[72] PAVAN, RENATO, IT

[73] TEMA - TECHNOLOGIES AND MATERIALS SRL, IT

[85] 2017-05-10

[86] 2016-01-26 (PCT/IB2016/000055)

[87] (WO2016/120711)

[30] IT (TV2015A000015) 2015-01-27

[30] IT (TV2015A000014) 2015-01-27

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[11] **2,967,536**  
[13] C

[51] **Int.Cl. A61N 5/10 (2006.01) A61B 90/14 (2016.01) A61B 6/04 (2006.01)**

[25] EN

[54] **PATIENT POSITIONING SYSTEM FOR RADIATION THERAPY SYSTEM**

[54] **SYSTEME DE POSITIONNEMENT DE PATIENT POUR SYSTEME DE RADIOTHERAPIE**

[72] RIGNEY, NICK, US

[72] ANDERSON, DAN, US

[72] LESYNA, DAVID, US

[72] MILLER, DAN, US

[72] MOYERS, MICHAEL, US

[72] CHENG, CHIEH, US

[72] BAUMANN, MIKE, US

[72] MCALLASTER, STEVEN, US

[72] SLATER, JERRY, US

[73] VISION RT LIMITED, GB

[86] (2967536)

[87] (2967536)

[22] 2004-08-12

[62] 2,535,121

[30] US (60/494,699) 2003-08-12

[30] US (60/579,095) 2004-06-10

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[11] **2,967,728**  
[13] C

[51] **Int.Cl. H05G 1/08 (2006.01) A61B 18/18 (2006.01) H05G 1/10 (2006.01) H05G 1/26 (2006.01)**

[25] EN

[54] **MODULAR MICROWAVE GENERATORS AND METHODS FOR OPERATING MODULAR MICROWAVE GENERATORS**

[54] **GENERATEURS DE MICRO-ONDES MODULAIRES ET METHODE D'UTILISATION DE GENERATEURS DE MICRO-ONDES MODULAIRES**

[72] BRANNAN, JOSEPH D., US

[72] BEHNKE, ROBERT J., II, US

[73] COVIDIEN LP, US

[86] (2967728)

[87] (2967728)

[22] 2017-05-18

[30] US (62/338,599) 2016-05-19

[30] US (15/598,391) 2017-05-18

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[11] **2,968,755**  
[13] C

[51] **Int.Cl. H01R 39/02 (2006.01) F16C 32/06 (2006.01) H02K 13/00 (2006.01)**

[25] EN

[54] **AIR BEARING FOR USE AS AN ADJUSTABLE CONTACT PRESSURE BRUSH**

[54] **PALIER A AIR DESTINE A UNE UTILISATION COMME BALAI DE PRESSION A CONTACT AJUSTABLE**

[72] DEVITT, ANDREW, US

[72] POLLICK, RICHARD DUANE, US

[73] NEW WAY MACHINE COMPONENTS, INC., US

[86] (2968755)

[87] (2968755)

[22] 2013-11-20

[62] 2,891,937

[30] US (61/728,595) 2012-11-20

[30] US (13/733,806) 2013-01-03

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[11] **2,969,000**  
[13] C

[51] **Int.Cl. B64D 11/06 (2006.01)**

[25] EN

[54] **CONVERTIBLE SEATING UNIT**

[54] **UNITE DE SIEGE CONVERTIBLE**

[72] LEE, JAMES SHING HIN, CN

[73] BUTTERFLY FLEXIBLE SEATING SOLUTIONS LIMITED, CN

[85] 2017-05-26

[86] 2013-12-03 (PCT/CN2013/088432)

[87] (WO2015/081496)

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[11] **2,969,620**  
[13] C

[51] **Int.Cl. F24B 1/18 (2006.01) A47B 97/00 (2006.01) A47J 37/07 (2006.01) F24C 3/08 (2006.01)**

[25] EN

[54] **TABLE TOP FIRE EFFECT ATTACHMENT**

[54] **ACCESSOIRE D'EFFET DE FEU DESTINE A UN DESSUS DE TABLE**

[72] JENKINS, CAMERON, US

[73] BOND MANUFACTURING CO., INC., US

[86] (2969620)

[87] (2969620)

[22] 2017-06-02

[30] CN (2016205387405) 2016-06-02

[30] US (15/191181) 2016-06-23

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[11] **2,969,631**  
[13] C

[51] **Int.Cl. D03D 1/00 (2006.01) D03D 5/00 (2006.01) D03D 15/00 (2006.01)**

[25] EN

[54] **BELT EDGE**

[54] **BORD DE CEINTURE**

[72] BARON, DOMINIC, GB

[72] RIPPEL, ANNA, DE

[73] CLEAR EDGE-GERMANY GMBH, DE

[85] 2017-06-02

[86] 2015-12-04 (PCT/EP2015/078727)

[87] (WO2016/087664)

[30] GB (1421689.9) 2014-12-05

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[11] **2,970,033**  
[13] A1

[51] **Int.Cl. B01D 21/26 (2006.01) C02F 1/38 (2006.01)**

[25] EN

[54] **CENTRIFUGE COLLECTION OF HEAVY MINERALS IN FLOWING WATER**

[54] **COLLECTE CENTRIFUGE DE MINERAUX LOURDS DANS L'EAU D'ECOULEMENT**

[72] KLYNE, KENNETH M., CA

[73] KLYNE, KENNETH M., CA

[86] (2970033)

[87] (2970033)

[22] 2017-06-09

[30] US (62350469) 2016-06-15

[30] US (62368351) 2016-07-29

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[11] **2,970,166**  
[13] C

[51] **Int.Cl. A01N 59/06 (2006.01) A01N 25/02 (2006.01) A01N 25/08 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01) C01F 5/00 (2006.01)**

[25] EN

[54] **IMPROVED PATHOGEN INHIBITOR**

[54] **INHIBITEUR D'AGENTS PATHOGENES AMELIOREE**

[72] SCEATS, MARK, AU

[72] HODGSON, PHILIP, AU

[73] CALIX LTD, AU

[85] 2017-06-08

[86] 2015-12-03 (PCT/AU2015/050764)

[87] (WO2016/112425)

[30] AU (2015900093) 2015-01-14

[30] AU (2015904534) 2015-11-05

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[11] **2,971,618**  
[13] C

[51] **Int.Cl. C22C 21/02 (2006.01) C22C 21/08 (2006.01) C22F 1/043 (2006.01) C22F 1/047 (2006.01) C22F 1/05 (2006.01)**

[25] EN

[54] **HIGHLY FORMABLE AUTOMOTIVE ALUMINUM SHEET WITH REDUCED OR NO SURFACE ROPING AND A METHOD OF PREPARATION**

[54] **TOLE D'ALUMINIUM HAUTEMENT DEFORMABLE POUR L'INDUSTRIE AUTOMOBILE A STRIAGE REDUIT OU NUL ET PROCEDE DE PREPARATION**

[72] KAMAT, RAJEEV G., US

[72] CUSTERS, DAVID, CA

[72] GUPTA, ALOK, CA

[72] DESPOIS, AUDE, CH

[73] NOVELIS INC., US

[85] 2017-06-19

[86] 2016-01-12 (PCT/US2016/013029)

[87] (WO2016/115120)

[30] US (62/102,124) 2015-01-12

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[11] **2,971,893**  
[13] C

[51] **Int.Cl. G02B 6/26 (2006.01) G02B 6/125 (2006.01) G02F 1/365 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DISPERSION-ENABLED QUANTUM STATE CONTROL OF PHOTONS**

[54] **SYSTEME ET METHODE DE CONTROLE D'ETAT QUANTIQUE DE PHOTONS ACTIVE PAR DISPERSION**

[72] MARCHILDON, RYAN PHILLIP, CA

[72] HELMY, AMR SAHER, CA

[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA

[86] (2971893)

[87] (2971893)

[22] 2017-06-27

[30] US (62/354,906) 2016-06-27

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[11] **2,972,351**  
[13] C

[51] **Int.Cl. C22B 11/00 (2006.01) B01J 20/20 (2006.01) B01J 20/34 (2006.01) C22B 3/04 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERING GOLD FROM ACTIVATED CARBON**

[54] **PROCEDE DE RECUPERATION D'OR A PARTIR DE CHARBON ACTIF**

[72] HATANO, KAZUHIRO, JP

[72] YOSHIMURA, AKIRA, JP

[72] TATSUMI, RYOSUKE, JP

[73] JX NIPPON MINING & METALS CORPORATION, JP

[85] 2017-06-27

[86] 2015-12-04 (PCT/JP2015/084218)

[87] (WO2016/104113)

[30] JP (2014-266245) 2014-12-26

[30] JP (2014-266260) 2014-12-26

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[11] **2,972,878**  
[13] C

[51] **Int.Cl. B64C 27/57 (2006.01) B64C 11/34 (2006.01)**

[25] EN

[54] **VARIABLE LOWER LIMIT COLLECTIVE GOVERNOR TO IMPROVE RECOVERY**

[54] **COLLECTIF A LIMITE INFERIEURE VARIABLE AMELIORANT LA RECUPERATION**

[72] SCHAEFFER, JOSEPH M., US

[73] BELL HELICOPTER TEXTRON INC., US

[86] (2972878)

[87] (2972878)

[22] 2014-03-11

[62] 2,846,150

[30] US (13/889,454) 2013-05-08

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[11] **2,973,627**  
[13] C

[51] **Int.Cl. D06M 10/06 (2006.01) A61L 9/015 (2006.01)**

[25] EN

[54] **ODOR REMOVAL ASSEMBLY**

[54] **DISPOSITIF D'ELIMINATION DES ODEURS**

[72] DRAKE, DANIEL V., US

[73] MOJACK DISTRIBUTORS, LLC, US

[86] (2973627)

[87] (2973627)

[22] 2017-07-17

[30] US (15/219,072) 2016-07-25

[30] US (15/288,778) 2016-10-07

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[11] **2,973,812**  
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01) A61F 2/95 (2013.01)**

[25] EN

[54] **INTRAVASCULAR DEVICES AND DELIVERY SYSTEMS AND USES THEREOF**

[54] **DISPOSITIFS INTRAVASCULAIRES ET SYSTEMES DE MISE EN PLACE ET UTILISATIONS ASSOCIES**

[72] SHEMESH, TZEELA MIKOVSKY, IL

[72] GERAN, MORAN, IL

[72] ASHKENAZI, AMIT, IL

[73] KEYSTONE HEART LTD., IL

[85] 2017-07-13

[86] 2016-01-20 (PCT/IB2016/000192)

[87] (WO2016/116816)

[30] US (62/105,493) 2015-01-20

[30] US (62/144,799) 2015-04-08

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[11] **2,974,643**  
[13] C

[51] **Int.Cl. A01B 63/16 (2006.01) A01D 47/00 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL HEADER WITH GROUND ENGAGING GAUGE MEMBERS FOR ABOVE GROUND CUTTING**  
[54] **BEC CUEILLEUR AGRICOLE AVEC ELEMENTS DE CALIBRATION DE PRISE AU SOL POUR COUPE AU-DESSUS DU SOL**  
[72] TALBOT, FRANCOIS R., CA  
[72] GRENIER, ERIC A., CA  
[72] HUNDT, KARL B., US  
[73] MACDON INDUSTRIES LTD., CA  
[86] (2974643)  
[87] (2974643)  
[22] 2017-07-27

[11] **2,974,790**  
[13] C

[51] **Int.Cl. B64F 5/00 (2017.01) B23P 21/00 (2006.01)**  
[25] EN  
[54] **AIRCRAFT COMPONENT POSITIONING DEVICE, AIRCRAFT ASSEMBLY SYSTEM, AND AIRCRAFT ASSEMBLY METHOD**  
[54] **DISPOSITIF DE POSITIONNEMENT DE COMPOSANTS D'AERONEF, SYSTEME D'ASSEMBLAGE D'AERONEF ET PROCEDE D'ASSEMBLAGE D'AERONEF**  
[72] GOTO, TAKUYA, JP  
[72] KANEKO, TSUYOSHI, JP  
[72] MORI, HIROTO, JP  
[72] TAKAHAGI, MICHINOBU, JP  
[72] SUZUKI, HIDEYUKI, JP  
[72] TAKESHITA, JUNICHI, JP  
[72] WADA, JIRO, JP  
[72] NAKAMURA, KATSUMI, JP  
[73] MITSUBISHI HEAVY INDUSTRIES, LTD., JP  
[85] 2017-07-24  
[86] 2016-01-27 (PCT/JP2016/052364)  
[87] (WO2016/121825)  
[30] JP (2015-014467) 2015-01-28

[11] **2,975,083**  
[13] C

[51] **Int.Cl. H04W 28/08 (2009.01)**  
[25] EN  
[54] **A WIRELESS DEVICE, A RADIO NETWORK NODE, A NETWORK NODE, AND METHODS THEREIN FOR LOAD BALANCING IN A WIRELESS COMMUNICATIONS NETWORK**  
[54] **DISPOSITIF SANS FIL, NOEUD DE RESEAU RADIO, NOEUD DE RESEAU, ET PROCEDES MIS EN OEUVRE DANS CEUX-CI POUR L'EQUILIBRAGE DE CHARGE DANS UN RESEAU DE COMMUNICATION SANS FIL**  
[72] BERGQVIST, JENS, SE  
[72] SUNDBERG, MARTEN, SE  
[72] LIBERG, OLOF, SE  
[72] SCHLIWA-BERTLING, PAUL, SE  
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2017-07-26  
[86] 2016-01-15 (PCT/SE2016/050020)  
[87] (WO2016/126183)  
[30] US (62/111,826) 2015-02-04

[11] **2,975,118**  
[13] C

[51] **Int.Cl. C11D 1/12 (2006.01) C11D 3/33 (2006.01) C11D 3/395 (2006.01) C11D 17/00 (2006.01)**  
[25] EN  
[54] **DETERGENT COMPOSITION**  
[54] **COMPOSITION DETERGENTE**  
[72] LETZELTER, NATHALIE SOPHIE, GB  
[72] RANDHAWA, ASHMITA, GB  
[72] VIALLET, SANDRINE ANNETTE HENRIETTE, GB  
[73] THE PROCTER & GAMBLE COMPANY, US  
[85] 2017-07-26  
[86] 2016-02-01 (PCT/US2016/015875)  
[87] (WO2016/126566)  
[30] EP (15153513.5) 2015-02-02

[11] **2,975,369**  
[13] C

[51] **Int.Cl. C02F 1/78 (2006.01) G01N 33/18 (2006.01)**  
[25] EN  
[54] **WATER TREATMENT APPARATUS AND WATER TREATMENT METHOD**  
[54] **APPAREIL DE TRAITEMENT DE L'EAU ET PROCEDE DE TRAITEMENT DE L'EAU**  
[72] YAMAUCHI, TOKIKO, JP  
[72] YASUNAGA, NOZOMU, JP  
[73] MITSUBISHI ELECTRIC CORPORATION, JP  
[85] 2017-07-28  
[86] 2016-01-21 (PCT/JP2016/051714)  
[87] (WO2016/121618)  
[30] JP (2015-017032) 2015-01-30

[11] **2,975,591**  
[13] C

[51] **Int.Cl. E21B 43/30 (2006.01) H04L 12/721 (2013.01)**  
[25] EN  
[54] **PATH OPTIMIZATION IN PRODUCTION NETWORK SYSTEMS**  
[54] **OPTIMISATION DE TRAJECTOIRE DANS DES SYSTEMES DE RESEAU DE PRODUCTION**  
[72] CARVAJAL, GUSTAVO, US  
[72] QUERALES, MAIQUEL MANUEL, US  
[72] MAUCEC, MARKO, US  
[72] KNABE, STEVEN P., US  
[73] LANDMARK GRAPHICS CORPORATION, US  
[85] 2017-08-01  
[86] 2015-03-04 (PCT/US2015/018781)  
[87] (WO2016/140665)

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[11] **2,975,825**  
[13] C

[51] **Int.Cl. B41J 29/38 (2006.01) B41J 2/07 (2006.01)**  
[25] EN  
[54] **PRINTHEAD EMPLOYING DATA PACKETS INCLUDING ADDRESS DATA**  
[54] **TETE D'IMPRESSION UTILISANT DES PAQUETS DE DONNEES CONTENANT DES DONNEES D'ADRESSE**  
[72] BAKKER, CHRIS, US  
[72] MARTIN, ERIC T., US  
[72] GHOZEIL, ADAM L., US  
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US  
[85] 2017-08-03  
[86] 2015-02-13 (PCT/US2015/015916)  
[87] (WO2016/130157)

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[11] **2,976,365**  
[13] C

[51] **Int.Cl. H04W 8/18 (2009.01) G06Q 30/06 (2012.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR IMPROVING EXPERIENCES OF ONLINE VISITORS TO A WEBSITE**  
[54] **PROCEDE ET APPAREIL POUR AMELIORER LE RESSENTI DE VISITEURS EN LIGNE SUR UN SITE WEB**  
[72] GHOSE, ABHISHEK, IN  
[72] CHAKRABORTY, ABIR, IN  
[72] JOSHI, PRASHANT, IN  
[73] [24]7.AI, INC., US  
[85] 2017-08-10  
[86] 2016-02-12 (PCT/US2016/017831)  
[87] (WO2016/130967)  
[30] US (62/116,237) 2015-02-13  
[30] US (15/011,439) 2016-01-29

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[11] **2,977,403**  
[13] C

[51] **Int.Cl. B63B 7/00 (2020.01) B63B 34/50 (2020.01) B63H 16/20 (2006.01) B63H 23/02 (2006.01)**  
[25] EN  
[54] **COMPACT, PEDAL-PROPELLED BOATS**  
[54] **BATEAUX COMPACTS MUS PAR PEDALES**  
[72] SANTA CATARINA, MATEUS FROIS, BR  
[73] SANTA CATARINA, MATEUS FROIS, BR  
[85] 2017-08-22  
[86] 2015-02-24 (PCT/BR2015/050015)  
[87] (WO2016/134429)

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[11] **2,977,516**  
[13] C

[51] **Int.Cl. G06K 7/01 (2006.01) H01R 12/71 (2011.01)**  
[25] EN  
[54] **HIGH DATA TRANSFER SMART CARD READER WITH HEAT SINK**  
[54] **LECTEUR DE CARTES A PUCE A TRANSFERT DE DONNEES ELEVE COMPORTANT UN DISSIPATEUR THERMIQUE**  
[72] BEALS, WILLIAM MICHAEL, US  
[73] DISH TECHNOLOGIES L.L.C., US  
[85] 2017-08-22  
[86] 2016-02-19 (PCT/US2016/018637)  
[87] (WO2016/137836)  
[30] US (14/631,734) 2015-02-25

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[11] **2,977,682**  
[13] C

[51] **Int.Cl. B27L 11/08 (2006.01) B27N 3/04 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR SEPARATING FIBERS IN WOOD LOGS**  
[54] **APPAREIL ET PROCEDE POUR SEPARER DES FIBRES DANS DES RONDINS DE BOIS**  
[72] ROONEY, KEVIN PATRICK, US  
[72] THOMAS, WILLIAM ANDERSON, US  
[72] WHITE, JAMES MICHAEL, US  
[72] SEALE, ROY DANIEL, US  
[72] WHITE, BOBBY LYN, US  
[72] BARWICK, ADAM GLENN, US  
[72] CLARK, DON ROBERTS, US  
[73] SCRIMTEC HOLDINGS, LLC, US  
[85] 2017-08-23  
[86] 2016-02-23 (PCT/US2016/019181)  
[87] (WO2016/138029)  
[30] US (14/628,412) 2015-02-23

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[11] **2,977,952**  
[13] C

[51] **Int.Cl. G06T 11/60 (2006.01) B60R 11/04 (2006.01) B60W 40/02 (2006.01) B64D 45/08 (2006.01) B64D 47/08 (2006.01) G02B 27/01 (2006.01) H04N 5/30 (2006.01) H04N 7/18 (2006.01)**  
[25] EN  
[54] **VEHICLE NAVIGATION METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS**  
[54] **PROCEDES, SYSTEMES ET PRODUITS-PROGRAMMES INFORMATIQUES POUR LA NAVIGATION DE VEHICULES**  
[72] CONNOR, SIDNEY A., US  
[72] STEVENS, J. STEDMAN, US  
[73] VU SYSTEMS, LLC, US  
[85] 2017-08-25  
[86] 2016-02-24 (PCT/US2016/019277)  
[87] (WO2016/190933)  
[30] US (62/132,291) 2015-03-12  
[30] US (14/993,536) 2016-01-12

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[11] **2,978,658**  
[13] C

[51] **Int.Cl. A23L 33/21 (2016.01) A23L 29/30 (2016.01) A61K 31/702 (2006.01) A61P 3/08 (2006.01) A61P 3/10 (2006.01) C07H 3/06 (2006.01) C12P 19/00 (2006.01) C12P 19/04 (2006.01) C12P 19/14 (2006.01) C13K 1/06 (2006.01)**

[25] EN

[54] **FOOD PRODUCTS COMPRISING A SLOWLY DIGESTIBLE OR DIGESTION RESISTANT CARBOHYDRATE COMPOSITION**

[54] **PRODUITS ALIMENTAIRES INCLUANT UNE COMPOSITION D'HYDRATE DE CARBONE RESISTANTE A LA DIGESTION OU A DIGESTIBILITE LENTE**

[72] HARRISON, MICHAEL D., US  
[72] PURDUE, JAMES C., US  
[72] PATTON, PENELOPE A., US  
[72] HOFFMAN, ANDREW J., US  
[72] GADDY, JAMES M., US  
[72] LIU, CHI-LI, US  
[72] SCHANEFELT, ROBERT V., US  
[72] ARMENTROUT, RICHARD C., US  
[72] SCHWENK, MICHELLE, US  
[72] WICKLUND, RACHEL, US  
[72] CLAESSENS, MARIANNE, US  
[72] REAMER, ERIC M., US  
[72] SPRANKLE, SHAWN E., US  
[72] AVASHIA, SANJIV H., US  
[72] GAUTCHIER, PETER M., US  
[72] OLSEN, ROBERT L., US  
[72] TURNER, JUDY L., US  
[72] MERTZ, TIMOTHY C., US  
[72] BUNCH, MICHAEL, US  
[72] DOUGHERTY, DORIS A., US  
[72] NAPIER, LORI, US  
[72] LOPEZ, MICHEL, US  
[72] SANTHANAGOPALAN, RAM, US  
[73] TATE & LYLE INGREDIENTS AMERICAS, LLC, US

[86] (2978658)  
[87] (2978658)  
[22] 2007-01-24  
[62] 2,637,125  
[30] US (11/339,306) 2006-01-25  
[30] US (11/532,219) 2006-09-15  
[30] US (11/610,639) 2006-12-14

[11] **2,978,895**  
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/30 (2012.01)**

[25] EN

[54] **ENFORCEMENT OF RULES FOR THE SHIPPING OF ITEMS**

[54] **APPLICATION DE REGLES ASSOCIEES A L'EXPEDITION D'ARTICLES**

[72] BENNETT, DAVID ALLISON, US  
[72] GOLDBERGER, LYNN SHAINDELL, US  
[72] MONSOS, CHRISTOPHER MICHAEL, US  
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US

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[54] **DRILL STRING ELEMENT**

[54] **ELEMENT DE TRAIN DE TIGES DE FORAGE**

[72] GERHARDT, TOBIAS, DE  
[72] LUBBERGER, MICHAEL, DE  
[72] ENGEL, TOBIAS, DE  
[73] HERRENKNECHT AG, DE

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[54] **APPARATUS AND METHOD FOR ENCODING/DECODING FOR HIGH-FREQUENCY BANDWIDTH EXTENSION**

[54] **SYSTEME ET METHODES PERMETTANT D'AMELIORER LA PRECISION DE RECONNAISSANCE DE LA PAROLE**

[72] CHOO, KI-HYUN, KR  
[72] OH, EUN MI, KR  
[72] SUNG, HO-SANG, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR

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[54] **FLOW REDUCING IMPLANT**

[54] **IMPLANT REDUCTEUR DE FLUX**

[72] BEN MUVHAR, SHMUEL, IL  
[72] SHALEV, ILAN, IL  
[72] TSEHORI, JONATHAN, IL  
[72] DARVISH, NISSIM, IL  
[73] NEOVASC MEDICAL LTD., IL

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[54] **MULTICOMPONENT GUMMY COMPOSITIONS WITH HARD CORE**  
[54] **COMPOSITIONS GOMMEUSES A PLUSIEURS COMPOSANTS A NOYAU DUR**  
[72] ROMANOSCHI, OVIDIU, US  
[72] ORYNIAK, CARYN, US  
[72] MUNIZ, LUIS, US  
[72] HUATAN, HIEP, GB  
[72] KANJI, NAZIM, GB  
[72] JONES, HUW, GB  
[72] BAGLEY, LINDSEY, GB  
[72] GODFREY, GRAHAM, GB  
[73] CHURCH & DWIGHT CO., INC., US  
[85] 2017-10-03  
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[54] **DETONATING CORD RETAINING DEVICE**  
[54] **DISPOSITIF DE RETENUE DE CORDEAU DETONANT**  
[72] COLLINS, WILLIAM R., US  
[72] MCDONALD, DEBRA CHRISTINE, US  
[72] WILSON, SHANE MATTHEW, US  
[72] ACEVEDO, ISAIAH, US  
[73] HUNTING TITAN, INC., US  
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[54] **A DRY POWDER INHALER AND SYSTEM FOR DRUG DELIVERY**  
[54] **INHALATEUR DE POUDRE SECHE ET SYSTEME D'ADMINISTRATION DE MEDICAMENT**  
[72] SMUTNEY, CHAD C., US  
[72] KINSEY, P. SPENCER, US  
[72] SAHI, CARL R., US  
[72] ADAMO, BENOIT, US  
[72] POLIDORO, JOHN M., US  
[72] MCLEAN, SCOTT, US  
[72] OVERFIELD, DENNIS O., US  
[72] BRYANT, ANTHONY J., US  
[72] HE, TOM, US  
[72] MANN, ALFRED, US  
[73] MANNKIND CORPORATION, US  
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[25] EN  
[54] **METHOD FOR ROUTE PROPAGATION OVER A SATELLITE LINK, AND A SYSTEM THEREOF**  
[54] **PROCEDE DE PROPAGATION DE ROUTE SUR UNE LIAISON SATELLITE, ET SYSTEME ASSOCIE**  
[72] AHLUWALIA, SANDEEP, US  
[72] XIAO, LIQING, US  
[72] WANG, RAN, US  
[72] JAIN, NEHA, US  
[73] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2017-10-18  
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[54] **MIXED DISULFIDE CONJUGATES OF THIENOPYRIDINE COMPOUNDS AND USES THEREOF**  
[54] **CONJUGUES DISULFURES MIXTES DE COMPOSES THIENOPYRIDINES ET UTILISATIONS DE CEUX-CI**  
[72] ZHANG, HAOMING, US  
[73] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US  
[85] 2017-10-18  
[86] 2016-04-29 (PCT/US2016/030261)  
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[54] **ELECTRIC DOOR LOCK**  
[54] **VERROU DE PORTE ELECTRIQUE**  
[72] SHYU, SONG-GEN, TW  
[72] CHEN, PO-YANG, TW  
[72] CHANG, CHIA-CHEN, TW  
[72] LIN, MING-SHENG, TW  
[73] TLHM CO., LTD., TW  
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[54] **IMPROVING PERFORMANCE OF COMMUNICATION NETWORK BASED ON END TO END PERFORMANCE OBSERVATION AND EVALUATION**  
[54] **AMELIORATION DU RENDEMENT D'UN RESEAU DE COMMUNICATION FONDE SUR L'OBSERVATION DE BOUT EN BOUT ET L'EVALUATION**  
[72] RICCI, ALESSIO, IT  
[73] ACCENTURE GLOBAL SOLUTIONS LIMITED, IE  
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[54] **METHOD OF MANUFACTURING IRON-BASED CATALYSTS AND METHOD OF MANUFACTURING HYDROCARBONS USING IRON-BASED CATALYSTS MADE BY THE METHOD**  
[54] **METHODE DE FABRICATION DE CATALYSEURS A BASE DE FER ET METHODE DE FABRICATION D'HYDROCARBURES EMPLOYANT DES CATALYSEURS A BASE DE FER FABRIQUES SELON LA METHODE**  
[72] CHUN, DONG HYUN, KR  
[72] JUNG, HEON, KR  
[72] HONG, SUNG JUN, KR  
[72] PARK, JI CHAN, KR  
[72] LEE, HO TAE, KR  
[72] YANG, JUNG IL, KR  
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[54] **PROCEDE DE PRODUCTION D'UN SYSTEME DE PEINTURE MULTICOUCHE**  
[72] ANDERSEN, AUDREE, DE  
[72] REUTER, HARDY, DE  
[72] RATZ, ROLAND, DE  
[72] BUERMANN, MARITA, DE  
[72] BAUER, JURGEN, DE  
[72] DIEPENBROCK, VERA, DE  
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[54] **SEAU POUR BALAI A FRANGES**  
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[72] GINGRAS, ERIC, US  
[72] LATIMER, SCOTT, US  
[72] VAN LANDINGHAM, JR., ALFRED RENEAU, US  
[73] ECOLAB USA INC., US  
[85] 2017-10-31  
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[25] FR  
[54] **APYROGENIC PREPARATION CONTAINING NANOPARTICLES SYNTHESISED BY MAGNETOTACTIC BACTERIA FOR MEDICAL OR COSMETIC APPLICATIONS.**  
[54] **PREPARATION APYROGENE CONTENANT DES NANOPARTICULES SYNTHETISEES PAR DES BACTERIES MAGNETOTACTIQUES POUR DES APPLICATIONS MEDICALES OU COSMETIQUES.**  
[72] ALPHANDERY, EDOUARD, FR  
[72] DURAND-DUBIEF, MICKAEL, FR  
[73] NANOBACTERIE, FR  
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[54] **DISPOSITIF D'ENTRAINEMENT EMBARQUE**  
[72] YOKOYAMA, NOBUAKI, JP  
[72] SHIMIZU, HIROFUMI, JP  
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[54] **METHOD FOR TESTING THE DIE-ATTACH OF A PHOTOVOLTAIC CELL ASSEMBLY**  
[54] **PROCEDE POUR TEST DE LA FIXATION A LA PUCE D'UN ENSEMBLE DE CELLULES PHOTOVOLTAIQUES**  
[72] GERSTER, ECKART, DE  
[72] MEYER-SCHONBOHM, HANNES, DE  
[73] SAINT-AUGUSTIN CANADA ELECTRIC INC., CA  
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[25] EN  
[54] **DEVICE AND METHOD FOR MANUFACTURING FIBER-REINFORCED PLASTIC MOLDED ARTICLE**  
[54] **DISPOSITIF ET PROCEDE DE FABRICATION D'UN ARTICLE MOULE EN MATIERE PLASTIQUE RENFORCE PAR FIBRES**  
[72] TOKUTOMI, HIROSHI, JP  
[72] SHIMONO, KODAI, JP  
[73] MITSUBISHI HEAVY INDUSTRIES, LTD., JP  
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[54] **HETEROCYCLIC COMPOUNDS AS INHIBITORS OF VANIN-1 ENZYME**  
[54] **COMPOSES HETEROCYCLIQUES COMME INHIBITEURS DE L'ENZYME VANINE-1**  
[72] CASIMIRO-GARCIA, AGUSTIN, US  
[72] CONDON, JEFFREY SCOTT, US  
[72] FLICK, ANDREW CHRISTOPHER, US  
[72] GOPALSAMY, ARIAMALA, US  
[72] KIRINCICH, STEVEN J., US  
[72] MATHIAS, JOHN PAUL, US  
[72] STROHBACH, JOSEPH WALTER, US  
[72] XIANG, JASON SHAOYUN, US  
[72] XING, LI HUANG, US  
[72] WANG, XIAOLUN, US  
[73] PFIZER INC., US  
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[54] **CULTIVATION SYSTEM AND METHODS**  
[54] **SYSTEME ET METHODE DE CULTURE**  
[72] MOFFITT, KYLE W., US  
[72] DENARO, CHRISTOPHER R., US  
[72] GIBSON, ROBERT A., US  
[72] SULLIVAN, JOHN M., US  
[72] ZIOLEK, LESZEK, US  
[73] STEM CULTIVATION, INC., US  
[86] (2987192)  
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[22] 2017-11-30  
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[54] **ANTITHROMBOTIC MATERIAL**  
[54] **MATERIAU ANTITHROMBOTIQUE**  
[72] KADOWAKI, KOJI, JP  
[72] SAITO, AKIHIRO, JP  
[72] NAKANISHI, MEGUMI, JP  
[72] FUJITA, MASAKI, JP  
[72] TANAHASHI, KAZUHIRO, JP  
[73] TORAY INDUSTRIES, INC., JP  
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[54] **PINCE ACCESSOIRE DESTINEE A UN GRILL**  
[72] POLACZEK, KAROL, US  
[72] SIAZON, ROMUALDO SONNY, US  
[73] WEBER-STEPHEN PRODUCTS LLC, US  
[86] (2987452)  
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[54] **OUTIL DE SERTISSAGE COMPORTANT UNE CAME AJUSTABLE**  
[72] SULLIVAN, ROBERT W., US  
[72] WANG, KUAN YU, CN  
[72] HUNG, WEN-LUNG, CN  
[73] SULLSTAR TECHNOLOGIES, INC., US  
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[54] **ENSEMBLE D'ACCOUPEMENT POUR ANCRAGE A BETON ET SUPPORT DE TIGE D'ANCRAGE**  
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[73] ESPINOSA, THOMAS M., US  
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[54] **VEHICULE TOUT TERRAIN**  
[72] VISSCHER, PETER D., CA  
[72] HEIBEIN, KEITH L., CA  
[73] ONTARIO DRIVE & GEAR LIMITED, CA  
[86] (2988837)  
[87] (2988837)  
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[25] FR  
[54] **LIQUID/LIQUID EXTRACTION**  
[54] **EXTRACTION LIQUIDE / LIQUIDE**  
[72] LEGRAND, JACQUES, FR  
[72] MERCIER, EGLANTINE, FR  
[72] SAUNOIS, ALEX, FR  
[73] LABORATOIRES EXPANSCIENCE, FR  
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[25] EN  
[54] **DRIVE SYSTEM FOR PADDLE BELT CONVEYOR**  
[54] **SYSTEME D'ENTRAINEMENT DESTINE A UN TRANSPORTEUR A COURROIE SEGMENTEE**  
[72] JOHNSON, ZACHARY, CA  
[72] KLASSEN, RONALD, CA  
[73] AG GROWTH INTERNATIONAL INC., CA  
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[25] EN  
[54] **BIAXIAL OR TRI-AXIAL ECCENTRIC ROTOR VOLUME PULSED DEFORMATION PLASTICIZING METHOD AND DEVICE**  
[54] **PROCEDE ET DISPOSITIF DE PLASTIFICATION BIAZIALE OU TRIAXIALE PAR DEFORMATION DE VOLUME PULSE PAR UN ROTOR EXCENTRIQUE**  
[72] QU, JINPING, CN  
[72] YANG, ZHITAO, CN  
[72] FENG, YANHONG, CN  
[72] YIN, XIAOCHUN, CN  
[73] SOUTH CHINA UNIVERSITY OF TECHNOLOGY, CN  
[73] GUANGZHOU HUAXINKE INTELLIGENT MANUFACTURING TECHNOLOGY CO., LTD., CN  
[85] 2017-12-13  
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[54] **MANIFOLD AND SWIVEL CONNECTIONS FOR SERVICING MULTIPLE WELLS AND METHOD OF USING SAME**  
[54] **RACCORDEMENTS DE COLLECTEUR ET RACCORDS PIVOTANTS POUR L'ENTRETIEN DE MULTIPLES PUIITS ET PROCEDE D'UTILISATION DE CEUX-CI**  
[72] CHEREWYK, BORIS (BRUCE) P., CA  
[73] ISOLATION EQUIPMENT SERVICES INC., CA  
[86] (2989914)  
[87] (2989914)  
[22] 2017-12-22  
[30] US (62/438,145) 2016-12-22  
[30] US (62/561842) 2017-09-22

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[11] **2,990,536**  
[13] C

[51] **Int.Cl. A47C 17/82 (2006.01) A47C 17/60 (2006.01)**  
[25] EN  
[54] **FURNITURE OBJECTS FOR STORING FOLDABLE BEDS**  
[54] **OBJETS DE MEUBLE SERVANT A ENTREPOSER DES LITS PLIANTS**  
[72] GROSSMAN, JOEL, US  
[72] PORTER, HOWARD, US  
[73] NIGHT AND DAY FURNITURE LLC, US  
[86] (2990536)  
[87] (2990536)  
[22] 2018-01-02  
[30] US (15/828913) 2017-12-01

**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,991,844**  
[13] C

[51] **Int.Cl. E02F 9/20 (2006.01) E02F 3/43 (2006.01) E02F 3/815 (2006.01) E02F 3/84 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM FOR WORK VEHICLE, AND METHOD FOR SETTING TRAJECTORY OF WORK IMPLEMENT**

[54] **SYSTEME DE CONTROLE DE VEHICULE DE SERVICE ET METHODE D'ETABLISSEMENT DE TRAJECTOIRE D'UN ACCESSOIRE DE TRAVAIL**

[72] HASHIMOTO, KAZUHIRO, JP

[73] KOMATSU LTD., JP

[85] 2018-01-12

[86] 2017-03-31 (PCT/JP2017/013731)

[87] (WO2018/179383)

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[11] **2,992,048**  
[13] C

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/20 (2018.01) C07K 7/06 (2006.01) C07K 14/415 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/29 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **METHOD FOR INCREASING PLANT WEIGHT AND METHOD FOR USING SAME**

[54] **PROCEDE POUR AUGMENTER LE POIDS DE VEGETAUX ET PROCEDE D'UTILISATION DE CELUI-CI**

[72] KONDO, SATOSHI, JP

[72] OHTO, CHIKARA, JP

[72] TAKAGI, MASARU, JP

[72] MATSUI, KYOKO, JP

[72] KOYAMA, TOMOTSUGU, JP

[72] MITSUDA, NOBUTAKA, JP

[72] MURAMOTO, NOBUHIKO, JP

[72] MITSUKAWA, NORIHIRO, JP

[72] TANAKA, TOMOKO, JP

[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP

[86] (2992048)

[87] (2992048)

[22] 2010-06-04

[62] 2,764,440

[30] JP (2009-135309) 2009-06-04

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[11] **2,992,058**  
[13] C

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/20 (2018.01) C07K 7/06 (2006.01) C07K 14/415 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/29 (2006.01) C12N 15/62 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **METHOD FOR INCREASING PLANT WEIGHT AND METHOD FOR USING SAME**

[54] **PROCEDE POUR AUGMENTER LE POIDS DE VEGETAUX ET PROCEDE D'UTILISATION DE CELUI-CI**

[72] KONDO, SATOSHI, JP

[72] OHTO, CHIKARA, JP

[72] TAKAGI, MASARU, JP

[72] MATSUI, KYOKO, JP

[72] KOYAMA, TOMOTSUGU, JP

[72] MITSUDA, NOBUTAKA, JP

[72] MURAMOTO, NOBUHIKO, JP

[72] MITSUKAWA, NORIHIRO, JP

[72] TANAKA, TOMOKO, JP

[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP

[86] (2992058)

[87] (2992058)

[22] 2010-06-04

[62] 2,764,440

[30] JP (2009-135309) 2009-06-04

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[11] **2,992,163**  
[13] C

[51] **Int.Cl. A61B 5/055 (2006.01)**

[25] EN

[54] **ACTIVE COIL TO SHIFT A VOLUME OF UNIFORM MAGNETIC FIELD**

[54] **BOBINE ACTIVE POUR DECALER UN VOLUME DE CHAMP MAGNETIQUE UNIFORME**

[72] BINDSEIL, GERON ANDRE, CA

[72] HARRIS, CHAD TYLER, CA

[73] SYNAPTIVE MEDICAL (BARBADOS) INC., BB

[85] 2018-01-11

[86] 2015-07-15 (PCT/IB2015/055366)

[87] (WO2017/009690)

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[11] **2,992,214**  
[13] C

[51] **Int.Cl. A63F 13/52 (2014.01) A63F 13/45 (2014.01) A63F 13/80 (2014.01) G07F 17/32 (2006.01)**

[25] EN

[54] **LIVE ACTION VIDEO GAMES**

[54] **JEUX VIDEO D'ACTION EN DIRECT**

[72] KELLY, ROSS, ZA

[72] PIEL, ARTUR, EE

[73] FUSION HOLDINGS LIMITED, IM

[86] (2992214)

[87] (2992214)

[22] 2018-01-17

[30] GB (1701410) 2017-01-27

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[11] **2,992,360**  
[13] C

[51] **Int.Cl. E05F 11/00 (2006.01) E05F 11/02 (2006.01)**

[25] EN

[54] **WINDOW OPENING CONTROL SYSTEMS AND METHODS**

[54] **MECANISMES ET METHODES DE COMMANDE D'OUVERTURE DE FENETRE**

[72] VAN ESSEN, JESSE, US

[73] PELLA CORPORATION, US

[86] (2992360)

[87] (2992360)

[22] 2018-01-19

[30] US (62/448,615) 2017-01-20

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[11] **2,992,732**  
[13] C

[51] **Int.Cl. A23G 4/08 (2006.01)**

[25] EN

[54] **CHEWING GUM AND GUM BASES CONTAINING ELASTOMERS DERIVED FROM EDIBLE OIL SOURCES**

[54] **BASES DE GOMME ET DE GOMME A MACHER CONTENANT DES ELASTOMERES DERIVES DE SOURCES D'HUILES COMESTIBLES**

[72] LIU, JINGPING, US

[73] WM. WRIGLEY JR. COMPANY, US

[85] 2018-01-16

[86] 2016-07-13 (PCT/US2016/042122)

[87] (WO2017/015031)

[30] US (62/193,625) 2015-07-17

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,992,735**  
[13] C

[51] **Int.Cl. F16B 12/26 (2006.01) F16B 5/00 (2006.01) F16B 5/06 (2006.01) F16B 5/07 (2006.01) F16B 12/10 (2006.01) F16B 12/12 (2006.01)**

[25] EN

[54] **CLIP LOCK FASTENERS AND FASTENING SYSTEM**

[54] **ELEMENTS DE FIXATION A CLIP DE SECURITE ET SYSTEME DE FIXATION**

[72] KOELLING, FRED, US

[72] KOELLING, BRYAN, US

[72] SAVAGE, DANIEL, US

[73] LOCKDOWEL, INC., US

[85] 2018-01-16

[86] 2016-07-20 (PCT/US2016/043206)

[87] (WO2017/015403)

[30] US (62/194,794) 2015-07-20

[30] US (62/245,211) 2015-10-22

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[11] **2,993,051**  
[13] C

[51] **Int.Cl. G06Q 20/16 (2012.01)**

[25] EN

[54] **ELECTRONIC CERTIFICATE PAYMENT INFORMATION TRANSMISSION METHOD, DEVICE AND SYSTEM**

[54] **PROCEDE, DISPOSITIF ET SYSTEME DE TRANSMISSION D'INFORMATIONS DE PAIEMENT PAR CERTIFICAT ELECTRONIQUE**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[85] 2018-01-19

[86] 2015-07-21 (PCT/CN2015/084631)

[87] (WO2017/012041)

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[11] **2,993,583**  
[13] C

[51] **Int.Cl. G06Q 20/10 (2012.01)**

[25] EN

[54] **METHOD, SERVER, TERMINAL, AND SYSTEM FOR CHANGING PERIOD OF VALIDITY OF ELECTRONIC CERTIFICATE**

[54] **PROCEDE, SERVEUR, TERMINAL ET SYSTEME POUR CHANGER LA PERIODE DE VALIDITE D'UN CERTIFICAT ELECTRONIQUE**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[85] 2018-01-22

[86] 2015-07-21 (PCT/CN2015/084577)

[87] (WO2017/012008)

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[11] **2,993,825**  
[13] C

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01) B01J 19/12 (2006.01)**

[25] EN

[54] **SINGLE DIODE DISINFECTION**

[54] **DESINFECTION PAR DIODE UNIQUE**

[72] LALICKI, JOREL, US

[72] BARRON, ROBERT, US

[72] PETERSON, JAMES W., US

[73] VITAL VIO, INC., US

[85] 2018-01-25

[86] 2016-07-29 (PCT/US2016/044634)

[87] (WO2017/019933)

[30] US (62/198,726) 2015-07-30

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[11] **2,993,873**  
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR COLLECTING SIGNALS, AND METHOD AND APPARATUS FOR TRACKING CELLS BY USING LIGHT SENSITIVE CHIP**

[54] **PROCEDE ET APPAREIL DE COLLECTE DE SIGNAL, ET PROCEDE ET APPAREIL DE SUIVI DE CELLULE A L'AIDE D'UNE PUCE SENSIBLE A LA LUMIERE**

[72] ZHANG, YINGHAO, CN

[72] ZHANG, ZHIHAO, CN

[72] ZHAN, KETUAN, CN

[72] WAN, JIA, CN

[73] SHANGHAI E-BLOT PHOTOELECTRIC TECHNOLOGY CO., LTD., CN

[85] 2018-01-26

[86] 2016-06-06 (PCT/CN2016/084913)

[87] (WO2017/005075)

[30] CN (201510398509.0) 2015-07-08

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[11] **2,993,891**  
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/20 (2006.01) A61P 35/00 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **INTERLEUKIN-15 FUSION PROTEINS FOR TUMOR TARGETING THERAPY**

[54] **PROTEINES HYBRIDES DE L'INTERLEUKINE 15 DESTINEES A UNE THERAPIE DE CIBLAGE DE TUMEURS**

[72] WANG, ZHONG, CN

[72] LI, QING, CN

[73] BJ BIOSCIENCE INC., CN

[85] 2018-01-26

[86] 2016-07-01 (PCT/CN2016/088158)

[87] (WO2017/000913)

[30] CN (201510378781.2) 2015-07-02

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[11] **2,994,601**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **TARGET ENRICHMENT BY SINGLE PROBE PRIMER EXTENSION**

[54] **ENRICHISSEMENT D'UNE CIBLE PAR EXTENSION D'UNE UNIQUE AMORCE DE SOND**

[72] GODWIN, BRIAN, US

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2018-02-02

[86] 2016-08-03 (PCT/EP2016/068546)

[87] (WO2017/021449)

[30] US (62/201,727) 2015-08-06

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[11] **2,994,639**  
[13] C

[51] **Int.Cl. E04F 15/02 (2006.01) E04C 2/40 (2006.01)**

[25] EN

[54] **FLOOR PANEL**

[54] **PANNEAU DE PLANCHER**

[72] CAPPELLE, MARK, BE

[73] FLOORING INDUSTRIES LIMITED, SARL, LU

[86] (2994639)

[87] (2994639)

[22] 2008-11-19

[62] 2,702,876

[30] BE (BE 2007/0567) 2007-11-23

[30] US (61/071.201) 2008-04-17

[30] DE (20 2008 008 597) 2008-06-26

**Brevets canadiens délivrés  
25 août 2020**

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[11] **2,994,779**  
[13] C

[51] **Int.Cl. A61K 31/436 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **USE OF 40-O-(2-HYDROXYETHYL)-RAPAMYCIN FOR INHIBITING GROWTH OF A SOLID TUMOUR OF THE BRAIN OTHER THAN LYMPHATIC CANCER**

[54] **UTILISATION DE 40-O-(2-HYDROXYETHYL)-RAPAMYCINE POUR EMPECHER LA CROISSANCE D'UNE TUMEUR SOLIDE AU CERVEAU AUTRE QU'UN CANCER LYMPHATIQUE**

[72] LANE, HEIDI, CH  
[72] O'REILLY, TERENCE, CH  
[72] WOOD, JEANETTE MARJORIE, CH  
[73] NOVARTIS AG, CH  
[86] (2994779)  
[87] (2994779)  
[22] 2002-02-18  
[62] 2,860,306  
[30] GB (0104072.4) 2001-02-19  
[30] GB (0124957.2) 2001-10-17

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[11] **2,994,880**  
[13] C

[51] **Int.Cl. A01G 31/02 (2006.01) A01G 9/02 (2018.01) A01G 13/00 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) B27N 3/20 (2006.01)**

[25] EN

[54] **METHOD FOR OBTAINING ROOT MASS FROM VEGETABLE SEEDS AND ROOT MASS OBTAINED THEREOF**

[54] **PROCEDE D'OBTENTION D'UNE MASSE RADICULAIRE A PARTIR DE SEMENCES VEGETALES ET MASSE RADICULAIRE AINSI OBTENUE**

[72] GARCIA CASTELBLANCO, ROBERTO, CL  
[73] GARCIA CASTELBLANCO, ROBERTO, CL  
[85] 2018-02-06  
[86] 2016-08-04 (PCT/CL2016/050046)  
[87] (WO2017/024419)  
[30] CL (2215-2015) 2015-08-07

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[11] **2,995,009**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/172 (2006.01) G01F 1/66 (2006.01) G05D 7/00 (2006.01)**

[25] EN

[54] **FLOW SENSOR SYSTEM INCLUDING SPRING CONTACTS**

[54] **SYSTEME CAPTEUR DE FLUX CONTENANT DES CONTACTS A RESSORT**

[72] DEKALB, SHAWN WAYNE, US  
[72] RAPTIS, MARK, US  
[73] CRISI MEDICAL SYSTEMS, INC., US  
[85] 2018-02-06  
[86] 2016-08-25 (PCT/US2016/048708)  
[87] (WO2017/040204)  
[30] US (62/211,116) 2015-08-28

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[11] **2,995,879**  
[13] C

[51] **Int.Cl. F24B 5/00 (2006.01) F24B 1/189 (2006.01) F24C 15/32 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO COOL AN EXPOSED SURFACE OF AN APPLIANCE**

[54] **SYSTEME ET METHODE DE REFROIDISSEMENT D'UNE SURFACE EXPOSEE D'UN APPAREIL ELECTROMENAGER**

[72] SCHROETER, WOLFGANG, CA  
[72] SHULVER, DAVID, CA  
[72] TJART, RICHARD, CA  
[72] LILLEY, CLIFFORD N., CA  
[73] WOLF STEEL LTD., CA  
[86] (2995879)  
[87] (2995879)  
[22] 2018-02-22  
[30] US (62/463,415) 2017-02-24

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[11] **2,996,340**  
[13] C

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/40 (2020.01)**

[25] EN

[54] **ARTICLE FOR USE WITH APPARATUS FOR HEATING SMOKABLE MATERIAL**

[54] **ARTICLE DESTINE A ETRE UTILISE AVEC UN APPAREIL POUR CHAUFFER UNE SUBSTANCE A FUMER**

[72] WILKE, ANDREW P., US  
[72] KAUFMAN, DUANE A., US  
[72] ROBEY, RAYMOND J., US  
[73] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB  
[85] 2018-02-22  
[86] 2016-08-26 (PCT/EP2016/070178)  
[87] (WO2017/036951)  
[30] US (14/840,703) 2015-08-31

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[11] **2,996,377**  
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM WITH REMOTE AIR INLET**

[54] **SYSTEME DE PRODUCTION D'AEROSOL AVEC ENTREE D'AIR DISTANTE**

[72] LEADLEY, DAVID, GB  
[72] HEPWORTH, RICHARD, GB  
[72] TRAN, MY-LINH, GB  
[73] NICOVENTURES HOLDINGS LIMITED, GB  
[85] 2018-02-22  
[86] 2016-09-12 (PCT/GB2016/052808)  
[87] (WO2017/051150)  
[30] GB (1516792.7) 2015-09-22

**Canadian Patents Issued  
August 25, 2020**

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[11] **2,996,380**  
[13] C

[51] **Int.Cl. A24F 40/65 (2020.01) H04W 4/02 (2018.01) H04W 4/30 (2018.01)**

[25] EN

[54] **VAPING HEAT MAP SYSTEM AND METHOD FOR ELECTRONIC VAPOUR PROVISION SYSTEMS**

[54] **SYSTEME ET PROCEDE DE CARTOGRAPHIE THERMIQUE DE VAPOTAGE POUR SYSTEMES ELECTRONIQUES DE FOURNITURE DE VAPEUR**

[72] BAKER, DARRYL, GB

[72] OLDBURY, ROSS, GB

[73] NICOVENTURES HOLDINGS LIMITED, GB

[85] 2018-02-22

[86] 2016-09-14 (PCT/GB2016/052829)

[87] (WO2017/055800)

[30] GB (1517089.7) 2015-09-28

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[11] **2,997,150**  
[13] C

[51] **Int.Cl. E03F 5/04 (2006.01) E03C 1/12 (2006.01)**

[25] EN

[54] **DRAIN AND DRAIN LEVELING MECHANISM**

[54] **DRAIN ET MECANISME DE NIVELLEMENT DE DRAIN**

[72] HUBER, DONALD G., US

[73] THE DRAIN COMPANY, LLC, US

[86] (2997150)

[87] (2997150)

[22] 2018-03-02

[30] US (15/593,858) 2017-05-12

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[11] **2,997,274**  
[13] C

[51] **Int.Cl. E02D 37/00 (2006.01) B25C 11/00 (2006.01) B66F 15/00 (2006.01) E04G 23/08 (2006.01)**

[25] EN

[54] **WALLBOARD REMOVAL TOOL**

[54] **OUTIL DE RETRAIT DE PANNEAU MURAL**

[72] BAUZA, AARON, US

[73] BAUZA, AARON, US

[85] 2018-03-01

[86] 2016-09-01 (PCT/US2016/049916)

[87] (WO2017/040791)

[30] US (62/212,764) 2015-09-01

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[11] **2,997,306**  
[13] C

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/24 (2006.01) A61K 8/44 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS COMPRISING AN AMINO ACID, MIXED ZINC ION SOURCES, AND A CELLULOSE/POLYSACCHARIDE THICKENING SYSTEM**

[54] **COMPOSITIONS DE SOINS BUCCAUX RENFERMANT UN ACIDE AMINE, DES SOURCES D'ION DE ZINC MELANGEES ET UN AGENT EPAISSISSANT CELLULOSE/POLYSACCHARIDE**

[72] POTANIN, ANDREI, US

[72] POTH, TILO, DE

[72] AHUJA, AMIT, US

[72] BLANVALET, CLAUDE, BE

[72] WON, BETTY, US

[72] MANUS, LISA, US

[72] STRANICK, MICHAEL A., US

[72] HUANG, XIAOYI, CN

[72] PRENCIPE, MICHAEL, US

[72] RUSSO, AMY, US

[72] STETTLER, HANSRUEDI, CH

[72] YAN, PENG, CN

[72] TAN, CHENGKANG, CN

[72] PATEL, VYOMA, US

[72] MORGAN, ANDRE MICHELLE, US

[73] COLGATE-PALMOLIVE COMPANY, US

[85] 2018-03-01

[86] 2017-06-23 (PCT/US2017/039074)

[87] (WO2017/223493)

[30] CN (PCT/CN2016/086994) 2016-06-24

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[11] **2,998,171**  
[13] C

[51] **Int.Cl. E06B 3/54 (2006.01) E04F 11/18 (2006.01)**

[25] EN

[54] **TAPER-LOC SYSTEM IMPROVEMENTS**

[54] **AMELIORATIONS AU SYSTEME A BLOCAGE CONIQUE**

[72] SPRAGUE, GARY, US

[73] C.R. LAURENCE CO., INC., US

[85] 2018-03-14

[86] 2017-10-20 (PCT/US2017/057706)

[87] (WO2018/075952)

[30] US (62/411,347) 2016-10-21

[30] US (15/788,616) 2017-10-19

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[11] **2,998,207**  
[13] C

[51] **Int.Cl. G10K 11/178 (2006.01) B64C 39/02 (2006.01) G05D 1/10 (2006.01) G05D 19/02 (2006.01) G05D 27/02 (2006.01)**

[25] EN

[54] **ACTIVE AIRBORNE NOISE ABATEMENT**

[54] **ATTENUATION ACTIVE DU BRUIT AERIEN**

[72] BECKMAN, BRIAN C., US

[72] KIMCHI, GUR, US

[73] AMAZON TECHNOLOGIES, INC., US

[85] 2018-03-08

[86] 2016-08-22 (PCT/US2016/048095)

[87] (WO2017/048464)

[30] US (14/858,270) 2015-09-18

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[11] **2,998,806**  
[13] C

[51] **Int.Cl. G01K 1/14 (2006.01) H02B 99/00 (2009.01) H01H 9/00 (2006.01)**

[25] EN

[54] **TEMPERATURE MONITORING DEVICES FOR ELECTRICAL APPARATUS, SWITCHGEARS WITH SAME AND RELATED METHODS**

[54] **DISPOSITIFS DE SURVEILLANCE DE LA TEMPERATURE DESTINES A UN APPAREIL ELECTRIQUE, APPAREILLAGE DE CONNEXION DOTE DUDIT DISPOSITIF ET METHODES ASSOCIEES**

[72] XIN, CHAO, CN

[72] WANG, YAZHOU, CN

[72] WU, BINGHUA, CN

[72] ZHU, XU, CN

[72] ZHOU, XIN, US

[73] EATON INTELLIGENT POWER LIMITED, IE

[86] (2998806)

[87] (2998806)

[22] 2018-03-21

[30] US (15/467914) 2017-03-23

**Brevets canadiens délivrés  
25 août 2020**

[11] **2,998,809**  
[13] C

- [51] **Int.Cl. G02B 27/00 (2006.01) H04B 10/40 (2013.01) G02B 6/32 (2006.01) G02B 27/10 (2006.01) H01L 31/12 (2006.01) H05K 9/00 (2006.01) G01J 1/42 (2006.01)**
- [25] EN
- [54] **BIDIRECTIONAL OPTOELECTRONIC SUB-ASSEMBLY**
- [54] **SOUS-MODULE OPTOELECTRONIQUE BIDIRECTIONNEL**
- [72] XU, JUNCHENG, US
- [72] CHICK, JAMES STEVEN, US
- [72] STAPLETON, TERRY M., US
- [73] LUMASENSE TECHNOLOGIES HOLDINGS, INC., US
- [86] (2998809)
- [87] (2998809)
- [22] 2018-03-21
- [30] US (15/468,908) 2017-03-24

[11] **2,999,123**  
[13] C

- [51] **Int.Cl. A61J 1/20 (2006.01) A61J 1/14 (2006.01) B65B 3/00 (2006.01)**
- [25] EN
- [54] **MEDICAMENT VIAL ASSEMBLY**
- [54] **ENSEMBLE FLACON DE MEDICAMENT**
- [72] GARFIELD, JARED, US
- [72] SCHRAMM, DANA, US
- [72] AHLBERG, ANDY, US
- [73] J&J SOLUTIONS, INC. D/B/A CORVIDA MEDICAL, US
- [85] 2018-03-16
- [86] 2016-09-16 (PCT/US2016/052167)
- [87] (WO2017/049107)
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[11] **2,999,750**  
[13] C

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- [25] EN
- [54] **COMPOSITIONS COMPRISING CHIA AND APRICOT OIL EXTRACTS FOR SYNCHRONIZING PER1 GENE EXPRESSION**
- [54] **COMPOSITIONS COMPRENANT DE L'HUILE DE CHIA ET DE L'HUILE D'ABRICOT POUR LA SYNCHRONISATION DE L'EXPRESSION DU GENE PER1**
- [72] PERNODET, NADINE, US
- [72] PELLE, EDWARD, US
- [73] ELC MANAGEMENT LLC, US
- [85] 2018-03-22
- [86] 2016-09-09 (PCT/US2016/050868)
- [87] (WO2017/053083)
- [30] US (14/864,207) 2015-09-24

[11] **2,999,834**  
[13] C

- [51] **Int.Cl. C04B 35/66 (2006.01) F27D 1/00 (2006.01)**
- [25] EN
- [54] **MONOLITHIC REFRACTORY**
- [54] **MATERIAU REFRACTAIRE MONOLITHIQUE**
- [72] MATSUI, TSUYOSHI, JP
- [72] GODA, KOJI, JP
- [72] KOYAMA, ATSUNORI, JP
- [72] SADATOMI, YOSHITAKA, JP
- [72] NAKAMICHI, TSUBASA, JP
- [73] NIPPON STEEL CORPORATION, JP
- [85] 2018-03-23
- [86] 2016-09-29 (PCT/JP2016/078806)
- [87] (WO2017/057566)
- [30] JP (2015-191739) 2015-09-29
- [30] JP (2016-180517) 2016-09-15

[11] **2,999,946**  
[13] C

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- [25] EN
- [54] **STEEL ALLOY WITH HIGH STRENGTH, HIGH IMPACT TOUGHNESS AND EXCELLENT FATIGUE LIFE FOR MUD MOTOR SHAFT APPLICATIONS**
- [54] **ALLIAGE D'ACIER A HAUTE RESISTANCE, HAUTE RESILIENCE ET EXCELLENTE DUREE DE RESISTANCE A LA FATIGUE POUR APPLICATIONS D'ARBRE DE MOTEUR A BOUE**
- [72] NOVOTNY, PAUL M., US
- [73] CRS HOLDINGS, INC., US
- [85] 2018-03-23
- [86] 2016-09-28 (PCT/US2016/054049)
- [87] (WO2017/058835)
- [30] US (62/233,609) 2015-09-28
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- [11] **3,000,420**  
[13] C
- [51] **Int.Cl. G01B 17/06 (2006.01) G01S 15/89 (2006.01)**
- [25] EN
- [54] **ULTRASOUND MATRIX INSPECTION**
- [54] **CONTROLE PAR MATRICE A ULTRASONS**
- [72] TEN GROTHENHUIS, RAYMOND, CA
- [72] HONG, ANDREW, CA
- [72] CHEN, ZHENXIANG, CA
- [72] MADILL, MATT, CA
- [72] SHOKRALLA, SHADDY, CA
- [72] WONG, CHENG CHUEN BENEDICT, CA
- [72] PRESTON, SCOTT, CA
- [72] SAKUTA, ALEXANDER, CA
- [73] ONTARIO POWER GENERATION INC., CA
- [86] (3000420)
- [87] (3000420)
- [22] 2012-09-26
- [62] 2,849,778
- [30] US (61/539,208) 2011-09-26
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[25] EN  
[54] **MULTIFOCAL LENS AND METHOD FOR PRODUCING SAME**  
[54] **LENTILLE MULTIFOCAL ET SON PROCEDE DE FABRICATION**  
[72] LUX, KIRSTEN, AT  
[72] PLANK, NICOLE, AT  
[72] BREZNA, WOLFGANG, AT  
[72] DRAGOSTINOFF, NIKOLAUS, AT  
[73] RAYNER INTRAOCULAR LENSES LIMITED, GB  
[85] 2018-03-29  
[86] 2016-09-29 (PCT/EP2016/073349)  
[87] (WO2017/055503)  
[30] EP (15188049.9) 2015-10-02

[11] **3,000,679**  
[13] C

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[25] EN  
[54] **SEALING HIGH PRESSURE FLOW DEVICES**  
[54] **DISPOSITIFS A DEBIT HAUTE PRESSION D'ETANCHEITE**  
[72] NOWELL, MARK S., US  
[72] FOSTER, KELCY JAKE, US  
[72] MAY, MICHAEL EUGENE, US  
[72] AYRES, BRANDON SCOTT, US  
[73] KERR MACHINE CO., US  
[85] 2018-03-29  
[86] 2016-09-29 (PCT/US2016/054499)  
[87] (WO2017/059107)  
[30] US (62/234,483) 2015-09-29  
[30] US (62/315,343) 2016-03-30  
[30] US (62/318,542) 2016-04-05  
[30] US (62/346,915) 2016-06-07

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[13] C

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[25] EN  
[54] **INTEGRATED GAS TURBINE AND CONVERSION SYSTEM PROCESS**  
[54] **TURBINE A GAZ INTEGREE ET PROCEDE ET SYSTEME DE CONVERSION**  
[72] IACCINO, LARRY L., US  
[72] LEMOINE, ROMAIN O.V., US  
[73] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2018-04-09  
[86] 2016-10-07 (PCT/US2016/056007)  
[87] (WO2017/078891)  
[30] US (62/250,674) 2015-11-04  
[30] EP (16153715.4) 2016-02-02

[11] **3,001,800**  
[13] C

[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/9038 (2019.01)**  
[25] EN  
[54] **AUTOMATED GENERATION OF NARRATIVE RESPONSES TO DATA QUERIES**  
[54] **GENERATION AUTOMATISEE DE REPONSES NARRATIVES AUX REQUETES DE DONNEES**  
[72] SHIVARAM, MADHURA, IN  
[72] TATA, SWATI, IN  
[72] KUMAR, DEEPAK, IN  
[72] SAMANTA, PRATIP, IN  
[72] RAAMADHURAI, SRIKRISHNA, IN  
[73] ACCENTURE GLOBAL SOLUTIONS LIMITED, IE  
[86] (3001800)  
[87] (3001800)  
[22] 2018-04-17  
[30] US (15/590,879) 2017-05-09

[11] **3,001,809**  
[13] C

[51] **Int.Cl. F04D 17/18 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM OF COMPRESSING GAS WITH FLOW RESTRICTIONS**  
[54] **PROCEDE ET SYSTEME DE COMPRESSION DE GAZ A RESTRICTIONS D'ECOULEMENT**  
[72] CHERRY, MARK A., US  
[72] ALDERMAN, ROBERT A., US  
[72] SHILLINGER, D. HANS, US  
[73] CARNOT COMPRESSION INC., US  
[85] 2018-04-10  
[86] 2015-10-14 (PCT/US2015/055427)  
[87] (WO2016/061164)  
[30] US (62/063,463) 2014-10-14  
[30] US (62/222,261) 2015-09-23  
[30] US (14/880,378) 2015-10-12

[11] **3,001,832**  
[13] C

[51] **Int.Cl. F03D 3/06 (2006.01) F03D 5/02 (2006.01) F03D 7/06 (2006.01)**  
[25] EN  
[54] **TURBINE WITH DYNAMICALLY ADAPTABLE SAVONIUS BLADES**  
[54] **TURBINE AVEC DES PALES DE SAVONIUS REGLABLES DYNAMIQUEMENT**  
[72] MOHAJER, HASSAN, US  
[73] MOHAJER, HASSAN, US  
[85] 2018-04-12  
[86] 2015-11-04 (PCT/US2015/059082)  
[87] (WO2016/073636)  
[30] US (14/533,868) 2014-11-05

[11] **3,002,793**  
[13] C

[51] **Int.Cl. G01G 23/00 (2006.01) A01D 90/02 (2006.01) G01G 19/08 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MEASURING GRAIN CART WEIGHT**  
[54] **SYSTEME ET METHODE DE MESURE DU POIDS D'UN CHARIOT DE GRAINS**  
[72] MEIER, IAN ROBERT, CA  
[72] LOCKERBIE, MICHAEL DAVID, CA  
[73] BITSTRATA SYSTEMS INC., CA  
[86] (3002793)  
[87] (3002793)  
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[13] C

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- [25] EN
- [54] **COMMISSIONING LOAD CONTROL SYSTEMS**
- [54] **MISE EN SERVICE DE SYSTEMES DE COMMANDE DE CHARGE**
- [72] BARCO, KYLE THOMAS, US
- [72] BARNES, BRYAN ROBERT, US
- [72] CLYMER, ERICA L., US
- [72] COURTNEY, BRIAN MICHAEL, US
- [72] CRAFTS, JORDAN H., US
- [72] FRICKE, WILLIAM BRYCE, US
- [72] KNODE, GALEN EDGAR, US
- [72] KUMAR, SANJEEV, US
- [72] LENZ, JONATHAN T., US
- [72] LUDWIG, STEPHEN M., JR., US
- [72] RAGHURAM, SANDEEP MUDABAIL, US
- [72] WALSH, RICHARD M., III, US
- [73] LUTRON TECHNOLOGY COMPANY LLC, US
- [85] 2018-04-24
- [86] 2016-10-28 (PCT/US2016/059590)
- [87] (WO2017/075542)
- [30] US (62/249,117) 2015-10-30
- [30] US (62/279,409) 2016-01-15
- [30] US (62/326,466) 2016-04-22

[11] **3,003,187**

[13] C

- [51] **Int.Cl. F16D 13/08 (2006.01) F16D 13/76 (2006.01)**
- [25] EN
- [54] **ISOLATING DECOUPLER**
- [54] **DISPOSITIF DE DECOUPLAGE ISOLANT**
- [72] SCHNEIDER, DEAN, US
- [72] SERKH, ALEXANDER, US
- [72] LANGHORST, BENJAMIN R., US
- [73] GATES CORPORATION, US
- [85] 2018-04-24
- [86] 2016-10-26 (PCT/US2016/058758)
- [87] (WO2017/078994)
- [30] US (14/930,278) 2015-11-02

[11] **3,004,344**

[13] C

- [51] **Int.Cl. G06Q 10/00 (2012.01)**
- [25] EN
- [54] **METHOD AND APPARATUS FOR DYNAMICALLY SELECTING CONTENT FOR ONLINE VISITORS**
- [54] **PROCEDE ET APPAREIL POUR SELECTIONNER DE MANIERE DYNAMIQUE UN CONTENU POUR DES VISITEURS EN LIGNE**
- [72] CHAKRABORTY, ABIR, IN
- [72] JOSHI, PRASHANT, IN
- [73] [24]7.AI, INC., US
- [85] 2018-05-03
- [86] 2016-11-10 (PCT/US2016/061380)
- [87] (WO2017/083554)
- [30] US (62/255,252) 2015-11-13
- [30] US (15/346,679) 2016-11-08

[11] **3,004,576**

[13] C

- [51] **Int.Cl. F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21V 23/00 (2015.01)**
- [25] EN
- [54] **LED LAMP WITH A FLEXIBLE HEAT SINK**
- [54] **LAMPE DEL DOTEE D'UN Puits THERMIQUE FLEXIBLE**
- [72] ELWELL, JAMES P., US
- [72] QUICK, TRENT, US
- [72] XU, BAOZHOU, US
- [73] PUTCO, INC., US
- [86] (3004576)
- [87] (3004576)
- [22] 2017-10-06
- [62] 2,981,906
- [30] US (15/720,517) 2017-09-29

[11] **3,004,773**

[13] C

- [51] **Int.Cl. G01D 4/00 (2006.01) G01F 15/075 (2006.01) G01M 3/26 (2006.01)**
- [25] EN
- [54] **DETECTING AN ERROR CONDITION BY MONITORING A RESOURCE FLOW AT A PREMISES**
- [54] **DETECTION D'UNE CONDITION D'ERREUR PAR LA SURVEILLANCE D'UN FLUX DE RESSOURCES DANS DES LOCAUX**
- [72] SHUDARK, JEFFREY, US
- [72] DAVIS, JAMES, US
- [73] LANDIS+GYR INNOVATIONS, INC., US
- [85] 2018-05-08
- [86] 2016-12-20 (PCT/US2016/067810)
- [87] (WO2017/112683)
- [30] US (62/270,282) 2015-12-21

[11] **3,004,781**

[13] C

- [51] **Int.Cl. C09D 5/00 (2006.01) B05D 7/16 (2006.01)**
- [25] EN
- [54] **METHOD FOR PRODUCING A MULTICOAT PAINT SYSTEM**
- [54] **PROCEDE DE PRODUCTION D'UNE PEINTURE MULTICOUCHE**
- [72] CORTEN, CATHRIN, DE
- [72] EIERHOFF, DIRK, DE
- [72] WILM, PATRICK, DE
- [72] SCHNIEDERS, BRITTA, DE
- [72] FREITAG, NICOLE, DE
- [72] GRUMPE, HEINZ-ULRICH, DE
- [72] SCHWARZ, JORG, DE
- [73] BASF COATINGS GMBH, DE
- [85] 2018-05-09
- [86] 2016-06-03 (PCT/EP2016/062586)
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[25] EN  
[54] **TONNEAU COVER SYSTEM WITH INTERMEDIATE AUTOMATIC LATCHING**  
[54] **SYSTEME DE COUVRE-TONNEAU DOTE DE VERROUILLAGE AUTOMATIQUE INTERMEDIAIRE**  
[72] CARTER, CHAD, US  
[72] FACCHINELLO, JEROME J., US  
[72] KNEIFL, KELLY, US  
[72] SPENCER, MICHAEL R., US  
[73] EXTANG CORPORATION, US  
[73] TRUXEDO, INC., US  
[86] (3004864)  
[87] (3004864)  
[22] 2018-05-14  
[30] US (15/642,593) 2017-07-06

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[13] C

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[25] EN  
[54] **PLUG-IN CONTACT**  
[54] **CONTACT A ENFICHER**  
[72] GESKE, RALF, DE  
[73] PHOENIX CONTACT GMBH & CO. KG, DE  
[85] 2018-05-10  
[86] 2016-11-10 (PCT/EP2016/077340)  
[87] (WO2017/081197)  
[30] DE (10 2015 119 484.8) 2015-11-11

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[11] **3,005,852**  
[13] C

[51] **Int.Cl. B60B 19/04 (2006.01) B60B 19/00 (2006.01) B60B 25/00 (2006.01) B60C 7/00 (2006.01) B60C 7/08 (2006.01) B60C 7/24 (2006.01)**  
[25] EN  
[54] **COLLAPSIBLE WHEELS AND METHODS OF MAKING COLLAPSIBLE WHEELS**  
[54] **ROUES PLIABLES ET PROCEDES DE FABRICATION DE ROUES PLIABLES**  
[72] SOLHEIM, JOHN A., US  
[72] COLE, ERIC V., US  
[72] CLARK, NEIL J., US  
[73] KARSTEN MANUFACTURING CORPORATION, US  
[85] 2018-05-18  
[86] 2016-11-15 (PCT/US2016/062101)  
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[11] **3,006,560**  
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01)**  
[25] EN  
[54] **MULTIBEAM DIFFRACTION GRATING-BASED HEAD-UP DISPLAY**  
[54] **VISIOCASQUE BASE SUR UN RESEAU DE DIFFRACTION A FAISCEAUX MULTIPLES**  
[72] FATTAL, DAVID A., US  
[73] LEIA INC., US  
[85] 2018-05-28  
[86] 2016-01-16 (PCT/US2016/013759)  
[87] (WO2017/123259)

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[13] C

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[25] EN  
[54] **HIGH-STRENGTH HOT-ROLLED STEEL SHEET FOR ELECTRIC RESISTANCE WELDED STEEL PIPE AND MANUFACTURING METHOD THEREFOR**  
[54] **TOLE D'ACIER LAMINEE A CHAUD DE RESISTANCE ELEVEE POUR TUYAU EN ACIER SOUDE PAR RESISTANCE ELECTRIQUE, ET SON PROCEDE DE FABRICATION**  
[72] NAKATA, HIROSHI, JP  
[72] URABE, MOTOHIKO, JP  
[72] KAWAMURA, SHUJI, JP  
[73] JFE STEEL CORPORATION, JP  
[85] 2018-05-31  
[86] 2017-01-23 (PCT/JP2017/002041)  
[87] (WO2017/130875)  
[30] JP (2016-012891) 2016-01-27

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[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 25/00 (2006.01)**  
[25] EN  
[54] **4-(BIPHEN-3-YL)-1H-PYRAZOLO[3,4-C]PYRIDAZINE DERIVATIVES OF FORMULA (I) AS GABA RECEPTOR MODULATORS FOR USE IN THE TREATMENT OF EPILEPSY AND PAIN**  
[54] **DERIVES 4-(BIPHENYL-3-YL)-1H-PYRAZOLO[3,4-C]PYRIDAZINE DE FORMULE (I) UTILISES COMME MODULATEURS DE RECEPTEUR GABA POUR LE TRAITEMENT DE L'EPILEPSIE ET DE LA DOULEUR**  
[72] OWEN, ROBERT MCKENZIE, GB  
[72] PRYDE, DAVID CAMERON, GB  
[72] DACK, KEVIN NEIL, GB  
[73] PFIZER LIMITED, GB  
[85] 2018-06-06  
[86] 2016-11-22 (PCT/IB2016/057049)  
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[13] C

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[25] EN  
[54] **BRACE FOR A POST**  
[54] **SUPPORT DE MONTANT**  
[72] TERSIGNI, DONATO, CA  
[73] CINDON DEVELOPMENTS INC., CA  
[86] (3007794)  
[87] (3007794)  
[22] 2018-06-11

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[11] **3,007,806**  
[13] C

[51] **Int.Cl. B60W 60/00 (2020.01) B60W 40/02 (2006.01) B62D 6/00 (2006.01) E21F 13/00 (2006.01)**

[25] EN  
[54] **DRIVING ASSISTANCE SYSTEM FOR REVERSING A MINING HAULAGE VEHICLE**  
[54] **SYSTEME D'AIDE A LA CONDUITE SERVANT A FAIRE RECULER UN VEHICULE DE REMORQUAGE MINIER**  
[72] KAUFMANN, THOMAS, CH  
[72] MUNDIM, MARCUS, BR  
[72] QUEIROZ, ARTHUR, BR  
[72] MIRANDA, FABRICIO, BR  
[72] FERREIRA, ILDEFONSO, BR  
[73] SAFEMINE AG, CH  
[73] HEXAGON MINING TECNOLOGIA E SISTEMAS S.A., BR  
[86] (3007806)  
[87] (3007806)  
[22] 2018-06-11  
[30] EP (EP17175587.9) 2017-06-12

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[11] **3,008,065**  
[13] C

[51] **Int.Cl. C12Q 1/6818 (2018.01) C12Q 1/6816 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/6851 (2018.01)**

[25] EN  
[54] **REAL-TIME NUCLEIC ACID DETECTION PROCESSES AND COMPOSITIONS**  
[54] **COMPOSES ET METHODES DE DETECTION EN TEMPS REEL D'ACIDES NUCLEIQUES**  
[72] RABBANI, ELAZAR, US  
[72] STAVRIANOPOULOS, JANNIS G., US  
[72] DONEGAN, JAMES J., US  
[72] COLEMAN, JACK, US  
[72] LIU, DAKAI, US  
[73] ENZO LIFE SCIENCES, INC., US  
[86] (3008065)  
[87] (3008065)  
[22] 2003-03-11  
[62] 2,930,017  
[30] US (10/096,076) 2002-03-12

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[13] C

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[25] EN  
[54] **A WATER-SOLUBLE UNIT DOSE ARTICLE**  
[54] **ARTICLE A DOSE UNITAIRE HYDROSOLUBLE**  
[72] DEPOOT, KAREL JOZEF MARIA, BE  
[72] BOUTIQUE, JEAN-POL, BE  
[72] ORLANDINI, LAURA, CH  
[72] MCCAFFERTY, MEGAN ROSE, US  
[72] LINTULA, NEA JANETTE, BE  
[72] BOUNIOL, AUDREY CLAIRE FRANCOISE, BE  
[72] VAN ELSSEN, KATRIEN ANDREA LIEVEN, BE  
[72] DENUTTE, HUGO ROBERT GERMAIN, BE  
[72] LYNCH, MATTHEW LAWRENCE, US  
[73] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-06-12  
[86] 2016-12-01 (PCT/US2016/064374)  
[87] (WO2017/105853)  
[30] EP (15200549.2) 2015-12-16

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[11] **3,008,299**  
[13] C

[51] **Int.Cl. B60L 15/20 (2006.01)**

[25] EN  
[54] **TRUCK AND METHOD OF CONTROLLING ELECTRIC DRIVE MOTOR FOR DRIVING MOUNTED ON TRUCK**  
[54] **CAMION ET METHODE DE CONTROLE D'UN MOTEUR A ENTRAINEMENT ELECTRIQUE DESTINE A LA CONDUITE INSTALLEE SUR UN CAMION**  
[72] NADA, MITSUHIRO, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[86] (3008299)  
[87] (3008299)  
[22] 2018-06-15  
[30] JP (2017-126005) 2017-06-28

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[11] **3,008,452**  
[13] C

[51] **Int.Cl. H04R 1/10 (2006.01)**

[25] EN  
[54] **EARPHONE TIP WITH UNIVERSAL SOUND PORT ATTACHMENT CORE**  
[54] **EMBOUT D'ECOUTEUR AVEC NOYAU DE FIXATION A UN PORT AUDIO UNIVERSEL**  
[72] OLSON, THADDEUS W., US  
[72] PESKAR, JUSTIN C., US  
[72] GANSER, MARTIN, US  
[73] HEARING COMPONENTS, INC., US  
[85] 2018-06-13  
[86] 2016-12-27 (PCT/US2016/068677)  
[87] (WO2017/117107)  
[30] US (62/271,521) 2015-12-28

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[11] **3,008,682**  
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01)**

[25] EN  
[54] **SYRINGE PLUNGER ASSEMBLIES**  
[54] **ENSEMBLES PISTON DE SERINGUE**  
[72] LAROSE, ERIK M., US  
[73] W.L. GORE & ASSOCIATES, INC., US  
[85] 2018-06-14  
[86] 2017-01-13 (PCT/US2017/013290)  
[87] (WO2017/123835)  
[30] US (62/279,007) 2016-01-15  
[30] US (62/385,728) 2016-09-09  
[30] US (15/405,078) 2017-01-12

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August 25, 2020

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[11] **3,008,822**  
[13] C

[51] **Int.Cl. C12N 5/0781 (2010.01) C12N 5/071 (2010.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) C12Q 1/04 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **SINGLE B-CELL CULTIVATION METHOD**

[54] **PROCEDE DE CULTURE DE LYMPHOCYTE B ISOLE**

[72] ENDL, JOSEF, DE

[72] SCHUHMACHER, NATALIE, DE

[72] OFFNER, SONJA, DE

[72] PLATZER, JOSEF, DE

[72] SIEWE, BASILE, DE

[72] THOREY, IRMGARD, DE

[73] F. HOFFMANN-LA ROCHE AG, CH

[86] (3008822)

[87] (3008822)

[22] 2011-05-26

[62] 2,798,286

[30] EP (10005602.7) 2010-05-28

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[11] **3,009,163**  
[13] C

[51] **Int.Cl. E21B 43/27 (2006.01) C09K 8/50 (2006.01) C09K 8/80 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL SOLID PARTICULATE DIVERTING AGENT**

[54] **AGENT DE DEVIATION PARTICULAIRE SOLIDE MULTIFONCTIONNEL**

[72] BEUTERBAUGH, AARON M., US

[72] REYES, ENRIQUE ANTONIO, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-06-19

[86] 2016-03-29 (PCT/US2016/024762)

[87] (WO2017/171731)

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[11] **3,009,237**  
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01) G10L 21/038 (2013.01)**

[25] EN

[54] **CROSS PRODUCT ENHANCED HARMONIC TRANSPPOSITION AMELIOREE DE PRODUIT D'INTERMODULATION**

[54] **TRANSPPOSITION HARMONIQUE AMELIOREE DE PRODUIT D'INTERMODULATION**

[72] VILLEMOES, LARS, SE

[72] HEDELIN, PER, SE

[73] DOLBY INTERNATIONAL AB, NL

[86] (3009237)

[87] (3009237)

[22] 2010-01-15

[62] 2,926,491

[30] US (61/145223) 2009-01-16

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[11] **3,009,485**  
[13] C

[51] **Int.Cl. C07D 233/64 (2006.01) A61K 31/4164 (2006.01) A61K 31/4178 (2006.01) A61K 31/422 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61K 31/506 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 9/10 (2006.01) A61P 43/00 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **PHENYLIMIDAZOLE COMPOUND**

[54] **COMPOSE DE PHENYLIMIDAZOLE**

[72] IWATA, KOSHU, JP

[72] SHIBUTANI, TADAO, JP

[72] KIDO, SATOSHI, JP

[72] MORI, DAISUKE, JP

[72] YOSHIOKA, HIDENORI, JP

[72] NAKATA, HIKARU, JP

[72] ISHIMARU, AKIKO, JP

[73] OTSUKA PHARMACEUTICAL FACTORY, INC., JP

[85] 2018-06-21

[86] 2016-10-25 (PCT/JP2016/081633)

[87] (WO2017/110237)

[30] JP (2015-254016) 2015-12-25

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[11] **3,009,486**  
[13] C

[51] **Int.Cl. C07C 231/02 (2006.01) C07C 237/06 (2006.01) C07C 237/10 (2006.01)**

[25] EN

[54] **METHOD FOR SELECTIVELY SYNTHESIZING CATIONIC LIPIDS**

[54] **PROCEDE DE SYNTHESE SELECTIVE DES LIPIDES CATIONIQUES**

[72] CHOI, SUNGWON, KR

[72] NAM, HYE YEONG, KR

[72] SEO, MIN-HYO, KR

[73] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR

[85] 2018-06-21

[86] 2016-12-29 (PCT/KR2016/015525)

[87] (WO2017/116188)

[30] KR (10-2015-0189843) 2015-12-30

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[11] **3,009,625**  
[13] C

[51] **Int.Cl. A23N 1/00 (2006.01) A47J 19/02 (2006.01) B02C 19/22 (2006.01) F16H 1/10 (2006.01)**

[25] EN

[54] **LARGE-CAPACITY JUICER**

[54] **CENTRIFUGEUSE GRANDE CAPACITE**

[72] KIM, CHOM TU I, KR

[73] KIM, CHOM TU I, KR

[85] 2018-06-22

[86] 2016-12-19 (PCT/KR2016/014898)

[87] (WO2017/116056)

[30] KR (10-2015-0191176) 2015-12-31

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[11] **3,009,893**  
[13] C

[51] **Int.Cl. B60H 1/22 (2006.01) B60R 16/08 (2006.01) F24H 1/08 (2006.01) F24H 9/06 (2006.01)**

[25] EN

[54] **CARRIER DEVICE**

[54] **DISPOSITIF DE TRANSPORT**

[72] FINDEIS, THORSTEN, DE

[72] JENSEN, HANS, DE

[72] GROSTOLLEN, UWE, DE

[72] EGER, JOHANNES, DE

[73] EBERSPACHER CLIMATE CONTROL SYSTEMS GMBH & CO. KG, DE

[86] (3009893)

[87] (3009893)

[22] 2018-06-27

[30] DE (102017114762.4) 2017-07-03

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[11] **3,010,149**

[13] C

- [51] **Int.Cl. B65F 1/14 (2006.01)**  
[25] FR  
[54] **COLLECTION INDICATOR FOR DOMESTIC ROLLING BIN**  
[54] **INDICATEUR DE COLLECTE POUR BAC ROULANT DOMESTIQUE**  
[72] LABRECQUE, DENIS, CA  
[73] LABRECQUE, DENIS, CA  
[86] (3010149)  
[87] (3010149)  
[22] 2018-07-03

[11] **3,010,302**

[13] C

- [51] **Int.Cl. E04B 1/24 (2006.01) E04C 5/18 (2006.01)**  
[25] EN  
[54] **CONNECTING CORE FOR COLUMN-BEAM JOINT AND CONNECTION METHOD USING THE SAME**  
[54] **PARTIE CENTRALE DE RACCORDEMENT POUR JOINT POUTRE-COLONNE ET PROCÉDE DE RACCORDEMENT UTILISANT CELLE-CI**  
[72] JIN, JOO HO, KR  
[72] PARK, KOO YUN, KR  
[72] KIM, HYUN SOOK, KR  
[72] KIM, DONG JOON, KR  
[72] KIM, DOO HWAN, KR  
[73] GAURIAN CORPORATION, KR  
[85] 2018-06-29  
[86] 2018-03-26 (PCT/KR2018/003533)  
[87] (WO2019/059480)  
[30] KR (10-2017-0122432) 2017-09-22

[11] **3,010,591**

[13] C

- [51] **Int.Cl. A01K 5/00 (2006.01) A01K 5/01 (2006.01) A01K 7/00 (2006.01)**  
[25] EN  
[54] **TRAVELING FEEDING APPARATUS**  
[54] **APPAREIL DE VOYAGE DESTINÉ À L'ALIMENTATION DES ANIMAUX**  
[72] ABBEY, ERIC, US  
[72] STONE, JOHN JAMES, US  
[73] LOVING PETS CORPORATION, US  
[73] GRAVITY PRODUCT DEVELOPMENT, LLC, US  
[85] 2018-07-04  
[86] 2017-01-04 (PCT/US2017/012212)  
[87] (WO2017/120255)  
[30] US (14/987,092) 2016-01-04

[11] **3,010,648**

[13] C

- [51] **Int.Cl. B66F 9/075 (2006.01) B66F 17/00 (2006.01)**  
[25] EN  
[54] **TELEHANDLER WITH CANTILEVER BOOM MOUNTING**  
[54] **TELEMANIPULATEUR DOTÉ D'UNE INSTALLATION DE POUTRE EN PORTE-A-FAUX**  
[72] PUSZKIEWICZ, IGNACY, US  
[72] MESSINA, ROBERT S., US  
[73] JLG INDUSTRIES, INC, US  
[86] (3010648)  
[87] (3010648)  
[22] 2018-07-06  
[30] US (15/666,977) 2017-08-02

[11] **3,010,712**

[13] C

- [51] **Int.Cl. D21F 3/10 (2006.01)**  
[25] EN  
[54] **SUCTION ROLL WITH PATTERN OF THROUGH HOLES AND BLIND DRILLED HOLES THAT IMPROVES LAND DISTANCE**  
[54] **ROULEAU D'ASPIRATION À MOTIF DE TROUS TRAVERSANTS ET TROUS BORGNES QUI AMÉLIORE LA DISTANCE SUR TERRAIN**  
[72] HARVEY, GLEN A., US  
[73] STOWE WOODWARD LICENSCO, LLC, US  
[85] 2018-07-05  
[86] 2017-04-26 (PCT/US2017/029507)  
[87] (WO2017/189642)  
[30] US (62/327,847) 2016-04-26

[11] **3,010,824**

[13] C

- [51] **Int.Cl. C07D 305/14 (2006.01) A61K 9/00 (2006.01) A61K 31/337 (2006.01) A61L 31/08 (2006.01) A61L 31/14 (2006.01) A61L 31/16 (2006.01) A61P 9/00 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **POROUS COMPOSITES WITH PACLITAXEL CRYSTALS**  
[54] **COMPOSITES POREUX À CRISTAUX DE PACLITAXEL**  
[72] CLEEK, ROBERT L., US  
[72] CULLY, EDWARD H., US  
[72] DRUMHELLER, PAUL D., US  
[72] LI, MEI, US  
[72] TRAYLOR, PETER D., US  
[73] W.L. GORE & ASSOCIATES, INC., US  
[86] (3010824)  
[87] (3010824)  
[22] 2014-03-14  
[62] 2,903,278  
[30] US (14/210,162) 2014-03-13  
[30] US (61/786,244) 2013-03-14

[11] **3,010,851**

[13] C

- [51] **Int.Cl. F16H 57/04 (2010.01) B60K 17/00 (2006.01)**  
[25] EN  
[54] **TORQUE CONVERTER OIL COOLING SYSTEM AND METHOD OF USE**  
[54] **SYSTÈME DE REFROIDISSEMENT À L'HUILE DE CONVERTISSEUR DE COUPLE ET MÉTHODE D'UTILISATION**  
[72] SPIELMAN, HAROLD W., CA  
[73] TOWHAUL CORPORATION, US  
[86] (3010851)  
[87] (3010851)  
[22] 2018-07-09  
[30] US (15/653593) 2017-07-19

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August 25, 2020**

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[11] **3,010,911**  
[13] C

[51] **Int.Cl. A63B 21/008 (2006.01) A41D 13/00 (2006.01)**

[25] EN

[54] **ENGINEERED SURFACE FOR INCREASED DRAG ON ARTICLE**

[54] **SURFACE AMENAGEE POUR UNE TRAINEE AUGMENTEE SUR UN ARTICLE**

[72] PARKINSON, ADAM, US

[73] NIKE INNOVATE C.V., US

[85] 2018-07-09

[86] 2017-01-11 (PCT/US2017/012983)

[87] (WO2017/123611)

[30] US (62/277,296) 2016-01-11

[30] US (15/402,873) 2017-01-10

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[11] **3,010,961**  
[13] C

[51] **Int.Cl. F01C 3/08 (2006.01) F01C 1/08 (2006.01) F01C 3/06 (2006.01) F02B 53/10 (2006.01) F02B 53/12 (2006.01)**

[25] EN

[54] **INDEXED POSITIVE DISPLACEMENT ROTARY MOTION DEVICE**

[54] **DISPOSITIF DE MOUVEMENT ROTATIF A DEPLACEMENT POSITIF INDEXE**

[72] FARSHCHIAN, SOHEIL, CA

[72] GOTTFRIED, KRISTJAN, CA

[72] JUAN, ALEJANDRO, CA

[72] PATTERSON, CURTIS, CA

[73] EXPONENTIAL TECHNOLOGIES, INC., CA

[86] (3010961)

[87] (3010961)

[22] 2009-09-17

[62] 2,735,567

[30] US (61/097,744) 2008-09-17

[30] US (61/110,770) 2008-11-03

[30] US (61/142,035) 2008-12-31

[30] US (61/181,236) 2009-05-26

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[11] **3,011,291**  
[13] C

[51] **Int.Cl. A47L 9/10 (2006.01) A47L 9/16 (2006.01)**

[25] EN

[54] **SEPARATING APPARATUS AND VACUUM CLEANER**

[54] **APPAREIL DE SEPARATION ET ASPIRATEUR**

[72] ROBINSON, KATE ELIZABETH, GB

[72] DIMBYLOW, STEPHEN ROBERT, GB

[72] KERR, WILLIAM HENRY, GB

[72] VUIJK, REMCO DOUWINUS, GB

[73] DYSON TECHNOLOGY LIMITED, GB

[85] 2018-07-12

[86] 2016-12-12 (PCT/GB2016/053914)

[87] (WO2017/125706)

[30] GB (1601220.5) 2016-01-22

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[11] **3,012,104**  
[13] C

[51] **Int.Cl. A61K 8/35 (2006.01) A61K 8/97 (2017.01) A61Q 5/00 (2006.01) A61Q 5/02 (2006.01)**

[25] EN

[54] **A METHOD FOR TREATING THE APPEARANCE OF THINNING HAIR**

[54] **METHODE DE TRAITEMENT DE L'ASPECT DEGARNI DES CHEVEUX**

[72] PAWLUS, ALISON, US

[72] HAWKINS, GEOFFREY, US

[73] ELC MANAGEMENT LLC, US

[85] 2018-07-20

[86] 2017-01-11 (PCT/US2017/012981)

[87] (WO2017/131956)

[30] US (62/287,496) 2016-01-27

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[11] **3,012,617**  
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **SOYBEAN VARIETY 5PSGM88**

[54] **VARIETE DE SOJA 5PSGM88**

[72] ALT, JESSIE LYNN, US

[72] KALVIG, ANDREA BETH, US

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[86] (3012617)

[87] (3012617)

[22] 2018-07-27

[30] US (15/979,748) 2018-05-15

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[11] **3,012,638**  
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **SOYBEAN VARIETY 5PNZG27**

[54] **VARIETE DE SOJA 5PNZG27**

[72] CARDEN, BRIAN ALLEN, US

[72] KALVIG, ANDREA BETH, US

[72] KYLE, DONALD, US

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[86] (3012638)

[87] (3012638)

[22] 2018-07-27

[30] US (15/979,783) 2018-05-15

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[11] **3,012,664**  
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **SOYBEAN VARIETY 5PZGK37**

[54] **VARIETE DE SOJA 5PZGK37**

[72] ALT, JESSIE LYNN, US

[72] KALVIG, ANDREA BETH, US

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[86] (3012664)

[87] (3012664)

[22] 2018-07-27

[30] US (15/979,722) 2018-05-15

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[11] **3,012,673**  
[13] C

[51] **Int.Cl. C25C 3/08 (2006.01) C25C 7/00 (2006.01)**

[25] EN

[54] **INSULATION ASSEMBLY FOR ELECTROLYSIS CELL**

[54] **ENSEMBLE D'ISOLATION POUR CELLULE D'ELECTROLYSE**

[72] D'ASTOLFO, LEROY E., US

[72] CZEKAJ, STEVEN A., US

[72] RUAN, YIMIN, US

[73] ELYSIS LIMITED PARTNERSHIP, CA

[85] 2018-07-25

[86] 2017-01-26 (PCT/US2017/015099)

[87] (WO2017/132353)

[30] US (62/287,011) 2016-01-26

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[11] **3,012,785**  
[13] C

[51] **Int.Cl. E04D 1/20 (2006.01) E04D 1/26 (2006.01) E04D 1/28 (2006.01)**

[25] EN

[54] **ROOFING SHINGLE WITH ENHANCED SHADOWLINE APPEARANCE**

[54] **BARDEAU DE TOITURE OFFRANT UN ASPECT DE LIGNE D'OMBRE AMELIORE**

[72] JENKINS, ROBERT L., US  
[72] JACOBS, GREGORY F., US  
[73] CERTAINTEED CORPORATION, US  
[86] (3012785)  
[87] (3012785)  
[22] 2013-12-20  
[62] 2,837,573  
[30] US (61/748,790) 2013-01-04

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[11] **3,013,175**  
[13] C

[51] **Int.Cl. B64F 5/10 (2017.01) B21J 15/14 (2006.01) B21J 15/28 (2006.01) B64C 1/12 (2006.01)**

[25] EN

[54] **HOLDING FIXTURE FIXING APPARATUS**

[54] **APPAREIL DE FIXATION D'UN APPAREIL DE MAINTIEN**

[72] HIRAI, MAKOTO, JP  
[72] AZUMA, HIROKI, JP  
[72] TAKAHAGI, MICHINOBU, JP  
[73] MITSUBISHI HEAVY INDUSTRIES, LTD., JP  
[85] 2018-07-30  
[86] 2016-11-17 (PCT/JP2016/084047)  
[87] (WO2017/134898)  
[30] JP (2016-018425) 2016-02-02

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[11] **3,013,837**  
[13] C

[51] **Int.Cl. B62D 15/02 (2006.01)**

[25] EN

[54] **SELF-PROPELLED VEHICLES HAVING A STEERING POSITION SENSOR**

[54] **VEHICULES AUTOPROPULSES EQUIPES D'UN CAPTEUR DE POSITION DE DIRECTION**

[72] DOCKTER, NATHAN D., US  
[72] RECKER, KENT M., US  
[72] THOMPSON, KENT L., US  
[72] GRAHAM, CURT T., US  
[73] VERMEER MANUFACTURING COMPANY, US  
[86] (3013837)  
[87] (3013837)  
[22] 2018-08-10  
[30] US (62/544132) 2017-08-11

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[11] **3,013,041**  
[13] C

[51] **Int.Cl. E02D 5/60 (2006.01) E02D 5/64 (2006.01) E02D 31/06 (2006.01) E04B 1/64 (2006.01) E04C 3/34 (2006.01) E04F 13/07 (2006.01)**

[25] EN

[54] **CONTINUITY CONNECTION SYSTEM FOR RESTORATIVE SHELL**

[54] **SYSTEME DE RACCORDEMENT EN CONTINUE POUR ENVELOPPE DE RESTAURATION**

[72] KRIEGSTEIN, STEWART, US  
[73] WARSTONE INNOVATIONS, LLC, US  
[85] 2018-07-27  
[86] 2017-01-29 (PCT/US2017/015533)  
[87] (WO2017/136246)  
[30] US (62/289,718) 2016-02-01

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[11] **3,013,564**  
[13] C

[51] **Int.Cl. C07D 413/04 (2006.01) A01N 43/76 (2006.01) A01N 47/02 (2006.01) A01P 7/04 (2006.01) A61K 31/4439 (2006.01) A61P 33/00 (2006.01) A61P 33/14 (2006.01)**

[25] EN

[54] **BENZOXAZOLE COMPOUND OR SALT THEREOF, AGRICULTURAL AND HORTICULTURAL INSECTICIDE COMPRISING THE COMPOUND, AND METHOD FOR USING THE INSECTICIDE**

[54] **COMPOSE DE BENZOXAZOLE OU SEL DE CELUI-CI, INSECTICIDE AGRICOLE/HORTICOLE LE CONTENANT, ET SON PROCEDE D'UTILISATION**

[72] MATSUO, SOICHIRO, JP  
[72] YONEMURA, IKKI, JP  
[72] SUWA, AKIYUKI, JP  
[72] FUJIE, SHUNPEI, JP  
[73] NIHON NOHYAKU CO., LTD., JP  
[85] 2018-08-02  
[86] 2017-02-24 (PCT/JP2017/007185)  
[87] (WO2017/146226)  
[30] JP (2016-035044) 2016-02-26

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[11] **3,014,343**  
[13] C

[51] **Int.Cl. B65D 81/34 (2006.01) F24V 30/00 (2018.01) A47J 36/28 (2006.01) B65D 65/14 (2006.01) B65D 65/40 (2006.01) B65D 75/58 (2006.01) B65D 77/20 (2006.01) A61F 7/03 (2006.01)**

[25] EN

[54] **CONTAINER HAVING SELF-CONTAINED HEATER MATERIAL**

[54] **CONTENANT PRESENTANT UN MATERIAU CHAUFFANT AUTONOME**

[72] HUFFER, SCOTT WILLIAM, US  
[72] LAUBACH, ADAM, US  
[72] MARQUEZ, DARKO, US  
[72] PEDICINI, CHRISTOPHER S., US  
[73] SONOCO DEVELOPMENT, INC., US  
[73] RECHARGEABLE BATTERY CORPORATION, D/B/A RBC TECHNOLOGIES, US  
[86] (3014343)  
[87] (3014343)  
[22] 2015-02-16  
[62] 2,938,888  
[30] US (14/182034) 2014-02-17  
[30] US (14/621768) 2015-02-13

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[11] **3,014,394**  
[13] C

[51] **Int.Cl. E21B 7/04 (2006.01) E21B 17/046 (2006.01) E21B 17/18 (2006.01) E21B 19/086 (2006.01) E21B 19/16 (2006.01)**

[25] EN

[54] **DRILL PIPE, AND SYSTEM AND METHOD FOR LAYING A PIPELINE**

[54] **TUBE DE FORAGE AINSI QUE SYSTEME ET PROCEDE DE POSE D'UNE CANALISATION**

[72] STEINER, THOMAS, DE

[72] JUNG, BORIS, DE

[73] HERRENKNECHT AG, DE

[85] 2018-08-13

[86] 2017-03-29 (PCT/EP2017/057363)

[87] (WO2017/167780)

[30] DE (10 2016 003 605.2) 2016-03-29

[30] DE (10 2016 003 653.2) 2016-03-30

[30] DE (10 2016 014 316.9) 2016-12-01

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[11] **3,015,329**  
[13] C

[51] **Int.Cl. E04H 17/20 (2006.01) E04H 17/14 (2006.01)**

[25] EN

[54] **FENCING SYSTEM**

[54] **SYSTEME DE CLOTURE**

[72] MORENO, JASON, US

[72] SHORT, JERRY, US

[72] O'BRIEN, TIM, US

[73] MASTER-HALCO, INC., US

[86] (3015329)

[87] (3015329)

[22] 2018-08-24

[30] US (15/687,372) 2017-08-25

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[11] **3,015,813**  
[13] C

[51] **Int.Cl. E04B 1/348 (2006.01) B32B 3/08 (2006.01) B32B 37/00 (2006.01) E04B 1/24 (2006.01) E04B 1/343 (2006.01) E04B 1/68 (2006.01) E04B 2/56 (2006.01) E04B 2/58 (2006.01)**

[25] EN

[54] **WATERPROOFING ASSEMBLIES AND PREFABRICATED WALL PANELS INCLUDING THE SAME**

[54] **ENSEMBLES D'IMPERMEABILISATION ET PANNEAUX MURAUX PREFABRIQUES LES COMPRENANT**

[72] COLLINS, ARLAN, US

[72] WOERMAN, MARK, US

[73] INNOVATIVE BUILDING TECHNOLOGIES, LLC, US

[85] 2018-08-24

[86] 2017-03-07 (PCT/US2017/021177)

[87] (WO2017/156014)

[30] US (62/304,858) 2016-03-07

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[11] **3,015,984**  
[13] C

[51] **Int.Cl. C07H 13/04 (2006.01) C08F 220/38 (2006.01) C08F 220/56 (2006.01) C08F 220/58 (2006.01) C09K 8/035 (2006.01)**

[25] EN

[54] **MALEAMIC ACID MONOMER AND PREPARATION METHOD THEREOF, RANDOM COPOLYMER, PREPARATION METHOD AND USE THEREOF, AND DRILLING FLUID**

[54] **MONOMERE D'ACIDE MALEMIQUE ET METHODE DE PREPARATION ASSOCIEE, COPOLYMERE ALEATOIRE, METHODE DE PREPARATION ET UTILISATION ASSOCIEE, ET FLUIDE DE FORAGE**

[72] YANG, XIAOHUA, CN

[72] LIN, YONGXUE, CN

[72] HE, JIAN, CN

[72] WANG, LIN, CN

[72] JIN, JUNBIN, CN

[72] WANG, HAIBO, CN

[72] YANG, FAN, CN

[72] LI, ZHOIJUN, CN

[72] DONG, XIAOQIANG, CN

[73] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[73] SINOPEC RESEARCH INSTITUTE OF PETROLEUM ENGINEERING, CN

[86] (3015984)

[87] (3015984)

[22] 2018-08-31

[30] CN (201710875461.7) 2017-09-25



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[11] **3,016,597**  
[13] C

[51] **Int.Cl. E21B 10/54 (2006.01) C22C 26/00 (2006.01) E21B 10/42 (2006.01)**  
[25] EN  
[54] **POLYCRYSTALLINE DIAMOND COMPACTS, METHODS OF FORMING POLYCRYSTALLINE DIAMOND, AND EARTH-BORING TOOLS**  
[54] **COMPRIMES DE DIAMANT POLYCRISTALLIN, PROCEDES DE FORMATION DE DIAMANT POLYCRISTALLIN ET OUTILS DE FORAGE**  
[72] BIRD, MARC W., US  
[72] GLEDHILL, ANDREW, US  
[73] BAKER HUGHES, A GE COMPANY, LLC, US  
[73] DIAMOND INNOVATIONS, INC., US  
[85] 2018-09-04  
[86] 2017-03-02 (PCT/US2017/020414)  
[87] (WO2017/151895)  
[30] US (15/060,911) 2016-03-04

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[11] **3,016,669**  
[13] C

[51] **Int.Cl. A47J 37/06 (2006.01)**  
[25] EN  
[54] **GRILL SYSTEM AND METHOD FOR DETECTING MOVEMENT WHEN MOTOR IS "OFF"**  
[54] **SYSTEME DE CALANDRE ET PROCEDE DE DETECTION DE MOUVEMENT LORSQUE LE MOTEUR EST ETEINT**  
[72] KELLY, DANIEL L., US  
[73] TAYLOR COMMERCIAL FOODSERVICE INC., US  
[85] 2018-09-04  
[86] 2017-03-07 (PCT/US2017/021065)  
[87] (WO2017/155930)  
[30] US (62/306,664) 2016-03-11

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[11] **3,016,682**  
[13] C

[51] **Int.Cl. F01D 9/02 (2006.01) F01D 9/04 (2006.01) F01D 11/00 (2006.01) F01D 25/24 (2006.01) F02C 7/28 (2006.01)**  
[25] EN  
[54] **TURBINE NOZZLE**  
[54] **TUYERE DE TURBINE**  
[72] WATANABE, FUMIAKI, JP  
[73] IHI CORPORATION, JP  
[85] 2018-09-05  
[86] 2016-10-17 (PCT/JP2016/080707)  
[87] (WO2017/154257)  
[30] JP (2016-048157) 2016-03-11

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[11] **3,017,055**  
[13] C

[51] **Int.Cl. H04W 4/024 (2018.01) H04W 84/10 (2009.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR TRANSMITTING DYNAMIC CONTENT TO MOBILE DEVICES**  
[54] **SYSTEME ET METHODE DE TRANSMISSION DU CONTENU DYNAMIQUE VERS DES DISPOSITIFS MOBILES**  
[72] PODA, DANIEL, CA  
[73] YOURHERE INC., CA  
[86] (3017055)  
[87] (3017055)  
[22] 2018-09-11  
[30] US (62/556769) 2017-09-11

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[11] **3,017,158**  
[13] C

[51] **Int.Cl. F23D 14/60 (2006.01) F23D 14/34 (2006.01) F23L 13/04 (2006.01) F23N 1/02 (2006.01)**  
[25] EN  
[54] **MODULATING BURNER WITH VENTURI DAMPER**  
[54] **BRULEUR A MODULATION DOTE D'UN AMORTISSEUR VENTURI**  
[72] DOURA, MOHAMED MEDHI, US  
[72] PUTNAM, BENJAMIN P., US  
[72] BAESE, DAVE C., US  
[72] WISEMAN, ROBERT WESLEY, US  
[73] LOCHINVAR, LLC, US  
[86] (3017158)  
[87] (3017158)  
[22] 2015-05-04  
[62] 2,947,973  
[30] US (14/295,409) 2014-06-04

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[11] **3,017,397**  
[13] C

[51] **Int.Cl. A22C 25/14 (2006.01)**  
[25] EN  
[54] **SUCTION TOOL AND DEVICE AND METHOD FOR GUTTING FISH OPENED AT THE ABDOMINAL CAVITY**  
[54] **OUTIL D'ASPIRATION, DISPOSITIF ET PROCEDE POUR EVISCERER DES POISSONS A CAVITE ABDOMINALE OUVERTE**  
[72] HENSEL, RENE LUKAS, DE  
[72] PAULSOHN, CARSTEN, DE  
[73] NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, DE  
[85] 2018-09-11  
[86] 2016-04-26 (PCT/EP2016/059260)  
[87] (WO2017/186270)

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[11] **3,017,486**  
[13] C

[51] **Int.Cl. E21B 43/25 (2006.01) E21B 33/12 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **TREATMENT ISOLATION IN RESTIMULATIONS WITH INNER WELLBORE CASING**  
[54] **ISOLATION DE TRAITEMENT DANS DES RESTIMULATIONS AVEC TUBAGE DE Puits DE FORAGE INTERNE**  
[72] CALVIN, JAMES ELDON, III, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-09-11  
[86] 2016-06-13 (PCT/US2016/037206)  
[87] (WO2017/217966)

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[11] **3,017,775**  
[13] C

[51] **Int.Cl. F03D 80/40 (2016.01)**  
[25] EN  
[54] **CONTROLLING HEATING ELEMENTS IN A WIND TURBINE SYSTEM**  
[54] **COMMANDE D'ELEMENTS CHAUFFANTS DANS UN SYSTEME DE TURBINE EOLIENNE**  
[72] BADGER, PAUL, GB  
[72] SPANDLEY, LUKE, GB  
[72] BUGGY, STEPHEN, GB  
[72] GREGORY, KARL, GB  
[73] VESTAS WIND SYSTEMS A/S, DK  
[85] 2018-09-14  
[86] 2017-03-30 (PCT/DK2017/050097)  
[87] (WO2017/167346)  
[30] DK (PA 2016 70180) 2016-03-31

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[11] **3,018,102**  
[13] C

[51] **Int.Cl. F03D 80/40 (2016.01) F03D 17/00 (2016.01) G01R 31/00 (2006.01) G01R 31/28 (2006.01)**  
[25] EN  
[54] **CONDITION MONITORING AND CONTROLLING OF HEATING ELEMENTS IN WIND TURBINES**  
[54] **CONTROLE DE CONDITION ET COMMANDE D'ELEMENTS CHAUFFANTS DANS DES TURBINES EOLIENNES**  
[72] BUGGY, STEPHEN, GB  
[73] VESTAS WIND SYSTEMS A/S, DK  
[85] 2018-09-18  
[86] 2017-03-30 (PCT/DK2017/050098)  
[87] (WO2017/167347)  
[30] DK (PA 2016 70181) 2016-03-31

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[11] **3,018,458**  
[13] C

[51] **Int.Cl. A47L 13/22 (2006.01) A47L 1/08 (2006.01)**  
[25] EN  
[54] **POWER MOP**  
[54] **VADROUILLE ELECTRIQUE**  
[72] GARDNER, ROBERT A., US  
[73] GARDNER, ROBERT A., US  
[73] WESSOL, LLC, US  
[86] (3018458)  
[87] (3018458)  
[22] 2018-09-25  
[30] US (16/034930) 2018-07-13

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[11] **3,018,850**  
[13] C

[51] **Int.Cl. A61C 7/14 (2006.01)**  
[25] EN  
[54] **ORTHODONTIC BRACKET SUPPORT ORTHODONTIQUE**  
[72] HUNG, CHENG-HSIANG, CN  
[73] HUNG, CHENG-HSIANG, CN  
[86] (3018850)  
[87] (3018850)  
[22] 2018-09-27  
[30] US (62/563771) 2017-09-27  
[30] US (15/827184) 2017-11-30

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[11] **3,019,085**  
[13] C

[51] **Int.Cl. A22C 17/00 (2006.01) A22C 25/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR INSPECTING THE ABDOMINAL CAVITY OF GUTTED FISH**  
[54] **PROCEDE ET DISPOSITIF D'INSPECTION DE LA CAVITE ABDOMINALE DE POISSONS EVIDES**  
[72] STEFFENS, ALEXANDER, DE  
[72] PAULSOHN, CARSTEN, DE  
[72] RASMUSSEN, NIELS TJORNLY, DK  
[72] JENSEN, EIGIL MOLVIG, DK  
[72] NIELSEN, ULRIK, DK  
[73] NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, DE  
[85] 2018-09-26  
[86] 2016-04-26 (PCT/EP2016/059307)  
[87] (WO2017/186275)

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[11] **3,019,147**  
[13] C

[51] **Int.Cl. B32B 37/00 (2006.01) B44C 1/16 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A PLASTIC VEHICLE ADD-ON PART**  
[54] **PROCEDE DE FABRICATION D'UNE PIECE RAPPORTEE DE VEHICULE EN MATIERE PLASTIQUE**  
[72] WEISSENBERGER, UWE, DE  
[73] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2018-09-26  
[86] 2017-05-08 (PCT/EP2017/060877)  
[87] (WO2017/215840)  
[30] EP (16174290.3) 2016-06-14

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[11] **3,019,319**  
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 44/00 (2006.01) G05B 19/02 (2006.01)**  
[25] EN  
[54] **MULTI-PARAMETER OPTIMIZATION OF OILFIELD OPERATIONS**  
[54] **OPTIMISATION A PARAMETRES MULTIPLES D'OPERATIONS DE CHAMP PETROLIFERE**  
[72] STEPHENSON, STANLEY V., US  
[72] GONZALEZ, RICHARD T., US  
[72] FULTON, DWIGHT D., US  
[72] WALTERS, HAROLD G., US  
[72] ORTH, JON M., US  
[72] COFFMAN, KENNETH R., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-09-27  
[86] 2016-05-06 (PCT/US2016/031346)  
[87] (WO2017/192154)

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[11] **3,019,454**  
[13] C

[51] **Int.Cl. A22C 25/04 (2006.01) A22C 25/08 (2006.01)**  
[25] EN  
[54] **FISH-SUPPLYING DEVICE AND METHOD THEREFOR**  
[54] **DISPOSITIF D'AMENEE DE POISSONS ET PROCEDE ASSOCIE**  
[72] HERBST, JAN-PATRICK, DE  
[72] SCHUBERT, FRANK, DE  
[72] JACOBSEN, ULF, DE  
[72] LOHSE, CHRISTIAN, DE  
[72] DALGAARD-NIELSEN, IB VERNER, DK  
[73] NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, DE  
[85] 2018-09-28  
[86] 2016-04-26 (PCT/EP2016/059304)  
[87] (WO2017/186274)

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[11] **3,021,167**

[13] C

[51] **Int.Cl. F17C 13/00 (2006.01) B67D 7/04 (2010.01) B67D 7/84 (2010.01) F24F 7/007 (2006.01)**

[25] EN

[54] **GAS SUPPLYING APPARATUS**

[54] **APPAREIL**

**D'APPROVISIONNEMENT DE GAZ**

[72] WASHIO, TAKUYA, JP

[72] HASHIMOTO, KOICHIRO, JP

[72] WADA, DAISUKE, JP

[72] NAGURA, KENJI, JP

[72] FUJISAWA, AKITOSHI, JP

[73] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBELCO STEEL, LTD.), JP

[86] (3021167)

[87] (3021167)

[22] 2018-10-17

[30] JP (2017-212673) 2017-11-02

[11] **3,021,495**

[13] C

[51] **Int.Cl. F16M 11/04 (2006.01) B60R 11/00 (2006.01) B60R 11/02 (2006.01) B60R 11/04 (2006.01) F16M 13/00 (2006.01) H04M 1/04 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AN ADJUSTABLE ELECTRONIC DEVICE HOLDER**

[54] **SYSTEMES ET PROCESSES POUR UN SUPPORT DE DISPOSITIF ELECTRONIQUE REGLABLE**

[72] ORMSBEE, BOWDEN, US

[72] STEVENS, REX W., US

[73] NITE IZE, INC., US

[85] 2018-10-18

[86] 2017-04-17 (PCT/US2017/027946)

[87] (WO2017/184517)

[30] US (62/324,146) 2016-04-18

[11] **3,022,946**

[13] C

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 43/1185 (2006.01) F42D 1/045 (2006.01)**

[25] EN

[54] **DIRECTLY INITIATED ADDRESSABLE POWER CHARGE**

[54] **CHARGE D'ALIMENTATION ADRESSABLE DIRECTEMENT AMORCEE**

[72] MONTOYA ASHTON, LAURA, US

[72] ACEVEDO, ISAIAS, US

[72] BRADLEY, RICHARD WAYNE, US

[72] COVALT, JOHNNY, US

[72] SOKOLOVE, CHRISTOPHER BRIAN, US

[73] HUNTING TITAN, INC., US

[85] 2018-11-01

[86] 2017-05-04 (PCT/US2017/031102)

[87] (WO2017/192878)

[30] US (62/331,555) 2016-05-04

[11] **3,021,213**

[13] C

[51] **Int.Cl. F16F 15/34 (2006.01) F16F 15/32 (2006.01)**

[25] EN

[54] **WEIGHT APPLICATOR HEAD PROVIDING IMPROVED WET OUT**

[54] **TETE D'APPLICATION DE POIDS PRODUISANT UN POUVOIR D'IMPREGNATION PLUS COMPLET**

[72] KEY, JEFFREY P., US

[73] ANDROID INDUSTRIES LLC, US

[85] 2018-10-16

[86] 2017-05-17 (PCT/US2017/033070)

[87] (WO2017/201149)

[30] US (62/337,592) 2016-05-17

[11] **\*3,022,251**

[13] C

[51] **Int.Cl. H04W 4/24 (2018.01)**

[25] EN

[54] **CONTENT CACHING WITH REMOTE CHARGING SERVICES IN A RADIO ACCESS NETWORK**

[54] **MISE EN CACHE DE CONTENU A L'AIDE DE SERVICES DE FACTURATION A DISTANCE DANS UN RESEAU D'ACCES RADIO**

[72] BURCKART, ERIK JOHN, US

[72] MOORE, VICTOR, US

[72] CUOMO, GENNARO, US

[72] RODRIGUEZ, SAVIO, CA

[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[86] (3022251)

[87] (3022251)

[22] 2011-10-13

[62] 2,814,705

[30] US (12/910,359) 2010-10-22

[30] US (12/910,252) 2010-10-22

[11] **3,023,235**

[13] C

[51] **Int.Cl. F16L 55/136 (2006.01) F16L 55/07 (2006.01) F16L 55/11 (2006.01)**

[25] EN

[54] **MACHINE-ACTUATED AND REMOVABLE SAFETY CLOSURE WITH ANTI-ROTATION AND MACHINE-RELEASED HOLDER**

[54] **FERMETURE DE SECURITE AMOVIBLE ET ACTIONNEE PAR MACHINE DOTEE D'UN SUPPORT ANTI-ROTATION ET DETECTE PAR MACHINE**

[72] GRESH, BRIAN M., US

[72] WILSON, BUDDY A., US

[73] TDW DELAWARE, INC., US

[86] (3023235)

[87] (3023235)

[22] 2012-04-11

[62] 2,797,203

[30] US (61/589,723) 2012-01-23

[11] **3,021,464**

[13] C

[51] **Int.Cl. B41J 3/44 (2006.01) B41J 2/175 (2006.01) B41J 23/00 (2006.01) B41J 25/304 (2006.01) F16H 55/26 (2006.01) H02K 41/03 (2006.01)**

[25] EN

[54] **GOODS PROCESSING APPARATUS**

[54] **APPAREIL DE TRAITEMENT DE PRODUITS**

[72] MUHL, WOLFGANG, DE

[73] FRANCOTYP-POSTALIA GMBH, DE

[86] (3021464)

[87] (3021464)

[22] 2018-10-19

[30] DE (20 2017 106 430.1) 2017-10-24

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August 25, 2020**

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[11] **3,023,715**  
[13] C

[51] **Int.Cl. B60P 7/04 (2006.01)**  
[25] EN  
[54] **DRIVE ASSEMBLY FOR A COVER SYSTEM FOR OPEN-TOPPED CONTAINERS**  
[54] **MECANISME D'ENTRAINEMENT D'UN SYSTEME DE REVETEMENT DESTINE A DES CONTENANTS A DESSUS OUVERT**  
[72] SEARFOSS, TIMOTHY K., US  
[73] AERO INDUSTRIES, INC., US  
[86] (3023715)  
[87] (3023715)  
[22] 2018-11-09  
[30] US (15/811083) 2017-11-13

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[11] **3,024,275**  
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01)**  
[25] EN  
[54] **APPARATUS FOR RECEIVING SMOKABLE MATERIAL**  
[54] **APPAREIL PERMETTANT DE RECEVOIR UNE SUBSTANCE A FUMER**  
[72] THORSEN, MITCHEL, US  
[72] MEHNERT, JOHN CLAY, US  
[73] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB  
[85] 2018-11-09  
[86] 2017-05-12 (PCT/EP2017/061523)  
[87] (WO2017/194766)  
[30] US (62/336,284) 2016-05-13

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[11] **3,024,545**  
[13] C

[51] **Int.Cl. E21B 43/40 (2006.01) C09K 8/594 (2006.01)**  
[25] EN  
[54] **SELF-SOURCED RESERVOIR FLUID FOR ENHANCED OIL RECOVERY**  
[54] **FLUIDE DE RESERVOIR AUTO-SOURCE POUR LA RECUPERATION ASSISTEE DE PETROLE**  
[72] VALENCIA, JAIME A., US  
[72] MAHER, DAVID W., US  
[72] DENTON, ROBERT D., US  
[72] TELETZKE, GARY F., US  
[72] LIN, MICHAEL W., US  
[73] EXXONMOBILE UPSTREAM RESEARCH COMPANY, US  
[85] 2018-09-20  
[86] 2017-03-09 (PCT/US2017/021592)  
[87] (WO2017/172321)  
[30] US (62/315,288) 2016-03-30

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[11] **3,025,638**  
[13] C

[51] **Int.Cl. H02M 7/48 (2007.01) H02M 3/00 (2006.01) H02M 7/04 (2006.01)**  
[25] EN  
[54] **TEMPERATURE ABNORMALITY DETECTION METHOD FOR POWER CONVERSION APPARATUS AND TEMPERATURE ABNORMALITY DETECTION DEVICE FOR POWER CONVERSION APPARATUS**  
[54] **PROCEDE DE DETECTION D'ANOMALIE DE TEMPERATURE DANS UN APPAREIL DE CONVERSION DE PUISSANCE, ET DISPOSITIF DE DETECTION D'UNE ANOMALIE DE TEMPERATURE DANS UN APPAREIL DE CONVERSION DE PUISSANCE**  
[72] MARUYAMA, SHO, JP  
[73] NISSAN MOTOR CO., LTD., JP  
[85] 2018-11-26  
[86] 2016-05-27 (PCT/JP2016/065728)  
[87] (WO2017/203693)

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[11] **3,026,374**  
[13] C

[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/468 (2006.01) B65D 5/48 (2006.01) B65D 5/50 (2006.01)**  
[25] EN  
[54] **TRAY WITH CUPHOLDERS AND HAND-HOLES**  
[54] **PLATEAU A PORTE-GOBELETS ET TROUS POUR LES MAINS**  
[72] YU, TAE HYON, US  
[73] YU, TAE HYON, US  
[85] 2018-12-03  
[86] 2017-06-16 (PCT/US2017/037993)  
[87] (WO2017/222942)  
[30] US (62/352,537) 2016-06-20  
[30] US (62/385,923) 2016-09-09  
[30] US (15/625,252) 2017-06-16

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[11] **3,026,959**  
[13] C

[51] **Int.Cl. F28D 7/16 (2006.01) F22B 9/00 (2006.01) F28F 9/00 (2006.01) F28F 9/18 (2006.01)**  
[25] EN  
[54] **VERTICAL HEAT EXCHANGER**  
[54] **ECHANGEUR DE CHALEUR VERTICAL**  
[72] HAJE, DETLEF, DE  
[72] TISCHER, HEIKO, DE  
[72] MUHLER, JORG, DE  
[72] NONNIG, MARTIN, DE  
[73] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 2018-12-07  
[86] 2017-05-29 (PCT/EP2017/062823)  
[87] (WO2017/211604)  
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[11] **3,028,212**  
[13] C

[51] **Int.Cl. B66B 5/18 (2006.01) B66B 7/06 (2006.01)**  
[25] EN  
[54] **LIFT INSTALLATION WITH CAR AND COUNTERWEIGHT**  
[54] **APPAREIL D'ELEVATION A CABINE ET CONTREPOIDS**  
[72] HUSMANN, JOSEF, CH  
[73] INVENTIO AG, CH  
[86] (3028212)  
[87] (3028212)  
[22] 2011-12-09  
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[51] **Int.Cl. E21B 47/0228 (2012.01) E21B 47/024 (2006.01)**  
[25] EN  
[54] **UTILIZING DIVERSE EXCITATION SOURCES IN SINGLE WELL ELECTROMAGNETIC RANGING**  
[54] **UTILISATION DE DIVERSES SOURCES D'EXCITATION DANS UNE TELEMETRIE ELECTROMAGNETIQUE**  
[72] CAPOGLU, ILKER R., US  
[72] DONDERICI, BURKAY, US  
[72] GUNER, BARIS, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-12-21  
[86] 2016-09-23 (PCT/US2016/053432)  
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[51] **Int.Cl. B65D 88/28 (2006.01) B65D 90/12 (2006.01) B65D 90/52 (2006.01) B65D 90/54 (2006.01)**  
[25] EN  
[54] **DUST CONTROL SYSTEMS FOR BULK MATERIAL CONTAINERS**  
[54] **SYSTEMES DE COMMANDE DE POUSSIERE POUR CONTENANTS A MATERIAUX EN VRAC**  
[72] WARREN, WESLEY JOHN, US  
[72] SCHAFFNER, AUSTIN CARL, US  
[72] FISHER, CHAD ADAM, US  
[72] LUCAS, BRYAN CHAPMAN, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2019-01-10  
[86] 2016-08-24 (PCT/US2016/048397)  
[87] (WO2018/038721)

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[13] C

[51] **Int.Cl. H04W 4/14 (2009.01)**  
[25] EN  
[54] **ACTIVATION OF SMS SIGNALING FROM DYNAMICALLY GENERATED CONTROL INTERFACE**  
[54] **ACTIVATION DE SIGNALISATION SMS A PARTIR D'UNE INTERFACE DE COMMANDE GENEREE DYNAMIQUEMENT**  
[72] LAPIC, JAMES, US  
[72] CAPPS, ALAN, US  
[72] BRADLEY, MICHAEL, US  
[73] ZIPWHIP, INC., US  
[86] (3031486)  
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[22] 2019-01-25  
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[13] C

[51] **Int.Cl. F16B 35/06 (2006.01)**  
[25] EN  
[54] **INSERT AND METHOD FOR CONNECTING AN ELECTRICAL CONNECTOR TO A WALL**  
[54] **INSERT ET PROCEDE SERVANT A CONNECTER UN RACCORDEMENT ELECTRIQUE A UNE PAROI**  
[72] RASCHKE, NIKOLAS, DE  
[72] SCHOLZ, PHILIPP, DE  
[73] FAIRCHILD FASTENERS EUROPE - CAMLOC GMBH, DE  
[85] 2019-01-08  
[86] 2017-07-04 (PCT/EP2017/066587)  
[87] (WO2018/011008)  
[30] DE (10 2016 112 782.5) 2016-07-12

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[13] C

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[25] FR  
[54] **UNMANNED AERIAL VEHICLE EQUIPPED WITH A DEVICE FOR INTERVENING ON AN ANIMAL AND METHOD FOR USING SUCH A VEHICLE**  
[54] **VEHICULE AERIEN SANS PILOTE EQUIPE D'UN DISPOSITIF D'INTERVENTION SUR UN ANIMAL ET PROCEDE D'UTILISATION D'UN TEL VEHICULE**  
[72] FINKELSTEIN, SERGE, FR  
[73] FINKELSTEIN, SERGE, FR  
[85] 2019-01-17  
[86] 2017-07-07 (PCT/FR2017/051859)  
[87] (WO2018/042089)  
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[51] **Int.Cl. E04B 1/41 (2006.01) E04F 13/22 (2006.01) F16B 41/00 (2006.01) F16G 11/00 (2006.01)**  
[25] EN  
[54] **SECURITY ANCHOR**  
[54] **ANCRAGE DE SURETE**  
[72] LAUYANS, FRANK M., US  
[73] LAUYANS, FRANK M., US  
[86] (3032161)  
[87] (3032161)  
[22] 2019-01-31  
[30] US (62/625,442) 2018-02-02  
[30] US (16/261,644) 2019-01-30

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[13] C

[51] **Int.Cl. H02B 1/38 (2006.01) E05D 5/06 (2006.01) E05D 5/10 (2006.01) E05D 5/12 (2006.01)**  
[25] EN  
[54] **HINGE ASSEMBLY FOR A SWITCH CABINET**  
[54] **SYSTEME DE CHARNIERES POUR UNE ARMOIRE ELECTRIQUE**  
[72] REUTER, WOLFGANG, DE  
[72] SCHINDLER, TIMO, DE  
[73] RITTAL GMBH & CO. KG, DE  
[85] 2019-01-29  
[86] 2017-08-03 (PCT/DE2017/100657)  
[87] (WO2018/050151)  
[30] DE (102016117378.9) 2016-09-15

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[13] C

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[25] EN  
[54] **CLOSED-LOOP CONTROL OF SWING**  
[54] **COMMANDE EN BOUCLE FERMEE DE L'OSCILLATION**  
[72] VONDERWELL, MARK P., US  
[72] SEEGER, DOUGLAS W., US  
[72] WILLIAMSON, CHRISTOPHER A., US  
[73] CATERPILLAR INC., US  
[85] 2019-02-07  
[86] 2017-07-25 (PCT/US2017/043606)  
[87] (WO2018/031228)  
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[13] C

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[25] EN  
[54] **WIND TURBINE ROTOR BLADE**  
[54] **PALE DE ROTOR D'EOLIENNE**  
[72] KAMRUZZAMAN, MOHAMMAD, GB  
[72] NAPIERALA, CHRISTIAN FRANK, DE  
[72] SWEERS, HEINER, DE  
[73] WOBLEN PROPERTIES GMBH, DE  
[85] 2019-02-14  
[86] 2017-09-06 (PCT/EP2017/072301)  
[87] (WO2018/046519)  
[30] DE (10 2016 117 012.7) 2016-09-09

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[11] **3,035,054**  
[13] C

[51] **Int.Cl. C12P 7/10 (2006.01) C12P 1/00 (2006.01) C12P 19/02 (2006.01) C12P 19/14 (2006.01)**  
[25] EN  
[54] **DETOXIFICATION WITH REDUCING AGENTS**  
[54] **DETOXICATION AVEC AGENTS REDUCTEURS**  
[72] JONSSON, LEIF, SE  
[72] ALRIKSSON, BJORN, SE  
[72] CAVKA, ADNAN, SE  
[73] SEKAB E-TECHNOLOGY AB, SE  
[86] (3035054)  
[87] (3035054)  
[22] 2010-12-17  
[62] 2,783,200  
[30] EP (09180193.6) 2009-12-21

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[11] **3,035,103**  
[13] C

[51] **Int.Cl. E06B 3/26 (2006.01) E06B 3/54 (2006.01) E06B 3/72 (2006.01)**  
[25] EN  
[54] **INFILL PANEL AND OPERABLE FENESTRATION FRAME ADJUSTMENT SYSTEM**  
[54] **SYSTEME D'AJUSTEMENT DE CADRE DE FENETRE FONCTIONNEL ET DE PANNEAU INTERCALAIRE**  
[72] HEADER, GREGORY A., US  
[73] HEADER, GREGORY A., US  
[86] (3035103)  
[87] (3035103)  
[22] 2019-02-28

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[11] **3,035,552**  
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/12 (2006.01) F17D 3/01 (2006.01)**  
[25] EN  
[54] **MANAGING A NETWORK OF WELLS AND SURFACE FACILITIES BY FINDING A STEADY-STATE FLOW SOLUTION FOR A PIPE SUB-NETWORK**  
[54] **GESTION D'UN RESEAU DE PUIITS ET D'INSTALLATIONS DE SURFACE GRACE A LA DECOUVERTE D'UNE SOLUTION D'ECOULEMENT PERMANENT POUR UN SOUS-RESEAU DE TUYAUX**  
[72] FLEMING, GRAHAM C., US  
[72] MA, JIE, US  
[73] LANDMARK GRAPHICS CORPORATION, US  
[85] 2019-02-28  
[86] 2016-11-04 (PCT/US2016/060617)  
[87] (WO2018/084856)

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[11] **3,036,414**  
[13] C

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/20 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**  
[25] EN  
[54] **CYCLIC HYBRID INTEGRATED PROCESS UTILIZING STEAM AND SOLVENT**  
[54] **PROCEDE INTEGRE HYBRIDE CYCLIQUE EMPLOYANT LA VAPEUR ET UN SOLVANT**  
[72] SUITOR, MATHEW D., CA  
[72] WANG, JIANLIN, CA  
[73] IMPERIAL OIL RESOURCES LIMITED, CA  
[86] (3036414)  
[87] (3036414)  
[22] 2019-03-12

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[11] **3,036,419**  
[13] C

[51] **Int.Cl. B63H 25/04 (2006.01)**  
[25] EN  
[54] **HYDRAULIC HELM PUMP WITH INTEGRATED ELECTRIC PUMP**  
[54] **POMPE DE BARRE HYDRAULIQUE DOTEE D'UNE POMPE ELECTRIQUE INTEGREE**  
[72] SHANNON, DAVID THOMAS, CA  
[73] CMP GROUP LTD., CA  
[85] 2019-03-08  
[86] 2016-09-22 (PCT/IB2016/055656)  
[87] (WO2018/055436)

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[13] C

[51] **Int.Cl. H04W 48/10 (2009.01) H04W 48/14 (2009.01) H04W 88/08 (2009.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR PROVIDING SYSTEM INFORMATION**  
[54] **PROCEDE ET APPAREIL DE FOURNITURE D'INFORMATIONS DE SYSTEME**  
[72] BYUN, DAEWOOK, KR  
[72] XU, JIAN, KR  
[72] KIM, SANGWON, KR  
[72] KIM, SEOKJUNG, KR  
[72] LEE, JAEWOOK, KR  
[73] LG ELECTRONICS INC., KR  
[85] 2019-03-11  
[86] 2018-04-11 (PCT/KR2018/004251)  
[87] (WO2018/190636)  
[30] US (62/484,897) 2017-04-13  
[30] US (62/492,327) 2017-05-01  
[30] US (62/519,889) 2017-06-15  
[30] US (62/529,442) 2017-07-06  
[30] KR (10-2018-0041939) 2018-04-11

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[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**  
[25] EN  
[54] **ANTI-HUMAN 4-1BB ANTIBODIES AND USES THEREOF**  
[54] **ANTICORPS ANTI-4-1 BB HUMAIN ET SON UTILISATION**  
[72] KWON, BYOUNG S., KR  
[72] LEE, SEOUNG-JOO, KR  
[72] KIM, YOUNG HO, KR  
[72] OH, HO-SIK, KR  
[72] LEE, JOONG WON, KR  
[73] EUTILEX CO., LTD., KR  
[85] 2019-04-08  
[86] 2018-01-05 (PCT/IB2018/000043)  
[87] (WO2018/127787)  
[30] US (62/443,281) 2017-01-06

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[11] **3,041,463**  
[13] C

[51] **Int.Cl. H04L 29/06 (2006.01)**  
[25] EN  
[54] **FACILITATING PRACTICAL BYZANTINE FAULT TOLERANCE BLOCKCHAIN CONSENSUS AND NODE SYNCHRONIZATION**  
[54] **FACILITATION D'UN CONSENSUS DE CHAINE DE BLOCS ET D'UNE SYNCHRONISATION DE NŒUDS POUR LA TOLERANCE PRATIQUE AUX DEFAILLANCES ARBITRAIRES**  
[72] YANG, DAYI, CN  
[73] ALIBABA GROUP HOLDING LIMITED, KY  
[85] 2019-04-18  
[86] 2018-11-07 (PCT/CN2018/114334)  
[87] (WO2019/072263)

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[11] **3,042,041**  
[13] C

[51] **Int.Cl. C10M 137/10 (2006.01) C10M 137/04 (2006.01) C10M 159/20 (2006.01) C10M 163/00 (2006.01)**  
[25] EN  
[54] **THIOPHOSPHATE COMPOSITIONS FOR USE IN LUBRICANTS**  
[54] **COMPOSITIONS D'ADDITIFS POUR LUBRIFIANTS CONTENANT DES COMPOSES CONTENANT DU PHOSPHORE ET LEURS UTILISATIONS**  
[72] EDWARDS, DAVID, US  
[72] DURBIN, KRISTINE, US  
[72] MCCOVICK, ROBERT E., US  
[72] PARKS, BEVIN, US  
[73] AFTON CHEMICAL CORPORATION, US  
[85] 2019-04-26  
[86] 2017-10-31 (PCT/US2017/059343)  
[87] (WO2018/081810)  
[30] US (15/339,868) 2016-10-31

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[11] **3,042,072**  
[13] C

[51] **Int.Cl. B27B 5/38 (2006.01) B23D 47/02 (2006.01) F16C 33/16 (2006.01) F16C 33/20 (2006.01)**  
[25] EN  
[54] **CIRCULAR SAW BLADE GUIDE PADS, CIRCULAR SAW GUIDE ASSEMBLIES INCLUDING THE GUIDE PADS, CIRCULAR SAWS INCLUDING THE GUIDE ASSEMBLIES, METHODS OF MANUFACTURING THE GUIDE PADS, AND METHODS OF UTILIZING CIRCULAR SAWS**  
[54] **PLAQUETTES DE GUIDAGE DE LAME DE SCIE CIRCULAIRE, ENSEMBLES DE GUIDAGE DE SCIE CIRCULAIRE COMPRENANT LES PLAQUETTES DE GUIDAGE, SCIES CIRCULAIRES COMPRENANT LES ENSEMBLES DE GUIDAGE, METHODES DE FABRICATION DES PLAQUETTES DE GUIDAGE ET METHODES D'UTILISATION DES SCIES CIRCULAIRES**  
[72] STROUD, GARY ARTHUR, CA  
[72] TOMPKINS, CRAIG J., US  
[73] BURTON SAW AND SUPPLY, L.L.C., US  
[86] (3042072)  
[87] (3042072)  
[22] 2019-05-01  
[30] CA (3,003,704) 2018-05-02  
[30] US (16/398,797) 2019-04-30

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[11] **3,043,928**  
[13] C

[51] **Int.Cl. H04W 4/70 (2018.01) H04L 29/08 (2006.01)**  
[25] EN  
[54] **IOT TAG & INVIVO SENSOR SYSTEM AND COMMUNICATION METHOD**  
[54] **ETIQUETTE IDO, SYSTEME DE CAPTEUR INVIVO ET PROCEDE DE COMMUNICATION**  
[72] STRUHSACKER, PAUL, US  
[73] TIONESTA, LLC, US  
[85] 2019-05-14  
[86] 2018-10-29 (PCT/US2018/057995)  
[87] (WO2019/089457)  
[30] US (15/799,178) 2017-10-31

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[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/3207 (2006.01) A61M 25/00 (2006.01)**  
[25] EN  
[54] **BALLOON CATHETERS AND METHODS THEREOF**  
[54] **CATHETERS A BALLONNET ET PROCEDES ASSOCIES**  
[72] DICLAUDIO, KAREN A., US  
[73] C.R. BARD, INC., US  
[85] 2019-06-14  
[86] 2017-12-12 (PCT/US2017/065839)  
[87] (WO2018/111889)  
[30] US (62/435,223) 2016-12-16

[11] **3,048,188**  
[13] C

[51] **Int.Cl. H04L 1/00 (2006.01)**  
[25] EN  
[54] **FILTERING CODE BLOCKS TO MAINTAIN HIGH THROUGHPUT THRU A FORWARD ERROR CORRECTION DECODER**  
[54] **FILTRAGE DE BLOCS DE CODE POUR MAINTENIR UN DEBIT ELEVE A TRAVERS UN DECODEUR DE CORRECTION D'ERREUR SANS VOIE DE RETOUR**  
[72] SUBRAMANIAM, BALA, US  
[72] DUHOVICH, ALEXEI, US  
[73] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2019-06-21  
[86] 2017-12-20 (PCT/US2017/067509)  
[87] (WO2018/125698)  
[30] US (15/392,103) 2016-12-28

[11] **3,048,264**  
[13] C

[51] **Int.Cl. F16J 15/28 (2006.01) F16J 15/34 (2006.01)**  
[25] EN  
[54] **MECHANISM FOR ASSEMBLING SPLIT SEAL RINGS**  
[54] **MECANISME D'ASSEMBLAGE DE BAGUES D'ETANCHEITE FENDUES**  
[72] OWENS, GLENN ROBERT, JR., US  
[72] RYNEARSON, RODNEY WAYNE, US  
[72] KRAUS, MICHAEL ANTHONY, US  
[73] FLOWSERVE MANAGEMENT COMPANY, US  
[85] 2019-06-19  
[86] 2018-01-10 (PCT/US2018/013131)  
[87] (WO2018/132451)  
[30] US (62/445,276) 2017-01-12

[11] **3,053,219**  
[13] C

[51] **Int.Cl. G06T 7/00 (2017.01)**  
[25] EN  
[54] **REAL-TIME, FULL WEB IMAGE PROCESSING METHOD AND SYSTEM FOR WEB MANUFACTURING SUPERVISION**  
[54] **PROCEDE ET SYSTEME DE TRAITEMENT D'IMAGES EN TEMPS REEL DE BANDE ENTIERE POUR SUPERVISION DE FABRICATION DE BANDES**  
[72] HUOTILAINEN, TOMMI, FI  
[73] ABB SCHWEIZ AG, CH  
[85] 2019-08-09  
[86] 2018-02-09 (PCT/EP2018/053327)  
[87] (WO2018/146271)  
[30] EP (17020055.4) 2017-02-10

[11] **3,054,504**  
[13] C

[51] **Int.Cl. F16L 1/024 (2006.01) F16L 1/036 (2006.01)**  
[25] EN  
[54] **AUTOMATED PIPELINE CONSTRUCTION APPARATUS, SYSTEM AND METHOD**  
[54] **APPAREIL, SYSTEME ET METHODE DE CONSTRUCTION AUTOMATISEE DE PIPELINE**  
[72] RAMSAY, JEROME, CA  
[72] MICKEY, KEITH, CA  
[72] ORCHERTON, JIM, CA  
[72] STEWART, ROBERT, CA  
[73] JRAMCO INC., CA  
[86] (3054504)  
[87] (3054504)  
[22] 2019-09-06

[11] **3,055,408**  
[13] C

[51] **Int.Cl. F17D 3/03 (2006.01) F17D 3/05 (2006.01) G01N 21/05 (2006.01)**  
[25] EN  
[54] **PIPELINE INTERCHANGE FOR PETROLEUM PRODUCTS**  
[54] **ECHANGEUR DE PIPELINE POUR PRODUITS PETROLIERS**  
[72] RADY, PAUL, US  
[73] PHILLIPS 66 COMPANY, US  
[85] 2019-09-12  
[86] 2019-04-23 (PCT/US2019/028713)  
[87] (3055408)  
[30] US (62/667,694) 2018-05-07  
[30] US (16/391,817) 2019-04-23



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[13] C

[51] **Int.Cl. H02J 50/12 (2016.01) H01F 27/28 (2006.01) H01F 38/14 (2006.01)**

[25] EN

[54] **A SYSTEM FOR WIRELESS POWER TRANSFER BETWEEN LOW AND HIGH ELECTRICAL POTENTIAL, AND A HIGH VOLTAGE CIRCUIT BREAKER**

[54] **SYSTEME DE TRANSFERT D'ENERGIE SANS FIL ENTRE DES HAUT ET BAS POTENTIELS ELECTRIQUES, ET DISJONCTEUR HAUTE TENSION**

[72] SALINAS, ENER, SE

[72] BORMANN, DIERK, SE

[73] ABB POWER GRIDS SWITZERLAND AG, CH

[85] 2019-09-26

[86] 2018-03-27 (PCT/EP2018/057737)

[87] (WO2018/184909)

[30] EP (17165430.4) 2017-04-07

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[11] **3,058,236**  
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 21/62 (2013.01) G06F 21/64 (2013.01) G06F 16/27 (2019.01)**

[25] EN

[54] **RETRIEVING PUBLIC DATA FOR BLOCKCHAIN NETWORKS USING HIGHLY AVAILABLE TRUSTED EXECUTION ENVIRONMENTS**

[54] **RECUPERATION DE DONNEES PUBLIQUES POUR DES RESEAUX DE CHAINES DE BLOCS AU MOYEN D'ENVIRONNEMENTS D'EXECUTION SECURISES HAUTEMENT DISPONIBLES**

[72] YU, YIRONG, CN

[73] ALIBABA GROUP HOLDING LIMITED, KY

[85] 2019-09-27

[86] 2019-03-27 (PCT/CN2019/079800)

[87] (WO2019/120318)

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[11] **3,060,024**  
[13] C

[51] **Int.Cl. H02H 7/26 (2006.01)**

[25] EN

[54] **FAULT SWITCH CONFIGURATION AND CLEARING METHOD IN FLEXIBLE DC CONVERTER STATION**

[54] **CONFIGURATION DE COMMUTATEUR ET PROCEDE D'ELIMINATION DE DEFAILLANCE DANS UNE STATION DE CONVERSION FLEXIBLE DE CC**

[72] LU, YU, CN

[72] LI, GANG, CN

[72] TIAN, JIE, CN

[72] WANG, NANNAN, CN

[72] LI, HAIYING, CN

[72] JIANG, CHONGXUE, CN

[72] SUI, SHUNKE, CN

[73] NR ELECTRIC CO., LTD, CN

[73] NR ENGINEERING CO., LTD, CN

[85] 2019-10-15

[86] 2018-05-22 (PCT/CN2018/087791)

[87] (WO2018/219174)

[30] CN (201710406486.2) 2017-06-02

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[11] **3,064,122**  
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 40/20 (2020.01) H04L 12/16 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING DOCUMENT COMPATIBILITY**

[54] **SYSTEMES ET PROCEDES POUR DETERMINER LA COMPATIBILITE DES DOCUMENTS**

[72] ABAD, FARDIN ABDI TAGHI, US

[72] WALTERS, AUSTIN, US

[72] GOODSITT, JEREMY EDWARD, US

[72] FARIVAR, REZA, US

[72] PHAM, VINCENT, US

[72] TRUONG, ANH, US

[72] TAYLOR, KENNETH, US

[72] WATSON, MARK, US

[73] CAPITAL ONE SERVICES, LLC, US

[86] (3064122)

[87] (3064122)

[22] 2019-12-05

[30] US (62/783,612) 2018-12-21

[30] US (62/783,731) 2018-12-21

[30] US (16/401,075) 2019-05-01

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[11] **3,069,579**  
[13] C

[51] **Int.Cl. H04N 19/124 (2014.01)**

[25] EN

[54] **ENCODER, ENCODING METHOD, DECODER, AND DECODING METHOD**

[54] **DISPOSITIF DE CODAGE, PROCEDE DE CODAGE, DISPOSITIF DE DECODAGE ET PROCEDE DE DECODAGE**

[72] OHKAWA, MASATO, JP

[72] SAITOU, HIDEO, JP

[72] TOMA, TADAMASA, JP

[72] NISHI, TAKAHIRO, JP

[72] ABE, KIYOFUMI, JP

[72] KANO, RYUICHI, JP

[73] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US

[85] 2020-01-09

[86] 2018-07-11 (PCT/JP2018/026113)

[87] (WO2019/013235)

[30] US (62/532,050) 2017-07-13

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[11] **3,077,714**  
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01)**

[25] EN

[54] **METHOD OF CONTROLLING A DRILLING OPERATION, AND ROTATING CONTROL DEVICE MITIGATOR**

[54] **METHODE DE COMMANDE D'UNE OPERATION DE FORAGE ET D'UN ATTENUATEUR DE DISPOSITIF DE COMMANDE ROTATIF**

[72] SCOTVOLD, SEAN WILLIAM, CA

[72] NG, CHOON-SUN JAMES, CA

[72] HEPBURN, QUINN HARRISON, CA

[72] EDDY, JOHN AARON, CA

[73] PASON SYSTEMS CORP., CA

[86] (3077714)

[87] (3077714)

[22] 2020-04-09

# Canadian Applications Open to Public Inspection

August 9, 2020 to August 15, 2020

## Demandes canadiennes mises à la disponibilité du public

9 août 2020 au 15 août 2020

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[21] **3,033,401**  
[13] A1  
[51] **Int.Cl. B05B 1/14 (2006.01) A01C 23/00 (2006.01) A01G 25/00 (2006.01) A01G 25/14 (2006.01)**  
[25] EN  
[54] **WALKER SPRAYER R - 700**  
[54] **PULVERISATEUR WALKER R - 700**  
[72] UNKNOWN, XX  
[71] WALKER, WILLIAM, CA  
[22] 2019-02-11  
[41] 2020-08-11

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[21] **3,033,404**  
[13] A1  
[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/02 (2012.01) G06Q 50/04 (2012.01) A01G 22/00 (2018.01) A24B 15/24 (2006.01) A24D 1/18 (2006.01) B41J 3/44 (2006.01) B65B 5/00 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR INDUSTRIAL PROCESSES**  
[54] **METHODS ET SYSTEMES POUR LES PROCÉDES INDUSTRIELS**  
[72] ALSAYAR, MAX, CA  
[71] HEXO OPERATIONS INC., CA  
[22] 2019-02-11  
[41] 2020-08-11

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[21] **3,033,415**  
[13] A1  
[51] **Int.Cl. A63F 13/21 (2014.01) A63F 13/23 (2014.01) A63F 13/80 (2014.01) A63B 22/06 (2006.01)**  
[25] EN  
[54] **EXERCISE EQUIPMENT PHYSICAL GAME CONTROLLER AND SOFTWARE INTERFACE**  
[54] **CONTROLEUR DE JEU D'ENTRAÎNEMENT PHYSIQUE SUR ÉQUIPEMENT D'EXERCICE ET INTERFACE LOGICIELLE**  
[72] UNKNOWN, XX  
[72] DODDS, CHRISTOPHER M., CA  
[71] DODDS, CHRISTOPHER M., CA  
[22] 2019-02-11  
[41] 2020-08-11

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[21] **3,033,418**  
[13] A1  
[51] **Int.Cl. A62B 3/00 (2006.01) A47B 47/00 (2006.01) A47B 85/00 (2006.01) E06C 1/34 (2006.01) E06C 9/00 (2006.01)**  
[25] EN  
[54] **SHELVING AND EMERGENCY EGRESS UNIT**  
[54] **UNITE D'ÉVALUATION D'URGENCE ET DÉPLOIEMENT**  
[72] MURPHY, JOHN DAVID, CA  
[72] SLAUNWHITE, SHANE, CA  
[71] MURPHY, JOHN DAVID, CA  
[71] SLAUNWHITE, SHANE, CA  
[22] 2019-02-11  
[41] 2020-08-11

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[21] **3,033,563**  
[13] A1  
[51] **Int.Cl. A61G 9/00 (2006.01)**  
[25] EN  
[54] **CUSHIONED WATERLESS SANITARY TOILET**  
[54] **TOILETTE HYGIÉNIQUE SANS EAU À SIÈGE COUSSINE**  
[72] GRADOV, NATASHA, US  
[71] GRADOV, NATASHA, US  
[22] 2019-02-12  
[41] 2020-08-12

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[21] **3,033,604**  
[13] A1  
[51] **Int.Cl. C10G 9/16 (2006.01) B08B 3/00 (2006.01) B08B 9/027 (2006.01) C23G 5/00 (2006.01) F28G 13/00 (2006.01)**  
[25] EN  
[54] **DECOKING PROCESS**  
[54] **PROCÉDE DE DÉCALAMINAGE**  
[72] KOSELEK, MICHAEL, CA  
[72] BENUM, LESLIE, CA  
[72] SIMANZHENKOV, VASILY, CA  
[72] FARAG, HANY, CA  
[71] NOVA CHEMICALS CORPORATION, CA  
[22] 2019-02-12  
[41] 2020-08-12

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[21] **3,033,606**  
[13] A1  
[51] **Int.Cl. E04D 3/24 (2006.01) E04C 2/40 (2006.01) E04D 3/32 (2006.01) E04D 3/34 (2006.01)**  
[25] EN  
[54] **INTERLOCKING ROOFING PANELS**  
[54] **PANNEAUX DE TOITURE D'INTERVERROUILLAGE**  
[72] KAMPHUIS, HENRY, CA  
[71] G.E.M. INC., CA  
[22] 2019-02-12  
[41] 2020-08-12

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[21] **3,033,612**  
[13] A1  
[51] **Int.Cl. B64G 1/28 (2006.01) B64G 1/32 (2006.01)**  
[25] EN  
[54] **SPACECRAFT CONTROL USING RESIDUAL DIPOLE**  
[54] **COMMANDE D'UN VÉHICULE SPATIAL À L'AIDE D'UN DIPOLE RESIDUEL**  
[72] ABBASI, VIQAR, CA  
[72] DOYON, MICHEL, CA  
[71] CANADIAN SPACE AGENCY, CA  
[22] 2019-02-12  
[41] 2020-08-12

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[21] **3,033,649**  
[13] A1

[51] **Int.Cl. G07F 19/00 (2006.01) G06F 21/35 (2013.01)**  
[25] EN  
[54] **AUTOMATED TELLER MACHINE PROVIDING WITHDRAWALS WITH A SINGLE AUTHENTICATION FACTOR**  
[54] **GUICHET AUTOMATIQUE PERMETTANT LES RETRAITS AVEC UN SEUL FACTEUR D'AUTHENTIFICATION**  
[72] PRATTEN, A. WARREN, CA  
[72] MILES, ANTHONY WAYNE, CA  
[72] MALHOTRA, VIKRAM, CA  
[72] BHADRA, RATNADEEP, CA  
[72] MCCRAE, JAMES KENNETH, CA  
[72] FAZIO, VINCENT, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2019-02-13  
[41] 2020-08-13

[21] **3,033,664**  
[13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR INTERFACING ACQUIRING ENTITIES AND REALTORS**  
[54] **SYSTEME ET PROCEDE D'INTERFACAGE POUR LES ENTITES ET AGENTS IMMOBILIERS D'ACQUISITION**  
[72] GIBBON, PATRICK, CA  
[72] PRYOR, JAMES ZACHARY, CA  
[72] BARNETT, JONATHAN K., CA  
[72] D'SOUZA, ROY, CA  
[72] LAW, WILLIAM STEWART JAMES, CA  
[72] MCALPINE, CHRISTOPHER ARTHUR HOLLAND, CA  
[72] MCALPINE, ETHAN CHRISTOPHER, CA  
[72] VERNA, MARIA, CA  
[72] GORALSKI, PATRICK ROBERT, CA  
[72] CARREL, CATHLEEN RUTH, CA  
[72] ANAND, ROHAN, CA  
[72] DYBA, CHRISTY ANN, CA  
[72] JAGTIANI, DHEERAJ, CA  
[72] ALAVI-HARATI, ASHKAN, CA  
[72] HAFEZI, ALI, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2019-02-13  
[41] 2020-08-13

[21] **3,033,682**  
[13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01) G06F 16/9035 (2019.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR SEARCHING AND MONITORING ASSETS AVAILABLE FOR ACQUISITION**  
[54] **SYSTEME ET PROCEDE DE RECHERCHE ET DE SURVEILLANCE DES BIENS DISPONIBLES AUX FINS D'ACQUISITION**  
[72] GIBBON, PATRICK, CA  
[72] PRYOR, JAMES ZACHARY, CA  
[72] BARNETT, JONATHAN K., CA  
[72] D'SOUZA, ROY, CA  
[72] LAW, WILLIAM STEWART JAMES, CA  
[72] MCALPINE, CHRISTOPHER ARTHUR HOLLAND, CA  
[72] MCALPINE, ETHAN CHRISTOPHER, CA  
[72] VERNA, MARIA, CA  
[72] GORALSKI, PATRICK ROBERT, CA  
[72] CARREL, CATHLEEN RUTH, CA  
[72] ANAND, ROHAN, CA  
[72] DYBA, CHRISTY ANN, CA  
[72] JAGTIANI, DHEERAJ, CA  
[72] HAFEZI, ALI, CA  
[72] ALAVI-HARATI, ASHKAN, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2019-02-13  
[41] 2020-08-13

[21] **3,033,686**  
[13] A1

[51] **Int.Cl. A01G 9/20 (2006.01)**  
[25] EN  
[54] **UNIVERSAL SMART GROW LIGHT WITH OTHER GROWTH ENHANCEMENT FUNCTIONS**  
[54] **LAMPE HORTICOLE INTELLIGENTE UNIVERSELLE MUNIE DE FONCTIONS D'AMELIORATION DE LA CROISSANCE**  
[72] VASUDEVA, KAILASH C., CA  
[71] VASUDEVA, KAILASH C., CA  
[22] 2019-02-13  
[41] 2020-08-13

[21] **3,033,704**  
[13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR INTERFACING ENTITIES ENGAGED IN PROPERTY EXCHANGE ACTIVITIES**  
[54] **SYSTEME ET PROCEDE POUR INTERFACAGE DES ENTITES PARTICIPANT A DES ACTIVITES D'ECHANGE DE PROPRIETES**  
[72] GIBBON, PATRICK, CA  
[72] PRYOR, JAMES ZACHARY, CA  
[72] BARNETT, JONATHAN K., CA  
[72] D'SOUZA, ROY, CA  
[72] LAW, WILLIAM STEWART JAMES, CA  
[72] MCALPINE, CHRISTOPHER ARTHUR HOLLAND, CA  
[72] MCALPINE, ETHAN CHRISTOPHER, CA  
[72] VERNA, MARIA, CA  
[72] GORALSKI, PATRICK ROBERT, CA  
[72] CARREL, CATHLEEN RUTH, CA  
[72] ANAND, ROHAN, CA  
[72] DYBA, CHRISTY ANN, CA  
[72] JAGTIANI, DHEERAJ, CA  
[72] HAFEZI, ALI, CA  
[72] ALAVI-HARATI, ASHKAN, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2019-02-13  
[41] 2020-08-13

[21] **3,033,751**  
[13] A1

[51] **Int.Cl. F16G 11/12 (2006.01) B60P 7/06 (2006.01)**  
[25] EN  
[54] **ULTIMATE BINDER, TENSIONING DEVICE**  
[54] **RELIURE FINALE, UN DISPOSITIF DE TRACTION**  
[72] LORAIN, REGINALD R., CA  
[71] LORAIN, REGINALD R., CA  
[22] 2019-02-14  
[41] 2020-08-14

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August 9, 2020 to August 15, 2020**

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[21] **3,033,769**  
[13] A1

[25] FR  
[54] **PARTIAL DISCHARGE  
DETECTOR AND ASSOCIATED  
METHOD**  
[54] **DETECTEUR DE DECHARGE  
PARTIELLE ET METHODE  
ASSOCIEE**  
[72] PINEAU, DANIEL, CA  
[72] CHARETTE, MARTIN, CA  
[72] REYNAUD, LIONEL, CA  
[71] HYDRO-QUEBEC, CA  
[22] 2019-02-14  
[41] 2020-08-14

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[21] **3,033,774**  
[13] A1

[51] **Int.Cl. A61G 7/10 (2006.01) A62B  
35/00 (2006.01)**  
[25] EN  
[54] **ADULT SUPPORT HARNESS AND  
METHOD OF USE**  
[54] **HARNAIS DE SOUTIEN POUR  
ADULTE ET SA METHODE  
D'UTILISATION**  
[72] ARAGON, EDWIN R., US  
[71] ARAGON, EDWIN R., US  
[22] 2019-02-14  
[41] 2020-08-14

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[21] **3,033,775**  
[13] A1

[51] **Int.Cl. E04B 2/86 (2006.01) E04B 1/04  
(2006.01) E04B 1/16 (2006.01) E04B  
1/18 (2006.01) E04C 3/20 (2006.01)  
E04G 21/00 (2006.01)**  
[25] EN  
[54] **PERMANENT FORMS FOR  
COMPOSITE CONSTRUCTION  
COLUMNS AND BEAMS AND  
METHOD OF BUILDING  
CONSTRUCTION**  
[54] **FORMES PERMANENTES POUR  
LES POUTRES ET POTEAUX  
D'UNE CONSTRUCTION  
COMPOSITE ET PROCEDE DE  
CONSTRUCTION DE BATIMENT**  
[72] STEWART, MARLON H., CA  
[71] CONSTANTINE HOMES INC., CA  
[22] 2019-02-14  
[41] 2020-08-14

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[21] **3,033,803**  
[13] A1

[51] **Int.Cl. B65G 65/40 (2006.01) B65D  
88/32 (2006.01) B65D 90/12 (2006.01)  
E21B 41/00 (2006.01) E21B 43/267  
(2006.01) F16M 1/00 (2006.01)**  
[25] EN  
[54] **PROPPANT DELIVERY SYSTEM  
COMPRISING SILOS AND  
SMALLER RECTANGULOID  
STORAGE CONTAINERS  
CARRIED ON A SUPPORT STAND  
AND RELATED METHOD**  
[54] **SYSTEME DE SORTIE D'AGENT  
DE SOUTENEMENT  
COMPRENANT DES SILOS ET  
DES PLUS PETITS CONTENEURS  
DE STOCKAGE  
RECTANGULAIRE PORTES SUR  
UN SUPPORT ET PROCEDE  
CONNEXE**  
[72] FRIESEN, HENRY, CA  
[71] HI-CRUSH CANADA INC., US  
[22] 2019-02-14  
[41] 2020-08-14

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[21] **3,033,804**  
[13] A1

[51] **Int.Cl. A61B 5/16 (2006.01) G16H  
50/20 (2018.01) A61B 5/024 (2006.01)  
A61B 5/11 (2006.01)**  
[25] EN  
[54] **ANXIETY DETECTION IN  
DIFFERENT USER STATES**  
[54] **DETECTION DE L'ANXIETE  
SELON DIFFERENTS ETATS DE  
L'UTILISATEUR**  
[72] KUSHKI, AZADEH, CA  
[72] PULI, AKSHAY SAINAG REDDY,  
CA  
[71] HOLLAND BLOORVIEW KIDS  
REHABILITATION HOSPITAL, CA  
[22] 2019-02-14  
[41] 2020-08-14

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[21] **3,033,818**  
[13] A1

[51] **Int.Cl. G01S 15/88 (2006.01) E21D  
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[25] FR  
[54] **NON-DESTRUCTIVE  
ULTRASONIC WAVEGUIDE  
METHOD FOR ASSESSING THE  
DEPTH AND EXTENT OF  
CORROSION IN REINFORCING  
BOLTS**  
[54] **METHODE NON DESTRUCTIVE  
AUX ULTRASONS EN GUIDE  
D'ONDE POUR EVALUER LA  
PROFONDEUR ET L'ETENDUE  
DE LA CORROSION DANS LES  
BOULONS DE CONSOLIDATION**  
[72] SALEH, KAVEH, CA  
[72] TARAS, ANDRE, CA  
[71] HYDRO-QUEBEC, CA  
[22] 2019-02-12  
[41] 2020-08-12

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[21] **3,033,915**  
[13] A1

[51] **Int.Cl. F16L 55/163 (2006.01) F16L  
47/28 (2006.01) F16L 58/18 (2006.01)**  
[25] EN  
[54] **SERVICE REINFORCEMENT  
SLEEVE AND METHOD OF USE**  
[54] **MANCHON DE RENFORT DE  
SERVICE ET METHODE  
D'UTILISATION**  
[72] MCKAIGUE, KENDRICK SHAUN,  
CA  
[72] KOSSENIYOUK, VADIM, CA  
[71] FER-PAL CONSTRUCTION LTD., CA  
[22] 2019-02-15  
[41] 2020-08-15

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**9 août 2020 au 15 août 2020**

[21] **3,033,917**  
[13] A1

[51] **Int.Cl. C09K 21/14 (2006.01) C09K 21/06 (2006.01) C25B 13/08 (2006.01) H01M 2/16 (2006.01)**

[25] FR

[54] **CELLULOSE-BASED SEPARATORS WITH FLAME RETARDANT, AND THEIR USES IN ELECTROCHEMISTRY**

[54] **SEPARATEURS A BASE DE CELLULOSE AVEC RETARDATEUR DE FLAMME, ET LEURS UTILISATIONS EN ELECTROCHIMIE**

[72] DELAPORTE, NICOLAS, CA

[72] PEREA, ALEXIS, CA

[72] ZAGHIB, KARIM, CA

[71] HYDRO-QUEBEC, CA

[22] 2019-02-15

[41] 2020-08-15

[21] **3,033,926**  
[13] A1

[51] **Int.Cl. A47F 13/00 (2006.01) A47F 7/024 (2006.01) A47G 29/02 (2006.01)**

[25] EN

[54] **ANTI-SWEEP MECHANISM FOR MERCHANDISE DISPLAY HOOK**

[54] **MECANISME D'ANTI-BALAYAGE POUR LES CROCHETS DE PRESENTOIR DE MARCHANDISES**

[72] VOGLER, JAY, CA

[72] GIL, MARTIN, CA

[72] KOSARA, MARIAN, CA

[71] MARKETING IMPACT LIMITED, CA

[22] 2019-02-15

[41] 2020-08-15

[21] **3,034,022**  
[13] A1

[51] **Int.Cl. F24D 19/00 (2006.01) F24F 13/08 (2006.01)**

[25] EN

[54] **AIRFLOW DIRECTOR FOR ELECTRIC BASEBOARD HEATERS**

[54] **DIRECTEUR D'ECOULEMENT D'AIR POUR PLINTHES CHAUFFANTES ELECTRIQUES**

[72] STEINER, GEORGE, CA

[71] STEINER, GEORGE, CA

[22] 2019-02-15

[41] 2020-08-15

[21] **3,034,028**  
[13] A1

[51] **Int.Cl. H04L 9/06 (2006.01) H04L 9/00 (2006.01) H04L 9/08 (2006.01)**

[25] EN

[54] **CRYPTOGRAPHY METHOD AND SYSTEM FOR SECURING DATA VIA ELECTRONIC TRANSMISSION**

[54] **PROCEDE ET METHODE DE CRYPTOGRAPHIE POUR SECURISER LES DONNEES PAR LA TRANSMISSION DE DONNEES ELECTRONIQUE**

[72] WATERS, THOMAS J., US

[72] WATERS, RICHARD H., US

[72] BARRETT, ROBERT N., US

[71] WATERS, THOMAS J., US

[71] WATERS, RICHARD H., US

[71] BARRETT, ROBERT N., US

[22] 2019-02-15

[41] 2020-08-15

[21] **3,035,199**  
[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) G08B 21/18 (2006.01) G08B 25/00 (2006.01) H02B 1/56 (2006.01) H02B 15/00 (2006.01) H02J 3/38 (2006.01) H02J 13/00 (2006.01) G01R 19/165 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR POWER MONITORING AND CONTROL**

[54] **SYSTEMES ET PROCEDES POUR LE CONTROLE ET LA SURVEILLANCE DE L'ENERGIE**

[72] PRINCINSKY, DANIEL, US

[72] HINTON, WILLIAM, US

[71] APPLIED ENERGY LLC, US

[22] 2019-02-28

[41] 2020-08-12

[30] US (16/273,983) 2019-02-12

[21] **3,038,430**  
[13] A1

[51] **Int.Cl. G09G 5/377 (2006.01) G06Q 50/16 (2012.01) G06F 3/14 (2006.01) H04L 12/58 (2006.01) G06F 16/248 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING VISIBILITY OF ELEMENTS OF DISPLAYED ELECTRONIC CONTENT**

[54] **SYSTEME ET PROCEDE POUR CONTROLER LA VISIBILITE DES ELEMENTS DU CONTENU ELECTRONIQUE AFFICHE**

[72] GIBBON, PATRICK, CA

[72] PRYOR, JAMES ZACHARY, CA

[72] BARNETT, JONATHAN K., CA

[72] D'SOUZA, ROY, CA

[72] LAW, WILLIAM STEWART JAMES, CA

[72] MCALPINE, CHRISTOPHER ARTHUR HOLLAND, CA

[72] MCALPINE, ETHAN CHRISTOPHER, CA

[72] VERNA, MARIA, CA

[72] GORALSKI, PATRICK ROBERT, CA

[72] CARREL, CATHLEEN RUTH, CA

[72] ANAND, ROHAN, CA

[72] DYBA, CHRISTY ANN, CA

[72] JAGTIANI, DHEERAJ, CA

[72] HAFEZI, ALI, CA

[72] ALAVI-HARATI, ASHKAN, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-03-29

[41] 2020-08-13

[30] US (16/275,227) 2019-02-13

[30] CA (3,033,682) 2019-02-13

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[21] **3,044,186**  
[13] A1

[51] **Int.Cl. B23D 47/02 (2006.01) B23D 51/02 (2006.01) B27B 9/04 (2006.01)**  
[25] EN  
[54] **ROLLING PLATE ASSEMBLY ATTACHMENT FOR PORTABLE POWER CUTTING TOOLS INCLUDING AN IMPROVED STRUCTURAL DESIGN, IMPROVED WHEEL CONFIGURATION, AND A CUTTING GUIDE**  
[54] **FIXATION POUR ENSEMBLE DE PLAQUE DE LAMINAGE POUR OUTILS DE COUPE ELECTRIQUES PORTABLES Y COMPRIS UNE CONCEPTION STRUCTURALE AMELIOREE, UNE CONFIGURATION DE ROUE AMELIOREE ET UN GUIDE DE COUPE**  
[72] KNIGHT, ERIC, US  
[71] CIRCSAW LLC, US  
[22] 2019-05-24  
[41] 2020-08-12  
[30] US (16/273,570) 2019-02-12

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[21] **3,048,706**  
[13] A1

[51] **Int.Cl. G06F 1/16 (2006.01) F24F 5/00 (2006.01) F25B 1/00 (2006.01) F25B 17/06 (2006.01) G06F 1/20 (2006.01) H05K 7/20 (2006.01)**  
[25] EN  
[54] **TRANSPORTABLE DATACENTER**  
[54] **CENTRE INFORMATIQUE TRANSPORTABLE**  
[72] JOHNSON, SCOT ARTHUR, CA  
[71] JOHNSON, SCOT ARTHUR, CA  
[22] 2019-07-05  
[41] 2020-08-15  
[30] US (62/806,262) 2019-02-15

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[21] **3,050,376**  
[13] A1

[51] **Int.Cl. E04G 23/02 (2006.01) E04F 21/06 (2006.01)**  
[25] EN  
[54] **SURFACE REPAIR TOOL**  
[54] **OUTIL DE REPARATION DE SURFACE**  
[72] KING, RYAN, CA  
[71] KING, RYAN, CA  
[22] 2019-07-23  
[41] 2020-08-11  
[30] US (16/271,932) 2019-02-11

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[21] **3,054,912**  
[13] A1

[51] **Int.Cl. A63C 19/04 (2006.01) A63C 19/02 (2006.01) B32B 27/04 (2006.01) B32B 37/00 (2006.01)**  
[25] EN  
[54] **ATHLETIC PLAY SURFACE**  
[54] **SURFACE DE JEU ATHLETIQUE**  
[72] BURKE, RICHARD L., US  
[71] BURKE, RICHARD L., US  
[22] 2019-09-10  
[41] 2020-08-10  
[30] US (62/822,335) 2019-03-22  
[30] US (16/553,914) 2019-08-28

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[21] **3,055,045**  
[13] A1

[51] **Int.Cl. B41J 29/00 (2006.01) B41J 2/01 (2006.01)**  
[25] EN  
[54] **PRINTING DEVICE**  
[54] **APPAREIL D'IMPRESSION**  
[72] IZAWA, HIDEO, JP  
[72] KOMATSUDA, SEIJI, JP  
[72] TAMURA, EIICHI, JP  
[71] MIYAKOSHI PRINTING MACHINERY CO., LTD., JP  
[22] 2019-09-11  
[41] 2020-08-13  
[30] JP (2019-23890) 2019-02-13

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[21] **3,055,741**  
[13] A1

[51] **Int.Cl. D06F 59/04 (2006.01) B60H 1/34 (2006.01) B60R 7/10 (2006.01) D06F 57/12 (2006.01) F16M 13/02 (2006.01)**  
[25] EN  
[54] **VENT ATTACHMENT FOR USE IN DRYING ARTICLES OF CLOTHING AND THE LIKE**  
[54] **FIXATION D'EVENT A UTILISER DANS LES ELEMENTS DE SECHAGE DES VETEMENTS ET AUTRES**  
[72] SCHWAB, MARK, US  
[71] SCHWAB, MARK, US  
[22] 2019-09-17  
[41] 2020-08-13  
[30] US (16/274,642) 2019-02-13

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[21] **3,061,797**  
[13] A1

[51] **Int.Cl. B60D 1/52 (2006.01)**  
[25] EN  
[54] **RECEIVER-LESS HITCH FOR USE WITH A WINCH**  
[54] **ATTACHE DE REMORQUAGE SANS RECEPTACLE A UTILISER AVEC UN TREUIL**  
[72] UNKNOWN, XX  
[71] SMELTZER, STEVE N., US  
[22] 2019-11-15  
[41] 2020-08-13  
[30] US (16275314) 2019-02-13

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[21] **3,061,995**  
[13] A1

[51] **Int.Cl. F15B 15/24 (2006.01) B64C 9/32 (2006.01) B64C 13/40 (2006.01)**  
[25] EN  
[54] **ACTUATOR CONTROL VALVE ARRANGEMENT**  
[54] **DISPOSITION DE LA VANNE DE REGULATION DE L'ACTIONNEUR**  
[72] MEDINA, RAPHAEL, FR  
[72] MEIGNAT, GREGORY, FR  
[71] GOODRICH ACTUATION SYSTEMS SAS, FR  
[22] 2019-11-18  
[41] 2020-08-11  
[30] EP (19305167.9) 2019-02-11

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[21] **3,062,001**  
[13] A1

[51] **Int.Cl. F15B 15/24 (2006.01)**  
[25] EN  
[54] **ACTUATOR CONTROL VALVE ARRANGEMENT**  
[54] **DISPOSITION DE LA VANNE DE REGULATION DE L'ACTIONNEUR**  
[72] MEDINA, RAPHAEL, FR  
[71] GOODRICH ACTUATION SYSTEMS SAS, FR  
[22] 2019-11-18  
[41] 2020-08-11  
[30] EP (19305168.7) 2019-02-11

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**9 août 2020 au 15 août 2020**

[21] **3,062,440**  
[13] A1

[51] **Int.Cl. G01S 17/95 (2006.01)**  
[25] EN  
[54] **DETERMINING METRICS OF A CLOUD ATMOSPHERE USING TIME-DIFFERENCE MEASUREMENTS**  
[54] **MESURES DE DETERMINATION D'UNE ATMOSPHERE NUAGEUSE A L'AIDE DE MESURES D'INTERVALLES DE TEMPS**  
[72] HUYNH, CUONG THO, US  
[72] ANDERSON, KAARE JOSEF, US  
[71] ROSEMOUNT AEROSPACE INC., US  
[22] 2019-11-21  
[41] 2020-08-13

[21] **3,065,858**  
[13] A1

[51] **Int.Cl. B08B 5/00 (2006.01) G01N 21/94 (2006.01) G01N 37/00 (2006.01)**  
[25] EN  
[54] **ROBOTIC LASER AND VACUUM CLEANING FOR ENVIRONMENTAL GAINS**  
[54] **LASER ROBOTISE ET ASPIRATEUR POUR GAINS ENVIRONNEMENTAUX**  
[72] BOLTON, JOSEPH ANDREW, US  
[72] HUMFELD, KEITH DANIEL, US  
[71] THE BOEING COMPANY, US  
[22] 2019-12-19  
[41] 2020-08-11  
[30] US (16/272,561) 2019-02-11

[21] **3,067,997**  
[13] A1

[51] **Int.Cl. E01H 10/00 (2006.01) E01C 11/24 (2006.01) E01C 19/20 (2006.01)**  
[25] EN  
[54] **SPREADER WITH SHAFTLESS AUGER**  
[54] **ECARTEUR AVEC TARIERE SANS ARBRE**  
[72] FOSSETT, RYAN, US  
[72] HORN, CHRISTOPHER AARON, US  
[72] NEILSON, GREGORY B., US  
[72] YAGIELA, PAUL, US  
[71] DOUGLAS DYNAMICS, L.L.C., US  
[22] 2020-01-13  
[41] 2020-08-15  
[30] US (16/277,647) 2019-02-15

[21] **3,064,212**  
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01)**  
[25] EN  
[54] **STRADDLE PACKER WITH FLUID PRESSURE PACKER SET AND AUTOMATIC STAY-SET**  
[54] **GARNITURE D'ETANCHEITE A CALIFOURCHON AVEC ENSEMBLE DE GARNITURE DE PRESSION DE FLUIDE ET SUSPENSION AUTOMATIQUE**  
[72] HRUPP, JOZE J., US  
[71] EXACTA-FRAC ENERGY SERVICES, INC., US  
[22] 2019-12-09  
[41] 2020-08-11  
[30] US (16/272,225) 2019-02-11

[21] **3,066,817**  
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 39/06 (2006.01)**  
[25] EN  
[54] **SEALS FOR SURGICAL ACCESS ASSEMBLIES**  
[54] **JOINTS D'ETANCHEITE POUR ENSEMBLES D'ACCES CHIRURGICAUX**  
[72] PILLETERE, ROY J., US  
[72] DININO, MATTHEW A., US  
[72] DESJARDIN, KEVIN, US  
[72] EBERSOLE, GARRETT P., US  
[72] THOMAS, JUSTIN, US  
[72] BARIL, JACOB C., US  
[72] LAPIERRE, NICOLETTE R., US  
[72] BROWN, ERIC, US  
[71] COVIDIEN LP, US  
[22] 2020-01-07  
[41] 2020-08-11  
[30] US (16/272,068) 2019-02-11

[21] **3,068,136**  
[13] A1

[51] **Int.Cl. F16D 1/00 (2006.01) F01D 5/06 (2006.01) F02C 7/00 (2006.01) F16B 4/00 (2006.01)**  
[25] EN  
[54] **GAS TURBINE ENGINE AND ROTARY ASSEMBLY THEREFORE**  
[54] **MOTEUR DE TURBINE A GAZ ET ENSEMBLE ROTATIF CORRESPONDANT**  
[72] MAILLOUX-LABROUSSE, MARC-ANTOINE, CA  
[72] LEGHZAOUNI, OTHMANE, CA  
[72] ROUSSEL, YVES, CA  
[72] BERGERON-FILLION, MAX, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-01-14  
[41] 2020-08-12  
[30] US (16/273,653) 2019-02-12

[21] **3,065,016**  
[13] A1

[51] **Int.Cl. H02K 11/00 (2016.01) H02K 1/12 (2006.01) H02K 3/28 (2006.01)**  
[25] EN  
[54] **MOTOR WITH REGENERATIVE BRAKING RESISTOR**  
[54] **MOTEUR AVEC RESISTANCE DE FREINAGE PAR RECUPERATION**  
[72] BENAROUS, MAAMAR, GB  
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB  
[22] 2019-12-12  
[41] 2020-08-12  
[30] EP (19275019.8) 2019-02-12

[21] **3,067,675**  
[13] A1

[51] **Int.Cl. B63H 25/36 (2006.01) B63H 20/12 (2006.01) B63H 21/17 (2006.01) B63H 21/21 (2006.01) B63H 25/52 (2006.01)**  
[25] EN  
[54] **DIGITAL DIRECTION DISPLAY FOR A TROLLING MOTOR**  
[54] **AFFICHAGE DE L'ORIENTATION NUMERIQUE POUR UN MOTEUR DE PECHE A LA TRAINÉ**  
[72] BAILEY, PAUL ROBERT, NZ  
[71] NAVICO HOLDING AS, NO  
[22] 2020-01-13  
[41] 2020-08-14  
[30] US (16/276057) 2019-02-14

[21] **3,068,138**  
[13] A1

[51] **Int.Cl. F02C 7/06 (2006.01) F01D 25/16 (2006.01) F02C 7/28 (2006.01)**  
[25] EN  
[54] **GAS TURBINE ENGINE WITH BEARING SUPPORT STRUCTURE**  
[54] **MOTEUR DE TURBINE A GAZ AVEC SUPPORT DE ROULEMENT**  
[72] LEFEBVRE, GUY, CA  
[72] SYNNOTT, REMY, CA  
[72] DOYON, FRANCOIS, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-01-14  
[41] 2020-08-12  
[30] US (16/273,493) 2019-02-12

**Canadian Applications Open to Public Inspection  
August 9, 2020 to August 15, 2020**

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[21] **3,068,230**  
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) H02H 7/26 (2006.01)**  
[25] EN  
[54] **LOAD SWITCH FOR FRAGILE ELECTRIC POWER NETWORKS**  
[54] **COMMUTEUR DE CHARGEMENT POUR RESEAUX D'ENERGIE ELECTRIQUE FRAGILES**  
[72] BISHOP, MARTIN, US  
[72] WILLIAMS, STEPHEN, US  
[71] S&C ELECTRIC COMPANY, US  
[22] 2020-01-16  
[41] 2020-08-13  
[30] US (62/804,865) 2019-02-13

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[21] **3,068,231**  
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) H02H 7/26 (2006.01) H04L 12/58 (2006.01)**  
[25] EN  
[54] **COMMUNICATION-BASED PERMISSIVE PROTECTION SCHEME FOR POWER DISTRIBUTION NETWORKS**  
[54] **SCHEMA DE PROTECTION AXE SUR LA COMMUNICATION POUR LES RESEAUX DE DISTRIBUTION D'ENERGIE**  
[72] GUO, QING, US  
[72] SHARON, YOAV, US  
[72] MEISINGER, MICHAEL, US  
[71] S&C ELECTRIC COMPANY, US  
[22] 2020-01-16  
[41] 2020-08-13  
[30] US (62/804,863) 2019-02-13

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[21] **3,068,349**  
[13] A1

[51] **Int.Cl. B64D 47/00 (2006.01) H04W 4/38 (2018.01) H04W 76/14 (2018.01) B64F 5/00 (2017.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR TRANSMITTING DATA FROM A AIRCRAFT**  
[54] **SYSTEME ET PROCEDE POUR TRANSMETTRE LES DONNEES A PARTIR D'UN AERONEF**  
[72] FORTIN, FREDERICK, CA  
[72] JARVO, JAMES, CA  
[72] MILLER, JONATHAN, US  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-01-15  
[41] 2020-08-11  
[30] US (62/803,826) 2019-02-11

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[21] **3,068,496**  
[13] A1

[51] **Int.Cl. A61L 2/08 (2006.01)**  
[25] EN  
[54] **A LIGHT AND DISINFECTION SYSTEM AND A METHOD FOR DISINFECTING AN ILLUMINATED SURFACE BY THE SYSTEM**  
[54] **LUMIERE ET SYSTEME DE DESINFECTION ET PROCEDE POUR DESINFECTER UNE SURFACE ECLAIREE PAR LE SYSTEME**  
[72] LEI, MING, CN  
[72] ZHOU, HUIHENG, CN  
[71] CONSUMER LIGHTING (U.S.), LLC, US  
[22] 2020-01-17  
[41] 2020-08-14  
[30] CN (201910113788.X) 2019-02-14

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[21] **3,068,718**  
[13] A1

[51] **Int.Cl. B64D 31/00 (2006.01) F02C 7/26 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR STARTING AN ENGINE**  
[54] **METHODE ET SYSTEME POUR LE DEMARRAGE D'UN MOTEUR**  
[72] YOUSSEF, MICHAEL, CA  
[72] CHAREST, ALEXANDRE, CA  
[72] ZINGARO, GIANCARLO, CA  
[72] CHAHAL, JASRAJ, CA  
[72] LISIO, CARMINE, CA  
[72] MCGRATH, DARRAGH, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-01-16  
[41] 2020-08-13  
[30] US (16/274,384) 2019-02-13

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[21] **3,069,214**  
[13] A1

[51] **Int.Cl. E06B 9/24 (2006.01)**  
[25] EN  
[54] **A TILT-CONTROL ASSEMBLY FOR USE WITH AN OPERATING MECHANISM IN AN ARCHITECTURAL-STRUCTURE COVERING**  
[54] **ENSEMBLE DE CONTROLE D'INCLINAISON POUR UTILISER AVEC UN MECANISME DE FONCTIONNEMENT DANS UN REVETEMENT DE STRUCTURE ARCHITECTURALE**  
[72] MCNEILL, DAVID, US  
[71] HUNTER DOUGLAS INC., US  
[22] 2020-01-22  
[41] 2020-08-12  
[30] US (62/804,496) 2019-02-12

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[21] **3,069,356**  
[13] A1

[51] **Int.Cl. B64C 11/38 (2006.01) B64D 31/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AIRCRAFT PROPELLER GOVERNING**  
[54] **SYSTEME ET PROCEDE POUR REGULATEUR D'HELICE D'AERONEF**  
[72] MEUNIER, GABRIEL, CA  
[72] DES ROCHES-DIONNE, NICOLAS, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-01-22  
[41] 2020-08-15  
[30] US (16/277,310) 2019-02-15

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[21] **3,069,479**  
[13] A1

[51] **Int.Cl. G06Q 20/12 (2012.01) G06Q 20/30 (2012.01) G07G 1/12 (2006.01)**  
[25] EN  
[54] **SHOPPING PAYMENT SYSTEM**  
[54] **SYSTEME DE PAIEMENT POUR LE MAGASINAGE**  
[72] NAKAMURA, KENTA, JP  
[71] NAKAMURA, KENTA, JP  
[22] 2020-01-24  
[41] 2020-08-15  
[30] JP (2019-025683) 2019-02-15



**Demandes canadiennes mises à la disponibilité du public**  
**9 août 2020 au 15 août 2020**

[21] **3,069,895**  
[13] A1

[51] **Int.Cl. E21B 7/00 (2006.01) E21B 7/02 (2006.01)**  
[25] EN  
[54] **ROCK DRILLING ARRANGEMENT, ROCK DRILLING RIG AND DRILLING METHOD**  
[54] **DISPOSITION DE LA PERFORATRICE DE ROCHES, INSTALLATION DE PERFORATRICE DE ROCHES ET METHODE DE PERCAGE**  
[72] KOSKINEN, KIMMO, FI  
[72] YLI-HANNUKSELA, TERO, FI  
[72] SIMILA, JUKKA, FI  
[72] MAKINEN, TAPIO, FI  
[72] HIETIKKO, TONI, FI  
[71] SANDVIK MINING AND CONSTRUCTION OY, FI  
[22] 2020-01-27  
[41] 2020-08-14  
[30] EP (19157067.0) 2019-02-14

[21] **3,070,119**  
[13] A1

[51] **Int.Cl. E21B 19/16 (2006.01)**  
[25] EN  
[54] **WELLBORE TONG**  
[54] **PINCE DE Puits**  
[72] WOOD, KEVIN, US  
[72] BECKER, ARNE TJARK, US  
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[22] 2020-01-28  
[41] 2020-08-13  
[30] US (16/274,952) 2019-02-13

[21] **3,070,734**  
[13] A1

[51] **Int.Cl. B60J 7/12 (2006.01)**  
[25] EN  
[54] **REAR MOUNTED FOLDABLE TOP**  
[54] **COUVERCLE PLIABLE MONTE A L'ARRIERE**  
[72] GAUCI, JASON, US  
[71] LUND MOTION PRODUCTS, INC., US  
[22] 2020-01-31  
[41] 2020-08-11  
[30] US (62/803909) 2019-02-11  
[30] US (16/776841) 2020-01-30

[21] **3,070,819**  
[13] A1

[51] **Int.Cl. H04Q 1/02 (2006.01) H04Q 1/24 (2006.01) H04Q 1/28 (2006.01)**  
[25] EN  
[54] **RACK ADAPTED FOR RECEIVING A COMPONENT, SYSTEM INCLUDING THE RACK AND THE COMPONENT AND METHOD OF DELIVERING POWER TO A COMPONENT MOUNTED IN A RACK**  
[54] **SUPPORT ADAPTE POUR RECEVOIR UNE COMPOSANTE, SYSTEME Y COMPRIS LE SUPPORT ET LA COMPOSANTE ET PROCEDE POUR ALIMENTER UNE COMPOSANTE MONTEE SUR LE SUPPORT**  
[72] THIBAUT, CHRISTOPHE MAURICE, FR  
[71] OVH, FR  
[22] 2020-02-04  
[41] 2020-08-13  
[30] EP (19315006.7) 2019-02-13

[21] **3,071,167**  
[13] A1

[51] **Int.Cl. B28B 23/00 (2006.01) B28B 7/08 (2006.01) B29C 39/18 (2006.01) E02B 3/12 (2006.01) E02D 17/20 (2006.01)**  
[25] EN  
[54] **FLEXIBLE MAT FORMING SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE POUR FORMER UN TAPIS SOUPLE**  
[72] MOTZ, MATTHEW JAMES, US  
[72] STALLO, SEAN ROBERT, US  
[71] MOTZ ENTERPRISES, INC., US  
[22] 2020-02-05  
[41] 2020-08-15  
[30] US (16/530,450) 2019-08-02  
[30] US (16/277,540) 2019-02-15  
[30] US (16/295,784) 2019-03-07

[21] **3,071,175**  
[13] A1

[51] **Int.Cl. B28B 23/00 (2006.01) B28B 7/08 (2006.01) B29C 39/14 (2006.01) E02B 3/12 (2006.01)**  
[25] EN  
[54] **PROCESS AND SYSTEM FOR MAKING AN EROSION CONTROL MAT**  
[54] **PROCEDE ET SYSTEME POUR FABRIQUER UN TAPIS DE CONTROLE DE L'EROSION**  
[72] MOTZ, MATTHEW J., US  
[71] MOTZ ENTERPRISES, INC., US  
[22] 2020-02-05  
[41] 2020-08-15  
[30] US (16/530,450) 2019-08-02  
[30] US (16/277,540) 2019-02-15  
[30] US (16/295,784) 2019-03-07

[21] **3,071,312**  
[13] A1

[51] **Int.Cl. A47G 29/02 (2006.01)**  
[25] EN  
[54] **DUVET COVER SYSTEM HAVING CUSTOMIZABLE VARIABLE PERFORMANCE**  
[54] **SYSTEME DE HOUSSE DE COUETTE AVEC RENDEMENT VARIABLE PERSONNALISABLE**  
[72] STEWART, RICHARD, US  
[71] STANDARD TEXTILE CO., INC., US  
[22] 2020-02-06  
[41] 2020-08-15  
[30] US (16/276,742) 2019-02-15

[21] **3,071,323**  
[13] A1

[51] **Int.Cl. F21S 8/02 (2006.01) F21V 17/16 (2006.01) F21V 21/04 (2006.01)**  
[25] EN  
[54] **BAFFLE TRIM MASK SYSTEM**  
[54] **SYSTEME DE MASQUE DE COMPENSATION DE DEFLECTEUR**  
[72] STANGE, JULIE, US  
[72] SINGH, ESHANK, US  
[71] BROAN-NUTONE LLC, US  
[22] 2020-02-05  
[41] 2020-08-13  
[30] US (16/274,365) 2019-02-13

**Canadian Applications Open to Public Inspection  
August 9, 2020 to August 15, 2020**

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[21] **3,071,506**  
[13] A1

[51] **Int.Cl. A47K 10/22 (2006.01) A47K 10/38 (2006.01) B65H 19/10 (2006.01)**

[25] EN  
[54] **CAROUSEL STYLE DISPENSER**  
[54] **DISTRIBUTEUR DE STYLE CARROUSEL**

[72] YOUNG, MICHAEL, US  
[71] SAN JAMAR, INC., US  
[22] 2020-02-06  
[41] 2020-08-13  
[30] US (16/274,716) 2019-02-13

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[21] **3,071,510**  
[13] A1

[51] **Int.Cl. C23C 14/58 (2006.01) B23K 26/352 (2014.01) C23C 14/16 (2006.01) C25D 5/48 (2006.01) C25D 7/00 (2006.01)**

[25] FR  
[54] **ANTI-MULTIPACTOR COATING DEPOSITED ON RF OR MW METAL COMPONENT, PROCESS FOR MAKING SUCH A COATING USING LASER TEXTURING**  
[54] **REVETEMENT ANTI-MULTIPACTOR DEPOSE SUR COMPOSANT METALLIQUE RF OU MW, PROCEDE DE REALISATION PAR TEXTURATION LASER D'UN TEL REVETEMENT**

[72] CAILLAUD, PAULINE, FR  
[72] JANOT, FABRICE, FR  
[71] RADIAL, FR  
[22] 2020-02-05  
[41] 2020-08-11  
[30] FR (19 01 338) 2019-02-11

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[21] **3,071,515**  
[13] A1

[51] **Int.Cl. F24F 13/08 (2006.01) F16B 1/00 (2006.01) F16B 2/00 (2006.01)**

[25] EN  
[54] **GRILLE ATTACHEMENT FEATURE FOR A VENTILATION SYSTEM**  
[54] **FONCTION DE FIXATION DE CALANDRE POUR SYSTEME DE VENTILATION**

[72] MERGENER, BRADLEY, US  
[72] SINUR, RICK, US  
[72] REVERS, RYAN, US  
[71] BROAN-NUTONE LLC, US  
[22] 2020-02-06  
[41] 2020-08-15  
[30] US (62/806,236) 2019-02-15

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[21] **3,071,516**  
[13] A1

[51] **Int.Cl. F24F 13/08 (2006.01) E04F 17/04 (2006.01) F04D 25/06 (2006.01) F04D 25/08 (2006.01) F04D 29/70 (2006.01)**

[25] EN  
[54] **GRILLE ATTACHMENT SYSTEM FOR A VENTILATION SYSTEM**  
[54] **SYSTEME DE FIXATION DE CALANDRE POUR SYSTEME DE VENTILATION**

[72] MERGENER, BRADLEY, US  
[72] SINUR, RICK, US  
[72] REVERS, RYAN, US  
[71] BROAN-NUTONE LLC, US  
[22] 2020-02-06  
[41] 2020-08-15  
[30] US (62/806,219) 2019-02-15

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[21] **3,071,629**  
[13] A1

[51] **Int.Cl. A63B 24/00 (2006.01) G16H 20/30 (2018.01) G16Y 40/00 (2020.01) A61B 5/103 (2006.01) G06F 3/14 (2006.01) G09G 5/377 (2006.01) G09B 29/00 (2006.01)**

[25] EN  
[54] **A SYSTEM AND METHOD TO MAKE VISUAL REPRESENTATIONS OF VIRTUAL ACCOMPLISHMENTS COMPLETED WHILE OPERATING A WORKSPACE FITNESS DEVICE**  
[54] **SYSTEME ET PROCEDE POUR FAIRE DES REPRESENTATIONS VISUELLES DE REALISATIONS VIRTUELLES EFFECTUEES PENDANT L'UTILISATION D'UN DISPOSITIF DE CONDITIONNEMENT PHYSIQUE DANS UN ESPACE DE TRAVAIL**

[72] DE LA FUENTE SANCHEZ, ALFONSO F., CA  
[71] DE LA FUENTE SANCHEZ, ALFONSO F., CA  
[22] 2020-02-08  
[41] 2020-08-10  
[30] GB (GB1901806.8) 2019-02-10

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[21] **3,071,633**  
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01) G06Q 10/10 (2012.01) H04W 4/38 (2018.01) H04W 4/80 (2018.01) A63B 24/00 (2006.01) H04R 3/00 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD TO HAVE A VIRTUAL MEETING IN VIRTUAL REALITY WHILE MEETING ATTENDEES OPERATE A WORKSPACE FITNESS DEVICE**  
[54] **SYSTEME ET PROCEDE POUR AVOIR UNE REUNION VIRTUELLE EN SITUATION PARTICIPANTS UTILISENT UN DISPOSITIF DE CONDITIONNEMENT PHYSIQUE DANS UN ESPACE DE TRAVAIL**

[72] DE LA FUENTE SANCHEZ, ALFONSO F., CA  
[71] DE LA FUENTE SANCHEZ, ALFONSO F., CA  
[22] 2020-02-08  
[41] 2020-08-10  
[30] GB (GB1901805.0) 2019-02-10

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[21] **3,071,733**  
[13] A1

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 23/10 (2006.01) E21B 41/00 (2006.01)**

[25] EN  
[54] **A DOWNHOLE CONNECTION CONNEXION DE FOND DE PUIT**  
[72] ASH, SIMON CHRISTOPHER, GB  
[72] GILHOOLEY, NEILL, GB  
[71] REEVES WIRELINE TECHNOLOGIES LIMITED, GB  
[22] 2020-02-06  
[41] 2020-08-15  
[30] GB (1902141.9) 2019-02-15

**Demandes canadiennes mises à la disponibilité du public**  
**9 août 2020 au 15 août 2020**

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[21] **3,071,738**  
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) B64D 31/00 (2006.01) B64D 47/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AIRCRAFT DATA TRANSMISSION**

[54] **SYSTEME ET PROCEDE POUR LA TRANSMISSION DE DONNEES D'AERONEF**

[72] FORTIN, FREDERIC, CA

[72] JARVO, JAMES, CA

[72] MILLER, JONATHAN, US

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2020-02-06

[41] 2020-08-11

[30] US (62/803,830) 2019-02-11

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[21] **3,071,743**  
[13] A1

[51] **Int.Cl. B62D 33/06 (2006.01) B62D 65/02 (2006.01)**

[25] EN

[54] **CAB CHASSIS VEHICLE AND METHOD OF ASSEMBLING**

[54] **VEHICULE AVEC CHASSIS DE CABINE ET METHODE D'ASSEMBLAGE**

[72] DE SMIDT, MARC RYAN, US

[72] TEIXEIRA, LEONEL, US

[72] BLAAUW, JACQUES, US

[71] SHEM, LLC, US

[22] 2020-02-07

[41] 2020-08-11

[30] US (62/804035) 2019-02-11

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[21] **3,071,904**  
[13] A1

[51] **Int.Cl. E04F 13/22 (2006.01)**

[25] EN

[54] **COLLAR FOR A WALL ANCHOR**

[54] **COLLET POUR ANCRAGE AU MUR**

[72] HOHMANN, RONALD, JR., US

[71] MITEK HOLDINGS, INC., US

[22] 2020-02-10

[41] 2020-08-14

[30] US (16/276192) 2019-02-14

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[21] **3,071,912**  
[13] A1

[51] **Int.Cl. A01D 34/73 (2006.01) A01D 34/64 (2006.01)**

[25] EN

[54] **MOWER BLADE AND ATTACHMENT SYSTEM**

[54] **LAME DE TONDEUSE ET SYSTEME DE FIXATION**

[72] FENG, MICHAEL, US

[72] FELDKAMP, JONATHAN R., US

[72] DINGMAN, TRENT J., US

[72] KONDRO, GRZEGORZ, US

[72] CHAPMAN, SETH H., US

[71] TECHTRONIC CORDLESS GP, US

[22] 2020-02-10

[41] 2020-08-11

[30] US (62/804,013) 2019-02-11

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[21] **3,071,914**  
[13] A1

[51] **Int.Cl. F41C 23/00 (2006.01) F41A 3/66 (2006.01) F41A 11/00 (2006.01) F41C 27/00 (2006.01)**

[25] EN

[54] **FIREARM CHASSIS WITH INTEGRATED RAIL SYSTEM**

[54] **CHASSIS D'ARME A FEU AVEC SYSTEME DE RAIL INTEGRE**

[72] DRAKE, CHRISTOPHER, US

[71] DRAKE ASSOCIATES INC., US

[22] 2020-02-10

[41] 2020-08-11

[30] US (16/272,836) 2019-02-11

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[21] **3,071,931**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 40/04 (2012.01) G06F 17/18 (2006.01) G06K 9/00 (2006.01)**

[25] EN

[54] **TIME-SERIES PATTERN MATCHING SYSTEM**

[54] **SYSTEME DE CORRESPONDANCE DE MOTIF DE SERIE TEMPORELLE**

[72] LAW, SEAN M., US

[71] THE TORONTO-DOMINION BANK, CA

[22] 2020-02-11

[41] 2020-08-11

[30] US (16/272,366) 2019-02-11

[30] US (16/588,497) 2019-09-30

[30] US (62/842,578) 2019-05-03

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[21] **3,071,936**  
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) B60R 11/02 (2006.01) G06F 1/16 (2006.01)**

[25] EN

[54] **SELF WIDTH-ADJUSTING DEVICE HOLDER AND METHOD FOR HOLDING A DEVICE**

[54] **SUPPORT POUR DISPOSITIF A LARGEUR REGLABLE AUTOMATIQUE ET PROCEDE POUR RETENIR UN DISPOSITIF**

[72] VALENTINI, ADRIANO, CA

[72] DI GUIDA, ROBIN, CA

[72] GIANCOLA, ANTONIO, CA

[72] BOA, STEVE, CA

[71] VALENTINI, ADRIANO, CA

[71] DI GUIDA, ROBIN, CA

[71] GIANCOLA, ANTONIO, CA

[71] BOA, STEVE, CA

[22] 2020-02-11

[41] 2020-08-11

[30] US (62/803,889) 2019-02-11

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[21] **3,071,981**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 40/04 (2012.01) G06F 3/0481 (2013.01) G06K 9/00 (2006.01)**

[25] EN

[54] **TIME-SERIES PATTERN MATCHING SYSTEM**

[54] **SYSTEME DE CORRESPONDANCE DE MOTIF DE SERIE TEMPORELLE**

[72] LAW, SEAN MING-YIN, US

[71] THE TORONTO-DOMINION BANK, CA

[22] 2020-02-11

[41] 2020-08-11

[30] US (16/272,366) 2019-02-11

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[21] **3,071,984**  
[13] A1

[51] **Int.Cl. H04W 28/02 (2009.01) H04W 28/04 (2009.01) H04W 52/44 (2009.01) H04L 1/22 (2006.01)**

[25] EN

[54] **POWER CONTROL AND RETRANSMISSION**

[54] **CONTROLE DE PUISSANCE ET RETRANSMISSION**

[72] ZHOU, HUA, US

[72] DINAN, ESMAEL, US

[72] CIRIK, ALI, US

[72] BABAEI, ALIREZA, US

[72] JEON, HYOUNGSUK, US

[72] PARK, KYUNGMIN, US

[72] XU, KAI, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2020-02-11

[41] 2020-08-11

[30] US (62/803,999) 2019-02-11

[21] **3,072,089**  
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01) B68G 7/08 (2006.01)**

[25] EN

[54] **PATTERNED COMFORTER**

[54] **CONFORTABLE A MOTIF**

[72] PARNES, BRIAN, US

[71] DOWN-LITE INTERNATIONAL, INC., US

[22] 2020-02-11

[41] 2020-08-13

[30] US (62/804,854) 2019-02-13

[21] **3,072,090**  
[13] A1

[51] **Int.Cl. A47C 21/00 (2006.01) A47C 31/00 (2006.01) A47G 9/00 (2006.01)**

[25] EN

[54] **NON-SLIP BEDDING MATERIAL**

[54] **MATERIEL POUR LITERIE ANTIDERAPANT**

[72] PARNES, BRIAN, US

[71] DOWN-LITE INTERNATIONAL, INC., US

[22] 2020-02-11

[41] 2020-08-13

[30] US (62/804,850) 2019-02-13

[21] **3,072,139**  
[13] A1

[51] **Int.Cl. B23K 1/00 (2006.01) B23K 1/20 (2006.01) B23K 35/24 (2006.01) B23P 6/00 (2006.01)**

[25] EN

[54] **REPAIR OF THROUGH-HOLE DAMAGE USING BRAZE**

[54] **SINTERED PREFORM**

[54] **REPARATION DE TROUS A L'AIDE D'UNE PREFORME FRITTEE DE BRASAGE**

[72] XU, RAYMOND RUIWEN, US

[72] NELSON, SCOTT, US

[72] HENDERKOTT, JOSEPH PETER, US

[71] ROLLS-ROYCE CORPORATION, US

[22] 2020-02-11

[41] 2020-08-11

[30] US (16/272,664) 2019-02-11

[21] **3,072,142**  
[13] A1

[51] **Int.Cl. A47L 11/292 (2006.01) A47L 11/03 (2006.01) A47L 11/18 (2006.01) A47L 11/24 (2006.01) A47L 11/282 (2006.01)**

[25] EN

[54] **FLOOR CLEANING APPARATUS WITH CLEANING FLUID DELIVERY SYSTEM**

[54] **APPAREIL DE NETTOYAGE DU PLANCHER AVEC SYSTEME DE DISTRIBUTION DE LIQUIDE NETTOYANT**

[72] WANG, GUOSHUN, US

[72] XIA, JINCHENG, US

[72] FENG, XINLIANG, US

[72] LI, FENG CHUN, US

[72] YU, JIANJUN, US

[72] BOILS, DANIELLE, US

[72] BLOEMENDAAL, COLIN J., US

[71] BISSELL INC., US

[22] 2020-02-11

[41] 2020-08-12

[30] US (62/804,342) 2019-02-12

[21] **3,072,145**  
[13] A1

[51] **Int.Cl. E01D 2/00 (2006.01) E01D 2/02 (2006.01) E01D 21/00 (2006.01)**

[25] EN

[54] **IMPROVED TUB GIRDERS AND RELATED MANUFACTURING METHODS**

[54] **POUTRE POUR BAIN AMELIORE ET PROCEDES DE FABRICATION CONNEXES**

[72] NELSON, GUY C., US

[71] VALMONT INDUSTRIES, INC., US

[22] 2020-02-11

[41] 2020-08-12

[30] US (16/273,928) 2019-02-12

[21] **3,072,150**  
[13] A1

[51] **Int.Cl. C10L 3/12 (2006.01)**

[25] EN

[54] **CONVERSION OF NAPHTHA TO LPG IN RENEWABLE HYDROPROCESSING UNITS**

[54] **CONVERSION DE NAPHTHE A FCC DANS DES UNITES D'HYDROTRAITEMENT RENOUVELABLES**

[72] ALKILDE, OLE FREJ, DK

[71] HALDOR TOPSOE A/S, DK

[22] 2020-02-11

[41] 2020-08-12

[30] DK (PA 2019 00195) 2019-02-12

[21] **3,072,152**  
[13] A1

[51] **Int.Cl. A01D 34/835 (2006.01) A01D 34/86 (2006.01) A01D 75/28 (2006.01)**

[25] EN

[54] **GROUND CONTOUR SENSING SYSTEM FOR CROP MOWING HEAD**

[54] **SYSTEME DE CAPTEUR DE CONTOUR DU SOL POUR TETE DE TONTE DES CULTURES**

[72] ROTOLE, DAVID V., US

[71] DEERE & COMPANY, US

[22] 2020-02-11

[41] 2020-08-15

[30] US (16/276,948) 2019-02-15

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**9 août 2020 au 15 août 2020**

[21] **3,072,207**  
[13] A1

[51] **Int.Cl. F15B 15/26 (2006.01) B65F 3/02 (2006.01) E02F 3/36 (2006.01) F15B 20/00 (2006.01) F16B 7/16 (2006.01)**

[25] EN  
 [54] **CYLINDER PROPPING SYSTEM**  
 [54] **SYSTEME DE SOUTÈNEMENT DE CYLINDRE**

[72] RYAN, ROBERT, US  
 [71] OSHKOSH CORPORATION, US  
 [22] 2020-02-12  
 [41] 2020-08-14  
 [30] US (62/805,780) 2019-02-14  
 [30] US (16/783,315) 2020-02-06

[21] **3,072,211**  
[13] A1

[51] **Int.Cl. G06Q 20/14 (2012.01)**

[25] EN  
 [54] **METHOD AND SYSTEM FOR IMPLEMENTING AN ELECTRONIC EXCHANGE FOR BILL PAY TRANSACTIONS**  
 [54] **PROCEDE ET SYSTEME POUR METTRE EN PLACE UN ECHANGE ELECTRONIQUE POUR REALISER DES TRANSACTIONS POUR PAYER LES FACTURES**

[72] HOFFMAN, STEPHEN, US  
 [72] RADONCIC, SEJDO, US  
 [72] WAN, TIFFANY ASHLEY, US  
 [72] LESLIE, AMY M., US  
 [72] BILOZ, JOHN L., US  
 [72] SINGH, RAGHVENDRA, US  
 [71] JPMORGAN CHASE BANK, N.A., US  
 [22] 2020-02-12  
 [41] 2020-08-12  
 [30] US (62/804,429) 2019-02-12

[21] **3,072,224**  
[13] A1

[51] **Int.Cl. A47F 5/00 (2006.01) A47F 5/08 (2006.01) B65G 1/06 (2006.01)**

[25] EN  
 [54] **ADJUSTABLE-WIDTH PUSHER TRAY ASSEMBLY**  
 [54] **ENSEMBLE DE PLATEAU POUSSEUR A LARGEUR REGLABLE**

[72] WILLS, MATTHEW, US  
 [72] PADVOISKIS, JULIA, US  
 [71] RETAIL SPACE SOLUTIONS LLC, US  
 [22] 2020-02-11  
 [41] 2020-08-11  
 [30] US (16/783,410) 2020-02-06  
 [30] US (62/804,004) 2019-02-11  
 [30] US (62/804,012) 2019-02-11

[21] **3,072,225**  
[13] A1

[51] **Int.Cl. B65B 3/04 (2006.01)**

[25] EN  
 [54] **CONTAINER-FILLING SYSTEM**  
 [54] **SYSTEME DE REMPLISSAGE DE RECIPIENT**

[72] O'NAN, DAVID Y., US  
 [72] ARNOLD, DAVID C., US  
 [71] BERRY GLOBAL, INC., US  
 [22] 2020-02-12  
 [41] 2020-08-12  
 [30] US (62/804277) 2019-02-12

[21] **3,072,230**  
[13] A1

[51] **Int.Cl. A47F 5/00 (2006.01) A47F 5/08 (2006.01) B65G 1/06 (2006.01)**

[25] EN  
 [54] **MODULAR PUSHER TRAY ASSEMBLY**  
 [54] **ENSEMBLE DE PLATEAU POUSSEUR MODULAIRE**

[72] WILLS, MATTHEW, US  
 [72] PADVOISKIS, JULIA, US  
 [71] RETAIL SPACE SOLUTIONS LLC, US  
 [22] 2020-02-11  
 [41] 2020-08-11  
 [30] US (16/783,415) 2020-02-06  
 [30] US (62/804,004) 2019-02-11  
 [30] US (62/804,012) 2019-02-11

[21] **3,072,231**  
[13] A1

[51] **Int.Cl. G06F 40/40 (2020.01) G06F 40/211 (2020.01) G06F 40/253 (2020.01) G06F 40/30 (2020.01)**

[25] EN  
 [54] **CONTENT CONVERSION SYSTEM**  
 [54] **SYSTEME DE CONVERSION DU CONTENU**

[72] KARGIANNAKIS, MELISSA, CA  
 [72] REDFERN, DARREN, CA  
 [72] JAMIL, PARAS, CA  
 [71] SKRITSWAP INC., CA  
 [22] 2020-02-13  
 [41] 2020-08-15  
 [30] US (62/806,118) 2019-02-15

[21] **3,072,234**  
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01C 7/08 (2006.01) B60C 3/04 (2006.01) B60C 7/12 (2006.01)**

[25] FR  
 [54] **IMPROVED PRESS WHEEL AND PNEUMATICS FOR SAID WHEEL**  
 [54] **ROUE DE PLOMBAGE AMELIOREE ET PNEUMATIQUE POUR CETTE ROUE**

[72] PHELY, OLIVIER, FR  
 [71] OTICO, FR  
 [22] 2020-02-11  
 [41] 2020-08-13  
 [30] FR (1901464) 2019-02-13

[21] **3,072,238**  
[13] A1

[51] **Int.Cl. F16L 37/60 (2006.01) B64D 37/02 (2006.01) F16L 37/10 (2006.01) F16L 37/24 (2006.01) F16L 37/40 (2006.01)**

[25] FR  
 [54] **QUICK COUPLING FOR FUEL TRANSFER**  
 [54] **RACCORD RAPIDE DE TRANSFERT DE CARBURANT**

[72] IWANLUK, MATHIEU, FR  
 [72] GOUEL, SEBASTIEN, FR  
 [72] BULARD, PHILIPPE, FR  
 [72] MENDES, CHRISTOPHE, FR  
 [71] SAFRAN AEROSYSTEMS, FR  
 [22] 2020-02-11  
 [41] 2020-08-13  
 [30] FR (19 01463) 2019-02-13

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[21] **3,072,248**  
[13] A1

[51] **Int.Cl. H03K 17/687 (2006.01) B61L 23/00 (2006.01)**  
[25] FR  
[54] **SAFETY STATIC RELAY CELL AND ASSOCIATED ASSEMBLY OF STATIC RELAY CELLS**  
[54] **CELLULE DE RELAIS STATIQUE DE SECURITE ET ENSEMBLE DE CELLULES DE RELAIS STATIQUE ASSOCIE**  
[72] LAMARCHE, DAMIEN, FR  
[72] BLERLOT, QUENTIN, FR  
[72] MENAND, DENIS, FR  
[72] BERT, JEAN-CLAUDE, FR  
[71] ALSTOM TRANSPORT TECHNOLOGIES, FR  
[22] 2020-02-11  
[41] 2020-08-15  
[30] FR (19 01 551) 2019-02-15

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[21] **3,072,250**  
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C09D 7/43 (2018.01)**  
[25] EN  
[54] **ALKYLENE OXIDE POLYMER ENDCAPPED WITH AN ARYL ETHER ALKOXYLATE BLOCK COPOLYMER**  
[54] **POLYMERES D'OXYDE D'ALKYLENE COIFFES PAR DES COPOLYMERES BLOCS D'ALCOXYLATE D'ETHER**  
[72] RABASCO, JOHN J., US  
[72] SAUCY, DANIEL A., US  
[72] VAN DYK, ANTONY K., US  
[71] ROHM AND HAAS COMPANY, US  
[22] 2020-02-13  
[41] 2020-08-15  
[30] US (62/806280) 2019-02-15

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[21] **3,072,254**  
[13] A1

[51] **Int.Cl. B65D 85/60 (2006.01) B65D 83/00 (2006.01) B65D 85/34 (2006.01)**  
[25] EN  
[54] **EDIBLE OR COMESTIBLE PRODUCT DISPENSER**  
[54] **DISTRIBUTEUR DE PRODUITS CONSOMMABLES OU COMESTIBLES**  
[72] BACON, EMMA, US  
[72] TRANI, ANTHONY, US  
[72] MANGOLD, CYNTHIA, US  
[72] REINBOLD, JASON, US  
[72] MCCAY, JAMES E., US  
[72] CLAY, JOHN KEVIN, US  
[72] NELSON, JOHN T., US  
[72] LUSTIK, CARA, US  
[72] WHETZEL, JENNIFER, US  
[72] FITER, IGNACIO CUGAT, US  
[72] HAIBIN, WANG, US  
[72] CURTIN, EDWARD R., US  
[72] LAGE, JOAN LLABARIA, US  
[71] THE TOPPS COMPANY, INC., US  
[22] 2020-02-12  
[41] 2020-08-12  
[30] US (62/804,571) 2019-02-12  
[30] US (16/586,141) 2019-09-27

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[21] **3,072,256**  
[13] A1

[51] **Int.Cl. B31B 50/26 (2017.01)**  
[25] EN  
[54] **LID FORMING DEVICE**  
[54] **DISPOSITIF POUR FORMER UN COUVERCLE**  
[72] NAKAMURA, YUICHI, JP  
[72] IWASA, TATSUYA, JP  
[72] TAKAHASHI, ATSUSHI, JP  
[72] TATSUKAWA, SATOSHI, JP  
[72] NISHITSUJI, SATOSHI, JP  
[72] ARIMATSU, TATSUYA, JP  
[72] ONO, KOJI, JP  
[71] ISHIDA CO., LTD., JP  
[22] 2020-02-12  
[41] 2020-08-13  
[30] JP (2019-023644) 2019-02-13  
[30] JP (2019-200477) 2019-11-05

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[21] **3,072,385**  
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01) G06Q 10/06 (2012.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ASSESSING SKILL AND TRAIT LEVELS**  
[54] **SYSTEMES ET PROCEDES POUR EVALUER LES NIVEAUX DE COMPETENCES ET D'ATTRIBUTS**  
[72] KNUPFER, JAMES FRANCIS, CA  
[71] MISELLF INC., CA  
[22] 2020-02-13  
[41] 2020-08-13  
[30] US (16/274,980) 2019-02-13  
[30] US (16/597,619) 2019-10-09

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[21] **3,072,396**  
[13] A1

[51] **Int.Cl. G01S 13/93 (2020.01) G01S 13/933 (2020.01) G01S 7/292 (2006.01) G01S 13/76 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR TRACKING NON-COOPERATIVE OBJECTS USING SECONDARY SURVEILLANCE RADAR**  
[54] **PROCEDE ET SYSTEME POUR SURVEILLER LES OBJETS NON COOPERATIFS A L'AIDE D'UN RADAR SECONDAIRE DE SURVEILLANCE**  
[72] LI, YAKE, CA  
[71] SEAMATICA AEROSPACE LTD., CA  
[22] 2020-02-13  
[41] 2020-08-14  
[30] US (62/885,923) 2019-08-13  
[30] US (16/276,053) 2019-02-14

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[21] **3,072,414**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/04 (2012.01) G06F 9/06 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DYNAMIC TIME-BASED USER INTERFACE**  
[54] **SYSTEME ET PROCEDE POUR UNE INTERFACE UTILISATEUR TEMPORELLE DYNAMIQUE**  
[72] ORTIZ, EDISON U., CA  
[72] MARTIN SACRISTAN, JUAN, CA  
[72] VINTILA, IUSTINA-MIRUNA, CA  
[72] MILTON, ARUN JOHN, CA  
[72] NABULSI, ADEL AL, CA  
[71] ROYAL BANK OF CANADA, CA  
[22] 2020-02-13  
[41] 2020-08-13  
[30] US (62/804,820) 2019-02-13

[21] **3,072,433**  
[13] A1

[51] **Int.Cl. F24F 1/037 (2019.01) F24F 1/029 (2019.01) F24F 6/04 (2006.01)**  
[25] EN  
[54] **EVAPORATIVE HUMIDIFIER**  
[54] **HUMIDIFICATEUR PAR EVAPORATION**  
[72] BAILLIE, BRENT MARC, CA  
[72] RAMDASS, RISHI, CA  
[72] FUNG, WONG YUE, CN  
[72] KOYA, ABDUL HALEEM AHAMED, CA  
[71] CANADIAN TIRE CORPORATION, LIMITED, CA  
[22] 2020-02-13  
[41] 2020-08-14  
[30] US (62/805,414) 2019-02-14

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[54] **COUVERCLE INVIOLENT AMELIORE**  
[72] LIMING, MICHAEL, US  
[72] CURLISS, DAN, US  
[71] HUHTAMAKI, INC., US  
[22] 2020-02-13  
[41] 2020-08-13  
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[54] **STYLE SHEET AUTOMATION**  
[54] **AUTOMATISATION DE LA FEUILLE DE STYLE**  
[72] KARGIANNAKIS, MELISSA, CA  
[72] REDFERN, DARREN, CA  
[71] SKRITSWAP INC., CA  
[22] 2020-02-13  
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[51] **Int.Cl. H04W 24/02 (2009.01) H04W 16/28 (2009.01) H04W 24/04 (2009.01) H04W 72/04 (2009.01) H04B 7/0456 (2017.01) H04B 7/04 (2017.01)**  
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[54] **TRANSMISSION/RECEPTION MANAGEMENT IN WIRELESS COMMUNICATION**  
[54] **GESTION DE LA TRANSMISSION/RECEPTION DANS UNE COMMUNICATION SANS FIL**  
[72] CIRIK, ALI, US  
[72] DINAN, ESMAEL, US  
[72] ZHOU, HUA, US  
[72] JEON, HYOUNGSUK, US  
[72] BABAEI, ALIREZA, US  
[72] PARK KYUNGMIN, US  
[72] XU, KAI, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2020-02-13  
[41] 2020-08-14  
[30] US (62/805,543) 2019-02-14

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[13] A1

[51] **Int.Cl. B62D 55/104 (2006.01) B62D 55/07 (2006.01) B62D 55/08 (2006.01)**  
[25] EN  
[54] **REAR SUSPENSION SYSTEM FOR A SNOWMOBILE**  
[54] **SYSTEME DE SUSPENSION ARRIERE POUR MOTONEIGE**  
[72] LANGAAS, BENJAMIN TAYLOR, US  
[72] DICK, BRIAN W., US  
[71] ARCTIC CAT INC., US  
[22] 2020-02-13  
[41] 2020-08-13  
[30] US (62/805,062) 2019-02-13

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[13] A1

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[54] **SURFACE CONTAINMENT SYSTEM**  
[54] **SYSTEME DE CONFINEMENT A LA SURFACE**  
[72] ACKLES, GARY, CA  
[71] ACKLES, GARY, CA  
[22] 2020-02-13  
[41] 2020-08-13  
[30] US (62/805,201) 2019-02-13  
[30] US (16/789,267) 2020-02-12

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[13] A1

[51] **Int.Cl. B62D 55/104 (2006.01) B62M 27/02 (2006.01)**  
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[54] **SYSTEME DE SUSPENSION ARRIERE POUR MOTONEIGE**  
[72] LANGAAS, BENJAMIN TAYLOR, US  
[72] DICK, BRIAN W., US  
[71] ARCTIC CAT INC., US  
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[41] 2020-08-13  
[30] US (62/805,062) 2019-02-13

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[54] **GRINDER FOR PROCESSING PLANT MATERIAL**  
[54] **BROYEUR POUR MATERIAU D'USINE DE TRANSFORMATION**  
[72] WYPORSKI, WOJTEK, CA  
[71] CANOPY GROWTH CORPORATION, CA  
[22] 2020-02-13  
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[54] **EDGE WEATHER ABATEMENT USING HYPERLOCAL WEATHER AND TRAIN ACTIVITY INPUTS**  
[54] **DEDUCTION DE LA METEO UTILISANT DES ENTREES D'ACTIVITES HYPERLOCALES METEOROLOGIQUES ET DE TRAINS**  
[72] PLONK, DANIEL W., US  
[72] VAWTER, MIKE, US  
[72] TEMPLE, GREG, US  
[71] NORFOLK SOUTHERN CORPORATION, US  
[22] 2020-02-14  
[41] 2020-08-14  
[30] US (62/805,437) 2019-02-14

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[25] EN  
[54] **SYSTEMS AND METHODS FOR SECURE STORAGE AND RETRIEVAL OF TRADE DATA**  
[54] **SYSTEMES ET PROCEDES POUR SECURISER LE STOCKAGE ET L'EXTRACTION DE DONNEES COMMERCIALES**  
[72] DING, JIAN, CA  
[71] BANK OF MONTREAL, CA  
[22] 2020-02-14  
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[54] **ELECTRIC DRIVEN HYDRAULIC FRACKING SYSTEM**  
[54] **SYSTEME DE FRACTURATION HYDRAULIQUE A COMMANDE ELECTRIQUE**  
[72] FISCHER, JOHN, US  
[72] CORSETTO, JOHN J., US  
[72] KUBRICH, DAVID, US  
[72] CHEATHAM, RICHARD, US  
[72] POLLACK, JEFFREY, US  
[72] LAWMAN, CHAD, US  
[72] TODD, DAVID, US  
[72] NOLEN, TYLER, US  
[71] NATIONAL SERVICE ALLIANCE - HOUSTON LLC, US  
[22] 2020-02-14  
[41] 2020-08-14  
[30] US (62/805,521) 2019-02-14  
[30] US (16/790,392) 2020-02-13

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[54] **DEFROST/HEATING SOLUTION FOR GLAZED POLYCARBONATE**  
[54] **SOLUTION DE DEGIVRAGE/CHAUFFAGE POUR POLYCARBONATE VERNI**  
[72] THANOU, PINELOPI, US  
[71] MAGNA EXTERIORS INC., CA  
[22] 2020-02-13  
[41] 2020-08-15  
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[25] EN  
[54] **SYSTEM FOR MONITORING A FALL ARREST DEVICE**  
[54] **SYSTEME POUR SURVEILLER UN DISPOSITIF D'ARRET DE CHUTE**  
[72] LUPI, GIUSEPPE, IT  
[72] DUCI, STEFANO, IT  
[72] MAZZOLENI, ANDREA, IT  
[71] FIN GROUP S.R.L., IT  
[22] 2020-02-13  
[41] 2020-08-15  
[30] IT (10 2019 000002217) 2019-02-15

[21] **3,072,699**  
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[25] EN  
[54] **SYSTEMS AND METHODS FOR A VIRTUAL REFUSE VEHICLE**  
[54] **SYSTEMES ET PROCEDES POUR UN VEHICULE A ORDURES VIRTUEL**  
[72] KOGA, JEFFREY, US  
[72] CLIFTON, CODY D., US  
[72] WEI, ZHENYI, US  
[72] WILDGRUBE, GRANT, US  
[71] OSHKOSH CORPORATION, US  
[22] 2020-02-14  
[41] 2020-08-14  
[30] US (62/805,763) 2019-02-14  
[30] US (16/789,962) 2020-02-13

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[25] EN  
[54] **CARRIAGE ROLLER FOR REFUSE VEHICLE**  
[54] **ROULEAU DE CHARIOT POUR VEHICULE A ORDURES**  
[72] NELSON, JOSEPH D., US  
[72] KUPHAL, JOHN, US  
[71] OSHKOSH CORPORATION, US  
[22] 2020-02-14  
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[25] EN  
[54] **INTEGRATED OPERATOR CENTRIC CONTROLS**  
[54] **COMMANDES CENTREES DE L'OPERATEUR INTEGRES**  
[72] WILDGRUBE, GRANT, US  
[72] ROCHOLL, JOSHUA D., US  
[72] CLIFTON, CODY D., US  
[72] KELLANDER, JOHN T., US  
[71] OSHKOSH CORPORATION, US  
[22] 2020-02-14  
[41] 2020-08-14  
[30] US (62/805,797) 2019-02-14  
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[51] **Int.Cl. A47B 47/00 (2006.01) A47B 57/40 (2006.01) A47B 61/00 (2006.01) A47B 96/06 (2006.01) A47B 96/14 (2006.01)**  
[25] EN  
[54] **STORAGE SYSTEM AND HARDWARE**  
[54] **SYSTEME DE STOCKAGE ET MATERIEL**  
[72] BISHOP, RYAN BARCLAY, US  
[72] KUDJA, COLBY DOUGLAS, US  
[71] CLAIRSON, INC., US  
[22] 2020-02-14  
[41] 2020-08-15  
[30] US (62/806,209) 2019-02-15  
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[51] **Int.Cl. E03C 1/18 (2006.01) B21D 53/00 (2006.01) B23P 15/00 (2006.01)**  
[25] EN  
[54] **SINKS AND METHODS OF MAKING THE SAME**  
[54] **EVIER ET SES PROCEDES DE FABRICATION**  
[72] LEVI, RUSSELL, US  
[71] ICG LICENSING LLC, US  
[22] 2020-02-14  
[41] 2020-08-15  
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[25] EN  
[54] **SHELVING ASSEMBLY AND HARDWARE**  
[54] **ENSEMBLE D'ETAGERE ET MATERIEL**  
[72] BISHOP, RYAN BARCLAY, US  
[72] RICHARD, MAXIME, US  
[71] CLAIRSON, INC., US  
[22] 2020-02-14  
[41] 2020-08-15  
[30] US (62/806,360) 2019-02-15  
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[25] EN  
[54] **MULTIPLE POSITION DRILLING STABILIZER**  
[54] **STABILISATEUR DE PERCAGE A POSITIONS MULTIPLES**  
[72] CROWTHER, MIKE, CA  
[72] COMEAU, LAURIER E., CA  
[72] MARTINEZ, KAIDEL, CA  
[72] RUSSELL, JAYSON, CA  
[71] ARRIVAL OIL TOOLS, INC., CA  
[22] 2020-02-24  
[41] 2020-08-14  
[30] US (16/276,046) 2019-02-14

[21] **3,080,997**  
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[51] **Int.Cl. E06B 1/52 (2006.01)**  
[25] EN  
[54] **A DOOR FRAME AND A DOOR FRAME COMPONENT THEREOF**  
[54] **ENCADREMENT DE PORTE ET SA COMPOSANTE**  
[72] WANG, KUEI-YUNG, CN  
[71] NAN YA PLASTICS CORPORATION, CN  
[22] 2020-05-15  
[41] 2020-08-14

[21] **3,081,043**  
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/906 (2019.01)**  
[25] EN  
[54] **METHOD OF AND SYSTEM FOR TRAINING MACHINE LEARNING ALGORITHM FOR OBJECT CLASSIFICATION**  
[54] **PROCEDE ET SYSTEME POUR FORMER L'ALGORITHME D'APPRENTISSAGE AUTOMATIQUE POUR LA CLASSIFICATION D'OBJETS**  
[72] ZHANG, XIANG, CA  
[72] DROUIN, ALEXANDRE, CA  
[71] ELEMENT AI INC., CA  
[22] 2020-05-21  
[41] 2020-08-13

[21] **3,081,050**  
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[51] **Int.Cl. G01N 21/03 (2006.01) G01N 1/00 (2006.01) G01N 21/11 (2006.01) G01N 27/416 (2006.01)**  
[25] EN  
[54] **POINT-OF-CARE TESTING CARTRIDGE WITH SLIDING CAP**  
[54] **CARTOUCHE D'ESSAI DE POINT D'INTERVENTION AVEC BOUCHON COULISSANT**  
[72] SAMSOONDAR, JAMES, CA  
[71] INVIDX CORP., CA  
[22] 2020-05-19  
[41] 2020-08-11  
[30] US (16/854,201) 2020-04-21  
[30] CA (3,066,133) 2019-12-23  
[30] US (16/575,645) 2019-09-19

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[13] A1

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[25] EN  
[54] **CANNULATED ORTHOPEDIC SCREW AND METHOD OF REDUCING A FRACTURE OF THE LATERAL MALLEOLUS**  
[54] **VIS ORTHOPEDIQUE PERFOREE ET METHODE DE REDUCTION D'UNE FRACTURE DE LA MALLEOLE EXTERNE**  
[72] WATTS, HUGH BOYD, US  
[71] RETROFIX SCREWS, LLC, US  
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[25] EN

[54] **METHOD FOR LIMITING VOLTAGE OF MODULE, AND APPARATUS AND SYSTEM FOR APPLYING THE SAME**

[54] **PROCEDE DE LIMITATION DE LA TENSION DU MODULE, ET APPAREIL ET SYSTEME PERMETTANT DE L'APPLIQUER**

[72] CAO, RENXIAN, CN  
[72] YANG, ZONGJUN, CN  
[71] SUNGROW POWER SUPPLY CO., LTD., CN

[85] 2020-03-10  
[86] 2019-05-13 (PCT/CN2019/086555)  
[87] (3075055)  
[30] CN (201910114213.X) 2019-02-14

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[13] A1

[51] **Int.Cl. H02S 40/30 (2014.01) H02S 40/34 (2014.01)**

[25] EN

[54] **CIRCUIT FOR COMPONENT VOLTAGE LIMITATION, AND APPARATUS FOR APPLYING THE SAME**

[54] **CIRCUIT POUR LA LIMITATION DE LA TENSION DES COMPOSANTS, ET APPAREIL POUR L'APPLIQUER**

[72] CAO, RENXIAN, CN  
[72] YANG, ZONGJUN, CN  
[71] SUNGROW POWER SUPPLY CO., LTD., CN

[85] 2020-03-10  
[86] 2019-05-13 (PCT/CN2019/086553)  
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[51] **Int.Cl. G01N 21/67 (2006.01)**

[25] EN

[54] **REDUCTION OF MOLECULAR BACKGROUND EMISSION AND SAMPLE MATRIX MANAGEMENT IN A SOLUTION CATHODE GLOW DISCHARGE**

[54] **REDUCTION DE L'EMISSION D'ARRIERE-PLAN MOLECULAIRE ET GESTION DE MATRICE D'ECHANTILLON DANS UNE DECHARGE LUMINESCENTE A CATHODE EN SOLUTION**

[72] SCHROEDER, STUART GARTH, CA  
[72] HAGMAN, WADE JOSEPH, CA  
[71] INNOTECH ALBERTA INC., CA

[85] 2020-03-25  
[86] 2018-10-03 (PCT/CA2018/051249)  
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[13] A1

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[25] EN

[54] **MODULATORS OF POTASSIUM ION AND TRPV1 CHANNELS AND USES THEREOF**

[54] **MODULATEURS DE CANAUX TRPV1 ET IONIQUES POTASSIQUES ET LEURS UTILISATIONS**

[72] PERETZ, ASHER, IL  
[72] ATTALI, BERNARD, IL  
[71] RAMOT AT TEL-AVIV UNIVERSITY LTD., IL

[85] 2020-03-31  
[86] 2018-10-09 (PCT/IL2018/051094)  
[87] (WO2019/073471)  
[30] US (62/569,631) 2017-10-09

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[21] **3,080,012**  
[13] A1

[51] **Int.Cl. C07D 413/12 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF RALTEGRAVIR**

[54] **PROCEDE DE PREPARATION DE RALTEGRAVIR**

[72] CAPUTO, FRANCESCO, IT  
[72] VIGO, DANIELE, IT  
[72] PICCOLO, ORESTE, IT  
[71] CAMBREX PROFARMACO MILANO S.R.L., IT

[85] 2020-04-22  
[86] 2018-11-13 (PCT/EP2018/081042)  
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[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/08 (2006.01)**

[25] EN

[54] **FLOW CONTROL DEVICE FOR PRODUCTION TUBING**

[54] **DISPOSITIF DE COMMANDE D'ECOULEMENT POUR UNE COLONNE DE PRODUCTION**

[72] FERMANIUK, BRENT D., CA  
[72] ZHU, DA, CA  
[72] CLAERHOUT, MIKE, CA  
[71] RGL RESERVOIR MANAGEMENT INC., CA

[85] 2020-05-08  
[86] 2018-11-08 (PCT/CA2018/051411)  
[87] (WO2019/090425)  
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[25] EN

[54] **RADIATION TREATMENT PLANNING WITH MULTIPLE TARGET SUBSET OPTIMIZATION**

[54] **PLANIFICATION DE RADIOTHERAPIE ASSORTIE D'UNE OPTIMISATION DE MULTIPLES SOUS-ENSEMBLES CIBLES**

[72] MACDONALD, ROBERT LEE, CA  
[72] SYME, ALASDAIR, CA  
[72] THOMAS, CHRISTOPHER G., CA  
[71] DALHOUSIE UNIVERSITY, CA  
[85] 2020-05-08  
[86] 2018-11-08 (PCT/CA2018/051418)  
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[13] A1

[51] **Int.Cl. B32B 27/20 (2006.01) B32B 37/00 (2006.01) E04F 15/00 (2006.01)**

[25] EN

[54] **MULTI-LAMINATE PLASTIC CARRIER PLATE AND METHOD FOR THE PRODUCTION THEREOF**

[54] **PLAQUE DE SUPPORT PLASTIQUE MULTISTRATIFIEE ET SON PROCEDE DE FABRICATION**

[72] HANNIG, HANS-JURGEN, DE  
[72] HULLENKREMER, FELIX, DE  
[71] AKZENTA PANELEE + PROFILE GMBH, DE  
[85] 2020-06-03  
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[30] DE (10 2018 119 766.7) 2018-08-14

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[54] **A COATED STEEL SUBSTRATE**

[54] **SUBSTRAT EN ACIER REVETU**

[72] LALIENA IRANZO, CARLOS, ES  
[72] PEREZ RODRIGUEZ, MARCOS, ES  
[71] ARCELORMITTAL, LU  
[85] 2020-06-08  
[86] 2018-12-11 (PCT/IB2018/059869)  
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[13] A1

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[25] EN

[54] **A MULTIPURPOSE POTENTIATOR COMPOSITION AND THE METHODS THEREOF**

[54] **COMPOSITION D'UN POTENTIALISATEUR MULTIFONCTIONNEL ET SES PROCEDES DE FABRICATION**

[72] T., UMAKANTHAN, IN  
[72] U, UMADEVI, IN  
[71] T., UMAKANTHAN, IN  
[85] 2020-06-08  
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[51] **Int.Cl. B01J 19/12 (2006.01) A01N 1/02 (2006.01) A61K 31/37 (2006.01) A61K 41/00 (2020.01) A61L 2/00 (2006.01) A61L 2/10 (2006.01) H01L 25/075 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TREATING BIOLOGICAL FLUIDS**

[54] **SYSTEMES ET PROCEDES POUR TRAITER DE FLUIDES BIOLOGIQUES**

[72] CHURCH, DANIEL, US  
[72] BRINGMANN, PETER, US  
[72] CASTRO, GRACE, US  
[72] LU, THEA, US  
[72] REINHARDT, SHELBY, US  
[72] SANTA MARIA, FELICIA, US  
[72] STASSINOPOULOS, ADONIS, US  
[71] CERUS CORPORATION, US  
[85] 2020-06-26  
[86] 2018-12-28 (PCT/US2018/068048)  
[87] (WO2019/133929)  
[30] US (62/612,314) 2017-12-29

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[21] **3,087,964**  
[13] A1

[51] **Int.Cl. G06K 9/36 (2006.01) G06K 9/80 (2006.01) G06N 3/02 (2006.01)**

[25] EN

[54] **SUPERVISED MACHINE LEARNING ALGORITHM APPLICATION FOR IMAGE CROPPING AND SKEW RECTIFICATION**

[54]

[72] TORRES, TERRENCE J., US  
[71] INTUIT INC., US  
[85] 2020-07-24  
[86] 2019-07-26 (PCT/US2019/043779)  
[87] (3087964)  
[30] US (16/265,524) 2019-02-01

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[21] **3,088,138**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**  
[25] EN  
[54] **IMAGING AND  
RADIOTHERAPEUTICS AGENTS  
TARGETING FIBROBLAST-  
ACTIVATION PROTEIN-ALPHA  
(FAP-ALPHA)**  
[54] **AGENTS D'IMAGERIE ET DE  
RADIOTHERAPIE CIBLANT LA  
PROTEINE-A D'ACTIVATION DES  
FIBROBLASTES (FAP-A)**  
[72] YANG, XING, US  
[72] NIMMAGADDA, SRIDHAR, US  
[72] ROWE, STEVEN, US  
[72] SLANIA, STEPHANIE, US  
[72] POMPER, MARTIN G., US  
[71] THE JOHNS HOPKINS  
UNIVERSITY, US  
[85] 2020-04-14  
[86] 2018-10-23 (PCT/US2018/057086)  
[87] (WO2019/083990)  
[30] US (62/575,607) 2017-10-23

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[21] **3,088,194**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P  
31/16 (2006.01)**  
[25] EN  
[54] **HUMAN ANTIBODIES TO  
INFLUENZA HEMAGGLUTININ**  
[54] **ANTICORPS HUMAINS CONTRE  
L'HEMAGGLUTININE DE LA  
GRIPPE**  
[72] PURCELL, LISA A., US  
[72] VIAU, JONATHAN, US  
[72] OLSON, WILLIAM, US  
[71] REGENERON PHARMACEUTICALS,  
INC., US  
[85] 2020-07-09  
[86] 2019-01-24 (PCT/US2019/015029)  
[87] (WO2019/147867)  
[30] US (62/622,480) 2018-01-26

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[21] **3,088,395**  
[13] A1

[51] **Int.Cl. A61B 5/1455 (2006.01) A61B  
5/145 (2006.01)**  
[25] EN  
[54] **NON-INVASIVE BLOOD SUGAR  
LEVEL MONITORING  
APPARATUS INTEGRATED WITH  
REAL-TIME HEALTH SUPPORT  
SYSTEM**  
[54] **APPAREIL DE SURVEILLANCE  
DE NIVEAU DE GLYCEMIE NON  
INVASIF INTEGRE A UN  
SYSTEME D'ASSISTANCE DE  
SANTE EN TEMPS REEL**  
[72] GOPALAKRISHNAN,  
MURALIDHARAN, IN  
[71] GOPALAKRISHNAN,  
MURALIDHARAN, IN  
[85] 2020-07-13  
[86] 2019-01-13 (PCT/IB2019/050253)  
[87] (WO2019/138382)  
[30] US (62/617,273) 2018-01-14

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[21] **3,088,420**  
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01) A61M  
3/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS, KITS AND METHODS  
FOR LOADING AND DELIVERING  
A SMALL VOLUME DOSE FROM  
A SYRINGE**  
[54] **SYSTEMES, KITS ET PROCEDES  
POUR CHARGER ET DISTRIBUER  
UNE DOSE DE PETIT VOLUME A  
PARTIR D'UNE SERINGUE**  
[72] GERLETT, CATHY ANN, US  
[71] ICON BIOSCIENCE, INC., US  
[85] 2020-07-13  
[86] 2019-02-07 (PCT/US2019/017081)  
[87] (WO2019/157198)  
[30] US (62/628,446) 2018-02-09

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[21] **3,088,421**  
[13] A1

[51] **Int.Cl. E06B 3/673 (2006.01)**  
[25] EN  
[54] **GLASS HEATING MECHANISMS  
AND METHODS OF MAKING  
INSULATING GLASS UNITS  
USING THE SAME**  
[54] **MECANISMES DE CHAUFFAGE  
DE VERRE ET PROCEDES DE  
FABRICATION DE VITRAGES  
ISOLANTS LES UTILISANT**  
[72] STEIN, ERIC, US  
[72] BERGERS, MATTHEW, US  
[71] APOGEE ENTERPRISES, INC., US  
[85] 2020-07-13  
[86] 2019-02-21 (PCT/US2019/019002)  
[87] (WO2019/165104)  
[30] US (62/634,570) 2018-02-23

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[21] **3,088,423**  
[13] A1

[51] **Int.Cl. G06F 16/903 (2019.01) H04W  
4/00 (2018.01) H04W 4/029 (2018.01)**  
[25] EN  
[54] **UNIFIED DEVICE ACCESS**  
[54] **ACCES A UN DISPOSITIF UNIFIE**  
[72] CHENEY, WILLIAM J., US  
[72] MEYER, DAVID M., US  
[71] PROCON ANALYTICS, LLC, US  
[85] 2020-07-13  
[86] 2019-03-27 (PCT/US2019/024274)  
[87] (WO2019/191226)  
[30] US (62/649,286) 2018-03-28

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[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A01N 43/86 (2006.01) A01N 43/88 (2006.01) C07D 213/22 (2006.01) C07D 213/40 (2006.01) C07D 407/04 (2006.01) C07D 407/12 (2006.01) C07D 409/04 (2006.01) C07D 409/12 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)**

[25] EN  
[54] **NEW PYRIDINE CARBOXAMIDES**  
[54] **NOUVEAUX PYRIDINE CARBOXAMIDES**

[72] SEET, MICHAEL, DE  
[72] WOLF, ANTJE, DE  
[72] MUELLER, BERND, DE  
[72] RIEDIGER, NADINE, DE  
[72] FEHR, MARCUS, DE  
[72] MENTZEL, TOBIAS, DE  
[72] GROTE, THOMAS, DE  
[72] RUDOLF, GEORG CHRISTOPH, DE  
[72] LOHMANN, JAN KLAAS, DE  
[72] WINTER, CHRISTIAN HARALD, DE  
[72] GRAMMENOS, WASSILIOS, DE  
[72] WIEBE, CHRISTINE, DE  
[72] TERTERYAN-SEISER, VIOLETA, DE  
[72] ESCRIBANO CUESTA, ANA, DE  
[71] BASF SE, DE  
[85] 2020-07-16  
[86] 2019-01-29 (PCT/EP2019/052031)  
[87] (WO2019/154663)  
[30] EP (18155526.9) 2018-02-07

[21] **3,088,725**  
[13] A1

[51] **Int.Cl. B23K 35/02 (2006.01) B23K 35/26 (2006.01) B23K 35/36 (2006.01)**

[25] EN  
[54] **METHOD FOR CURING SOLDER PASTE ON A THERMALLY FRAGILE SUBSTRATE**  
[54] **PROCEDE DE DURCISSEMENT DE PATE A SOUDER SUR UN SUBSTRAT THERMIQUEMENT FRAGILE**

[72] HENDRIKS, ROB JACOB, NL  
[71] NCC NANO, LLC, US  
[71] HENDRIKS, ROB JACOB, NL  
[85] 2020-07-16  
[86] 2018-01-19 (PCT/US2018/014501)  
[87] (WO2019/143358)

[21] **3,088,829**  
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/06 (2006.01)**

[25] EN  
[54] **PROGRESSIVE SPECTACLE LENS WITH A VARIABLE REFRACTIVE INDEX, AND METHOD FOR DESIGNING AND PRODUCING SAME**  
[54] **VERRE DE LUNETTES PROGRESSIF A INDICE DE REFRACTION VARIABLE ET SON PROCEDE DE CONCEPTION ET DE FABRICATION**

[72] KELCH, GERHARD, DE  
[72] MENKE, CHRISTOPH, DE  
[72] WIETSCHORKE, HELMUT, DE  
[71] CARL ZEISS VISION INTERNATIONAL GMBH, DE  
[85] 2020-07-17  
[86] 2018-07-20 (PCT/EP2018/069806)  
[87] (WO2019/141386)  
[30] EP (PCT/EP2018/000026) 2018-01-19

[21] **3,088,872**  
[13] A1

[51] **Int.Cl. A61K 31/343 (2006.01) A61K 9/20 (2006.01) A61K 31/443 (2006.01) A61P 25/02 (2006.01) A61P 25/30 (2006.01)**

[25] EN  
[54] **ORAL CANNABINOID RECEPTOR MODULATOR FORMULATIONS**  
[54] **FORMULATIONS ORALES DE MODULATEUR DE RECEPTEUR CANNABINOIDE**

[72] FOSS, JOSEPH, US  
[72] ATTALA, MOHAMED NAGUIB, US  
[71] THE CLEVELAND CLINIC FOUNDATION, US  
[85] 2020-07-03  
[86] 2019-01-07 (PCT/US2019/012459)  
[87] (WO2019/136331)  
[30] US (15/862,721) 2018-01-05

[21] **3,088,950**  
[13] A1

[51] **Int.Cl. H03K 19/195 (2006.01) G06N 10/00 (2019.01)**

[25] EN  
[54] **JOSEPHSON POLARITY AND LOGICAL INVERTER GATES**  
[54] **PORTES D'INVERSEUR DE POLARITE ET LOGIQUE JOSEPHSON**

[72] HERR, QUENTIN P., US  
[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US  
[85] 2020-07-02  
[86] 2019-01-23 (PCT/US2019/014803)  
[87] (WO2019/152243)  
[30] US (15/887,524) 2018-02-02

[21] **3,088,990**  
[13] A1

[51] **Int.Cl. G01N 25/18 (2006.01) G01F 1/688 (2006.01) G01N 33/497 (2006.01)**

[25] EN  
[54] **EVALUATION ARRANGEMENT FOR A THERMAL GAS SENSOR, METHODS AND COMPUTER PROGRAM PRODUCT**  
[54] **SYSTEME D'EVALUATION POUR UN CAPTEUR DE GAZ THERMIQUE, PROCEDE ET PROGRAMMES INFORMATIQUES**

[72] HEDRICH, FRANK, DE  
[72] EHRBRECHT, BERND, DE  
[72] KATTINGER, GERHARD, DE  
[72] KLICHE, KURT, DE  
[71] HAHN-SCHICKARD-GESELLSCHAFT FUER ANGEWANDTE FORSCHUNG E.V., DE  
[71] GS ELEKTROMEDIZINISCHE GERAETE G. STEMPLE GMBH, DE  
[85] 2020-07-03  
[86] 2019-01-07 (PCT/EP2019/050261)  
[87] (WO2019/135002)  
[30] EP (18150496.0) 2018-01-05

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[21] **3,089,016**  
[13] A1

[51] **Int.Cl. C25C 1/00 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR SUPERIMPOSING AC ON DC IN ELECTROLYTIC PROCESSES**  
[54] **SYSTEME POUR SUPERPOSER DU COURANT ALTERNATIF SUR DU COURANT CONTINU DANS DES PROCEDES ELECTROLYTIQUES**  
[72] BUSTOS ROBLEDO, JUAN PABLO, CL  
[71] THOR SPA, CL  
[85] 2020-07-13  
[86] 2019-01-15 (PCT/CL2019/050006)  
[87] (WO2019/136570)

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[21] **3,089,042**  
[13] A1

[51] **Int.Cl. B23Q 5/027 (2006.01) B23Q 5/04 (2006.01) B23Q 5/10 (2006.01) B23Q 5/28 (2006.01) B23Q 5/32 (2006.01) B23Q 5/40 (2006.01) B23Q 15/007 (2006.01) B23Q 15/013 (2006.01) B23Q 15/12 (2006.01) B23Q 15/16 (2006.01) B23Q 15/24 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR MACHINING A WORKPIECE**  
[54] **PROCEDE ET APPAREIL D'USINAGE D'UNE PIECE**  
[72] KELLER, RANDY, US  
[72] MYLES, J. SCOTT, US  
[72] MYLES, COLIN KELLY, US  
[71] QUANTUM IMPACT, LLC, US  
[85] 2020-07-17  
[86] 2019-01-22 (PCT/US2019/014459)  
[87] (WO2019/147536)  
[30] US (62/620,856) 2018-01-23

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[21] **3,089,051**  
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 35/17 (2015.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **METHODS OF USE FOR CAR T CELLS**  
[54] **PROCEDES D'UTILISATION POUR DES LYMPHOCYTES T CAR**  
[72] LOW, PHILIP STEWART, US  
[72] CHU, HAIYAN, US  
[72] LU, YINGJUAN JUNE, US  
[72] LEAMON, CHRISTOPHER PAUL, US  
[72] WHEELER, LEROY W. II, US  
[72] JENSEN, MICHAEL C., US  
[72] MATTHAEI, JAMES, US  
[71] ENDOCYTE, INC., US  
[71] PURDUE RESEARCH FOUNDATION, US  
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US

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[85] 2020-07-17  
[86] 2019-01-22 (PCT/US2019/014472)  
[87] (WO2019/144091)  
[30] US (62/620,414) 2018-01-22  
[30] US (62/620,706) 2018-01-23  
[30] US (62/656,233) 2018-04-11  
[30] US (62/724,171) 2018-08-29  
[30] US (62/735,627) 2018-09-24  
[30] US (62/736,727) 2018-09-26

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[21] **3,089,073**  
[13] A1

[51] **Int.Cl. A61J 7/04 (2006.01) G16H 20/13 (2018.01) A61J 7/00 (2006.01)**  
[25] EN  
[54] **TAMPER-PROOF PILL DISPENSING SYSTEM AND METHODS OF USE**  
[54] **SYSTEME INVOLABLE DE DISTRIBUTION DE PILULES ET SES PROCEDES D'UTILISATION**  
[72] HSU, JOHN, US  
[71] HSU, JOHN, US  
[85] 2020-07-17  
[86] 2019-01-24 (PCT/US2019/015010)  
[87] (WO2019/147855)  
[30] US (15/882,803) 2018-01-29  
[30] US (16/144,685) 2018-09-27

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[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61K 31/56 (2006.01) A61P 21/00 (2006.01) C07K 14/47 (2006.01) C12N 7/01 (2006.01) C12N 15/12 (2006.01) C12N 15/864 (2006.01)**  
[25] EN  
[54] **GENE THERAPY FOR LIMB-GIRDLE MUSCULAR DYSTROPHY TYPE 2C**  
[54] **THERAPIE GENIQUE CONTRE LA MYOPATHIE DES CEINTURES DE TYPE 2C**  
[72] RODINO-KLAPAC, LOUISE R., US  
[71] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US  
[85] 2020-07-17  
[86] 2019-01-30 (PCT/US2019/015779)  
[87] (WO2019/152474)  
[30] US (62/624,616) 2018-01-31

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[21] **3,089,084**  
[13] A1

[51] **Int.Cl. B63B 21/04 (2006.01) B63B 21/20 (2006.01) F16G 11/14 (2006.01)**  
[25] EN  
[54] **MOORING CONNECTOR FOR CONNECTING SYNTHETIC FIBRE ROPES**  
[54] **RACCORD D'AMARRAGE PERMETTANT DE RELIER DES CORDES EN FIBRES SYNTHETIQUES**  
[72] BRIGGS, NIGEL, GB  
[72] BANFIELD, STEPHEN, GB  
[72] MCCORMACK, DAMIEN, GB  
[71] NYLACAST LTD, GB  
[85] 2020-07-20  
[86] 2019-01-24 (PCT/GB2019/050205)  
[87] (WO2019/145723)  
[30] GB (1801168.4) 2018-01-24

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[13] A1

[51] **Int.Cl. F03B 11/06 (2006.01) F16C 23/00 (2006.01) G01B 21/16 (2006.01)**

[25] EN  
[54] **VARIABLE GUIDE BEARING**  
[54] **PALIER-GUIDE VARIABLE**  
[72] ELAHI, SARMA, CA  
[72] WALE, SHAWN, CA  
[72] BYRNE, RYAN, CA  
[72] WODOSLAWSKY, ANDREW, CA  
[71] ANDRITZ HYDRO CANADA INC., CA  
[85] 2020-07-20  
[86] 2019-10-25 (PCT/IB2019/001158)  
[87] (WO2020/084350)  
[30] US (62/751,033) 2018-10-26  
[30] US (16/664,153) 2019-10-25

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[13] A1

[51] **Int.Cl. H04W 8/18 (2009.01) H04W 8/20 (2009.01)**

[25] EN  
[54] **HANDLING IDENTIFIER VALIDATION**  
[54] **GESTION DE VALIDATION D'IDENTIFIANT**  
[72] NAKARMI, PRAJWOL KUMAR, SE  
[72] SAARINEN, PASI, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2020-07-13  
[86] 2018-12-20 (PCT/EP2018/086416)  
[87] (WO2019/137793)  
[30] US (62/616,574) 2018-01-12

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[21] **3,089,103**  
[13] A1

[51] **Int.Cl. G06T 5/00 (2006.01) G06T 5/50 (2006.01)**

[25] EN  
[54] **ENHANCING IMAGE DATA WITH APPEARANCE CONTROLS**  
[54] **AMELIORATION DE DONNEES D'IMAGE PAR DES REGLAGES D'APPARENCE**  
[72] ZHANG, NING, CA  
[72] ZHOU, SAMUEL ZIHENG, CA  
[72] JUDKINS, PAUL, CA  
[71] IMAX CORPORATION, CA  
[85] 2020-07-20  
[86] 2019-01-18 (PCT/IB2019/050440)  
[87] (WO2019/145835)  
[30] US (62/620,711) 2018-01-23

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[21] **3,089,106**  
[13] A1

[51] **Int.Cl. A61F 7/10 (2006.01) A61C 1/00 (2006.01) A61C 19/06 (2006.01) A61C 19/08 (2006.01) A61F 7/12 (2006.01) A61F 7/00 (2006.01) A61F 7/02 (2006.01)**

[25] EN  
[54] **MOUTH PIECE FOR COOLING OF ORAL TISSUE**  
[54] **EMBOUT BUCCAL POUR LE REFROIDISSEMENT DE TISSU BUCCAL**  
[72] YOSKOWITZ, DAVID, US  
[71] YOSKOWITZ, DAVID, US  
[85] 2020-07-20  
[86] 2019-01-18 (PCT/US2019/014237)  
[87] (WO2019/143968)  
[30] US (15/875,395) 2018-01-19

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[21] **3,089,109**  
[13] A1

[51] **Int.Cl. H04W 36/24 (2009.01) H04W 36/30 (2009.01) H04W 40/18 (2009.01) H04B 7/185 (2006.01)**

[25] EN  
[54] **USER TERMINAL HANDOVER PREDICTION IN WIRELESS COMMUNICATIONS SYSTEMS WITH NONSTATIONARY COMMUNICATIONS PLATFORMS**  
[54] **PREDICTION DE TRANSFERT DE TERMINAL D'UTILISATEUR DANS DES SYSTEMES DE COMMUNICATIONS SANS FIL AVEC DES PLATES-FORMES DE COMMUNICATIONS NON STATIONNAIRES**  
[72] ARUR, DEEPAK, US  
[72] RAVISHANKAR, CHANNASANDRA, US  
[72] BENAMMAR, NASSIR, US  
[72] BARNETT, CHARLES, US  
[72] CORRIGAN, JOHN, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2020-07-20  
[86] 2019-01-21 (PCT/US2019/014421)  
[87] (WO2019/144078)  
[30] US (62/619,443) 2018-01-19

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[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) C12N 15/88 (2006.01)**

[25] EN  
[54] **COMPOSITIONS AND METHODS FOR DELIVERY OF AGENTS TO IMMUNE CELLS**  
[54] **COMPOSITIONS ET PROCEDES DESTINES A L'ADMINISTRATION D'AGENTS A DES CELLULES IMMUNITAIRES**  
[72] BESIN, GILLES, US  
[72] BRITO, LUIS, US  
[72] HOGE, STEPHEN G., US  
[72] HENNESSY, EDWARD, US  
[72] CORNEBISE, MARK, US  
[72] BENENATO, KERRY, US  
[72] SABNIS, STACI, US  
[72] DANNEMAN, MICHAEL W., US  
[71] MODERNATX, INC., US  
[85] 2020-07-02  
[86] 2019-01-30 (PCT/US2019/015913)  
[87] (WO2019/152557)  
[30] US (62/623,922) 2018-01-30  
[30] US (62/733,609) 2018-09-19  
[30] US (62/744,825) 2018-10-12

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[13] A1

[51] **Int.Cl. C01B 3/24 (2006.01) C10G 2/00 (2006.01) C25B 9/10 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR CARBON DIOXIDE REACTOR CONTROL**  
[54] **SYSTEME ET PROCEDE DE COMMANDE DE REACTEUR A DIOXYDE DE CARBONE**  
[72] KUHL, KENDRA, US  
[72] CAVE, ETOSHA, US  
[72] FLANDERS, NICHOLAS, US  
[72] MA, SICHAO, US  
[72] ZENG, QUN, US  
[72] LEONARD, GEORGE, US  
[71] OPUS-12 INCORPORATED, US  
[85] 2020-07-20  
[86] 2019-01-22 (PCT/US2019/014586)  
[87] (WO2019/144135)  
[30] US (62/619,996) 2018-01-22  
[30] US (62/620,109) 2018-01-22  
[30] US (62/685,771) 2018-06-15

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[21] **3,089,123**  
[13] A1

[51] **Int.Cl. A23N 4/20 (2006.01) A23N 4/14 (2006.01) A47J 17/16 (2006.01) B26D 3/11 (2006.01) B26D 7/26 (2006.01)**

[25] EN

[54] **APPLE PARER**

[54] **EPLUCHE-POMMES**

[72] COTTER, JENNIFER, US

[71] PROGRESSIVE INTERNATIONAL CORPORATION, US

[85] 2020-07-20

[86] 2019-01-24 (PCT/US2019/015000)

[87] (WO2019/152253)

[30] US (62/623,925) 2018-01-30

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[21] **3,089,124**  
[13] A1

[51] **Int.Cl. A61B 3/113 (2006.01) A61B 3/00 (2006.01) A61B 3/10 (2006.01) A61B 3/18 (2006.01)**

[25] EN

[54] **METHODS AND KITS FOR DETECTION OF BLAST BRAIN INJURY, ITS SEVERITY, DISTANCE FROM BLAST EPICENTER, AND CLASSIFICATION RELATIVE TO THE LARGER SPECTRUM OF CONCUSSION**

[54] **PROCEDES ET KITS PERMETTANT DE DETECTER UNE LESION CEREBRALE OCCASIONNEE PAR UNE EXPLOSION, LA GRAVITE DE CELLE-CI, SA DISTANCE D'AVEC L'EPICENTRE DE L'EXPLOSION ET SA CLASSIFICATION PAR RAPPORT AU PLUS GRAND SPECTRE DE COMMOTION**

[72] SAMADANI, UZMA, US

[72] BIN ZAHID, ABDULLAH, US

[71] HENNEPIN HEALTHCARE SYSTEM, INC., US

[85] 2020-07-20

[86] 2019-01-25 (PCT/US2019/015245)

[87] (WO2019/148003)

[30] US (62/622,481) 2018-01-26

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[21] **3,089,125**  
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 43/116 (2006.01) E21B 43/117 (2006.01) E21B 43/1185 (2006.01)**

[25] EN

[54] **CLUSTER GUN SYSTEM**

[54] **SYSTEME DE GRAPPE D'ARMES A FEU**

[72] SOKOLOVE, CHRISTOPHER BRIAN, US

[72] BRADLEY, RICHARD WAYNE, US

[72] DYESS, ADAM, US

[72] COLLINS, WILLIAM R., US

[72] WILSON, SHANE MATTHEW, US

[72] LANGFORD, DALE, US

[72] BRADLEY, RYAN, US

[72] MAI, JASON HOANG, US

[71] HUNTING TITAN, INC., US

[85] 2020-07-20

[86] 2019-01-25 (PCT/US2019/015255)

[87] (WO2019/148009)

[30] US (62/621,999) 2018-01-25

[30] US (62/627,591) 2018-02-07

[30] US (62/736,298) 2018-09-25

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[21] **3,089,126**  
[13] A1

[51] **Int.Cl. A61B 17/70 (2006.01) A61B 17/68 (2006.01) A61B 17/72 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR A PEDICLE SCREW ASSEMBLY WITH ANCHOR DEPLOYMENT**

[54] **SYSTEMES ET PROCEDES POUR UN ENSEMBLE VIS PEDICULAIRE A DEPLOIEMENT D'ANCRAGE**

[72] BOHL, MICHAEL A., US

[71] DIGNITY HEALTH, US

[85] 2020-07-20

[86] 2019-02-14 (PCT/US2019/018070)

[87] (WO2019/161100)

[30] US (62/630,300) 2018-02-14

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[21] **3,089,127**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01)**

[25] EN

[54] **ORGANOIDS RELATED TO IMMUNOTHERAPY AND METHODS OF PREPARING AND USING THE SAME**

[54] **ORGANOIDES ASSOCIES A UNE IMMUNOTHERAPIE ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION**

[72] SKARDAL, ALEKSANDER, US

[72] VOTANOPOULOS, KONSTANTINOS, US

[71] WAKE FOREST UNIVERSITY HEALTH SCIENCES, US

[85] 2020-07-20

[86] 2019-02-01 (PCT/US2019/016236)

[87] (WO2019/152767)

[30] US (62/625,628) 2018-02-02

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[21] **3,089,128**  
[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01)**

[25] EN

[54] **COMPOSITIONS CONTAINING COMBINATIONS OF NITROGEN-FIXING BACTERIA AND ADDITIONAL AGENTS AND THEIR USE IN FIXING NITROGEN IN PLANT SPECIES**

[54] **COMPOSITIONS CONTENANT DES COMBINAISONS DE BACTERIES FIXANT L'AZOTE ET D'AGENTS SUPPLEMENTAIRES, ET LEUR UTILISATION DANS LA FIXATION DE L'AZOTE CHEZ DES ESPECES VEGETALES**

[72] AVIDOV, AMIT, IL

[72] BARAZANI, AVNER, IL

[72] ZEILKHA, MOR, IL

[71] GRACE BREEDING NITROGEN FIXATION TECHNOLOGIES LTD., IL

[85] 2020-07-20

[86] 2019-01-21 (PCT/IL2019/050082)

[87] (WO2019/142199)

[30] US (62/619,848) 2018-01-21



## Demandes PCT entrant en phase nationale

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| <p style="text-align: center;">[21] <b>3,089,129</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. A47J 43/00 (2006.01) A47J 43/24 (2006.01) B01F 7/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FOOD PROCESSOR</b></p> <p>[54] <b>USTENSILE DE CUISINE</b></p> <p>[72] KENT, JOSEPH, US</p> <p>[71] PROGRESSIVE INTERNATIONAL CORPORATION, US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-23 (PCT/US2019/014785)</p> <p>[87] (WO2019/147695)</p> <p>[30] US (62/621,326) 2018-01-24</p>                                                                                                                                                      | <p style="text-align: center;">[21] <b>3,089,133</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. B61L 15/00 (2006.01) G06Q 10/08 (2012.01)</b></p> <p>[25] EN</p> <p>[54] <b>DISCHARGE GATE SENSING METHOD, SYSTEM AND ASSEMBLY</b></p> <p>[54] <b>PROCEDE, SYSTEME ET ENSEMBLE DE DETECTION DE TRAPPE DE DECHARGEMENT</b></p> <p>[72] LIDGETT, JUSTIN MERRILL, US</p> <p>[72] MARTIN, ANDREW H., US</p> <p>[71] AMSTED RAIL COMPANY, INC., US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-24 (PCT/US2019/014997)</p> <p>[87] (WO2019/164629)</p> <p>[30] US (62/621,212) 2018-01-24</p>                                                                                                                                                                                                                                                                                                                                                                                | <p style="text-align: center;">[21] <b>3,089,135</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. C12N 1/16 (2006.01) C12P 7/06 (2006.01) C12P 7/10 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>MICROORGANISMS WITH IMPROVED NITROGEN UTILIZATION FOR ETHANOL PRODUCTION</b></p> <p>[54] <b>MICRO-ORGANISMES A UTILISATION AMELIOREE D'AZOTE POUR LA PRODUCTION D'ETHANOL</b></p> <p>[72] YAZDI, HAMID RISMANI, US</p> <p>[72] ELLIOT, SARAH SCHULTHEIS, US</p> <p>[72] HARRIS, PAUL VINCENT, US</p> <p>[72] CATLETT, MICHAEL GLENN, US</p> <p>[71] NOVOZYMES A/S, DK</p> <p>[71] MICROBIOGEN PTY. LTD., AU</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-29 (PCT/US2019/015682)</p> <p>[87] (WO2019/148192)</p> <p>[30] US (62/623,372) 2018-01-29</p> <p>[30] US (62/629,321) 2018-02-12</p> |
| <p style="text-align: center;">[21] <b>3,089,131</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. E21B 43/12 (2006.01) E21B 19/22 (2006.01) E21B 23/14 (2006.01) E21B 47/12 (2012.01)</b></p> <p>[25] EN</p> <p>[54] <b>FIBER OPTIC LINE FOR MONITORING OF WELL OPERATIONS</b></p> <p>[54] <b>FIBRE OPTIQUE DESTINEE A LA SURVEILLANCE DE TRAVAUX DE PUIES</b></p> <p>[72] BARTKO, KIRK, SA</p> <p>[72] BOULDIN, BRETT, SA</p> <p>[72] BROWN, JONATHAN, GB</p> <p>[71] SAUDI ARABIAN OIL COMPANY, SA</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-24 (PCT/US2019/014896)</p> <p>[87] (WO2019/147768)</p> <p>[30] US (15/878,919) 2018-01-24</p> | <p style="text-align: center;">[21] <b>3,089,134</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. C07D 401/10 (2006.01) A61K 31/44 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/541 (2006.01) A61K 31/55 (2006.01) C07D 213/40 (2006.01) C07D 213/42 (2006.01) C07D 213/56 (2006.01) C07D 221/00 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 413/10 (2006.01) C07D 417/10 (2006.01) C07D 491/048 (2006.01) C07D 491/056 (2006.01) C07D 498/04 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SREBP INHIBITORS COMPRISING A 6-MEMBERED CENTRAL RING</b></p> <p>[54] <b>INHIBITEURS DE SREBP COMPRENANT UN NOYAU CENTRAL A 6 CHAINONS</b></p> <p>[72] GREEN, MICHAEL JOHN, US</p> <p>[72] HART, BARRY PATRICK, US</p> <p>[71] CAPULUS THERAPEUTICS, LLC, US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-28 (PCT/US2019/015458)</p> <p>[87] (WO2019/148125)</p> <p>[30] US (62/623,405) 2018-01-29</p> <p>[30] US (62/744,397) 2018-10-11</p> | <p style="text-align: center;">[21] <b>3,089,136</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. G06Q 20/14 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06Q 50/30 (2012.01) G07F 7/02 (2006.01) G07F 13/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS AND DEVICES FOR MOBILE PAYMENT TRANSACTIONS WITH A PRODUCT DISPENSER</b></p> <p>[54] <b>PROCEDES ET DISPOSITIFS POUR TRANSACTIONS DE PAIEMENT MOBILE AVEC UN DISTRIBUTEUR DE PRODUIT</b></p> <p>[72] FIEGLEIN, HENRY, US</p> <p>[72] PULSIFER, ELI, US</p> <p>[72] CARLSSON, RICHARD, SE</p> <p>[71] WAYNE FUELING SYSTEMS LLC, US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-02-05 (PCT/US2019/016647)</p> <p>[87] (WO2019/152988)</p> <p>[30] US (15/888,663) 2018-02-05</p>                                        |
| <p style="text-align: center;">[21] <b>3,089,132</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. A61B 17/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SYSTEM FOR AND METHOD OF TREATING ANEURYSMS</b></p> <p>[54] <b>SYSTEME ET PROCEDE POUR TRAITER DES ANEURISMES</b></p> <p>[72] BADRUDDIN, AAMIR, US</p> <p>[72] PEREIRA, EDGARD LUIS RAMOS, US</p> <p>[72] WOLFE, THOMAS J., US</p> <p>[72] ZAIDAT, OSAMA O., US</p> <p>[71] GALAXY THERAPEUTICS INC., US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-17 (PCT/US2019/013909)</p> <p>[87] (WO2019/143755)</p> <p>[30] US (15/875,767) 2018-01-19</p>                                    | <p style="text-align: center;">[21] <b>3,089,132</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. A61B 17/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SYSTEM FOR AND METHOD OF TREATING ANEURYSMS</b></p> <p>[54] <b>SYSTEME ET PROCEDE POUR TRAITER DES ANEURISMES</b></p> <p>[72] BADRUDDIN, AAMIR, US</p> <p>[72] PEREIRA, EDGARD LUIS RAMOS, US</p> <p>[72] WOLFE, THOMAS J., US</p> <p>[72] ZAIDAT, OSAMA O., US</p> <p>[71] GALAXY THERAPEUTICS INC., US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-17 (PCT/US2019/013909)</p> <p>[87] (WO2019/143755)</p> <p>[30] US (15/875,767) 2018-01-19</p>                                                                                                                                                                                                                                                                                                                                                              | <p style="text-align: center;">[21] <b>3,089,132</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. A61B 17/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SYSTEM FOR AND METHOD OF TREATING ANEURYSMS</b></p> <p>[54] <b>SYSTEME ET PROCEDE POUR TRAITER DES ANEURISMES</b></p> <p>[72] BADRUDDIN, AAMIR, US</p> <p>[72] PEREIRA, EDGARD LUIS RAMOS, US</p> <p>[72] WOLFE, THOMAS J., US</p> <p>[72] ZAIDAT, OSAMA O., US</p> <p>[71] GALAXY THERAPEUTICS INC., US</p> <p>[85] 2020-07-20</p> <p>[86] 2019-01-17 (PCT/US2019/013909)</p> <p>[87] (WO2019/143755)</p> <p>[30] US (15/875,767) 2018-01-19</p>                                                                                                                                                                                  |

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[21] **3,089,137**  
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/16 (2006.01) A61B 18/18 (2006.01) A61B 18/20 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR CONTROLLED RF TREATMENTS AND RF GENERATOR SYSTEM**

[54] **PROCEDES ET APPAREIL DESTINES A DES TRAITEMENTS RF COMMANDES ET SYSTEME DE GENERATEUR RF**

[72] BOLL, JAMES, US  
[72] WELCHES, RICHARD SHAUN, US  
[72] MASSE, DANIEL, US  
[72] BRUCE, SAMUEL, US  
[72] SIMON, JEFFREY, US  
[72] SHAJII, ALI, US  
[72] SONNENSHEIN, DAVID, US  
[72] MCCARTHY, ROBERT D., US  
[72] SIERRA, RAFAEL ARMANDO, US  
[71] CYNOSURE, INC., US  
[85] 2020-07-20  
[86] 2019-02-06 (PCT/US2019/016883)  
[87] (WO2019/157076)  
[30] US (62/627,611) 2018-02-07  
[30] US (62/771,294) 2018-11-26

[21] **3,089,138**  
[13] A1

[51] **Int.Cl. H04B 10/079 (2013.01) H04B 10/2569 (2013.01)**

[25] EN

[54] **ADAPTIVE OPTICAL MODEM CONFIGURATION BASED ON OPERATING CONDITIONS**

[54] **CONFIGURATION DE MODEM OPTIQUE ADAPTATIVE BASEE SUR LES CONDITIONS DE FONCTIONNEMENT**

[72] CHARLTON, DOUGLAS W., CA  
[72] SHINER, ANDREW D., CA  
[72] MANIOFF, ERIC, CA  
[72] FRANKEL, MICHAEL Y., US  
[71] CIENA CORPORATION, US  
[85] 2020-07-20  
[86] 2019-04-09 (PCT/US2019/026436)  
[87] (WO2019/209518)  
[30] US (15/960,879) 2018-04-24

[21] **3,089,139**  
[13] A1

[51] **Int.Cl. H04B 10/075 (2013.01) G01M 11/00 (2006.01)**

[25] EN

[54] **OPTICAL FIBER CHARACTERIZATION MEASUREMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE MESURE POUR CARACTERISATION DE FIBRE OPTIQUE**

[72] ARCHAMBAULT, JEAN-LUC, CA  
[72] CAO, SONG, CA  
[72] KIM, NA YOUNG, CA  
[71] CIENA CORPORATION, US  
[85] 2020-07-20  
[86] 2019-05-15 (PCT/US2019/032353)  
[87] (WO2019/226425)  
[30] US (15/986,396) 2018-05-22

[21] **3,089,140**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01)**

[25] EN

[54] **ENHANCERS OF CELLULAR CANNIBALISM FOR USE TO SENSITIZE TUMORS TO RADIATION THERAPY**

[54] **AMPLIFICATEURS DE CANNIBALISME CELLULAIRE DESTINES A ETRE UTILISES POUR SENSIBILISER DES TUMEURS A UNE RADIOTHERAPIE**

[72] PERFETTINI, JEAN LUC, FR  
[72] DEUTSCH, ERIC, FR  
[72] BRENNER, CATHERINE, FR  
[72] CINTRAT, JEAN-CHRISTOPHE, FR  
[72] TARAN, FREDERIC, FR  
[71] INSTITUT GUSTAVE-ROUSSY, FR  
[85] 2020-07-21  
[86] 2018-01-23 (PCT/EP2018/051605)  
[87] (WO2018/134443)  
[30] EP (17305068.3) 2017-01-23

[21] **3,089,141**  
[13] A1

[51] **Int.Cl. B07C 5/06 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF HANDLING TUBERS**

[54] **SYSTEMES ET PROCEDES DE MANIPULATION DE TUBERCULES**

[72] VERSCHUREN, MARK, NL  
[71] HBV PRODUCTION BV, NL  
[85] 2020-07-21  
[86] 2018-02-02 (PCT/EP2018/052718)  
[87] (WO2019/149374)

[21] **3,089,142**  
[13] A1

[51] **Int.Cl. H04W 74/00 (2009.01) H04W 72/04 (2009.01)**

[25] EN

[54] **MULTIPLE TBS FOR MSG3 IN DATA TRANSMISSION DURING RANDOM ACCESS**

[54] **TBS MULTIPLES POUR MSG3 DANS UNE TRANSMISSION DE DONNEES PENDANT UN ACCES ALEATOIRE**

[72] HOGLUND, ANDREAS, SE  
[72] BERGMAN, JOHAN, SE  
[72] TIRRONEN, TUOMAS, FI  
[72] YAVUZ, EMRE, SE  
[72] PHAM VAN, DUNG, SE  
[72] LIBERG, OLOF, SE  
[72] SUI, YUTAO, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2020-07-21  
[86] 2019-01-03 (PCT/EP2019/050110)  
[87] (WO2019/145129)

[21] **3,089,143**  
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/127 (2006.01)**

[25] EN

[54] **ZONAL ISOLATION DEVICE WITH EXPANSION RING**

[54] **DISPOSITIF D'ISOLATION ZONALE AVEC ANNEAU D'EXPANSION**

[72] MERRON, MATTHEW JAMES, US  
[72] NICHOLS, MATTHEW TAYLOR, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2020-07-21  
[86] 2018-02-27 (PCT/US2018/019986)  
[87] (WO2019/168502)

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| [21] <b>3,089,144</b><br>[13] A1                                                                                                                                                      | [21] <b>3,089,146</b><br>[13] A1                                                                                                                        | [21] <b>3,089,150</b><br>[13] A1                                                                                                                                                                   |
| [51] <b>Int.Cl. G06F 21/50 (2013.01) G06F 21/60 (2013.01) H04L 9/32 (2006.01) H04L 29/08 (2006.01)</b>                                                                                | [51] <b>Int.Cl. A01G 9/02 (2018.01) A01G 27/00 (2006.01) A47G 7/00 (2006.01)</b>                                                                        | [51] <b>Int.Cl. C07D 471/08 (2006.01) A61K 31/439 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/46 (2006.01) A61K 31/496 (2006.01) A61P 31/04 (2006.01) C07D 487/08 (2006.01)</b> |
| [25] EN                                                                                                                                                                               | [25] EN                                                                                                                                                 | [25] EN                                                                                                                                                                                            |
| [54] <b>SYSTEM AND METHOD FOR DISTRIBUTED, SECURE COMPUTING SYSTEM</b>                                                                                                                | [54] <b>MODULAR MULTI-TIERED PLANTER KIT</b>                                                                                                            | [54] <b>.BETA.-LACTAMASE INHIBITOR AND USE THEREOF</b>                                                                                                                                             |
| [54] <b>SYSTEME ET PROCEDE POUR UN SYSTEME INFORMATIQUE SECURISE DISTRIBUE</b>                                                                                                        | [54] <b>KIT MODULAIRE MULTI-NIVEAUX DE PLANTATION</b>                                                                                                   | [54] <b>INHIBITEUR DE S-LACTAMASE ET SON UTILISATION</b>                                                                                                                                           |
| [72] MACIAS, LUIS, US                                                                                                                                                                 | [72] TWITO, ISRAEL, IL                                                                                                                                  | [72] WU, YUCHUAN, CN                                                                                                                                                                               |
| [71] GRAINCHAIN, INC., US                                                                                                                                                             | [71] TWITO, ISRAEL, IL                                                                                                                                  | [72] HUANG, SHAOQIANG, CN                                                                                                                                                                          |
| [85] 2020-07-21                                                                                                                                                                       | [85] 2020-07-20                                                                                                                                         | [72] CHEN, XI, CN                                                                                                                                                                                  |
| [86] 2019-01-02 (PCT/US2019/012112)                                                                                                                                                   | [86] 2019-02-07 (PCT/IL2019/050153)                                                                                                                     | [72] HU, YONGHAN, CN                                                                                                                                                                               |
| [87] (WO2019/143475)                                                                                                                                                                  | [87] (WO2019/155469)                                                                                                                                    | [72] LIU, XIAO, CN                                                                                                                                                                                 |
| [30] US (62/620,362) 2018-01-22                                                                                                                                                       | [30] IL (257435) 2018-02-08                                                                                                                             | [71] SUZHOU SINOVENT PHARMACEUTICALS CO., LTD., CN                                                                                                                                                 |
| [30] US (62/628,719) 2018-02-09                                                                                                                                                       |                                                                                                                                                         | [85] 2020-07-21                                                                                                                                                                                    |
|                                                                                                                                                                                       | [21] <b>3,089,149</b><br>[13] A1                                                                                                                        | [21] <b>3,089,151</b><br>[13] A1                                                                                                                                                                   |
|                                                                                                                                                                                       | [51] <b>Int.Cl. C10M 161/00 (2006.01) C08F 290/04 (2006.01) C08F 292/00 (2006.01) C10M 171/06 (2006.01)</b>                                             | [51] <b>Int.Cl. A61K 39/395 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)</b>                                                                     |
|                                                                                                                                                                                       | [25] EN                                                                                                                                                 | [25] EN                                                                                                                                                                                            |
|                                                                                                                                                                                       | [54] <b>POLYMERIC-INORGANIC NANOPARTICLE COMPOSITIONS, MANUFACTURING PROCESS THEREOF AND THEIR USE AS LUBRICANT ADDITIVES</b>                           | [54] <b>T CELL DISEASE TREATMENT TARGETING TAG-72</b>                                                                                                                                              |
| [51] <b>Int.Cl. H04L 12/24 (2006.01) H04L 12/26 (2006.01)</b>                                                                                                                         | [54] <b>COMPOSITIONS NANOPARTICULAIRES POLYMERES INORGANIQUES, LEUR PROCEDE DE FABRICATION ET LEUR UTILISATION EN TANT QU'ADDITIFS POUR LUBRIFIANTS</b> | [54] <b>TRAITEMENT DE MALADIE DES LYMPHOCYTES T CIBLANT LA TAG-72</b>                                                                                                                              |
| [25] EN                                                                                                                                                                               | [72] WIEBER, STEPHAN, DE                                                                                                                                | [72] EVTIMOV, VERA, AU                                                                                                                                                                             |
| [54] <b>SYSTEM, METHOD, AND COMPUTER PROGRAM FOR AUTOMATICALLY GENERATING TRAINING DATA FOR ANALYZING A NEW CONFIGURATION OF A COMMUNICATION NETWORK</b>                              | [72] SIRAK, SOFIA, US                                                                                                                                   | [72] BOYD, RICHARD, AU                                                                                                                                                                             |
| [54] <b>SYSTEME, PROCEDE ET PROGRAMME D'ORDINATEUR POUR GENERER AUTOMATIQUEMENT DES DONNEES D'APPRENTISSAGE POUR ANALYSER UNE NOUVELLE CONFIGURATION D'UN RESEAU DE COMMUNICATION</b> | [72] NESS, DANIEL, DE                                                                                                                                   | [72] NISBET, IAN, AU                                                                                                                                                                               |
| [72] HERMONI, OFER, US                                                                                                                                                                | [72] WILKENS, ROLAND, DE                                                                                                                                | [72] PRINCE, MILES, AU                                                                                                                                                                             |
| [72] SANDLERMAN, NIMROD, IL                                                                                                                                                           | [72] SCHMITT, GUNTER, DE                                                                                                                                | [72] TROUNSON, ALAN, AU                                                                                                                                                                            |
| [72] FELSTAIN, EYAL, IL                                                                                                                                                               | [72] HAGEMANN, MICHAEL, CN                                                                                                                              | [71] CARTHERICS PTY. LTD., AU                                                                                                                                                                      |
| [71] AMDOCS DEVELOPMENT LIMITED, CY                                                                                                                                                   | [71] EVONIK OPERATIONS GMBH, DE                                                                                                                         | [85] 2020-07-21                                                                                                                                                                                    |
| [85] 2020-07-20                                                                                                                                                                       | [85] 2020-07-20                                                                                                                                         | [86] 2019-02-18 (PCT/AU2019/050129)                                                                                                                                                                |
| [86] 2019-03-25 (PCT/IB2019/052404)                                                                                                                                                   | [86] 2019-01-22 (PCT/EP2019/051516)                                                                                                                     | [87] (WO2019/161439)                                                                                                                                                                               |
| [87] (WO2019/186367)                                                                                                                                                                  | [87] (WO2019/145307)                                                                                                                                    | [30] US (62/634,366) 2018-02-23                                                                                                                                                                    |
| [30] US (62/648,281) 2018-03-26                                                                                                                                                       | [30] EP (18152969.4) 2018-01-23                                                                                                                         |                                                                                                                                                                                                    |
| [30] US (62/648,287) 2018-03-26                                                                                                                                                       |                                                                                                                                                         |                                                                                                                                                                                                    |
| [30] US (62/660,142) 2018-04-19                                                                                                                                                       |                                                                                                                                                         |                                                                                                                                                                                                    |
| [30] US (16/280,279) 2019-02-20                                                                                                                                                       |                                                                                                                                                         |                                                                                                                                                                                                    |

## PCT Applications Entering the National Phase

[21] **3,089,153**  
[13] A1

[51] **Int.Cl. G06Q 40/04 (2012.01)**  
[25] EN  
[54] **BLOCKCHAIN-BASED METHOD AND APPARATUS FOR PRE-EXCHANGING AVAILABLE RESOURCE QUOTAS**  
[54] **PROCEDE ET APPAREIL BASES SUR UNE CHAINE DE BLOCS POUR PRE-ECHANGER DES QUOTAS DE RESSOURCES DISPONIBLES**  
[72] YANG, XINYING, CN  
[71] ALIBABA GROUP HOLDING LIMITED, KY  
[85] 2020-07-21  
[86] 2019-02-22 (PCT/CN2019/075793)  
[87] (WO2019/237762)  
[30] CN (201810610232.7) 2018-06-13

[21] **3,089,154**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61K 48/00 (2006.01)**  
[25] EN  
[54] **PEPTIDE EXCHANGE PROTEIN**  
[54] **PROTEINE D'ECHANGE DE PEPTIDES**  
[72] BOYLE, LOUISE HELEN, GB  
[72] NEERINCX, ANDREAS HEINRICH, GB  
[72] ILCA, FLORIN TUDOR, GB  
[71] CAMBRIDGE ENTERPRISE LIMITED, GB  
[85] 2020-07-21  
[86] 2019-01-25 (PCT/EP2019/051907)  
[87] (WO2019/145509)  
[30] GB (1801323.5) 2018-01-26  
[30] GB (1813737.2) 2018-08-23

[21] **3,089,155**  
[13] A1

[51] **Int.Cl. F16H 13/06 (2006.01) F16H 13/10 (2006.01)**  
[25] EN  
[54] **FIXED RATIO TRACTION OR FRICTION DRIVE**  
[54] **ENTRAINEMENT A TRACTION OU FRICTION A RAPPORT FIXE**  
[72] FAUTEUX, PHILIPPE, CA  
[71] VECTIS DRIVE INC., CA  
[85] 2020-07-13  
[86] 2019-06-03 (PCT/CA2019/050768)  
[87] (WO2019/232620)  
[30] US (62/681,464) 2018-06-06

[21] **3,089,156**  
[13] A1

[51] **Int.Cl. B07C 3/00 (2006.01)**  
[25] FR  
[54] **MAIL-SORTING FACILITY COMPRISING A TRAY CONVEYOR AND A TRAY-HANDLING SHUTTLE ROBOT**  
[54] **INSTALLATION DE TRI DE COURRIER AVEC UN CONVOYEUR DE BACS ET UN ROBOT NAVETTE MANIPULATEUR DE BACS**  
[72] TETAZ-RECEVEUR, PATRICK, FR  
[72] PELLEGRIN, LAURENT, FR  
[71] SOLYSTIC, FR  
[85] 2020-07-21  
[86] 2018-12-12 (PCT/FR2018/053222)  
[87] (WO2019/158830)  
[30] FR (1851196) 2018-02-13

[21] **3,089,157**  
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01) G01K 1/02 (2006.01)**  
[25] EN  
[54] **APPARATUS, SYSTEM AND METHOD FOR TEMPERATURE MEASUREMENT FOR DRY-TYPE TRANSFORMER**  
[54] **APPAREIL, SYSTEME ET PROCEDE DE MESURE DE TEMPERATURE POUR TRANSFORMATEUR SEC**  
[72] ZHANG, YIBO, CN  
[72] MENG, DELUN, CN  
[72] CHEN, JIANSHEG, CN  
[72] LI, CHUN, CN  
[71] ABB POWER GRIDS SWITZERLAND AG, CH  
[85] 2020-07-16  
[86] 2018-01-19 (PCT/CN2018/073447)  
[87] (WO2019/140643)

[21] **3,089,158**  
[13] A1

[51] **Int.Cl. G01V 3/15 (2006.01) B63G 8/00 (2006.01) G01S 15/89 (2006.01) G01V 3/08 (2006.01) G01V 11/00 (2006.01)**  
[25] EN  
[54] **DETECTING OBJECTS SUBMERGED IN A BODY OF WATER OR AT LEAST PARTLY BURIED IN A BED OF THE BODY OF WATER**  
[54] **DETECTION D'OBJETS IMMERGES DANS UNE MASSE D'EAU OU AU MOINS PARTIELLEMENT ENFOUIS DANS UN LIT DE LA MASSE D'EAU**  
[72] CHABERT, ANNE MARIE, NL  
[72] JAUNET, LAURENT, NL  
[72] CHIVERS, MICHAEL, NL  
[72] HOLLAND, DAVID, NL  
[71] FUGRO N.V., NL  
[85] 2020-07-21  
[86] 2019-01-26 (PCT/EP2019/051928)  
[87] (WO2019/145520)  
[30] DE (10 2018 201 251.2) 2018-01-26

[21] **3,089,159**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/53 (2006.01) A61P 1/16 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **PYRAZOLO[1,5-A][1,3,5]TRIAZINE-2-AMINE DERIVATIVE, PREPARATION METHOD THEREFOR AND MEDICAL USE THEREOF**  
[54] **DERIVE DE PYRAZOLO[1,5-A][1,3,5]TRIAZINE-2-AMINE, SON PROCEDE DE PREPARATION ET SON UTILISATION MEDICALE**  
[72] LU, BIAO, CN  
[72] GUI, BIN, CN  
[72] ZHANG, JUNZHEN, CN  
[72] HE, FENG, CN  
[72] TAO, WEIKANG, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CH  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD, CN  
[85] 2020-07-21  
[86] 2019-02-01 (PCT/CN2019/074324)  
[87] (WO2019/154294)  
[30] CN (201810118455.1) 2018-02-06

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[21] **3,089,160**  
[13] A1

[51] **Int.Cl. F01D 25/24 (2006.01)**  
[25] FR  
[54] **INTER-TURBINE CASING COMPRISING MOUNTED SPLITTER BLADES**  
[54] **CARTER INTER-TURBINES COMPRENANT DES AUBES SEPARATRICES RAPPORTEES**  
[72] PRESTEL, SEBASTIEN JEAN LAURENT, FR  
[72] COUSSEAU, SIMON JEAN-MARIE BERNARD, FR  
[72] PAGES, ALICE, FR  
[72] VERBRUGGE, CYRIL, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2020-07-21  
[86] 2019-01-25 (PCT/FR2019/050164)  
[87] (WO2019/145648)  
[30] FR (1850672) 2018-01-29

[21] **3,089,161**  
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/167 (2006.01) A61K 31/235 (2006.01) A61P 25/00 (2006.01) C07C 69/00 (2006.01)**  
[25] EN  
[54] **COMPOUNDS FOR THE TREATMENT OF ACUTE BRAIN INJURY**  
[54] **COMPOSES POUR LE TRAITEMENT D'UNE LESION CEREBRALE AIGUE**  
[72] KLEIN, ANDERS BUE, DK  
[72] CLARKSON, ANDREW NEIL, NZ  
[72] HOULTON, JOSHUA MACDONALD, NZ  
[72] LEURS, ULRIKE, DK  
[72] CLAUSEN, RASMUS PRAETORIUS, DK  
[72] FROLUND, BENTE, DK  
[72] WELLENDORPH, PETRINE, DK  
[71] KOBENHAVNS UNIVERSITET, DK  
[71] OTAGO INNOVATION LTD, NZ  
[85] 2020-07-21  
[86] 2019-02-01 (PCT/DK2019/050041)  
[87] (WO2019/149329)  
[30] DK (PA 2018 70067) 2018-02-02

[21] **3,089,162**  
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01)**  
[25] EN  
[54] **BLOCKCHAIN-BASED SET EXCHANGE METHOD AND APPARATUS FOR AVAILABLE RESOURCE QUOTAS**  
[54] **PROCEDE ET APPAREIL D'ECHANGE D'ENSEMBLE A BASE DE CHAINE DE BLOCS POUR DES QUOTAS DE RESSOURCES DISPONIBLES**  
[72] YANG, XINYING, CN  
[71] ALIBABA GROUP HOLDING LIMITED, KY  
[85] 2020-07-21  
[86] 2019-02-22 (PCT/CN2019/075785)  
[87] (WO2019/237761)  
[30] CN (201810610225.7) 2018-06-13

[21] **3,089,163**  
[13] A1

[51] **Int.Cl. G01N 15/14 (2006.01) G01N 15/00 (2006.01) G01N 15/10 (2006.01) G01N 35/00 (2006.01)**  
[25] FR  
[54] **METHOD FOR ANALYSING A BIOLOGICAL SAMPLE CONTAINING BIOLOGICAL CELLS, AND ANALYSING DEVICE FOR IMPLEMENTING THE ANALYSING METHOD**  
[54] **PROCEDE D'ANALYSE D'UN ECHANTILLON BIOLOGIQUE CONTENANT DES CELLULES BIOLOGIQUES, ET APPAREIL D'ANALYSE POUR LA MISE EN OEUVRE DU PROCEDE D'ANALYSE**  
[72] ROUSSEAU, ALAIN, FR  
[71] DIAGNOSTICA STAGO, FR  
[85] 2020-07-21  
[86] 2019-03-04 (PCT/FR2019/050481)  
[87] (WO2019/170993)  
[30] FR (18/51958) 2018-03-07

[21] **3,089,164**  
[13] A1

[51] **Int.Cl. H01F 27/02 (2006.01) H01F 27/06 (2006.01) H01F 27/245 (2006.01) H01F 27/26 (2006.01) H01F 27/32 (2006.01)**  
[25] EN  
[54] **ELECTRIC DEVICE WITH PRESSING PLATES FOR CLAMPING A MAGNETIZABLE CORE**  
[54] **APPAREIL ELECTRIQUE MUNI DE PLAQUES DE SERRAGE POUR SERRER UN NOYAU MAGNETISABLE**  
[72] BAUMANN, MARKUS, DE  
[72] CLAUS, JONAS, DE  
[72] FROHNER, JORG, DE  
[72] KRAUS, JULIAN, DE  
[72] VOSS, STEPHAN, DE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 2020-07-21  
[86] 2019-01-04 (PCT/EP2019/050144)  
[87] (WO2019/149469)  
[30] DE (10 2018 201 488.4) 2018-01-31

[21] **3,089,165**  
[13] A1

[51] **Int.Cl. F28F 9/22 (2006.01) F22B 1/02 (2006.01) F28D 7/16 (2006.01) F28F 13/00 (2006.01)**  
[25] EN  
[54] **HELICAL BAFFLE FOR ONCE-THROUGH STEAM GENERATOR**  
[54] **DEFLECTEUR HELICOIDAL POUR GENERATEUR DE VAPEUR A PASSAGE UNIQUE**  
[72] ALY, KAREEM M. A., US  
[71] BWXT CANADA LTD., CA  
[85] 2020-07-21  
[86] 2018-05-08 (PCT/IB2018/053203)  
[87] (WO2019/150179)  
[30] US (62/625,791) 2018-02-02

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[21] **3,089,166**  
[13] A1

[51] **Int.Cl. F15B 11/10 (2006.01) B66D 1/44 (2006.01) F15B 11/042 (2006.01) F15B 13/02 (2006.01) F15B 13/042 (2006.01)**

[25] EN

[54] **CONTROL VALVE ASSEMBLY FOR AN INDIRECT PNEUMATIC CONTROL, AND METHOD FOR CONTROLLING A WORKING FLUID PRESSURE**

[54] **SYSTEME DE SOUPAPE DE REGULATION PERMETTANT UNE REGULATION PNEUMATIQUE INDIRECTE, ET PROCEDE DE REGULATION DE LA PRESSION D'UN FLUIDE DE TRAVAIL**

[72] KRUPNIK, PIOTR, DE  
[72] BROSE, SIMON, DE  
[71] J. D. NEUHAUS HOLDING GMBH & CO. KG, DE  
[85] 2020-07-21  
[86] 2019-01-30 (PCT/EP2019/052247)  
[87] (WO2019/149751)  
[30] DE (DE 10 2018 102 397.9) 2018-02-02

[21] **3,089,167**  
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ADHESION RECEPTOR CONSTRUCTS AND USES THEREOF IN NATURAL KILLER CELL IMMUNOTHERAPY**

[54] **CONSTRUCTIONS DE RECEPTEURS D'ADHESION ET LEURS UTILISATIONS DANS UNE IMMUNOTHERAPIE PAR CELLULES TUEUSES NATURELLES**

[72] ZHU, YANSONG, SG  
[72] CAMPANA, DARIO, SG  
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG  
[85] 2020-07-21  
[86] 2019-02-07 (PCT/IB2019/000141)  
[87] (WO2019/155286)

[21] **3,089,168**  
[13] A1

[51] **Int.Cl. A01K 61/60 (2017.01)**

[25] EN

[54] **SEMI-SUBMERSIBLE SPAR-TYPE OFFSHORE FISH FARM WITH AN ADJUSTABLE BALLAST SYSTEM**

[54] **FERME PISCICOLE SEMI-SUBMERSIBLE OFFSHORE DE TYPE SPAR DOTEE D'UN SYSTEME DE BALLAST REGLABLE**

[72] VAN LEEUWEN, MARK RUDOLF, NL  
[71] SAULX OFFSHORE, NL  
[85] 2020-07-21  
[86] 2019-01-21 (PCT/EP2019/051354)  
[87] (WO2019/145252)  
[30] EP (18153431.4) 2018-01-25

[21] **3,089,169**  
[13] A1

[51] **Int.Cl. F22B 37/20 (2006.01) F28D 7/06 (2006.01) F28F 9/013 (2006.01)**

[25] EN

[54] **ALTERNATING OFFSET U-BEND SUPPORT ARRANGEMENT**

[54] **AGENCEMENT DE SUPPORT EN DOUBLE COUDE A DECALAGE ALTERNE**

[72] ALY, KAREEM M. A., US  
[71] BWXT CANADA LTD., CA  
[85] 2020-07-21  
[86] 2018-05-08 (PCT/IB2018/053205)  
[87] (WO2019/150180)  
[30] US (62/625,813) 2018-02-02

[21] **3,089,170**  
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ACTIVATING CHIMERIC RECEPTORS AND USES THEREOF IN NATURAL KILLER CELL IMMUNOTHERAPY**

[54] **RECEPTEURS CHIMERIQUES ACTIVATEURS ET LEURS UTILISATIONS DANS UNE IMMUNOTHERAPIE PAR CELLULES TUEUSES NATURELLES**

[72] SEOW, SEE VOON, SG  
[72] CAMPANA, DARIO, SG  
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG  
[85] 2020-07-21  
[86] 2019-02-07 (PCT/IB2019/000181)  
[87] (WO2019/155288)  
[30] US (62/628,788) 2018-02-09  
[30] US (62/736,879) 2018-09-26

[21] **3,089,171**  
[13] A1

[51] **Int.Cl. F01C 1/344 (2006.01) F01C 21/04 (2006.01) F04C 29/02 (2006.01)**

[25] EN

[54] **VANE MOTOR**

[54] **MOTEUR A PISTON ROTATIF A PALETTES**

[72] SAWITZKI, EWALD, DE  
[72] BROSE, SIMON, DE  
[71] J. D. NEUHAUS HOLDING GMBH & CO. KG, DE  
[85] 2020-07-21  
[86] 2019-01-30 (PCT/EP2019/052251)  
[87] (WO2019/149753)  
[30] DE (DE 10 2018 102 393.6) 2018-02-02

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[21] **3,089,172**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/19 (2006.01) A61K 47/42 (2017.01)**

[25] EN

[54] **PROCESS TO REDUCE ENDOTOXIN IN GELATIN**

[54] **PROCEDE DE REDUCTION DES ENDOTOXINES DANS LA GELATINE**

[72] WONG, YIK TENG, GB

[72] SHIRKHANI, KHOJASTEH, GB

[72] HITCHING, AMI, GB

[72] STEWART, SARAH, GB

[71] CATALENT U.K. SWINDON ZYDIS LIMITED, GB

[85] 2020-07-21

[86] 2019-03-07 (PCT/IB2019/000234)

[87] (WO2019/171173)

[30] US (62/640,394) 2018-03-08

[21] **3,089,173**  
[13] A1

[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/16 (2006.01) C08G 18/42 (2006.01)**

[25] FR

[54] **RIGID FOAM WITH IMPROVED INSULATING POWER**

[54] **MOUSSE RIGIDE AVEC POUVOIR ISOLANT AMELIORE**

[72] BINDSCHENDLER, PIERRE ETIENNE, FR

[72] SARBU, ALEXANDRU, FR

[72] PERRIN, REMI, FR

[72] FURTWENGLER, PIERRE, FR

[72] AVEROUS, LUC, FR

[72] REDL, ANDREAS, FR

[71] TEREOS STARCH & SWEETENERS BELGIUM, BE

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR

[71] SOPREMA, FR

[71] UNIVERSITE DE STRASBOURG, FR

[85] 2020-07-21

[86] 2019-01-22 (PCT/EP2019/051491)

[87] (WO2019/141868)

[30] FR (1800072) 2018-01-22

[21] **3,089,174**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/19 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CANCERS WITH ANTAGONISTIC ANTI-PD-1 ANTIBODIES**

[54] **METHODES DE TRAITEMENT DU CANCER A L'AIDE D'ANTICORPS ANTI-PD-1**

[72] ATTIYEH, EDWARD F., US

[72] BAE, KYOUNGHWAN, US

[72] GREGER, JAMES G., US

[72] XIE, HONG, US

[72] MAYER, CHRISTINA LOURDES, US

[71] JANSSEN BIOTECH, INC., US

[85] 2020-07-21

[86] 2019-01-19 (PCT/IB2019/050449)

[87] (WO2019/142149)

[30] US (62/620,106) 2018-01-22

[30] US (62/794,195) 2019-01-18

[21] **3,089,175**  
[13] A1

[51] **Int.Cl. A61M 1/34 (2006.01) A61K 38/55 (2006.01) A61M 1/02 (2006.01)**

[25] EN

[54] **EXTRACORPOREAL DEVICE AND MATRIX FOR REMOVING FIBRINOLYTIC PROTEINS FROM BIOLOGICAL FLUIDS, METHODS AND USES THEREOF**

[54] **DISPOSITIF EXTRACORPOREL ET MATRICE POUR ELIMINER DES PROTEINES FIBRINOLYTIQUES DE LIQUIDES BIOLOGIQUES, METHODES ET UTILISATIONS DE CEUX-CI**

[72] HIJAZI, ABD ALRAUF, IL

[72] DVASHI, ZEEV, IL

[71] PLAS-FREE LTD., IL

[85] 2020-07-21

[86] 2019-02-28 (PCT/IL2019/050228)

[87] (WO2019/167048)

[30] US (62/636,511) 2018-02-28

[21] **3,089,176**  
[13] A1

[51] **Int.Cl. C23F 13/22 (2006.01) B63C 11/52 (2006.01) B63G 8/00 (2006.01)**

[25] EN

[54] **DEVICES, METHODS, AND SYSTEMS FOR UNDERWATER SURVEYING**

[54] **DISPOSITIFS, PROCEDES ET SYSTEMES DE SONDAGE SOUS-MARIN**

[72] CLAUS, BRIAN, CA

[72] DONALD, CRAIG, MY

[72] KOWALCZYK, PETER, CA

[72] KOWALCZYK, MATTHEW, CA

[71] OCEAN FLOOR GEOPHYSICS INC., CA

[85] 2020-07-21

[86] 2019-01-24 (PCT/IB2019/000375)

[87] (WO2019/145798)

[30] US (62/621,486) 2018-01-24

[21] **3,089,177**  
[13] A1

[51] **Int.Cl. A61K 39/145 (2006.01)**

[25] EN

[54] **INFLUENZA VIRUS VACCINES AND USES THEREOF**

[54] **VACCINS CONTRE LE VIRUS DE LA GRIPPE ET LEURS UTILISATIONS**

[72] MILDER, FERDINAND JACOBUS, NL

[72] RITSCHEL, TINA, NL

[72] BRANDENBURG, BOERRIES, NL

[72] JONGENEELLEN, MANDY ANTONIA CATHARINA, NL

[72] TRUAN, DAPHNE, NL

[72] LANGEDIJK, JOHANNES PETRUS MARIA, NL

[71] JANSSEN VACCINES & PREVENTION B.V., NL

[85] 2020-07-21

[86] 2019-01-22 (PCT/EP2019/051532)

[87] (WO2019/145310)

[30] EP (18152991.8) 2018-01-23

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[21] **3,089,178**  
[13] A1

[51] **Int.Cl. G06F 3/0481 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR HANDLING OVERLAPPING OBJECTS IN VISUAL EDITING SYSTEMS**  
[54] **SYSTEME ET PROCEDE DE GESTION D'OBJETS SE CHEVAUCHANT DANS DES SYSTEMES D'EDITION VISUELLE**  
[72] FIALKOW, RONI, IL  
[71] WIX.COM LTD., IL  
[85] 2020-07-21  
[86] 2019-02-04 (PCT/IB2019/050878)  
[87] (WO2019/150334)  
[30] US (62/626,093) 2018-02-04  
[30] US (62/647,736) 2018-03-25

[21] **3,089,179**  
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01)**  
[25] EN  
[54] **METHOD FOR FEEDING ELECTRICAL POWER INTO AN ELECTRICAL SUPPLY NETWORK**  
[54] **PROCEDE DESTINE A INJECTER DE LA PUISSANCE ELECTRIQUE DANS UN RESEAU D'ALIMENTATION ELECTRIQUE**  
[72] BROMBACH, JOHANNES, DE  
[72] QUITMANN, ECKARD, DE  
[71] WOBLEN PROPERTIES GMBH, DE  
[85] 2020-07-21  
[86] 2019-01-31 (PCT/EP2019/052377)  
[87] (WO2019/149818)  
[30] DE (10 2018 102 224.7) 2018-02-01

[21] **3,089,180**  
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) A61K 9/19 (2006.01) A61P 25/00 (2006.01) A61P 43/00 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION, PACKAGE, AND METHOD FOR PRODUCING THE SAME**  
[54] **COMPOSITION PHARMACEUTIQUE, EMBALLAGE ET SON PROCEDE DE FABRICATION**  
[72] HIGUCHI, MINE, JP  
[71] SEIKAGAKU CORPORATION, JP  
[85] 2020-07-21  
[86] 2019-02-27 (PCT/JP2019/007437)  
[87] (WO2019/167983)  
[30] JP (2018-035884) 2018-02-28

[21] **3,089,181**  
[13] A1

[51] **Int.Cl. G06T 9/40 (2006.01) G06T 17/00 (2006.01)**  
[25] EN  
[54] **THREE-DIMENSIONAL DATA ENCODING METHOD, THREE-DIMENSIONAL DATA DECODING METHOD, THREE-DIMENSIONAL DATA ENCODING DEVICE, AND THREE-DIMENSIONAL DATA DECODING DEVICE**  
[54] **PROCEDE DE CODAGE DE DONNEES TRIDIMENSIONNELLES, PROCEDE DE DECODAGE DE DONNEES TRIDIMENSIONNELLES, DISPOSITIF DE CODAGE DE DONNEES TRIDIMENSIONNELLES ET DISPOSITIF DE DECODAGE DE DONNEES TRIDIMENSIONNELLES**  
[72] SUGIO, TOSHIYASU, JP  
[72] KOYAMA, TATSUYA, JP  
[72] WANG, CHI, SG  
[72] LASANG, PONGSAK, SG  
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US  
[85] 2020-07-21  
[86] 2019-01-24 (PCT/JP2019/002252)  
[87] (WO2019/146691)  
[30] US (62/622,337) 2018-01-26

[21] **3,089,182**  
[13] A1

[51] **Int.Cl. E06B 3/66 (2006.01)**  
[25] EN  
[54] **ASYMMETRICAL VACUUM-INSULATED GLAZING UNIT**  
[54] **UNITE DE VITRAGE ISOLANT SOUS VIDE ASYMETRIQUE**  
[72] SCHNEIDER, PIERRE, FR  
[72] BEN TRAD, ABDERRAZEK, BE  
[72] JEANFILS, JULIEN, BE  
[71] AGC GLASS EUROPE, BE  
[71] ASahi GLASS COMPANY, JP  
[71] AGC FLAT GLASS NORTH AMERICA INC., US  
[71] AGC VIDROS DO BRASIL LTDA, BR  
[85] 2020-07-21  
[86] 2019-01-23 (PCT/EP2019/051573)  
[87] (WO2019/145332)  
[30] EP (18152945.4) 2018-01-23

[21] **3,089,183**  
[13] A1

[51] **Int.Cl. C12M 3/00 (2006.01) C12M 1/00 (2006.01) C12N 5/071 (2010.01)**  
[25] EN  
[54] **CELL CULTURE MODULE**  
[54] **MODULE DE CULTURE CELLULAIRE**  
[72] HAGIHARA, MASAHICO, JP  
[72] HARADA, TAKASHI, JP  
[72] MATSUBAYASHI, AKIHIRO, JP  
[72] FUSE, SHINSAKU, JP  
[71] UBE INDUSTRIES, LTD., JP  
[85] 2020-07-21  
[86] 2019-01-24 (PCT/JP2019/002375)  
[87] (WO2019/146732)  
[30] JP (2018-010105) 2018-01-24

[21] **3,089,184**  
[13] A1

[51] **Int.Cl. H01Q 9/04 (2006.01) H01Q 19/28 (2006.01)**  
[25] EN  
[54] **ANTENNA DEVICE**  
[54] **DISPOSITIF D'ANTENNE**  
[72] POPUGAEV, ALEXANDER, DE  
[72] WANSCH, RAINER, DE  
[72] TESSEMA, MENGISTU, DE  
[71] FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FOERSCHUNG E.V., DE  
[85] 2020-07-21  
[86] 2019-01-31 (PCT/EP2019/052383)  
[87] (WO2019/149823)  
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[25] EN  
[54] **FLUID SEPARATION MEMBRANE MEMBRANE DE SEPARATION DE FLUIDES**  
[72] TANAKA, KENTARO, JP  
[72] YAMASHITA, YUKI, JP  
[72] KONDO, DAI, JP  
[72] TAKEUCHI, KOSAKU, JP  
[72] MIHARA, TAKAAKI, JP  
[72] HORIGUCHI, TOMOYUKI, JP  
[71] TORAY INDUSTRIES, INC., JP  
[85] 2020-07-21  
[86] 2019-02-19 (PCT/JP2019/006148)  
[87] (WO2019/176474)  
[30] JP (2018-047502) 2018-03-15

[21] **3,089,187**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61P 25/00 (2006.01)**  
[25] EN  
[54] **LACTOBACILLUS PLANTARUM KBL396 STRAIN AND USE THEREOF**  
[54] **SOUICHE DE LACTOBACILLUS PLANTARUM KBL396 ET SON UTILISATION**  
[72] CHOI, YONGBIN, KR  
[72] KIM, JISOO, KR  
[72] LEE, JUNE-CHUL, KR  
[72] KO, GWANG PYO, KR  
[72] NAM, TAE-WOOK, KR  
[72] KIM, JUN-HYEONG, KR  
[72] CHO, BO-RAM, KR  
[71] KOBIO LABS, INC, KR  
[85] 2020-07-21  
[86] 2019-02-07 (PCT/KR2019/001525)  
[87] (WO2019/151843)

[21] **3,089,188**  
[13] A1

[51] **Int.Cl. H02K 15/06 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR PRE-ASSEMBLING WINDING SETS OF A WINDING BAR FOR ELECTRIC MACHINE STATOR OR ROTOR**  
[54] **APPAREIL ET PROCEDE DE PRE-ASSEMBLAGE D'ENSEMBLES D'ENROULEMENT D'UNE BARRE D'ENROULEMENT POUR STATOR OU ROTOR DE MACHINE ELECTRIQUE**  
[72] RUGGIERI, GIOVANNI, IT  
[72] TANCREDI, SERGIO, IT  
[72] MICUCCI, MAURILIO, IT  
[72] RANALLI, GIUSEPPE, IT  
[71] TECNOMATIC S.P.A., IT  
[85] 2020-07-21  
[86] 2019-04-19 (PCT/IB2019/053273)  
[87] (WO2019/207448)  
[30] IT (102018000004780) 2018-04-23

[21] **3,089,189**  
[13] A1

[51] **Int.Cl. A61G 7/057 (2006.01) A47C 27/10 (2006.01)**  
[25] EN  
[54] **SUPPORT APPARATUS AND METHOD WITH SHEAR RELIEF**  
[54] **APPAREIL DE SUPPORT ET PROCEDE AVEC DETENTE DE CISAILLEMENT**  
[72] ZWETTLER, CHRIS JAMES, US  
[72] BAUMHARDT, RICH, US  
[72] HANZLIK, JASON, US  
[72] ALBRECHT, JIM, US  
[71] THINAIR SURFACES LLC, US  
[85] 2020-07-21  
[86] 2018-01-24 (PCT/US2018/015095)  
[87] (WO2019/147236)

[21] **3,089,191**  
[13] A1

[51] **Int.Cl. F04B 9/133 (2006.01) F04B 27/02 (2006.01) F04B 53/02 (2006.01) F04B 53/14 (2006.01) F04B 53/22 (2006.01)**  
[25] EN  
[54] **COMPRESSOR AND METHOD FOR COMPRESSING A WORKING MEDIUM**  
[54] **COMPRESSEUR ET PROCEDE POUR COMPRIMER UN FLUIDE DE TRAVAIL**  
[72] ADLER, ROBERT, AT  
[72] FAHRTHOFER, GEORG, AT  
[72] GRUBER, SARAH, AT  
[72] NAGL, CHRISTOPH, AT  
[72] RASCH, MARKUS, AT  
[72] STEPHAN, MARKUS, AT  
[72] WILLIG, HENNING, DE  
[72] HIMMELSTEIN, RENE, DE  
[71] MAXIMATOR GMBH, DE  
[85] 2020-07-21  
[86] 2019-01-23 (PCT/EP2019/051624)  
[87] (WO2019/145357)  
[30] EP (18152932.2) 2018-01-23

[21] **3,089,192**  
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 56/00 (2009.01) H04W 72/04 (2009.01) H04W 74/00 (2009.01)**  
[25] EN  
[54] **METHOD AND EQUIPMENT FOR DETERMINING ASSOCIATION PERIOD FOR SYNCHRONIZATION SIGNAL BLOCKS**  
[54] **PROCEDE ET EQUIPEMENT PERMETTANT DE DETERMINER UNE PERIODE D'ASSOCIATION POUR DES BLOCS DE SIGNAL DE SYNCHRONISATION**  
[72] XIONG, QI, CN  
[72] YU, BIN, CN  
[72] QIAN, CHEN, CN  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2020-07-21  
[86] 2019-03-26 (PCT/KR2019/003483)  
[87] (WO2019/194448)  
[30] CN (201810284652.0) 2018-04-02

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[51] **Int.Cl. E21B 43/117 (2006.01) E21B 43/1185 (2006.01)**  
[25] EN  
[54] **DIRECT CONNECTING GUN ASSEMBLIES FOR DRILLING WELL PERFORMATIONS**  
[54] **RACCORDEMENT DIRECT D'ENSEMBLES DE CANONS PERMETTANT DE FORER DES PERFORATIONS DE PUIITS**  
[72] GOYENECHÉ, SERGIO F., US  
[71] GOYENECHÉ, SERGIO F., US  
[85] 2020-07-21  
[86] 2018-12-30 (PCT/US2018/068087)  
[87] (WO2019/147385)  
[30] US (15/881,084) 2018-01-26

[21] **3,089,194**  
[13] A1

[51] **Int.Cl. F04C 14/24 (2006.01) F01M 1/16 (2006.01) F04C 2/344 (2006.01) F04C 14/28 (2006.01) F16N 13/20 (2006.01) F16N 23/00 (2006.01)**  
[25] EN  
[54] **PANIC VALVE INTEGRATED IN PIVOT PIN OF PUMP**  
[54] **SOUPAPE ANTI-PANIQUE INTEGREE DANS UN PIVOT DE POMPE**  
[72] ZUBEIDAT, ABDALHAMEED, DE  
[72] ELGAMAL, HAYTHAM, DE  
[72] KUTZER, HANS PETER, DE  
[71] STACKPOLE INTERNATIONAL ENGINEERED PRODUCTS, LTD., CA  
[85] 2020-07-21  
[86] 2020-01-24 (PCT/IB2020/050576)  
[87] (WO2020/157618)  
[30] US (62/799,449) 2019-01-31

[21] **3,089,195**  
[13] A1

[51] **Int.Cl. E21B 33/127 (2006.01) E21B 33/14 (2006.01) E21B 43/10 (2006.01)**  
[25] EN  
[54] **COMPLETION METHOD AND COMPLETION SYSTEM**  
[54] **PROCEDE ET SYSTEME DE COMPLETION**  
[72] KRÆMER, JON, CH  
[71] WELLTEC OILFIELD SOLUTIONS AG, CH  
[85] 2020-07-21  
[86] 2019-02-01 (PCT/EP2019/052485)  
[87] (WO2019/149879)  
[30] EP (18154968.4) 2018-02-02

[21] **3,089,197**  
[13] A1

[51] **Int.Cl. A61B 50/33 (2016.01) A47B 88/403 (2017.01) A47B 88/407 (2017.01) A61L 2/04 (2006.01) A61L 2/18 (2006.01) A61L 2/20 (2006.01)**  
[25] EN  
[54] **MEDICAL STERILIZATION AND STORAGE CABINET WITH MULTIDIRECTIONAL ACCESS**  
[54] **ARMOIRE MEDICALE DE STERILISATION ET DE STOCKAGE A ACCES MULTIDIRECTIONNEL**  
[72] LUCIER, MICHAEL J., US  
[72] ALLEN, KRAIG H., US  
[71] SLYDER TRAY LLC, US  
[85] 2020-07-21  
[86] 2019-01-02 (PCT/US2019/012052)  
[87] (WO2019/136067)  
[30] US (62/613,290) 2018-01-03  
[30] US (16/236,769) 2018-12-31

[21] **3,089,198**  
[13] A1

[51] **Int.Cl. A61B 6/03 (2006.01) A61B 6/00 (2006.01) A61B 6/12 (2006.01) G01T 1/164 (2006.01) G01T 1/29 (2006.01) A61B 6/06 (2006.01)**  
[25] EN  
[54] **IMAGING DEVICE, PROCESS OF MANUFACTURING SUCH A DEVICE AND VISUALIZATION METHOD**  
[54] **DISPOSITIF D'IMAGERIE, PROCEDE DE FABRICATION D'UN TEL DISPOSITIF ET PROCEDE DE VISUALISATION**  
[72] NAHUM, URI, CH  
[72] SEPPI, CARLO, CH  
[72] VON NIEDERHAUSERN, PETER, CH  
[72] PEZOLD, SIMON, DE  
[72] HAERLE, STEPHAN, CH  
[72] CATTIN, PHILIPPE, CH  
[71] UNIVERSITÄT BASEL, CH  
[85] 2020-07-21  
[86] 2019-01-25 (PCT/EP2019/051828)  
[87] (WO2019/145463)  
[30] CH (00089/18) 2018-01-25

[21] **3,089,199**  
[13] A1

[51] **Int.Cl. G01B 11/00 (2006.01) G01B 11/16 (2006.01)**  
[25] EN  
[54] **METHOD OF AND APPARATUS FOR MONITORING POSITIONS ON AN OBJECT**  
[54] **PROCEDE ET APPAREIL DE SURVEILLANCE DE POSITIONS SUR UN OBJET**  
[72] VAN WEEREN, DENNIS, NL  
[72] JONGSMA, ARNOUD MARC, NL  
[72] SEIBERT, JOACHIM ULRICH, NL  
[71] FNV IP B.V., NL  
[85] 2020-07-21  
[86] 2019-01-22 (PCT/NL2019/050035)  
[87] (WO2019/143249)  
[30] NL (2020304) 2018-01-22

[21] **3,089,200**  
[13] A1

[51] **Int.Cl. G06T 7/30 (2017.01) G06T 7/33 (2017.01) G06T 7/38 (2017.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR RAPID ALIGNMENT OF DIGITAL IMAGERY DATASETS TO MODELS OF STRUCTURES**  
[54] **SYSTEMES ET PROCEDES D'ALIGNEMENT RAPIDE D'ENSEMBLES DE DONNEES D'IMAGERIE NUMERIQUE SUR DES MODELES DE STRUCTURES**  
[72] MELENDEZ, ANGEL GUIJARRO, ES  
[72] FERNANDEZ, JAVIER DEL RIO, ES  
[72] COBO, ANTONIO GODINO, ES  
[71] GEOMNI, INC., US  
[85] 2020-07-21  
[86] 2019-01-25 (PCT/US2019/015153)  
[87] (WO2019/147938)  
[30] US (62/621,746) 2018-01-25

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[21] **3,089,201**  
[13] A1

[51] **Int.Cl. G01G 19/08 (2006.01) G01B 3/10 (2020.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR MOBILE DIMENSIONING AND WEIGHING**  
[54] **SYSTEMES ET PROCEDES DE DIMENSIONNEMENT ET DE PESAGE MOBILES**  
[72] CAMPBELL, STEWART, US  
[72] HINES, PAUL STEVEN, US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2020-07-21  
[86] 2019-01-15 (PCT/US2019/013580)  
[87] (WO2019/152179)  
[30] US (15/885,184) 2018-01-31

[21] **3,089,202**  
[13] A1

[51] **Int.Cl. A41D 13/05 (2006.01) A41D 13/08 (2006.01) A44B 11/22 (2006.01)**  
[25] EN  
[54] **GUARD**  
[54] **ATELLE**  
[72] HEIM, EBERHARD, DE  
[71] LEKISPORT AG, CH  
[85] 2020-07-21  
[86] 2019-02-05 (PCT/EP2019/052694)  
[87] (WO2019/162076)  
[30] CH (00228/18) 2018-02-26

[21] **3,089,203**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**  
[25] EN  
[54] **APPARATUS, METHODS AND ARTICLES OF MANUFACTURE FOR MESSAGING USING MESSAGE LEVEL SECURITY**  
[54] **APPAREILS, PROCEDES ET ARTICLES MANUFACTURES POUR MESSAGERIE UTILISANT UNE SECURITE AU NIVEAU MESSAGE**  
[72] WU, YIFAN, US  
[72] WEST, RICKY, US  
[71] SENSUS SPECTRUM, LLC, US  
[85] 2020-07-21  
[86] 2019-01-15 (PCT/US2019/013652)  
[87] (WO2019/147436)  
[30] US (15/881,151) 2018-01-26

[21] **3,089,205**  
[13] A1

[51] **Int.Cl. G01B 11/00 (2006.01) G01B 11/16 (2006.01) G01C 11/06 (2006.01) G01C 15/04 (2006.01) G01S 1/70 (2006.01) G01S 5/16 (2006.01)**  
[25] EN  
[54] **SURVEYING INSTRUMENT FOR AND SURVEYING METHOD OF SURVEYING REFERENCE POINTS**  
[54] **INSTRUMENT D'ARPENTAGE ET PROCEDE D'ARPENTAGE PERMETTANT D'ARPEMENTER DES POINTS DE REFERENCE**  
[72] VAN WEEREN, DENNIS, NL  
[72] JONGSMA, ARNOUD MARC, NL  
[72] SEIBERT, JOACHIM ULRICH, NL  
[72] DE BIJL, MARIO JOSEPHUS, NL  
[71] FNV IP B.V., NL  
[85] 2020-07-21  
[86] 2019-01-22 (PCT/NL2019/050037)  
[87] (WO2019/143250)  
[30] NL (2020304) 2018-01-22  
[30] NL (2021199) 2018-06-28

[21] **3,089,206**  
[13] A1

[51] **Int.Cl. G06F 21/00 (2013.01) G06Q 20/36 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01) G06F 21/60 (2013.01) G06F 21/62 (2013.01)**  
[25] EN  
[54] **CRYPTOCURRENCY WALLET AND CRYPTOCURRENCY ACCOUNT MANAGEMENT**  
[54] **PORTEFEUILLE DE CRYPTOMONNAIE ET GESTION DE COMPTE DE CRYPTOMONNAIE**  
[72] LAMESH, LIOR, IL  
[71] GK8 LTD, IL  
[85] 2020-07-21  
[86] 2019-02-14 (PCT/IL2019/050181)  
[87] (WO2019/159172)  
[30] US (62/630,923) 2018-02-15

[21] **3,089,207**  
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01) B01D 39/18 (2006.01)**  
[25] EN  
[54] **FILTER MEDIA CONFIGURATIONS**  
[54] **CONFIGURATIONS DE COUCHE FILTRANTE**  
[72] RAHMATHULLAH, AFLAL, US  
[72] DALLAS, ANDREW J., US  
[72] TUCKER, BRIAN R., US  
[72] ADAMEK, DANIEL E., US  
[72] WAY, PAUL A., US  
[72] BETCHER, SCOTT A., US  
[72] KAPOOR, VIJAY K., US  
[72] MARCKS, COLTER A., US  
[72] ROSSITER, WILLIAM S., US  
[72] WINTERS, TIMOTHY O., US  
[72] JODI, WIJADI, US  
[72] HAUSER, BRADLY G., US  
[72] MORAVEC, DAVIS B., US  
[72] GOERTZ, MATTHEW P., US  
[72] SONTAG, STEPHEN K., US  
[72] RAJGARHIA, STUTI S., GB  
[72] CHRIST, CHARLES S., US  
[72] BLOCK, JOSEPH M., US  
[71] DONALDSON COMPANY, INC., US  
[85] 2020-07-21  
[86] 2019-02-14 (PCT/US2019/018080)  
[87] (WO2019/161108)  
[30] US (62/631,402) 2018-02-15

[21] **3,089,208**  
[13] A1

[51] **Int.Cl. E03D 5/10 (2006.01)**  
[25] EN  
[54] **PROGRAMMABLE TOILET FLUSH INITIATING, MONITORING AND MANAGEMENT SYSTEM AND METHOD THEREOF**  
[54] **SYSTEME PROGRAMMABLE D'INITIATION, DE SURVEILLANCE ET DE GESTION DE CHASSE D'EAU DE TOILETTES ET PROCEDE ASSOCIE**  
[72] GRODY, CHARLES DYLAN, US  
[71] HYDRAZE, INC., US  
[85] 2020-07-21  
[86] 2019-01-18 (PCT/US2019/014115)  
[87] (WO2019/143879)  
[30] US (62/620,425) 2018-01-22

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[51] **Int.Cl. G06F 12/0806 (2016.01) G06F 12/0802 (2016.01) G06F 12/0868 (2016.01) G06F 12/121 (2016.01) G06F 12/122 (2016.01)**

[25] EN  
[54] **CACHE COHERENCY ENGINE**  
[54] **MOTEUR DE COHERENCE DE MEMOIRE CACHE**

[72] RAMAMURTHY, HARI, US  
[72] VENKATESH, CHANDAN, US  
[72] GUGGULOTU, KRISHNA, US  
[72] THEKKEYIL, RAGEESH, US  
[71] HOME DEPOT INTERNATIONAL, INC., US  
[85] 2020-07-21  
[86] 2019-01-18 (PCT/US2019/014296)  
[87] (WO2019/147498)  
[30] US (15/877,945) 2018-01-23

[21] **3,089,210**  
[13] A1

[51] **Int.Cl. G10H 3/24 (2006.01) G10H 1/32 (2006.01)**

[25] EN  
[54] **SOUND ENHANCING ACCESSORY FOR A MUSICAL INSTRUMENT**  
[54] **ACCESSOIRE D'AMELIORATION DE SON POUR INSTRUMENT DE MUSIQUE**

[72] COYLE, MICHAEL ROBERT, CA  
[71] TONIK SOUND LIMITED, GB  
[71] COYLE, MICHAEL ROBERT, CA  
[85] 2020-07-22  
[86] 2019-01-17 (PCT/CA2019/000004)  
[87] (WO2019/144216)  
[30] GB (1801332.6) 2018-01-26

[21] **3,089,211**  
[13] A1

[51] **Int.Cl. C07K 16/36 (2006.01) A61K 39/395 (2006.01) A61P 7/02 (2006.01)**

[25] EN  
[54] **METHODS OF TREATING INITIAL EPISODE OF TTP WITH IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS**  
[54] **METHODES DE TRAITEMENT D'UN EPISODE INITIAL DE TTP AVEC DES DOMAINES VARIABLES UNIQUES D'IMMUNOGLOBULINE**

[72] CALLEWAERT, FILIP, BE  
[72] DE WINTER, HILDE, BE  
[71] ABLYNX NV, BE  
[85] 2020-07-21  
[86] 2019-02-06 (PCT/EP2019/052929)  
[87] (WO2019/154867)  
[30] US (62/627,082) 2018-02-06  
[30] US (62/662,381) 2018-04-25

[21] **3,089,212**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) C12Q 1/54 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G05B 17/02 (2006.01)**

[25] EN  
[54] **SYSTEMS, DEVICES, AND METHODS TO COMPENSATE FOR TEMPERATURE EFFECTS ON SENSORS**  
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES POUR COMPENSER DES EFFETS DE TEMPERATURE SUR DES CAPTEURS**

[72] HARLEY-TROCHIMCZYK, ANNA CLAIRE, US  
[72] BOHM, SEBASTIAN, US  
[72] MA, RUI, US  
[72] SHETH, DISHA B., US  
[72] SHI, MINGLIAN, US  
[72] TURKSOY, KAMURAN, US  
[72] CRABTREE, VINCENT P., US  
[72] BHAVARAJU, NARESH, US  
[72] VOGEL, MATT, US  
[72] REIHMAN, ELI, US  
[72] WANG, LIANG, US  
[72] DERENZY, DAVID, US  
[72] MOORE, MICHAEL L., US  
[72] REINHARDT, ANDREW M., US  
[72] KELLER, DAVID A., US  
[72] CLARK, BECKY L., US  
[71] DEXCOM, INC., US  
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[87] (WO2019/147582)  
[30] US (62/620,775) 2018-01-23

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[13] A1

[51] **Int.Cl. H01F 13/00 (2006.01) E21B 47/00 (2012.01) E21B 47/01 (2012.01) E21B 47/12 (2012.01)**

[25] EN  
[54] **DEGAUSSING FERROUS MATERIAL WITHIN DRILLING FLUIDS**  
[54] **DEMAGNETISATION DE MATERIAU FERREUX A L'INTERIEUR DE FLUIDES DE FORAGE**

[72] RAMJIT, AVINASH L., US  
[72] BOWEN, ALEXANDER B., US  
[71] CONOCOPHILLIPS COMPANY, US  
[85] 2020-07-21  
[86] 2019-01-22 (PCT/US2019/014582)  
[87] (WO2019/144133)  
[30] US (62/620,187) 2018-01-22  
[30] US (16/254,186) 2019-01-22

[21] **3,089,215**  
[13] A1

[51] **Int.Cl. F16L 55/00 (2006.01) G01M 99/00 (2011.01) B62D 57/00 (2006.01) G01B 21/08 (2006.01) G01N 21/952 (2006.01) G01N 23/00 (2006.01) G01N 27/82 (2006.01) G01N 27/90 (2006.01) G01N 29/265 (2006.01)**

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[54] **PIPE CRAWLER**  
[54] **CHENILLE DE TUYAU**

[72] LISNYAK, GENNADIY, CA  
[72] GUYVORONSKIY, VALERIY, CA  
[71] LISNYAK, GENNADIY, CA  
[71] GUYVORONSKIY, VALERIY, CA  
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[51] **Int.Cl. F28D 9/00 (2006.01) F24F 12/00 (2006.01) F28F 21/00 (2006.01) F28F 27/00 (2006.01)**

[25] EN

[54] **SYSTEM, COMPONENTS, AND METHODS FOR AIR, HEAT, AND HUMIDITY EXCHANGER**

[54] **SYSTEME, ELEMENTS ET PROCEDES DESTINES A UN ECHANGEUR D'AIR, DE CHALEUR ET D'HUMIDITE**

[72] EPLEE, DUSTIN, US

[71] ENERGY WALL LLC, US

[85] 2020-07-21

[86] 2019-01-22 (PCT/US2019/014622)

[87] (WO2019/144150)

[30] US (62/620,386) 2018-01-22

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[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 18/14 (2006.01) A61M 5/158 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR ENDOVASCULAR ABLATION OF A SPLANCHNIC NERVE**

[54] **METHODES ET DISPOSITIFS POUR L'ABLATION ENDOVASCULAIRE D'UN NERF SPLANCHNIQUE**

[72] PANESCU, DORIN, US

[72] WU, ANDREW, US

[72] ENGELMAN, ZOAR JACOB, US

[72] GELFAND, MARK, US

[72] LEUNG, MARK S., US

[71] AXON THERAPIES, INC., US

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[86] 2019-01-28 (PCT/US2019/015400)

[87] (WO2019/148094)

[30] US (62/622,407) 2018-01-26

[30] US (62/625,195) 2018-02-01

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[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 5/00 (2006.01) A61B 17/68 (2006.01) A61F 2/32 (2006.01)**

[25] EN

[54] **RANGE OF MOTION EVALUATION IN ORTHOPEDIC SURGERY**

[54] **EVALUATION D'AMPLITUDE DES MOUVEMENTS EN CHIRURGIE ORTHOPEDIQUE**

[72] COUTURE, PIERRE, CA

[71] ORTHOSOFT ULC, CA

[85] 2020-07-22

[86] 2019-01-31 (PCT/CA2019/050119)

[87] (WO2019/148281)

[30] US (62/625,706) 2018-02-02

[30] US (62/697,220) 2018-07-12

[30] US (62/697,227) 2018-07-12

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[13] A1

[51] **Int.Cl. F23N 5/10 (2006.01) F01D 17/08 (2006.01) F01D 21/00 (2006.01) F02C 9/28 (2006.01)**

[25] EN

[54] **ANALYSIS METHOD FOR A GAS TURBINE**

[54] **PROCEDE D'ANALYSE POUR TURBINE A GAZ**

[72] ZHANG, YU, GB

[72] LATIMER, ANTHONY, GB

[72] MARTINEZ GARCIA, MIGUEL, GB

[71] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2020-07-21

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[51] **Int.Cl. E21B 44/00 (2006.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **AUTOMATED CONTROL OF HYDRAULIC FRACTURING PUMPS**

[54] **COMMANDE AUTOMATISEE DE POMPES DE FRACTURATION HYDRAULIQUE**

[72] MU, NAN, US

[72] MI, BAO, US

[72] BAGULAYAN, AMAL, US

[72] MATTHEWS, JAMES, US

[72] KAJITA, MARCOS SUGURU, US

[72] TAYLOR, ALEXANDER TANNER, US

[72] BOBADILLA LARIOS, MANUEL ALFONSO, US

[72] MCKINNEY, JOSEPH, US

[71] SCHLUMBERGER CANADA LIMITED, CA

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[87] (WO2019/147601)

[30] US (62/620,704) 2018-01-23

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[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SPATIAL ENCODING AND FEATURE GENERATORS FOR ENHANCING INFORMATION EXTRACTION**

[54] **SYSTEME ET PROCEDE DE CODAGE SPATIAL ET DE GENERATEURS DE CARACTERISTIQUES POUR AMELIORER L'EXTRACTION D'INFORMATIONS**

[72] RIMCHALA, THARATHORN, US

[71] INTUIT INC., US

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[51] **Int.Cl. F02C 9/16 (2006.01) F02C 9/28 (2006.01) F02C 9/50 (2006.01)**

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[54] **CONTROLLER AND METHOD**

[54] **DISPOSITIF DE COMMANDE ET PROCEDE**

[72] PANOV, VILI, GB

[71] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2020-07-21

[86] 2019-02-13 (PCT/EP2019/053576)

[87] (WO2019/162168)

[30] EP (18158433.5) 2018-02-23

[21] **3,089,225**  
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01) A61K 36/185 (2006.01)**

[25] EN

[54] **EXTRACTION OF CANNABINOIDS FROM CANNABIS**

[54] **EXTRACTION DE CANNABINOIDES A PARTIR DU CANNABIS**

[72] GEMMITI, CLAUDIO, CA

[72] PLATT, ILANA DEBORAH, CA

[71] CANNTRUST INC., CA

[71] SINGLE DOSE SOLUTIONS INC., CA

[85] 2020-07-22

[86] 2019-02-06 (PCT/CA2019/050157)

[87] (WO2019/153083)

[30] US (62/629,363) 2018-02-12

[21] **3,089,226**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/7068 (2006.01) A61P 7/02 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR REDUCING THROMBOCYTOPENIA VIA THE ADMINISTRATION OF PLINABULIN**

[54] **COMPOSITION ET PROCEDE POUR REDUIRE LA THROMBOCYTOPENIE PAR L'ADMINISTRATION DE PLINABULINE**

[72] HUANG, LAN, US

[72] MOHANLAL, RAMON, US

[72] LLOYD, GEORGE KENNETH, US

[71] BEYONDSRING PHARMACEUTICALS, INC., US

[85] 2020-07-21

[86] 2019-01-23 (PCT/US2019/014673)

[87] (WO2019/147615)

[30] US (62/621,543) 2018-01-24

[30] US (62/718,814) 2018-08-14

[21] **3,089,228**  
[13] A1

[51] **Int.Cl. G01N 21/00 (2006.01) G01N 21/17 (2006.01) G02B 7/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR EXTENDING DEPTH OF FIELD DURING FLUORESCENCE MICROSCOPY IMAGING**

[54] **PROCEDE ET APPAREIL POUR ETENDRE LA PROFONDEUR DE CHAMP PENDANT UNE IMAGERIE PAR MICROSCOPIE A FLUORESCENCE**

[72] FEREIDOUNI, FARZAD, US

[72] LEVENSON, RICHARD M., US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2020-07-21

[86] 2019-01-28 (PCT/US2019/015485)

[87] (WO2019/148142)

[30] US (62/623,320) 2018-01-29

[21] **3,089,230**  
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **TRISPECIFIC ANTIGEN BINDING PROTEINS**

[54] **PROTEINES DE LIAISON A UN ANTIGENE TRISPECIFIQUES**

[72] BORRAS, LEONARDO, CH

[72] ESCHER, DOMINIK, CH

[72] LEISNER, CHRISTIAN VALDEMAR VINGE, CH

[72] SCHEIFELE, FABIAN, CH

[72] SCHLEIER, THOMAS, CH

[72] RICHLER, PHILIPP ROBERT, CH

[71] CDR-LIFE AG, CH

[85] 2020-07-21

[86] 2019-03-01 (PCT/EP2019/055207)

[87] (WO2019/166650)

[30] US (62/637,470) 2018-03-02

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[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61K 39/395 (2006.01) C07H 21/04 (2006.01) C07K 14/82 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **MDA-7/IL SECRETORY VARIANTS AND METHODS OF USE**

[54] **VARIANTS SECRETOIRES DE MDA-7/IL ET PROCEDES D'UTILISATION**

[72] FISHER, PAUL B., US

[72] MENEZES, MITCHELL E., US

[72] BHOOPATHI, PRAVEEN, US

[72] DAS, SWADESH K., US

[72] EMDAD, LUNI, US

[72] SARKAR, DEVANAND, US

[72] PRADHAN, ANJAN K., US

[72] WANG, XIANG-YANG, US

[71] VIRGINIA COMMONWEALTH UNIVERSITY, US

[71] FISHER, PAUL B., US

[71] MENEZES, MITCHELL E., US

[71] BHOOPATHI, PRAVEEN, US

[71] DAS, SWADESH K., US

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[71] PRADHAN, ANJAN K., US

[71] WANG, XIANG-YANG, US

[85] 2020-07-21

[86] 2019-01-23 (PCT/US2019/014686)

[87] (WO2019/147623)

[30] US (62/620,649) 2018-01-23

[30] US (62/620,673) 2018-01-23

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[13] A1

[51] **Int.Cl. B65B 23/20 (2006.01) B65B 11/02 (2006.01) B65D 81/02 (2006.01) B65D 85/46 (2006.01)**

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[54] **SLEEVE PACKAGING**  
[54] **EMBALLAGE A MANCHON**  
[72] COBLE, AMANDA WORLEY, US  
[72] JOHNSON, JAMES R., US  
[72] GRINSTED, GARY A., US  
[71] ARMSTRONG WORLD INDUSTRIES, INC., US  
[85] 2020-07-21  
[86] 2019-01-24 (PCT/US2019/014876)  
[87] (WO2019/147752)  
[30] US (62/621,358) 2018-01-24

[21] **3,089,233**  
[13] A1

[51] **Int.Cl. C09K 5/04 (2006.01)**

[25] EN  
[54] **HEAT TRANSFER COMPOSITIONS, METHODS, AND SYSTEMS**  
[54] **COMPOSITIONS, PROCEDES ET SYSTEMES DE TRANSFERT DE CHALEUR**  
[72] YANA MOTTA, SAMUEL F., US  
[72] SETHI, ANKIT, US  
[72] ZOU, YANG, US  
[71] HONEYWELL INTERNATIONAL INC., US  
[85] 2020-07-21  
[86] 2019-01-30 (PCT/US2019/015884)  
[87] (WO2019/152541)  
[30] US (62/623,887) 2018-01-30  
[30] US (62/631,093) 2018-02-15

[21] **3,089,234**  
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**

[25] EN  
[54] **COMPUTING SYSTEM PROVIDING CLOUD-BASED USER PROFILE MANAGEMENT FOR VIRTUAL SESSIONS AND RELATED METHODS**  
[54] **SYSTEME INFORMATIQUE FOURNISSANT UNE GESTION DE PROFIL UTILISATEUR EN NUAGE POUR DES SESSIONS VIRTUELLES ET PROCEDES ASSOCIES**  
[72] SINGLETON, LEO C., IV, US  
[72] GAHTORI, AVIJIT, US  
[71] CITRIX SYSTEMS, INC., US  
[85] 2020-07-21  
[86] 2019-01-29 (PCT/US2019/015508)  
[87] (WO2019/156843)  
[30] US (15/889,394) 2018-02-06

[21] **3,089,235**  
[13] A1

[51] **Int.Cl. B29C 35/08 (2006.01) C08F 2/48 (2006.01) E04F 15/00 (2006.01)**

[25] EN  
[54] **MULTIPURPOSE ULTRAVIOLET FLOOR CURING DEVICES**  
[54] **DISPOSITIFS DE DURCISSEMENT DE PLANCHER PAR ULTRAVIOLET A USAGES MULTIPLES**  
[72] DHILLON, MANJINDER SINGH, CA  
[72] RAMANAND, PRAKASH VALENTINO, CA  
[71] ANRAM HOLDINGS, CA  
[85] 2020-07-22  
[86] 2019-02-28 (PCT/CA2019/050238)  
[87] (WO2019/165550)  
[30] US (62/636,443) 2018-02-28

[21] **3,089,236**  
[13] A1

[51] **Int.Cl. A61K 31/34 (2006.01) A61P 31/04 (2006.01) C07D 498/08 (2006.01)**

[25] EN  
[54] **ANTIBACTERIAL COMPOUNDS, COMPOSITIONS THEREOF, AND METHODS USING SAME**  
[54] **COMPOSES ANTIBACTERIENS, COMPOSITIONS ASSOCIEES, ET LEURS METHODES D'UTILISATION**  
[72] BRADY, SEAN F., US  
[72] PEEK, JAMES, US  
[71] THE ROCKEFELLER UNIVERSITY, US  
[85] 2020-07-21  
[86] 2019-01-24 (PCT/US2019/014877)  
[87] (WO2019/147753)  
[30] US (62/621,160) 2018-01-24

[21] **3,089,237**  
[13] A1

[51] **Int.Cl. F41J 11/02 (2009.01) F41A 17/08 (2006.01) G01S 3/783 (2006.01) G01S 3/785 (2006.01)**

[25] EN  
[54] **WEAPON SAFETY SYSTEM**  
[54] **SYSTEME DE SECURITE POUR ARMES A FEU**  
[72] DELGADO ACARRETA, RAUL, ES  
[72] ROBLES PEREZ, RUBEN, ES  
[72] YAGO LOSCOS, ANDRES, ES  
[72] LORENTE ALGORA, DIEGO, ES  
[72] CUESTA ALVAREZ, JOSE, ES  
[71] RADE TECNOLOGIAS, S.L., ES  
[85] 2020-07-21  
[86] 2018-01-22 (PCT/ES2018/070050)  
[87] (WO2019/141885)

[21] **3,089,238**  
[13] A1

[51] **Int.Cl. A61K 31/444 (2006.01) A61P 1/08 (2006.01)**

[25] EN  
[54] **USE OF TRADIPITANT IN MOTION SICKNESS**  
[54] **UTILISATION DE TRADIPITANT DANS LE MAL DES TRANSPORTS**  
[72] POLYMERPOULOS, MIHAEL H., US  
[71] VANDA PHARMACEUTICALS INC., US  
[85] 2020-07-21  
[86] 2019-09-26 (PCT/US2019/053107)  
[87] (WO2020/069092)  
[30] US (62/737,992) 2018-09-28  
[30] US (62/874,927) 2019-07-16

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[13] A1

[51] **Int.Cl. A61K 31/553 (2006.01) A61K 9/00 (2006.01)**  
[25] EN  
[54] **CERTAIN (2S)-N-[(1S)-1-CYANO-2-PHENYLETHYL]-1,4-OXAZEPANE-2-CARBOXAMIDES FOR TREATING ANCA ASSOCIATED VASCULITIDES**  
[54] **CERTAINS (2S)-N-[(1S)-1-CYANO-2-PHENYLETHYL]-1,4-OXAZEPANE-2-CARBOXAMIDES POUR TRAITER LES VASCULARITES ASSOCIEES AUX ANCA**  
[72] DIPETRILLO, KEITH, US  
[72] FERNANDEZ, CARLOS, US  
[72] ZHANG, JIMIN, US  
[71] INSMED INCORPORATED, US  
[85] 2020-07-21  
[86] 2019-02-06 (PCT/US2019/016844)  
[87] (WO2019/157050)  
[30] US (62/627,408) 2018-02-07  
[30] US (62/694,318) 2018-07-05  
[30] US (62/772,956) 2018-11-29

[21] **3,089,241**  
[13] A1

[51] **Int.Cl. A61N 1/02 (2006.01) A61C 19/06 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR THE TREATMENT OF ORAL MALADIES USING ELECTRIC CURRENT**  
[54] **SYSTEMES ET PROCEDES POUR LE TRAITEMENT DE MALADIES BUCCALES A L'AIDE D'UN COURANT ELECTRIQUE**  
[72] NEMEH, ISSAM, US  
[72] LEIMKUEHLER, WILLIAM J., JR., US  
[72] CORNELIUS, STEVEN, US  
[72] MANDEL, DAVID, US  
[72] CORN, DAVID, US  
[71] BIOELECTRICS LLC, US  
[85] 2020-07-21  
[86] 2019-01-24 (PCT/US2019/014969)  
[87] (WO2019/147823)  
[30] US (62/621,099) 2018-01-24

[21] **3,089,242**  
[13] A1

[51] **Int.Cl. B23K 9/10 (2006.01)**  
[25] EN  
[54] **BIDIRECTIONAL 3-LEVEL CONVERTER FOR USE IN ENERGY STORAGE SYSTEM FOR WELDING GENERATOR**  
[54] **CONVERTISSEUR BIDIRECTIONNEL A TROIS NIVEAUX DESTINE A ETRE UTILISE DANS UN SYSTEME DE STOCKAGE D'ENERGIE POUR GENERATEUR DE SOUDAGE**  
[72] ULRICH, JAMES FRANK, US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2020-07-21  
[86] 2019-01-29 (PCT/US2019/015519)  
[87] (WO2019/152341)  
[30] US (62/623,660) 2018-01-30  
[30] US (16/259,229) 2019-01-28

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[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**  
[25] EN  
[54] **CRYSTAL FORM TARGETING CDK4/6 KINASE INHIBITOR**  
[54] **FORME CRISTALLINE CIBLANT UN INHIBITEUR DE KINASE CDK4/6**  
[72] FENG, YUZHEN, CN  
[72] FANG, LAN, CN  
[71] HAINAN XUANZHU PHARMA CO., LTD., CN  
[85] 2020-07-22  
[86] 2018-12-27 (PCT/CN2018/124418)  
[87] (WO2019/144759)  
[30] CN (201810084351.3) 2018-01-29

[21] **3,089,245**  
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/36 (2006.01)**  
[25] EN  
[54] **HIGH SOLIDS TOLERANT INVERT EMULSION FLUIDS**  
[54] **LIQUIDES D'EMULSION INVERSE TOLERANT AUX TENEURS ELEVEES EN MATIERES SOLIDES**  
[72] MAGHRABI, SHADAAB S., US  
[72] FANDEL, JOSEPH J., US  
[71] INGEVITY SOUTH CAROLINA, LLC, US  
[85] 2020-07-21  
[86] 2019-01-30 (PCT/US2019/015798)  
[87] (WO2019/152485)  
[30] US (62/623,689) 2018-01-30

[21] **3,089,246**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/20 (2006.01)**  
[25] EN  
[54] **ANTI-B7-H4 ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF AND PHARMACEUTICAL USE THEREOF**  
[54] **ANTICORPS ANTI-B7-H4, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION PHARMACEUTIQUE DE CELUI-CI**  
[72] BAO, RUDI, CN  
[72] HUA, HAIQING, CN  
[72] LIU, SUXIA, CN  
[72] ZHANG, FUJUN, CN  
[72] WANG, TING, CN  
[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN  
[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/CN2019/074397)  
[87] (WO2019/154315)  
[30] CN (201810142118.6) 2018-02-11



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[21] **3,089,247**  
[13] A1

[51] **Int.Cl. E21B 21/12 (2006.01) E21B 4/14 (2006.01) E21B 7/20 (2006.01) E21B 10/38 (2006.01) E21B 17/18 (2006.01) E02D 7/28 (2006.01)**

[25] EN

[54] **ARRANGEMENT AND METHOD FOR INSTALLING CASING**

[54] **AGENCEMENT ET PROCEDE D'INSTALLATION DE TUBAGE**

[72] KESKINIVA, MARKKU, FI

[71] MINCON NORDIC OY, FI

[85] 2020-07-21

[86] 2019-01-21 (PCT/FI2019/050043)

[87] (WO2019/145602)

[30] FI (20185061) 2018-01-23

[21] **3,089,248**  
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06F 21/60 (2013.01) H04L 29/06 (2006.01)**

[25] EN

[54] **FACILITATING ENTITY RESOLUTION VIA SECURE ENTITY RESOLUTION DATABASE**

[54] **FACILITATION DE LA RESOLUTION D'ENTITE PAR L'INTERMEDIAIRE D'UNE BASE DE DONNEES DE RESOLUTION D'ENTITE SECURISEE**

[72] JONES, GREGORY DEAN, US

[72] CYZIO, MAREK LUDOMIR, US

[72] WORRELL, AMY MICHELLE, US

[71] EQUIFAX INC., US

[85] 2020-07-21

[86] 2019-02-12 (PCT/US2019/017614)

[87] (WO2019/157491)

[30] US (62/629,376) 2018-02-12

[21] **3,089,249**  
[13] A1

[51] **Int.Cl. A47K 10/32 (2006.01) A47K 10/34 (2006.01) A47K 10/38 (2006.01)**

[25] EN

[54] **WIPE DISPENSING**

[54] **DISTRIBUTION DE LINGETTES**

[72] SHANAHAN, JOHN PATRICK, US

[72] KING, CHRISTOPHER HAROLD, US

[71] IONOGEN INC., US

[85] 2020-07-21

[86] 2019-01-30 (PCT/US2019/015809)

[87] (WO2019/152492)

[30] US (62/623,590) 2018-01-30

[21] **3,089,251**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN

[54] **VAPOUR PROVISION APPARATUS AND SYSTEMS**

[54] **APPAREIL ET SYSTEMES GENERATEURS DE VAPEUR**

[72] POTTER, MARK, GB

[72] TIPTON, WADE, GB

[72] HARRIS, WILLIAM, GB

[72] ROWE, CHRISTOPHER, GB

[72] DAVIES, JAMES, GB

[72] BOONZAIER, JAMES, GB

[72] DEVINE, CONOR, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2020-07-21

[86] 2019-01-08 (PCT/GB2019/050037)

[87] (WO2019/145672)

[30] GB (1801143.7) 2018-01-24

[21] **3,089,252**  
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01) B01D 39/18 (2006.01) B01D 39/20 (2006.01)**

[25] EN

[54] **SUBSTRATE TREATMENTS**

[54] **TRAITEMENTS DE SUBSTRAT**

[72] RAHMATHULLAH, AFLAL, US

[72] DALLAS, ANDREW J., US

[72] SONTAG, STEPHEN K., US

[72] HAUSER, BRADLY G., US

[72] MORAVEC, DAVIS B., US

[72] KAPOOR, VIJAY K., US

[72] GOERTZ, MATTHEW P., US

[72] TUMA, DANIEL L., US

[72] DAMMANN, WARREN E., US

[72] CRONIN, MICHAEL J., US

[72] MADSEN, MIKE J., US

[72] RAJGARHIA, STUTI S., US

[72] CHRIST, CHARLES S., US

[72] BLOCK, JOSEPH M., US

[71] DONALDSON COMPANY, INC., US

[85] 2020-07-21

[86] 2019-02-14 (PCT/US2019/018082)

[87] (WO2019/161110)

[30] US (62/631,386) 2018-02-15

[21] **3,089,253**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN

[54] **VAPOUR PROVISION SYSTEM**

[54] **SYSTEME DE FOURNITURE DE VAPEUR**

[72] POTTER, MARK, GB

[72] TIPTON, WADE, GB

[72] HARRIS, WILLIAM, GB

[72] ROWE, CHRISTOPHER, GB

[72] DAVIES, JAMES, GB

[72] BOONZAIER, JAMES, GB

[72] DEVINE, CONOR, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2020-07-21

[86] 2019-01-14 (PCT/GB2019/050089)

[87] (WO2019/145676)

[30] GB (1801145.2) 2018-01-24

[21] **3,089,254**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/85 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **BISPECIFIC ANTIBODY AND USES THEREOF**

[54] **ANTICORPS BISPECIFIQUE ET SES APPLICATIONS**

[72] ZHANG, WENJUN, CN

[72] CHEN, CUIJUAN, CN

[72] WEI, XUEMEI, CN

[72] LUO, TONGHUI, CN

[71] EXCELMAB INC., CN

[85] 2020-07-22

[86] 2019-01-07 (PCT/CN2019/070655)

[87] (WO2019/184549)

[30] CN (201810263832.0) 2018-03-27

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[21] **3,089,255**  
[13] A1

[51] **Int.Cl. G06F 21/60 (2013.01) G06F 21/31 (2013.01)**  
[25] EN  
[54] **VERIFICATION OF ACCESS TO SECURED ELECTRONIC RESOURCES**  
[54] **VERIFICATION D'ACCES A DES RESSOURCES ELECTRONIQUES SECURISEES**  
[72] ALLEN, KENNETH, US  
[71] EQUIFAX INC., US  
[85] 2020-07-21  
[86] 2019-01-31 (PCT/US2019/015962)  
[87] (WO2019/152592)  
[30] US (62/624,985) 2018-02-01

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[21] **3,089,256**  
[13] A1

[51] **Int.Cl. C07D 489/12 (2006.01) A61K 31/485 (2006.01) A61P 1/10 (2006.01) A61P 25/30 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **LONG-ACTING INJECTABLE FORMULATIONS AND CRYSTALLINE FORMS OF BUPRENORPHINE DERIVATIVES**  
[54] **FORMULATIONS INJECTABLES A ACTION PROLONGEE ET FORMES CRISTALLINES DE DERIVES DE BUPRENORPHINE**  
[72] LIN, TONG-HO, CN  
[72] WEN, YUNG-SHUN, CN  
[72] LIANG, JUI-WEI, CN  
[71] ALAR PHARMACEUTICALS INC., CN  
[85] 2020-07-22  
[86] 2019-05-10 (PCT/CN2019/086449)  
[87] (WO2019/214726)  
[30] US (62/670,714) 2018-05-11

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[21] **3,089,258**  
[13] A1

[51] **Int.Cl. A01G 7/06 (2006.01) A01N 37/04 (2006.01) A01N 37/10 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR INCREASING TOLERANCE TO ABIOTIC STRESS IN PLANTS**  
[54] **PROCEDES ET COMPOSITIONS CONSISTANT A AUGMENTER LA TOLERANCE AU STRESS ABIOTIQUE CHEZ DES VEGETAUX**  
[72] KUPATT, CHARLES CHRISTIAN, US  
[71] CROP MICROCLIMATE MANAGEMENT INC., US  
[85] 2020-07-21  
[86] 2019-01-31 (PCT/US2019/016021)  
[87] (WO2019/152632)  
[30] US (62/626,350) 2018-02-05

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[21] **3,089,259**  
[13] A1

[51] **Int.Cl. C01F 7/06 (2006.01) C01D 3/08 (2006.01) C01D 5/00 (2006.01) C22B 3/12 (2006.01) C22B 21/00 (2006.01)**  
[25] EN  
[54] **A METHOD OF PROCESSING AND TREATMENT OF ALUNITE ORES**  
[54] **PROCEDE DE TRAITEMENT DE MINERAI D'ALUNITE**  
[72] TAGIJEV, ELSAD, CZ  
[72] TAGHIYEV, ELDAR, CZ  
[72] AGAJEVA, LALE, CZ  
[71] TAGIJEV, ELSAD, CZ  
[85] 2020-07-22  
[86] 2019-01-22 (PCT/CZ2019/000004)  
[87] (WO2019/149293)  
[30] CZ (PV 2018-45) 2018-01-30

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[21] **3,089,260**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**  
[25] EN  
[54] **ANTI-4-1BB ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF AND MEDICAL USE THEREOF**  
[54] **ANTICORPS ANTI-4-1BB, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION MEDICALE ASSOCIEE**  
[72] HUANG, HAO, CN  
[72] JIANG, JIAHUA, CN  
[72] YAN, SHUDE, CN  
[72] CAO, GUOQING, CN  
[72] ZHANG, LIANSHAN, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[85] 2020-07-22  
[86] 2019-01-21 (PCT/CN2019/072484)  
[87] (WO2019/141268)  
[30] CN (201810058076.8) 2018-01-22  
[30] CN (201811472564.X) 2018-12-04

## Demandes PCT entrant en phase nationale

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| <p style="text-align: right;">[21] <b>3,089,261</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. D06P 1/00 (2006.01) D06M 16/00 (2006.01) D06N 3/00 (2006.01) D06N 3/04 (2006.01) D06P 1/22 (2006.01) D06P 1/52 (2006.01) D06P 1/54 (2006.01) D06P 1/673 (2006.01) D06P 3/04 (2006.01) D06P 3/52 (2006.01) D06P 3/82 (2006.01) D06P 5/13 (2006.01) D06P 5/20 (2006.01) D06P 5/22 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PROCESSES AND INSTALLATIONS FOR DYEING SYNTHETIC FIBERS AND DYED FIBERS AND FABRICS CONTAINING SAID DYED FIBERS</b></p> <p>[54] <b>PROCEDES ET INSTALLATIONS DE TEINTURE DE FIBRES SYNTHETIQUES, ET FIBRES TEINTES ET TISSUS CONTENANT LESDITES FIBRES TEINTES</b></p> <p>[72] KARADUMAN, AHMET SERHAT, TR</p> <p>[72] GENC, AYSE, TR</p> <p>[72] ASLAN, DERYA, TR</p> <p>[72] PARLADI, FATMA MUZEYYEN, TR</p> <p>[72] YENICI, HAMIT, TR</p> <p>[72] ERTEK AVCI, MUNEVVER, TR</p> <p>[71] CALIK DENIM TEKSTIL SAN. VE TIC. A.S., TR</p> <p>[85] 2020-07-22</p> <p>[86] 2018-01-23 (PCT/EP2018/051594)</p> <p>[87] (WO2019/145020)</p> | <p style="text-align: right;">[21] <b>3,089,264</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. A61K 47/34 (2017.01) A61F 2/958 (2013.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 31/05 (2006.01) A61K 31/25 (2006.01) A61K 31/352 (2006.01) A61K 47/32 (2006.01) A61L 31/16 (2006.01) A61M 25/10 (2013.01) A61M 31/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS AND DEVICES FOR REDUCING VACULAR SMOOTH MUSCLE CELL PROLIFERATION</b></p> <p>[54] <b>PROCEDES ET DISPOSITIFS POUR REDUIRE LA PROLIFERATION DE CELLULES DE MUSCLE LISSE VACULAIRE</b></p> <p>[72] DUGAS, TAMMY RENEE, US</p> <p>[72] SABLIOV, CRISTINA, US</p> <p>[72] ASTETE, CARLOS, US</p> <p>[71] BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US</p> <p>[85] 2020-07-21</p> <p>[86] 2019-02-01 (PCT/US2019/016302)</p> <p>[87] (WO2019/152811)</p> <p>[30] US (62/625,026) 2018-02-01</p> | <p style="text-align: right;">[21] <b>3,089,266</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. B01D 39/16 (2006.01) B01D 39/18 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FILTER ELEMENT CONFIGURATIONS</b></p> <p>[54] <b>CONFIGURATIONS D'ELEMENTS FILTRANTS</b></p> <p>[72] RAHMATHULLAH, AFLAL, US</p> <p>[72] DALLAS, ANDREW J., US</p> <p>[72] TUCKER, BRIAN R., US</p> <p>[72] ADAMEK, DANIEL E., US</p> <p>[72] WAY, PAUL A., US</p> <p>[72] BETCHER, SCOTT A., US</p> <p>[72] KAPOOR, VIJAY K., US</p> <p>[72] MARCKS, COLTER A., US</p> <p>[72] ROSSITER, WILLIAM S., US</p> <p>[72] WINTERS, TIMOTHY O., US</p> <p>[72] JODI, WIJADI, US</p> <p>[72] MORAVEC, DAVIS B., US</p> <p>[72] SONTAG, STEPHEN K., US</p> <p>[72] HAUSER, BRADLY G., US</p> <p>[72] GOERTZ, MATTHEW P., US</p> <p>[72] JONES, DEREK O., US</p> <p>[72] ELSAYED, YEHYA A., US</p> <p>[72] RAJGARHIA, STUTI S., US</p> <p>[72] CHRIST, CHARLES S., US</p> <p>[72] BLOCK, JOSEPH M., US</p> <p>[71] DONALDSON COMPANY, INC., US</p> <p>[85] 2020-07-21</p> <p>[86] 2019-02-14 (PCT/US2019/018083)</p> <p>[87] (WO2019/161111)</p> <p>[30] US (62/631,384) 2018-02-15</p> |
| <p style="text-align: right;">[21] <b>3,089,262</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. E21B 47/12 (2012.01) G01V 3/28 (2006.01) G01V 11/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>LOGGING TOOL FERRITES AND METHODS OF MANUFACTURE</b></p> <p>[54] <b>FERRITES D'OUTIL DE DIAGRAPHIE ET PROCEDES DE FABRICATION</b></p> <p>[72] GRIFFING, MATTHEW CHASE, US</p> <p>[72] MA, JIN, US</p> <p>[72] BITTAR, MICHAEL, US</p> <p>[71] HALLIBURTON ENERGY SERVICES, INC., US</p> <p>[85] 2020-07-21</p> <p>[86] 2019-01-31 (PCT/US2019/016120)</p> <p>[87] (WO2019/182686)</p> <p>[30] US (62/645,103) 2018-03-19</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p style="text-align: right;">[21] <b>3,089,265</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. G01F 1/688 (2006.01) A61B 5/01 (2006.01) A61B 5/0215 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>A SENSOR FOR MEASURING A FLOW OF A FLUID</b></p> <p>[54] <b>CAPTEUR DE MESURE D'ECOULEMENT D'UN FLUIDE</b></p> <p>[72] DESJARDINS, ADRIEN, GB</p> <p>[72] FINLAY, MALCOLM, GB</p> <p>[72] PAPANIKOLAOU, IOANNIS, GB</p> <p>[72] MOSSE, CHARLES ALEXANDER, GB</p> <p>[72] COOTE, JOANNA M., GB</p> <p>[72] NOIMARK, SACHA, GB</p> <p>[72] ALLES, ERWIN, GB</p> <p>[71] UCL BUSINESS LTD, GB</p> <p>[85] 2020-07-21</p> <p>[86] 2019-01-22 (PCT/GB2019/050163)</p> <p>[87] (WO2019/142006)</p> <p>[30] GB (1800997.7) 2018-01-22</p>                                                                                                                                                                                          | <p style="text-align: right;">[21] <b>3,089,267</b><br/>[13] A1</p> <p>[51] <b>Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6816 (2018.01) C12Q 1/6869 (2018.01) G16B 30/10 (2019.01) C12N 15/10 (2006.01) G01N 27/447 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>COMPOSITIONS AND TECHNIQUES FOR NUCLEIC ACID PRIMER EXTENSION</b></p> <p>[54] <b>COMPOSITIONS ET TECHNIQUES POUR EXTENSION D'AMORCE D'ACIDE NUCLEIQUE</b></p> <p>[72] MALYSHEV, DENIS, US</p> <p>[72] OLIPHANT, ARNOLD, US</p> <p>[71] OMNIOME, INC., US</p> <p>[85] 2020-07-21</p> <p>[86] 2019-02-01 (PCT/US2019/016432)</p> <p>[87] (WO2019/156910)</p> <p>[30] US (62/626,836) 2018-02-06</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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[21] **3,089,268**  
[13] A1

[51] **Int.Cl. C07D 221/22 (2006.01) A61K 31/439 (2006.01) A61P 9/04 (2006.01)**  
[25] EN  
[54] **CRYSTALLINE FORMS OF MESACONINE AND PREPARATION METHOD THEREFOR**  
[54] **FORMES CRISTALLINES DE MESACONINE ET PROCEDE DE PREPARATION CORRESPONDANT**  
[72] GENG, YUEFEI, CN  
[72] GENG, FUNENG, CN  
[72] MA, XIUYING, CN  
[72] CHAO, RUOBING, CN  
[71] GOODDOCTOR PHARMACEUTICAL GROUP CO., LTD., CN  
[85] 2020-07-22  
[86] 2019-01-23 (PCT/CN2019/072874)  
[87] (WO2019/144889)  
[30] CN (201810071927.2) 2018-01-24

[21] **3,089,269**  
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01)**  
[25] EN  
[54] **BLOCKCHAIN-BASED EXCHANGE METHOD AND APPARATUS FOR AVAILABLE RESOURCE QUOTAS**  
[54] **APPAREIL ET PROCEDE D'ECHANGE BASE SUR UNE CHAINE DE BLOCS DESTINES A DES QUOTAS DE RESSOURCES DISPONIBLES**  
[72] YANG, XINYING, CN  
[71] ALIBABA GROUP HOLDING LIMITED, KY  
[85] 2020-07-22  
[86] 2019-01-28 (PCT/CN2019/073419)  
[87] (WO2019/237750)  
[30] CN (201810610233.1) 2018-06-13

[21] **3,089,270**  
[13] A1

[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/22 (2019.01) G06F 16/901 (2019.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR STORING OBJECT STATE ON HASH CHAINS**  
[54] **SYSTEMES ET PROCEDES PERMETTANT DE STOCKER UN ETAT D'OBJET SUR DES CHAINES DE HACHAGE**  
[72] SCOTT, GLENN CARTER, US  
[72] GABRIEL, MICHAEL RICHARD, US  
[71] INTUIT INC., US  
[85] 2020-07-21  
[86] 2019-07-29 (PCT/US2019/043853)  
[87] (WO2020/112178)  
[30] US (16/206,987) 2018-11-30

[21] **3,089,271**  
[13] A1

[51] **Int.Cl. F21V 33/00 (2006.01) F21S 8/02 (2006.01) F21V 23/04 (2006.01)**  
[25] EN  
[54] **SKYLIGHT FIXTURE**  
[54] **APPAREIL DE PUIITS DE LUMIERE**  
[72] KELLER, BERND P., US  
[72] LOWES, THEODORE D., US  
[72] LEUNG, MICHAEL, US  
[72] JACOBSON, BENJAMIN A., US  
[72] TARSA, ERIC, US  
[72] IBBETSON, JAMES, US  
[72] GIROTTO, CLAUDIO, US  
[71] IDEAL INDUSTRIES LIGHTING LLC, US  
[85] 2020-07-20  
[86] 2019-02-05 (PCT/US2019/016592)  
[87] (WO2019/156950)  
[30] US (62/628,131) 2018-02-08  
[30] US (15/972,176) 2018-05-06  
[30] US (15/972,178) 2018-05-06

[21] **3,089,272**  
[13] A1

[51] **Int.Cl. A01N 25/24 (2006.01) A01N 37/22 (2006.01) A01N 43/78 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL FORMULATIONS, USES THEREOF AND PROCESSES FOR PREPARATION THEREOF**  
[54] **FORMULATIONS AGRICOLES, LEURS UTILISATIONS ET LEURS PROCEDES DE PREPARATION**  
[72] OGAWA, TOSHIYA, US  
[72] ZHOU, KE, US  
[72] TANUWIDJAJA, JESSICA, US  
[71] VALENT U.S.A. LLC, US  
[85] 2020-07-21  
[86] 2019-02-15 (PCT/US2019/018156)  
[87] (WO2019/161161)  
[30] US (62/631,598) 2018-02-16

[21] **3,089,273**  
[13] A1

[51] **Int.Cl. E01C 7/35 (2006.01) E01C 7/14 (2006.01) E01C 7/18 (2006.01) E01C 11/00 (2006.01)**  
[25] EN  
[54] **SPRAY PAVING COATING AND METHOD**  
[54] **REVETEMENT DE CHAUSSEE PAR PULVERISATION ET PROCEDE**  
[72] SPRAY, ORVILLE, US  
[71] VENTURE CORPORATION, US  
[85] 2020-07-21  
[86] 2019-02-05 (PCT/US2019/016615)  
[87] (WO2019/156960)  
[30] US (15/894,188) 2018-02-12

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[21] **3,089,274**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**  
[25] EN  
[54] **AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM**  
[54] **SOURCE D'AEROSOL POUR UN SYSTEME DE FOURNITURE DE VAPEUR**  
[72] POTTER, MARK, GB  
[72] TIPTON, WADE, GB  
[72] HARRIS, WILLIAM, GB  
[72] ROWE, CHRISTOPHER, GB  
[72] DAVIES, JAMES, GB  
[72] BOONZAIER, JAMES, GB  
[72] DEVINE, CONOR, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2020-07-21  
[86] 2019-01-23 (PCT/GB2019/050186)  
[87] (WO2019/145709)  
[30] GB (1801144.5) 2018-01-24

[21] **3,089,275**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01) F16D 55/28 (2006.01) F16D 69/04 (2006.01)**  
[25] EN  
[54] **CARRIER DISC ASSEMBLY FOR A BRAKE ASSEMBLY, AND ELECTROMAGNETICALLY ACTUABLE BRAKE ASSEMBLY WITH CARRIER DISC ASSEMBLY**  
[54] **SYSTEME DE DISQUES DE SUPPORT POUR UN SYSTEME DE FREINAGE ET SYSTEME DE FREINAGE POUVANT ETRE ACTIONNE ELECTROMAGNETIQUEMENT EQUIPE D'UN SYSTEME DE DISQUES DE SUPPORT**  
[72] HESSE, KERSTIN, DE  
[72] BECHTHOLD, ALEX, DE  
[72] RUHS, CHRISTOPH, DE  
[72] ESSERT, STEFFEN, DE  
[72] ASCHOFF, STEFAN, DE  
[72] STOBER, MARTIN, DE  
[71] SEW-EURODRIVE GMBH & CO. KG, DE  
[85] 2020-07-22  
[86] 2019-01-18 (PCT/EP2019/025018)  
[87] (WO2019/149447)  
[30] DE (10 2018 000 839.9) 2018-02-02

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[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **TRIALKYNE LINKING AGENTS AND METHODS OF USE**  
[54] **AGENTS DE LIAISON TRIALCYNE ET PROCEDES D'UTILISATION**  
[72] LI, ZHEN, US  
[72] ALTENHOFER, ERICH, US  
[72] CARLSON, JEFFREY, US  
[72] FOWLER-WATTERS, MATTHEW, US  
[72] CHEN, BO, US  
[71] ARROWHEAD PHARMACEUTICALS, INC., US  
[85] 2020-07-21  
[86] 2019-02-15 (PCT/US2019/018232)  
[87] (WO2019/161213)  
[30] US (62/631,683) 2018-02-17  
[30] US (62/646,739) 2018-03-22  
[30] US (62/663,763) 2018-04-27  
[30] US (62/790,300) 2019-01-09

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[13] A1

[51] **Int.Cl. C12Q 1/6818 (2018.01)**  
[25] EN  
[54] **FAR-RED DYE PROBE FORMULATIONS**  
[54] **FORMULATIONS DE SONDE A COLORANT ROUGE LOINTAIN**  
[72] AUBIN-WALKER, SHEILA, US  
[72] MAJLESSI, MEHRDAD R., US  
[72] PHAM, JIMMYKIM, US  
[72] BOUSQUET, JOSHUA, US  
[71] GEN-PROBE INCORPORATED, US  
[85] 2020-07-21  
[86] 2019-02-06 (PCT/US2019/016890)  
[87] (WO2019/157081)  
[30] US (62/627,040) 2018-02-06

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[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) C07K 7/56 (2006.01) C07K 14/00 (2006.01) C07K 19/00 (2006.01) A61K 38/00 (2006.01) C07K 16/00 (2006.01) C12N 15/00 (2006.01)**  
[25] EN  
[54] **CELL-PERMEABLE STAPLED PEPTIDE MODULES FOR CELLULAR DELIVERY**  
[54] **MODULES PEPTIDIQUES AGRAFES PERMEABLES AUX CELLULES POUR ADMINISTRATION CELLULAIRE**  
[72] WALENSKY, LOREN D., US  
[72] MOURTADA, RIDA, US  
[72] HERCE, HENRY D., US  
[71] DANA-FARBER CANCER INSTITUTE, INC., US  
[85] 2020-07-21  
[86] 2019-02-07 (PCT/US2019/016976)  
[87] (WO2019/157131)  
[30] US (62/627,566) 2018-02-07

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[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01)**  
[25] EN  
[54] **EXTENDABLE BARBECUE**  
[54] **BARBECUE EXTENSIBLE**  
[72] MIDY, OLIVIER JOEL, ES  
[72] MIDY, CHRISTOPHE, FR  
[71] ONLYDETAILS, S.L., ES  
[85] 2020-07-22  
[86] 2019-01-03 (PCT/EP2019/050104)  
[87] (WO2019/137847)  
[30] LU (LU100675) 2018-01-12  
[30] LU (LU101052) 2018-12-14

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[13] A1

[51] **Int.Cl. C11D 3/386 (2006.01)**  
[25] EN  
[54] **CLEANING COMPOSITIONS**  
[54] **COMPOSITIONS DE NETTOYAGE**  
[72] LANT, NEIL JOSEPH, GB  
[72] SOUTER, PHILIP FRANK, GB  
[72] VASQUEZ VALDIVIESO, MONTSERRAT GUADALUPE, GB  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2020-07-21  
[86] 2019-02-08 (PCT/US2019/017147)  
[87] (WO2019/168649)  
[30] EP (18159331.0) 2018-02-28

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[51] **Int.Cl. G06Q 10/08 (2012.01)**  
[25] EN  
[54] **MONITORING OF PRODUCTS**  
[54] **SUIVI DE PRODUITS**  
[72] BACKHAUS, CHRISTOF, DE  
[72] BERGER, KATHARINA, DE  
[72] SCHENKEL, UWE, DE  
[72] SCHMIDT, JURGEN, DE  
[72] SPETH, WALTER, DE  
[72] GLISMANN, KLAUS, DE  
[72] WILLMS, ERIC, DE  
[72] STORZ, MARKUS, DE  
[72] WENDT, ARNE, DE  
[72] DIBBLE, GREGORY JAMES, DE  
[71] BAYER BUSINESS SERVICES  
GMBH, DE  
[85] 2020-07-22  
[86] 2019-01-18 (PCT/EP2019/051225)  
[87] (WO2019/145224)  
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[30] EP (18174305.5) 2018-05-25

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C23C 2/12 (2006.01)**  
[25] EN  
[54] **REDUCTION AT ELEVATED  
TEMPERATURE OF COATED  
STEELS CONTAINING  
METASTABLE AUSTENITE**  
[54] **REDUCTION A TEMPERATURE  
ELEEVE D'ACIERS REVETUS  
CONTENANT DE L'AUSTENITE  
METASTABLE**  
[72] GILL, AMRINDER SINGH, US  
[72] PAVLINA, ERIK JAMES, US  
[72] JANAVICIUS, PAUL VALDAS, US  
[71] AK STEEL PROPERTIES, INC., US  
[85] 2020-07-21  
[86] 2019-03-08 (PCT/US2019/021392)  
[87] (WO2019/177896)  
[30] US (62/642,208) 2018-03-13

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[13] A1

[51] **Int.Cl. C11D 3/386 (2006.01)**  
[25] EN  
[54] **METHODS OF CLEANING**  
[54] **PROCEDES DE NETTOYAGE**  
[72] LANT, NEIL JOSEPH, GB  
[72] SOUTER, PHILIP FRANK, GB  
[72] VASQUEZ VALDIVIESO,  
MONTERRAT GUADALUPE, GB  
[71] THE PROCTER & GAMBLE  
COMPANY, US  
[85] 2020-07-21  
[86] 2019-02-08 (PCT/US2019/017148)  
[87] (WO2019/168650)  
[30] EP (18159330.2) 2018-02-28

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[13] A1

[51] **Int.Cl. H04L 29/08 (2006.01) H04L  
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[25] EN  
[54] **LOCATION DETECTION BASED  
ON IP ADDRESSES AND  
TRANSACTIONS**  
[54] **DETECTION D'EMPLACEMENT  
FONDEE SUR DES ADRESSES IP  
ET DES TRANSACTIONS**  
[72] HAYMAN, LIRON, IL  
[72] SHAHAR, SHIMON, IL  
[71] INTUIT INC., US  
[85] 2020-07-21  
[86] 2019-07-26 (PCT/US2019/043721)  
[87] (WO2020/046511)  
[30] US (16/114,435) 2018-08-28

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[13] A1

[51] **Int.Cl. C07D 261/04 (2006.01) A01N  
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[25] EN  
[54] **HERBICIDALLY ACTIVE 3-  
PHENYLISOXAZOLINE-5-  
CARBOXAMIDES OF  
CYCLOPENTENYL CARBOXYLIC  
ACID DERIVATIVES**  
[54] **3-PHENYL-ISOXAZOLINE-5-  
CARBOXAMIDES DE DERIVES  
D'ACIDE CYCLOPENTENYL-  
CARBOXYLIQUE A ACTION  
HERBICIDE**  
[72] BOJACK, GUIDO, DE  
[72] LAW, KATHERINE ROSE, GB  
[72] VAN ALMSICK, ANDREAS, DE  
[72] HAAF, KLAUS BERNHARD, DE  
[72] DIETRICH, HANSJORG, DE  
[72] GATZWEILER, ELMAR, DE  
[72] MACHETTIRA, ANU BHEEMAIAH,  
DE  
[72] ROSINGER, CHRISTOPHER HUGH,  
DE  
[72] ASMUS, ELISABETH, DE  
[71] BAYER AKTIENGESELLSCHAFT,  
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[85] 2020-07-22  
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16/28 (2006.01) C07K 16/32 (2006.01)  
C07K 16/46 (2006.01) G01N 33/574  
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[25] EN  
[54] **BISPECIFIC ANTIGEN-BINDING  
MOLECULES AND METHODS OF  
USE**  
[54] **MOLECULES BISPECIFIQUES DE  
LIAISON A L'ANTIGENE ET  
PROCEDES D'UTILISATION**  
[72] ELLERMAN, DIEGO, US  
[72] JUNTILA, TEEMU T., US  
[72] LOMBANA, TWYLA NOELLE, US  
[72] SLAGA, DIONYSOS, US  
[72] SPIESS, CHRISTOPH, US  
[71] GENENTECH, INC., US  
[85] 2020-07-21  
[86] 2019-02-08 (PCT/US2019/017251)  
[87] (WO2019/157308)  
[30] US (62/628,088) 2018-02-08

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[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**  
[25] EN  
[54] **AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM**  
[54] **SOURCE D'AEROSOL POUR UN SYSTEME DE FOURNITURE DE VAPEUR**

[72] POTTER, MARK, GB  
[72] TIPTON, WADE, GB  
[72] HARRIS, WILLIAM, GB  
[72] ROWE, CHRISTOPHER, GB  
[72] DAVIES, JAMES, GB  
[72] BOONZAIER, JAMES, GB  
[72] DEVINE, CONNOR, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2020-07-21  
[86] 2019-01-23 (PCT/GB2019/050187)  
[87] (WO2019/145710)  
[30] GB (1801146.0) 2018-01-24

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[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01)**  
[25] EN  
[54] **BIOMARKER PREDICTIVE OF TUMOUR INFILTRATING LYMPHOCYTE THERAPY AND USES THEREOF**  
[54] **BIOMARQUEUR PREDICTIF DE LA THERAPIE DES LYMPHOCYTES INFILTRANT LES TUMEURS ET SES UTILISATIONS**

[72] PRICE, NICOLA KAYE, GB  
[72] BRIDGEMAN, JOHN STEPHEN, GB  
[71] INSTIL BIO (UK) LIMITED, GB  
[85] 2020-07-21  
[86] 2019-01-23 (PCT/GB2019/050188)  
[87] (WO2019/145711)  
[30] GB (1801067.8) 2018-01-23

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[13] A1

[51] **Int.Cl. A63F 11/00 (2006.01) G07D 3/00 (2006.01)**  
[25] EN  
[54] **TOKEN SORTING APPARATUS**  
[54] **APPAREIL DE TRI DE JETONS**  
[72] SAUNDERS, ANDREW MICHAEL, GB  
[71] TCS JOHN HUXLEY EUROPE LIMITED, GB  
[85] 2020-07-21  
[86] 2019-01-31 (PCT/GB2019/050280)  
[87] (WO2019/155188)

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[13] A1

[51] **Int.Cl. A23L 11/00 (2016.01) A23L 11/30 (2016.01)**  
[25] EN  
[54] **MEDIUM/LOW GLYCAEMIC INDEX PRODUCTS AND METHODS**  
[54] **PRODUITS A INDICE GLYCEMIQUE MOYEN/FAIBLE ET PROCEDES**

[72] BUTTERWORTH, PETER J., GB  
[72] EDWARDS, CATHRINA H., GB  
[72] ELLIS, PETER R., GB  
[72] HILL, SANDRA, GB  
[72] MARSON, ALAN, GB  
[72] OBUCHOWICZ, JACEK, GB  
[71] KING'S COLLEGE LONDON, GB  
[71] NEW-FOOD INNOVATION LTD, GB  
[85] 2020-07-21  
[86] 2019-02-01 (PCT/GB2019/050284)  
[87] (WO2019/155190)  
[30] GB (1801909.1) 2018-02-06

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[13] A1

[51] **Int.Cl. F03G 3/04 (2006.01)**  
[25] EN  
[54] **POWER GENERATING APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE DE PRODUCTION DE COURANT ELECTRIQUE**

[72] WATSON, GARY ALEXANDER, GB  
[71] ELECTRICSANDS LTD, GB  
[85] 2020-07-21  
[86] 2019-03-07 (PCT/GB2019/050636)  
[87] (WO2019/175548)  
[30] GB (1803944.6) 2018-03-12

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[13] A1

[51] **Int.Cl. C07D 313/08 (2006.01) A61K 31/404 (2006.01) A61P 35/00 (2006.01) C07C 215/48 (2006.01) C07D 209/12 (2006.01) C07D 209/30 (2006.01) C07D 333/64 (2006.01) C07D 409/12 (2006.01) C07D 487/04 (2006.01)**  
[25] EN  
[54] **ESTROGEN RECEPTOR-MODULATING COMPOUNDS**  
[54] **COMPOSES MODULANT LES RECEPTEURS DES STROGENES**

[72] MILLER, CHRIS, US  
[71] RADIUS PHARMACEUTICALS, INC., US  
[85] 2020-07-17  
[86] 2019-01-22 (PCT/US2019/014581)  
[87] (WO2019/144132)  
[30] US (62/620,441) 2018-01-22

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[21] **3,089,300**  
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **ANTIBODY, FUNCTIONAL FRAGMENT OR PROBE THEREOF AGAINST TUMOUR ANTIGENS**  
[54] **ANTICORPS L2A5 OU FRAGMENT FONCTIONNEL DE CELUI-CI CONTRE DES ANTIGENES TUMORAUX**  
[72] VIDEIRA, PAULA ALEXANDRA QUINTELA, PT  
[72] NOVO, CARLOS MANUEL MENDES, PT  
[72] LOUREIRO, LILIANA RAQUEL RODRIGUES, PT  
[72] CARRASCAL, MYLENE ADELAIDE DO ROSARIO, PT  
[72] FERREIRA, JOSE ALEXANDRE RIBEIRO DE CASTRO, PT  
[72] PALMA, MARIA ANGELINA DE SA, PT  
[72] SANTOS, LUCIO LARA, PT  
[72] LIMA, LUIS CARLOS OLIVEIRA, PT  
[72] CHAI, WENGANG, PT  
[72] BACHMANN, MICHAEL, PT  
[71] UNIVERSIDADE NOVA DE LISBOA, PT  
[71] INSTITUTO PORTUGUES DE ONCOLOGIA DO PORTO FG, EPE, PT  
[71] HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF - INSTITUTE OF RADIOPHARMACEUTICAL CANCER RESEARCH, DE  
[85] 2020-07-20  
[86] 2019-01-17 (PCT/PT2019/000001)  
[87] (WO2019/147152)  
[30] PT (110526) 2018-01-26

[21] **3,089,301**  
[13] A1

[51] **Int.Cl. E01H 4/02 (2006.01)**  
[25] EN  
[54] **SNOW TILLER AND METHOD OF ADJUSTING THE SAME**  
[54] **DISPOSITIF DE RACLAGE DE NEIGE ET SON PROCEDE DE REGLAGE**  
[72] RAPP, SEBASTIAN, IT  
[71] PRINOTH S.P.A., IT  
[85] 2020-07-22  
[86] 2019-02-22 (PCT/IB2019/051463)  
[87] (WO2019/162900)  
[30] IT (102018000003000) 2018-02-23

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[13] A1

[51] **Int.Cl. A61H 1/00 (2006.01) A61H 1/02 (2006.01) A63B 21/00 (2006.01) A63B 23/00 (2006.01) A63B 23/035 (2006.01) A63B 23/04 (2006.01)**  
[25] EN  
[54] **KNEE REHABILITATION DEVICE**  
[54] **DISPOSITIF DE REEDUCATION DU GENOU**  
[72] BRIGGS, SONYA ANNETTE, US  
[71] MOTUS X, PLLC, US  
[85] 2020-07-22  
[86] 2018-03-01 (PCT/US2018/020397)  
[87] (WO2018/160803)  
[30] US (62/465,995) 2017-03-02  
[30] US (15/798,826) 2017-10-31

[21] **3,089,303**  
[13] A1

[51] **Int.Cl. F41H 13/00 (2006.01) H05C 1/04 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR A DEPLOYMENT UNIT FOR A CONDUCTED ELECTRICAL WEAPON**  
[54] **SYSTEMES ET PROCEDES POUR UNE UNITE DE DEPLOIEMENT D'UNE ARME A IMPACT ELECTRIQUE**  
[72] SALISBURY, LUKE, US  
[72] LAVIN, ALBERT, US  
[72] PETROVIC, ALEKSANDER, US  
[71] AXON ENTERPRISE, INC., US  
[85] 2020-07-22  
[86] 2018-03-01 (PCT/US2018/020466)  
[87] (WO2019/147293)  
[30] US (62/621,876) 2018-01-25

[21] **3,089,304**  
[13] A1

[51] **Int.Cl. A23D 9/00 (2006.01) A23L 5/10 (2016.01) A23D 9/007 (2006.01)**  
[25] EN  
[54] **METHOD FOR STABILIZING OIL OR FAT COMPOSITION FOR FRYING USE**  
[54] **PROCEDE DE STABILISATION D'UNE COMPOSITION D'HUILE OU DE GRAISSE UTILISEE POUR LA FRITURE**  
[72] SAWARAGI, YOSUKE, JP  
[72] HORI, RYUJI, JP  
[72] SAKAINO, MASAYOSHI, JP  
[72] MAKITA, NARUTO, JP  
[72] ARAI, HISASHI, JP  
[72] TAKEUCHI, SHIGEO, JP  
[71] J-OIL MILLS, INC., JP  
[85] 2020-07-22  
[86] 2019-01-21 (PCT/JP2019/001619)  
[87] (WO2019/151009)  
[30] JP (2018-015954) 2018-01-31

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[13] A1

[51] **Int.Cl. B23B 27/00 (2006.01) B23Q 11/00 (2006.01) F16F 7/104 (2006.01)**  
[25] EN  
[54] **MASS DAMPER AND CUTTING TOOL**  
[54] **AMORTISSEUR DE MASSE SUR UN OUTIL DE COUPE**  
[72] FU, QILIN, SE  
[72] NICOLESCU, CORNEL-MIHAI, SE  
[72] RASHID, AMIR, SE  
[71] MAQ AB, SE  
[85] 2020-07-22  
[86] 2018-02-28 (PCT/SE2018/050192)  
[87] (WO2019/168448)



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[13] A1

[51] **Int.Cl. B61L 29/30 (2006.01) B61L 29/06 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MONITORING A RAILROAD GRADE CROSSING**  
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE D'UN PASSAGE A NIVEAU DE VOIE FERREE**  
[72] GOOSE, STUART, US  
[72] FRITSCHL, STEFAN, US  
[72] CORBO, MARK, US  
[71] SIEMENS MOBILITY, INC., US  
[85] 2020-07-22  
[86] 2018-08-23 (PCT/US2018/047630)  
[87] (WO2019/147306)  
[30] US (62/621,071) 2018-01-24

[21] **3,089,307**  
[13] A1

[51] **Int.Cl. G06T 17/00 (2006.01) G06F 3/0484 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR CREATING GEO-LOCALIZED ENHANCED FLOOR PLANS**  
[54] **SYSTEME ET PROCEDE DE CREATION DE PLANS D'ETAGES AMELIORES GEOLOCALISES**  
[72] KHOSROWPOUR, ARDALAN, US  
[71] THE JOAN AND IRWIN JACOBS TECHNOION-CORNELL INSTITUTE, US  
[85] 2020-07-22  
[86] 2018-12-14 (PCT/US2018/065712)  
[87] (WO2019/118856)  
[30] US (62/598,670) 2017-12-14

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[13] A1

[51] **Int.Cl. A61F 5/04 (2006.01) A61F 5/042 (2006.01) A61F 5/055 (2006.01) A61H 1/02 (2006.01)**  
[25] EN  
[54] **PORTABLE TRACTION DEVICE**  
[54] **DISPOSITIF DE TRACTION PORTABLE**  
[72] SUDELL, STEVEN, US  
[71] THE NECK HAMMOCK, INC., US  
[85] 2020-07-22  
[86] 2018-01-26 (PCT/US2018/015415)  
[87] (WO2019/147258)  
[30] US (15/879,881) 2018-01-25

[21] **3,089,309**  
[13] A1

[51] **Int.Cl. A61F 5/445 (2006.01) A61F 5/44 (2006.01) A61F 5/442 (2006.01) A61F 5/448 (2006.01) A61M 1/00 (2006.01) A61M 3/00 (2006.01) A61M 5/32 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR THE MANAGEMENT OF BODY FLUIDS LEAKING FROM A SURGICAL DRAIN TUBE INCISION**  
[54] **PROCEDE ET DISPOSITIF POUR LA GESTION DE FLUIDES CORPORELS FUYANT D'UNE INCISION DE TUBE DE DRAINAGE CHIRURGICAL**  
[72] ALDEN, DMITRI, US  
[72] MULHAUSER, PAUL, US  
[71] ALDEN ADVANCED TECHNOLOGIES, INC., US  
[85] 2020-07-22  
[86] 2018-02-21 (PCT/US2018/018928)  
[87] (WO2019/164479)

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[13] A1

[51] **Int.Cl. C07D 231/10 (2006.01) A61P 9/10 (2006.01) C07D 207/16 (2006.01) C07D 401/12 (2006.01)**  
[25] EN  
[54] **SALT FORMS OF ORGANIC COMPOUND**  
[54] **FORMES SALINES DE COMPOSE ORGANIQUE**  
[72] LEE, JAE MOON, US  
[72] YOO, SUNGEUN, KR  
[72] SHIN, SUNMI, KR  
[71] KAINOS MEDICINE INC., KR  
[85] 2020-07-22  
[86] 2019-01-30 (PCT/US2019/015890)  
[87] (WO2019/152546)  
[30] US (62/623,974) 2018-01-30

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[13] A1

[51] **Int.Cl. A63F 13/27 (2014.01) G06T 19/00 (2011.01) A63F 13/213 (2014.01) A63F 13/22 (2014.01) A63F 13/5255 (2014.01) A63F 13/86 (2014.01) A63F 13/92 (2014.01) G06F 3/01 (2006.01)**  
[25] EN  
[54] **CALIBRATION TO BE USED IN AN AUGMENTED REALITY METHOD AND SYSTEM**  
[54] **ETALONNAGE DESTINE A ETRE UTILISE DANS UN PROCEDE ET UN SYSTEME DE REALITE AUGMENTEE**  
[72] GRILLET, AUGUSTIN VICTOR LOUIS, FR  
[72] GEORGE, PAUL HUBERT ANDRE, FR  
[72] VANDAMME, WIM ALOIS, BE  
[71] THE GOOSEBUMPS FACTORY BVBA, BE  
[85] 2020-07-22  
[86] 2019-01-22 (PCT/EP2019/051531)  
[87] (WO2019/141879)  
[30] GB (1801031.4) 2018-01-22  
[30] EP (18168633.8) 2018-04-20

[21] **3,089,312**  
[13] A1

[51] **Int.Cl. H04N 9/47 (2006.01)**  
[25] EN  
[54] **CONNECTED KIOSK FOR THE REAL-TIME ASSESSMENT OF FALLS RISK**  
[54] **KIOSQUE CONNECTE PERMETTANT L'EVALUATION EN TEMPS REEL D'UN RISQUE DE CHUTE**  
[72] DOHRMANN, ANTHONY, US  
[72] CHASKO, BRYAN J., US  
[72] KEELEY, DAVID W., US  
[71] ELECTRONIC CAREGIVER, INC., US  
[85] 2020-07-22  
[86] 2018-12-31 (PCT/US2018/068210)  
[87] (WO2019/164585)  
[30] US (62/632,918) 2018-02-20  
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[51] **Int.Cl. C23C 22/05 (2006.01) C23C 22/78 (2006.01)**  
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[54] **SYSTEMS AND METHODS FOR TREATING A METAL SUBSTRATE**  
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'UN SUBSTRAT METALLIQUE**  
[72] MORRIS, ERIC L., US  
[71] PRC-DESOTO INTERNATIONAL, INC., US  
[85] 2020-07-22  
[86] 2019-01-30 (PCT/US2019/015911)  
[87] (WO2019/152556)  
[30] US (62/623,735) 2018-01-30

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[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 39/10 (2006.01)**  
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[54] **SYSTEMES DE LIGNE DE PERFUSION**  
[72] PROVOST, WAYNE A., US  
[72] STEWART, JEFFREY D., US  
[71] MJ STEWART INVESTMENTS, LLC, US  
[85] 2020-07-22  
[86] 2019-02-20 (PCT/US2019/018826)  
[87] (WO2019/164988)  
[30] US (15/902,682) 2018-02-22  
[30] US (16/053,495) 2018-08-02

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[13] A1

[51] **Int.Cl. G06T 17/20 (2006.01) G06T 7/00 (2017.01)**  
[25] EN  
[54] **MATCHING MESHES FOR VIRTUAL AVATARS**  
[54] **APPARIEMENT DE MAILLES POUR AVATARS VIRTUELS**  
[72] COMER, SEAN MICHAEL, US  
[71] MAGIC LEAP, INC., US  
[85] 2020-07-22  
[86] 2019-02-13 (PCT/US2019/017792)  
[87] (WO2019/168673)  
[30] US (62/635,939) 2018-02-27

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[13] A1

[51] **Int.Cl. G06F 30/20 (2020.01)**  
[25] EN  
[54] **UTILITY STRUCTURE MODELING AND DESIGN**  
[54] **MODELISATION ET CONCEPTION DE STRUCTURE D'UTILITAIRE**  
[72] SCHULZE, WILLIAM, US  
[72] WILLITT, BRETT, US  
[72] FORD, MICHAEL H., US  
[72] CAIN, DAVID, US  
[72] OVERLY, TIMOTHY G. S., US  
[72] RATLIFF, MICHAEL, US  
[72] WENTWORTH, JEREMY, US  
[72] KRAMB, KEVAN, US  
[71] SPIDAWEB LLC, US  
[85] 2020-07-22  
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[30] US (62/634,532) 2018-02-23

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
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[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES CIBLANT CD70**  
[72] SRIVATSA SRINIVASAN, SURABHI, US  
[72] NAGARAJAN, NIRANJANA ADITI, US  
[72] PANOWSKI, SILER, US  
[72] PARK, YOON, US  
[72] SAI, TAO, US  
[72] SASU, BARBRA JOHNSON, US  
[72] VAN BLARCOM, THOMAS JOHN, US  
[72] DUSSEAUX, MATHILDE BRUNNHILDE, US  
[72] GALETTO, ROMAN ARIEL, US  
[71] PFIZER INC., US  
[85] 2020-07-22  
[86] 2019-01-31 (PCT/US2019/016189)  
[87] (WO2019/152742)  
[30] US (62/625,009) 2018-02-01  
[30] US (62/625,019) 2018-02-01  
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[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C12N 15/62 (2006.01)**  
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[54] **METHODS OF USE FOR CAR T CELLS**  
[54] **PROCEDES D'UTILISATION DE CELLULES T CAR**  
[72] JENSEN, MICHAEL C., US  
[72] MATTHAEI, JAMES, US  
[72] LOW, PHILIP S., US  
[72] CHU, HAIYAN, US  
[72] LU, YINGJUAN J., US  
[72] LEAMON, CHRISTOPHER P., US  
[72] WHEELER, LEROY W., II, US  
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US  
[85] 2020-07-22  
[86] 2019-01-22 (PCT/US2019/014478)  
[87] (WO2019/144095)  
[30] US (62/620,414) 2018-01-22  
[30] US (62/620,706) 2018-01-23  
[30] US (62/656,233) 2018-04-11  
[30] US (62/724,171) 2018-08-29  
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[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01)**  
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[54] **CONNECTOR FOR A MANUAL ORAL CARE IMPLEMENT**  
[54] **CONNECTEUR POUR ACCESSOIRE DE SOINS BUCCO-DENTAIRES MANUEL**  
[72] JUNGNIKKEL, UWE, DE  
[72] ALINSKI, JENS, DE  
[71] THE GILLETTE COMPANY LLC, US  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/US2019/016214)  
[87] (WO2019/156900)  
[30] EP (18156005.3) 2018-02-09

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[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/90 (2006.01)**

[25] EN

[54] **MODIFICATION OF IMMUNE-RELATED GENOMIC LOCI USING PAIRED CRISPR NICKASE RIBONUCLEOPROTEINS**

[54] **MODIFICATION DE LOCI GENOMIQUES LIÉS A L'IMMUNITÉ A L'AIDE DE RIBONUCLEOPROTEINES DE NICKASE CRISPR APPARIEES**

[72] JI, QINGZHOU, US

[72] DAVIS, GREGORY D., US

[72] LAMBERTH, JACOB T., US

[71] SIGMA-ALDRICH CO. LLC, US

[85] 2020-07-22

[86] 2019-04-12 (PCT/US2019/027305)

[87] (WO2019/200306)

[30] US (62/657,488) 2018-04-13

[21] **3,089,324**  
[13] A1

[51] **Int.Cl. A61K 35/30 (2015.01) A61K 35/12 (2015.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF SPINAL CORD INJURY**

[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT D'UNE LESION DE LA MOELLE EPINIERE**

[72] NOLAN, DANIEL JOSEPH, US

[72] LANE, MICHAEL ARON, US

[72] QIANG, LIANG, US

[72] ZHOLUDEVA, LYANDYSHA VIKTOROVNA, US

[71] ANGIOCRINE BIOSCIENCE, INC., US

[71] DREXEL UNIVERSITY, US

[85] 2020-07-22

[86] 2019-01-22 (PCT/US2019/014497)

[87] (WO2019/144102)

[30] US (62/620,269) 2018-01-22

[21] **3,089,325**  
[13] A1

[51] **Int.Cl. G06F 21/50 (2013.01) G06F 21/31 (2013.01) G06F 21/60 (2013.01)**

[25] EN

[54] **POLICY BASED ADAPTIVE IDENTITY PROOFING**

[54] **AUTHENTIFICATION D'IDENTITE ADAPTATIVE FONDEE SUR UNE POLITIQUE**

[72] FUENTES, ANTONIO, US

[72] FOILES, DOUGLAS L., US

[72] LUCHAU, JEREMY, US

[72] SUN, ERGANG, US

[71] INTUIT INC., US

[85] 2020-07-22

[86] 2019-07-16 (PCT/US2019/041943)

[87] (WO2020/028031)

[30] US (16/052,287) 2018-08-01

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[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01)**

[25] EN

[54] **MANUAL ORAL CARE IMPLEMENT**

[54] **INSTRUMENT MANUEL POUR SOINS BUCCAUX**

[72] JUNGnickel, UWE, DE

[72] ALINSKI, JENS, DE

[71] THE GILLETTE COMPANY LLC, US

[85] 2020-07-22

[86] 2019-02-01 (PCT/US2019/016215)

[87] (WO2019/156901)

[30] EP (18156000.4) 2018-02-09

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[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06Q 30/06 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **DYNAMIC APPLICATION MIGRATION BETWEEN CLOUD PROVIDERS**

[54] **MIGRATION D'APPLICATION DYNAMIQUE ENTRE DES FOURNISSEURS DE NUAGE**

[72] HARI, RAVI, IN

[71] INTUIT INC., US

[85] 2020-07-22

[86] 2019-07-29 (PCT/US2019/043971)

[87] (WO2020/055514)

[30] US (16/130,131) 2018-09-13

[21] **3,089,328**  
[13] A1

[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/54 (2006.01)**

[25] EN

[54] **TISSUE PRODUCTS WITH ACTIVE AGENTS AND METHODS OF PRODUCTION**

[54] **PRODUITS TISSULAIRES COMPRENANT DES AGENTS ACTIFS ET PROCEDES DE PRODUCTION**

[72] JESSOP, ISRAEL JAMES, US

[72] POMERLEAU, MING F., US

[72] SHAH, MRINAL, US

[72] MUNOZ, IVIS, US

[72] CONNELL, TALIA, US

[71] LIFECCELL CORPORATION, US

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[86] 2019-01-22 (PCT/US2019/014501)

[87] (WO2019/147553)

[30] US (62/620,716) 2018-01-23

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[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) B02C 18/00 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **APPARATUSES, SYSTEMS AND METHODS FOR HYDROCARBON MATERIAL FROM A SUBTERRANEAN FORMATION USING A DISPLACEMENT PROCESS**

[54] **APPAREILS, SYSTEMES ET PROCEDES D'EXTRACTION D'UNE MATIERE HYDROCARBONNEE D'UNE FORMATION SOUTERRAINE SELON UN PROCESSUS DE DEPLACEMENT**

[72] JOHNSON, TIM, CA

[72] KALANTARI, MASOUD, CA

[71] NCS MULTISTAGE INC., CA

[85] 2020-07-23

[86] 2019-01-29 (PCT/CA2019/050107)

[87] (WO2019/183713)

[30] US (62/624,033) 2018-01-30

[30] US (62/776,731) 2018-12-07

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[25] EN  
[54] **COLOUR CORRECTION**  
[54] **CORRECTION DE COULEUR**  
[72] BENITO ALTAMIRANO, ISMAEL, ES  
[72] CASALS GUILLEN, OLGA, ES  
[72] FABREGA GALLEGO, CRISTIAN, ES  
[72] PRADES GARCIA, JUAN DANIEL, ES  
[72] WAAG, ANDREAS HANS WILHELM, DE  
[71] UNIVERSITAT DE BARCELONA, ES  
[85] 2020-07-22  
[86] 2019-01-24 (PCT/EP2019/051696)  
[87] (WO2019/145390)  
[30] EP (18382043.0) 2018-01-26

[21] **3,089,331**  
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C12N 9/22 (2006.01)**

[25] EN  
[54] **TRANSCRIPTION MODULATION IN ANIMALS USING CRISPR/CAS SYSTEMS**  
[54] **MODULATION DE LA TRANSCRIPTION CHEZ DES ANIMAUX A L'AIDE DE SYSTEMES CRISPR/CAS**  
[72] HUNT, CHARLEEN, US  
[72] HARTFORD, SUZANNE, US  
[72] GONG, GUOCHUN, US  
[72] ZAMBROWICZ, BRIAN, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2020-07-22  
[86] 2019-03-19 (PCT/US2019/023009)  
[87] (WO2019/183123)  
[30] US (62/644,961) 2018-03-19

[21] **3,089,332**  
[13] A1

[51] **Int.Cl. F16C 35/00 (2006.01) F16C 33/72 (2006.01)**

[25] EN  
[54] **BEARING MOUNT APPARATUS**  
[54] **APPAREIL DE SUPPORT DE PALIER**  
[72] SHOEMAKER, DARRYL, CA  
[71] LML LIMITED, CA  
[85] 2020-07-23  
[86] 2019-01-30 (PCT/CA2019/050111)  
[87] (WO2019/148273)  
[30] US (62/623,668) 2018-01-30

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[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/20 (2006.01) A61P 35/00 (2006.01) C07K 14/54 (2006.01) C07K 19/00 (2006.01) C12N 15/62 (2006.01)**

[25] EN  
[54] **ANTI-PDL1, IL-15 AND TGF-BETA RECEPTOR COMBINATION MOLECULES**  
[54] **MOLECULES D'ASSOCIATION AU RECEPTEUR DU TGF-BETA, IL-15 ET ANTI-PDL1**  
[72] LI, QIONGZHEN, US  
[72] ZHU, XIAOYUN, US  
[72] WONG, HING C., US  
[71] ALTOR BIOSCIENCE LLC, US  
[85] 2020-07-22  
[86] 2019-03-26 (PCT/US2019/024077)  
[87] (WO2019/191100)  
[30] US (62/648,373) 2018-03-26  
[30] US (62/734,994) 2018-09-21

[21] **3,089,335**  
[13] A1

[51] **Int.Cl. F04B 41/06 (2006.01) F04B 49/00 (2006.01)**

[25] EN  
[54] **OPERATING MULTIPLE FRACTURING PUMPS TO DELIVER A SMOOTH TOTAL FLOW RATE TRANSITION**  
[54] **FONCTIONNEMENT DE MULTIPLES POMPES DE FRACTURATION POUR DELIVRER UNE TRANSITION DE DEBIT TOTAL SANS A-COUPS**  
[72] BAGULAYAN, AMAL, US  
[72] MU, NAN, US  
[72] MATTHEWS, JAMES, US  
[72] MI, BAO, US  
[72] TAYLOR, ALEXANDER TANNER, US  
[72] KAJITA, MARCOS SUGURU, US  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2020-07-22  
[86] 2019-01-23 (PCT/US2019/014651)  
[87] (WO2019/147603)  
[30] US (62/620,663) 2018-01-23

[21] **3,089,337**  
[13] A1

[51] **Int.Cl. A23K 10/18 (2016.01) A61K 35/742 (2015.01) A23K 50/30 (2016.01) A61K 35/00 (2006.01) A61P 1/00 (2006.01) A61P 1/12 (2006.01)**

[25] EN  
[54] **MANAGEMENT OF PATHOGENIC LAWSONIA**  
[54] **PRISE EN CHARGE DU PATHOGENE LAWSONIA**  
[72] NELSON, ADAM, US  
[72] ECKHARDT, ERIK, FR  
[72] DEVILLARD, ESTELLE, FR  
[72] HALE, MEAGAN, US  
[72] ZHANG, EMILY, US  
[72] BAKER, ETHAN CHAD, US  
[71] NOVOZYMES A/S, DK  
[71] ADISSEO FRANCE S.A.S., FR  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/US2019/016271)  
[87] (WO2019/152791)  
[30] US (62/625,549) 2018-02-02

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[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01)**  
[25] EN  
[54] **CONTINGENCY BATTERY CHARGING SYSTEM**  
[54] **SYSTEME DE CHARGE DE BATTERIE DE SECOURS**  
[72] BALDWIN, MICAH, US  
[72] BARNETT, MITCHELL, US  
[71] WALMART APOLLO, LLC, US  
[85] 2020-07-22  
[86] 2019-03-27 (PCT/US2019/024315)  
[87] (WO2019/195052)  
[30] US (62/652,096) 2018-04-03

[21] **3,089,339**  
[13] A1

[51] **Int.Cl. F28F 3/00 (2006.01) F28D 9/00 (2006.01) F28D 21/00 (2006.01)**  
[25] EN  
[54] **METERING MODULE HAVING A TEMPERATURE-CONTROLLABLE METERING DEVICE AND METHOD FOR CONTROLLING THE TEMPERATURE OF A METERING DEVICE**  
[54] **MODULE DE DOSAGE COMPRENANT UN DISPOSITIF DE DOSAGE THERMOREGULABLE ET PROCEDE SERVANT A THERMOREGULER UN DISPOSITIF DE DOSAGE**  
[72] GUNTHER, DIETMAR, DE  
[72] FLEISCHER-TREBES, CHRISTOPH, DE  
[72] NIESEN, MIKE, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2020-07-22  
[86] 2019-01-24 (PCT/EP2019/051705)  
[87] (WO2019/145396)  
[30] EP (18153425.6) 2018-01-25

[21] **3,089,340**  
[13] A1

[51] **Int.Cl. H04B 1/52 (2015.01)**  
[25] EN  
[54] **RADIO FREQUENCY LOOPBACK FOR TRANSCEIVERS**  
[54] **BOUCLAGE RADIOFREQUENCE POUR DES EMETTEURS-RECEPTEURS**  
[72] BUER, KENNETH V, US  
[72] DARAPU, RAMANAMURTHY V, US  
[72] GIMERSKY, MARTIN, US  
[72] PETTIT, DAVID E, US  
[72] AGAR, BILL T, US  
[71] VIASAT, INC., US  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/US2019/016273)  
[87] (WO2019/152793)  
[30] US (62/625,443) 2018-02-02

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[13] A1

[51] **Int.Cl. A61B 3/16 (2006.01) A61B 8/10 (2006.01) A61F 2/16 (2006.01) A61F 9/00 (2006.01) A61K 9/00 (2006.01) A61M 27/00 (2006.01) G01L 27/00 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR TREATING EYE DISEASE**  
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'UNE MALADIE OCULAIRE**  
[72] KAO, BRANDON WEI-HSIANG, US  
[72] BATTU, ADARSH NARAYAN, US  
[72] JIANG, RUI JING, US  
[71] AVISI TECHNOLOGIES, LLC, US  
[85] 2020-07-22  
[86] 2019-01-23 (PCT/US2019/014663)  
[87] (WO2019/147609)  
[30] US (62/620,922) 2018-01-23  
[30] US (62/794,139) 2019-01-18

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[13] A1

[51] **Int.Cl. E21B 3/02 (2006.01) E21B 19/02 (2006.01) E21B 19/24 (2006.01) E21B 33/03 (2006.01)**  
[25] EN  
[54] **TUBING ROTATOR AND SAFETY ROD CLAMP ASSEMBLY**  
[54] **ROTATEUR DE COLONNE DE PRODUCTION ET ENSEMBLE DE SERRAGE DE TIGE DE SECURITE**  
[72] WRIGHT, ANDREW, CA  
[71] RISUN OILFLOW SOLUTIONS INC., CA  
[85] 2020-07-23  
[86] 2018-01-30 (PCT/CA2018/050107)  
[87] (WO2018/137046)  
[30] US (62/452,194) 2017-01-30

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[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/08 (2006.01) A61K 38/05 (2006.01) A61K 47/02 (2006.01) A61P 27/02 (2006.01)**  
[25] EN  
[54] **AN OPHTHALMIC PHARMACEUTICAL COMPOSITION AND ITS PREPARATION METHODS AND APPLICATIONS**  
[54] **COMPOSITION PHARMACEUTIQUE OPHTALMIQUE, SON PROCEDE DE PREPARATION ET SON APPLICATION**  
[72] LIU, ZUGUO, CN  
[72] ZHAO, YUFEN, CN  
[72] HUANG, CAIHONG, CN  
[72] WU, YANG, CN  
[72] TANG, GUO, CN  
[72] LIU, YAN, CN  
[72] XU, PENGXIANG, CN  
[71] SEINDA PHARMACEUTICAL CORPORATION, CN  
[85] 2020-07-23  
[86] 2019-01-22 (PCT/CN2019/072664)  
[87] (WO2019/144863)  
[30] CN (201810063904.7) 2018-01-23

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[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G06T 7/62 (2017.01) G16H 30/40 (2018.01) A61B 5/00 (2006.01) G06T 5/00 (2006.01) A61B 6/00 (2006.01) A61B 10/02 (2006.01)**

[25] EN

[54] **WOUND IMAGING AND ANALYSIS**

[54] **IMAGERIE ET ANALYSE DE PLAIE**

[72] DACOSTA, RALPH, CA  
[72] MEANEY, TODD E., CA  
[72] DAYNES, TODD, CA  
[72] VERMEY, GARRETT R., CA  
[72] TEENE, LIS, CA  
[72] DUNHAM, DANIELLE C., CA  
[72] ABHARI, KAMYAR, CA  
[72] MCFADDEN, STEVEN, CA  
[71] MOLECULIGHT INC., CA  
[85] 2020-07-23  
[86] 2019-01-15 (PCT/CA2019/000002)  
[87] (WO2019/148265)  
[30] US (62/625,611) 2018-02-02

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[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 9/08 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **CANNABINOID DOSING REGIME FOR ACNE**

[54] **REGIME DE DOSAGE DE CANNABINOIDE POUR L'ACNE**

[72] CALLAHAN, MATTHEW, US  
[72] THURN, MICHAEL, AU  
[71] BOTANIX PHARMACEUTICALS LTD, AU  
[85] 2020-07-23  
[86] 2019-01-24 (PCT/AU2019/050050)  
[87] (WO2019/144189)  
[30] AU (2018900227) 2018-01-24  
[30] US (62/621,274) 2018-01-24  
[30] AU (2018901649) 2018-05-14  
[30] US (62/671,542) 2018-05-15  
[30] US (62/736,024) 2018-09-25  
[30] AU (2018903599) 2018-09-25

[21] **3,089,347**  
[13] A1

[51] **Int.Cl. G01N 30/72 (2006.01) G01N 30/86 (2006.01) H01J 49/16 (2006.01) H01J 49/42 (2006.01)**

[25] EN

[54] **TRIPLE QUADRUPOLE MASS SPECTROMETERS CONFIGURED TO DETECT MRM TRANSITIONS OF PESTICIDE RESIDUES**

[54] **SPECTROMETRES DE MASSE A TRIPLE QUADRIPOLE CONFIGURES POUR DETECTER DES TRANSITIONS MRM DE RESIDUS DE PESTICIDES**

[72] DALMIA, AVINASH, US  
[71] PERKINELMER HEALTH SCIENCES, INC., US  
[85] 2020-07-22  
[86] 2019-01-23 (PCT/US2019/014693)  
[87] (WO2019/147630)  
[30] US (62/620,961) 2018-01-23  
[30] US (62/637,350) 2018-03-01

[21] **3,089,350**  
[13] A1

[51] **Int.Cl. A61K 31/216 (2006.01) A61K 31/265 (2006.01) A61K 31/381 (2006.01) A61P 25/04 (2006.01) A61P 25/06 (2006.01) A61P 29/00 (2006.01)**

[25] FR

[54] **AMINO ACID DERIVATIVES CONTAINING A DISULFANYL GROUP IN THE FORM OF AN NEP AND APN INHIBITOR FOR THE PREVENTION AND TREATMENT OF TRIGEMINAL NERVE PAIN**

[54] **DERIVES AMINOACIDES CONTENANT UN GROUPEMENT DISULFANYLE SOUS FORME D'UN INHIBITEUR DE NEP ET D'APN POUR LA PREVENTION ET LE TRAITEMENT DES DOULEURS RELATIVES AU NERF TRIJUMEAU**

[72] PORAS, HERVE, FR  
[72] OUIMET, TANJA, FR  
[72] FOURNIE ZALUSKI, MARIE CLAUDE, FR  
[72] ROQUES, BERNARD, FR  
[72] WURM, MICHEL, FR  
[71] PHARMALEADS, FR  
[85] 2020-07-22  
[86] 2019-01-25 (PCT/EP2019/051904)  
[87] (WO2019/145507)  
[30] FR (1850630) 2018-01-26

[21] **3,089,352**  
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/167 (2006.01) A61K 31/5415 (2006.01) A61P 1/02 (2006.01) A61P 13/00 (2006.01) A61P 15/00 (2006.01) A61P 17/02 (2006.01)**

[25] EN

[54] **HYDROPHILIC/HYDROPHOBIC PHARMACEUTICAL COMPOSITION AND METHOD OF ITS PRODUCTION AND USE**

[54] **COMPOSITION PHARMACEUTIQUE HYDROPHILE/HYDROPHOBE ET SON PROCEDE DE PRODUCTION ET D'UTILISATION**

[72] GERASHCHENKO, IGOR, UA  
[72] CHEPLIAKA, OLEKSII, UA  
[71] PATHELEN HEALTH CARE AG, CH  
[85] 2020-07-22  
[86] 2019-01-28 (PCT/EP2019/052021)  
[87] (WO2019/145546)  
[30] EP (18000067.1) 2018-01-29

[21] **3,089,353**  
[13] A1

[51] **Int.Cl. C09J 175/02 (2006.01) C08G 18/32 (2006.01) C08G 18/38 (2006.01) C09J 175/12 (2006.01)**

[25] EN

[54] **TWO-COMPONENT STRUCTURAL ADHESIVES**

[54] **COLLES STRUCTURALES A DEUX COMPOSANTS**

[72] HOLST, MARCO, DE  
[72] SCHMALSTIEG, LUTZ, DE  
[71] GLUE TEC INDUSTRIEKLEBSTOFFE GMBH & CO. KG, DE  
[85] 2020-07-23  
[86] 2018-11-21 (PCT/EP2018/082083)  
[87] (WO2019/154535)  
[30] DE (10 2018 202 050.7) 2018-02-09

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[21] **3,089,354**  
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/00 (2006.01) E21B 43/16 (2006.01) E21B 47/00 (2012.01) E21B 47/06 (2012.01)**

[25] EN

[54] **METHOD OF OPTIMIZING OPERATION ONE OR MORE TUBING STRINGS IN A HYDROCARBON WELL, APPARATUS AND SYSTEM FOR SAME**

[54] **PROCEDE D'OPTIMISATION DU FONCTIONNEMENT D'UNE OU DE PLUSIEURS COLONNES DE PRODUCTION DANS UN PUIT D'HYDROCARBURES, ET APPAREIL ET SYSTEME ASSOCIES**

[72] KALANTARI, MASOUD, CA  
[72] JOHNSON, TIM, CA  
[72] MACPHAIL, WARREN, CA  
[72] LAUN, LYLE, CA  
[72] RAVENSBERGEN, JOHN, CA  
[72] ARBANTANI, SIAMAK, CA  
[71] NCS MULTISTAGE INC., CA  
[85] 2020-07-23  
[86] 2019-01-30 (PCT/CA2019/050117)  
[87] (WO2019/148279)  
[30] US (62/624,079) 2018-01-30

[21] **3,089,355**  
[13] A1

[51] **Int.Cl. G01N 25/18 (2006.01) G01N 33/00 (2006.01)**

[25] FR

[54] **METHOD FOR ON-SITE MONITORING OF THE QUALITY OF THE GASES DELIVERED TO AN INDUSTRIAL CONSUMER SITE, USING THE THERMAL CONDUCTIVITY TECHNIQUE**

[54] **METHODE DE CONTROLE SUR SITE DE LA QUALITE DES GAZ LIVRES SUR UN SITE INDUSTRIEL CONSOMMATEUR UTILISANT LA TECHNIQUE DE LA CONDUCTIVITE THERMIQUE**

[72] PEYER, HEINZ, CH  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[71] CARBAGAS, CH  
[85] 2020-07-22  
[86] 2019-01-30 (PCT/EP2019/052286)  
[87] (WO2019/154697)  
[30] EP (18305119.2) 2018-02-06

[21] **3,089,356**  
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) H04W 4/80 (2018.01) A61B 5/145 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR POWER-EFFICIENT WIRELESS COMMUNICATIONS BETWEEN ELECTRONIC DEVICES**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE COMMUNICATIONS SANS FIL BASSE CONSOMMATION ENTRE DES DISPOSITIFS ELECTRONIQUES**

[72] COLE, JEAN-PIERRE, US  
[72] HUA, XUANDONG T., US  
[71] ABBOTT DIABETES CARE INC., US  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/US2019/016297)  
[87] (WO2019/152807)  
[30] US (62/626,611) 2018-02-05

[21] **3,089,358**  
[13] A1

[51] **Int.Cl. C07K 14/31 (2006.01) A61K 38/57 (2006.01) A61P 7/02 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **ANTICOAGULANT PROTEINS AND THEIR USE FOR TREATING DISEASES ASSOCIATED WITH THE ACTIVATION OF NEUTROPHILS**

[54] **PROTEINES ANTICOAGULANTES ET LEUR UTILISATION POUR LE TRAITEMENT DE MALADIES ASSOCIEES A L'ACTIVATION DE NEUTROPHILES**

[72] PIREAUX, VALERIE, BE  
[72] DEMOULIN, STEPHANIE, BE  
[72] GODFROID, EDMOND, BE  
[72] TASSIGNON, JOEL, BE  
[72] DEROCHETTE, SANDRINE, BE  
[72] GUYAUX, MICHEL, BE  
[71] BIOXODES, BE  
[85] 2020-07-22  
[86] 2019-02-01 (PCT/EP2019/052542)  
[87] (WO2019/149906)  
[30] US (62/624,997) 2018-02-01  
[30] EP (18186061.0) 2018-07-27

[21] **3,089,360**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 9/08 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **CANNABINOID DOSING REGIME FOR DERMATITIS AND INFLAMMATORY SKIN CONDITIONS**

[54] **REGIME DE DOSAGE DE CANNABINOIDE POUR DERMATITE ET AFFECTIONS CUTANEEES INFLAMMATOIRES**

[72] CALLAHAN, MATTHEW, US  
[72] THURN, MICHAEL, AU  
[71] BOTANIX PHARMACEUTICALS LTD, AU  
[85] 2020-07-23  
[86] 2019-01-24 (PCT/AU2019/050051)  
[87] (WO2019/144190)  
[30] AU (2018900226) 2018-01-24  
[30] US (62/621,225) 2018-01-24  
[30] AU (2018903600) 2018-09-25  
[30] US (62/736,052) 2018-09-25

[21] **3,089,362**  
[13] A1

[51] **Int.Cl. A01N 25/12 (2006.01) A01N 59/00 (2006.01) A01N 59/04 (2006.01) A01N 59/08 (2006.01)**

[25] EN

[54] **METHOD FOR THE PROPHYLACTIC TREATMENT OF A FOOD PRODUCT**

[54] **PROCEDE DE TRAITEMENT PROPHYLACTIQUE D'UN PRODUIT ALIMENTAIRE**

[72] PATAT, OLIVIER, FR  
[72] PASCAL, JEAN-PHILIPPE, FR  
[72] BELMOND, MATHIEU, FR  
[71] SOLVAY SA, BE  
[85] 2020-07-22  
[86] 2019-02-04 (PCT/EP2019/052606)  
[87] (WO2019/149925)  
[30] EP (18154984.1) 2018-02-02

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[21] **3,089,363**  
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01) H04W 12/00 (2009.01) H04W 84/18 (2009.01) H04W 88/16 (2009.01) H04W 28/02 (2009.01) H04L 29/06 (2006.01)**

[25] EN

[54] **SENSOR PROVISIONING IN WIRELESS SENSOR NETWORKS**

[54] **FOURNITURE DE CAPTEUR DANS DES RESEAUX DE CAPTEURS SANS FIL**

[72] PRASAD, MAHENDRA FULESHWAR, CA

[72] BENNETT, JESSE WILLIAM, US

[72] DILL, SCOTT LEONARD, CA

[72] MONTEMURRO, MICHAEL PETER, CA

[72] BARRETT, STEPHEN JOHN, GB

[72] JANTZI, JASON WAYNE, CA

[72] REAUME, MARK EDWARD, CA

[72] JOCKSCH, ADAM PAUL, CA

[72] DAMJANOVIC, SRDJAN, CA

[71] BLACKBERRY LIMITED, CA

[85] 2020-07-22

[86] 2019-02-05 (PCT/US2019/016669)

[87] (WO2019/156976)

[30] US (15/891,096) 2018-02-07

[21] **3,089,364**  
[13] A1

[51] **Int.Cl. B29C 64/245 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/40 (2017.01)**

[25] EN

[54] **ADDITIVELY MANUFACTURED STRUCTURE AND METHOD FOR MAKING THE SAME**

[54] **STRUCTURE FABRIQUEE DE MANIERE ADDITIVE ET PROCEDE POUR SA FABRICATION**

[72] RIHA, DAVID, US

[72] FIECHTER, ALEXIS, US

[72] BEDSOLE, ROBERT, US

[72] HILL, CHARLES, US

[72] NOVIKOV, TIMOFEI, US

[72] ROWE, KYLE, US

[71] LOCAL MOTORS IP, LLC, US

[85] 2020-07-22

[86] 2019-01-23 (PCT/US2019/014792)

[87] (WO2019/147700)

[30] US (62/620,891) 2018-01-23

[21] **3,089,366**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 11/00 (2006.01) A61P 31/04 (2006.01) A61P 31/16 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING NEW LACTOBACILLUS SALIVARIUS STRAINS AND METHOD FOR THE PREVENTION AND TREATMENT OF OTITIS AND UPPER RESPIRATORY INFECTIONS**

[54] **COMPOSITION COMPRENANT DE NOUVELLES SOUCHES DE LACTOBACILLUS SALIVARIUS ET METHODE DE PREVENTION ET DE TRAITEMENT DE L'OTITE ET DES INFECTIONS DES VOIES RESPIRATOIRES SUPERIEURES**

[72] JIMENEZ QUINTANA, ESTHER ANTONIA, ES

[72] RODRIGUEZ GOMEZ, JUAN MIGUEL, ES

[71] PROBISEARCH, S.L.U., ES

[85] 2020-07-22

[86] 2019-01-25 (PCT/EP2019/051858)

[87] (WO2019/145476)

[30] EP (18382046.3) 2018-01-26

[21] **3,089,367**  
[13] A1

[51] **Int.Cl. A23D 9/04 (2006.01) C11B 3/00 (2006.01) C11B 3/06 (2006.01) C11B 3/10 (2006.01) C11B 3/14 (2006.01)**

[25] EN

[54] **LIQUID OILS WITHOUT UNWANTED CONTAMINANTS**

[54] **HUILES LIQUIDES SANS CONTAMINANTS INDESIRABLES**

[72] BRUSE, FALK, DE

[71] CARGILL, INCORPORATED, US

[85] 2020-07-22

[86] 2019-02-07 (PCT/US2019/016994)

[87] (WO2019/157141)

[30] EP (18155453.6) 2018-02-07

[21] **3,089,368**  
[13] A1

[51] **Int.Cl. H05B 33/08 (2020.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR TRIAC-BASED DIMMING OF LEDS**

[54] **PROCEDES ET APPAREIL DE GRADATION DE DEL A BASE DE TRIAC**

[72] WANG, JIE DONG, US

[71] DMF, INC., US

[85] 2020-07-22

[86] 2019-01-23 (PCT/US2019/014847)

[87] (WO2019/147740)

[30] US (62/620,884) 2018-01-23

[30] US (62/788,667) 2019-01-04

[21] **3,089,369**  
[13] A1

[51] **Int.Cl. A23D 9/04 (2006.01) C11B 3/00 (2006.01) C11B 3/06 (2006.01) C11B 3/10 (2006.01) C11B 3/14 (2006.01)**

[25] EN

[54] **PALM OIL WITHOUT UNWANTED CONTAMINANTS**

[54] **HUILE DE PALME SANS CONTAMINANTS INDESIRABLES**

[72] BRUSE, FALK, DE

[71] CARGILL, INCORPORATED, US

[85] 2020-07-22

[86] 2019-02-07 (PCT/US2019/016998)

[87] (WO2019/157143)

[30] EP (18155454.4) 2018-02-07

[21] **3,089,371**  
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) G01F 25/00 (2006.01) G01N 33/543 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **DNA ORIGAMI BEADS FOR FLUORESCENCE QUANTIFICATION IN MICROFLUIDICS**

[54] **BILLES D'ORIGAMI D'ADN PERMETTANT LA QUANTIFICATION DE FLUORESCENCE DANS UN SYSTEME MICROFLUIDIQUE**

[72] SELNIHHIN, DENIS, DK

[72] SIMONSEN, BAEK JENS, DK

[72] PEDERSEN, SKOU FINN, DK

[71] TECHNICAL UNIVERSITY OF DENMARK, DK

[85] 2020-07-22

[86] 2019-02-04 (PCT/EP2019/052640)

[87] (WO2019/149932)

[30] EP (18154868.6) 2018-02-02



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[21] **3,089,372**  
[13] A1

[51] **Int.Cl. H02H 3/24 (2006.01) H02H 3/06 (2006.01)**

[25] EN

[54] **MONITORING SYSTEM AND NETWORK MONITORING CIRCUIT**

[54] **SYSTEME DE SURVEILLANCE ET CIRCUIT DE SURVEILLANCE DE RESEAU**

[72] UCHMAN, SEBASTIAN, DE

[71] TRUMA GERATETECHNIK GMBH & CO. KG, DE

[85] 2020-07-22

[86] 2019-02-05 (PCT/EP2019/052780)

[87] (WO2019/158400)

[30] DE (10 2018 103 127.0) 2018-02-13

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[21] **3,089,373**  
[13] A1

[51] **Int.Cl. G02F 1/01 (2006.01) G02B 5/30 (2006.01) G02B 27/28 (2006.01) H01P 1/18 (2006.01)**

[25] EN

[54] **POLARIZATION STATE GENERATION WITH A METASURFACE**

[54] **GENERATION D'ETAT DE POLARISATION AVEC UNE METASURFACE**

[72] RUBIN, NOAH A., US

[72] CAPASSO, FEDERICO, US

[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2020-07-22

[86] 2019-01-24 (PCT/US2019/014975)

[87] (WO2019/147828)

[30] US (62/621,453) 2018-01-24

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[21] **3,089,374**  
[13] A1

[51] **Int.Cl. A01N 43/58 (2006.01) A01P 15/00 (2006.01)**

[25] EN

[54] **USE OF ALKOXPYRAZOLES AS NITRIFICATION INHIBITORS**

[54] **UTILISATION D'ALKOXPYRAZOLES COMME INHIBITEURS DE NITRIFICATION**

[72] NESVADBA, PETER, CH

[72] CUNNINGHAM, ALLAN F., CH

[72] NAVE, BARBARA, DE

[72] WALLQUIST, OLOF, CH

[72] WISSEMEIER, ALEXANDER, DE

[72] HINDALEKAR, SHRIRANG, IN

[72] POTHI, TEJAS, IN

[71] BASF SE, DE

[85] 2020-07-22

[86] 2019-02-28 (PCT/EP2019/055007)

[87] (WO2019/166561)

[30] EP (18159322.9) 2018-02-28

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[21] **3,089,375**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G16H 40/20 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE AUTOMATED INTERPRETATION OF OPERATIONAL DATA**

[54] **SYSTEME ET PROCEDE D'INTERPRETATION AUTOMATISEE DE DONNEES OPERATIONNELLES**

[72] RODRIGUEZ, ANDREA, AU

[71] EQSTATS PTY LTD, AU

[85] 2020-07-23

[86] 2019-01-24 (PCT/AU2019/050053)

[87] (WO2019/144192)

[30] AU (2018200596) 2018-01-24

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[21] **3,089,376**  
[13] A1

[51] **Int.Cl. C09D 11/00 (2014.01) B32B 27/20 (2006.01)**

[25] EN

[54] **LAYER SEQUENCE WITH COLOUR FLOP EFFECT INCLUDING PLATELET-SHAPED EFFECT PIGMENTS**

[54] **SEQUENCE DE COUCHES A EFFET DE COULEUR VARIABLE COMPRENANT DES PIGMENTS A EFFET EN FORME DE PLAQUETTES**

[72] GIANETTI, GIUSEPPE, IT

[72] CIRIELLO, GIUSEPPE, IT

[72] NICOLIN, ADRIANO, IT

[72] SALZWEDEL, TIM, DE

[72] FRISCHMANN, LUTZ, DE

[72] KLAUSNITZER, SYLVIA, DE

[71] HUBERGROUP ITALIA, IT

[85] 2020-07-22

[86] 2019-02-11 (PCT/EP2019/053332)

[87] (WO2019/155068)

[30] EP (18156380.0) 2018-02-12

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[21] **3,089,377**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 31/16 (2006.01) C07K 16/10 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **ANTI-TMPRSS2 ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS**

[54] **ANTICORPS ANTI-TMPRSS2 ET FRAGMENTS DE LIAISON A L'ANTIGENE**

[72] PURCELL, LISA, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2020-07-22

[86] 2019-01-24 (PCT/US2019/014978)

[87] (WO2019/147831)

[30] US (62/622,292) 2018-01-26

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[21] **3,089,378**  
[13] A1

[51] **Int.Cl. A01H 3/00 (2006.01) C12Q 1/6895 (2018.01) A01H 1/04 (2006.01) A01H 17/00 (2006.01) C12N 1/14 (2006.01) G01N 33/50 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **LEAF MARKERS FOR ROOT COLONIZATION BY ARBUSCULAR MYCORRHIZAL FUNGI IN PLANTS**

[54] **MARQUEURS DE FEUILLES POUR LA COLONISATION DES RACINES PAR DES CHAMPIGNONS MYCORRHIZIENS ARBUSCULAIRES DANS DES PLANTES**

[72] BALDWIN, IAN T., DE  
[72] HALITSCHKE, RAYKO, DE  
[72] WANG, MING, DE  
[72] LI, DAPENG, DE  
[72] SCHAFER, MARTIN, DE  
[72] MCGALE, ERICA, DE  
[72] HEILING, SVEN, DE  
[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE  
[85] 2020-07-22  
[86] 2019-02-26 (PCT/EP2019/054738)  
[87] (WO2019/166437)  
[30] EP (18158922.7) 2018-02-27

[21] **3,089,379**  
[13] A1

[51] **Int.Cl. H03F 3/00 (2006.01) G01J 5/20 (2006.01) H03F 1/08 (2006.01) H03F 3/185 (2006.01) H03F 3/45 (2006.01) H03F 3/70 (2006.01) H03M 1/18 (2006.01) H03M 1/52 (2006.01)**

[25] FR

[54] **HIGH DYNAMIC DEVICE FOR INTEGRATING AN ELECTRIC CURRENT**

[54] **DISPOSITIF HAUTE DYNAMIQUE POUR L'INTEGRATION D'UN COURANT ELECTRIQUE**

[72] PETIGNY, ROGER, FR  
[72] ROBERT, PATRICK, FR  
[71] LYNRED, FR  
[85] 2020-07-22  
[86] 2019-02-27 (PCT/EP2019/054805)  
[87] (WO2019/166465)  
[30] FR (18151818) 2018-03-02

[21] **3,089,380**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 29/00 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **CHEMOKINE RECEPTOR MODULATORS AND USES THEREOF**

[54] **MODULATEURS DES RECEPTEURS DE LA CHIMIOKINE ET LEURS UTILISATIONS**

[72] JACKSON, JEFFREY J., US  
[72] KETCHAM, JOHN MICHAEL, US  
[72] OKANO, AKINORI, US  
[72] REILLY, MAUREEN KAY, US  
[72] ROBLES-RESENDIZ, OMAR, US  
[72] SCHWARZ, JACOB BRADLEY, US  
[72] TIVITMAHAISOON, PARCHAREE, US  
[72] WUSTROW, DAVID JUERGEN, US  
[72] YOUNAI, ASHKAAN, US  
[72] ZIBINSKY, MIKHAIL, US  
[71] RAPT THERAPEUTICS, INC., US  
[85] 2020-07-22  
[86] 2019-01-24 (PCT/US2019/015023)  
[87] (WO2019/147862)  
[30] US (62/622,771) 2018-01-26  
[30] US (62/772,027) 2018-11-27  
[30] US (62/784,161) 2018-12-21

[21] **3,089,381**  
[13] A1

[51] **Int.Cl. A01N 43/58 (2006.01) A01P 15/00 (2006.01)**

[25] EN

[54] **USE OF PYRAZOLE PROPARGYL ETHERS AS NITRIFICATION INHIBITORS**

[54] **UTILISATION D'ETHERS DE PYRAZOLE PROPARGYLE COMME INHIBITEURS DE NITRIFICATION**

[72] NESVADBA, PETER, CH  
[72] CUNNINGHAM, ALLAN FRANCIS, CH  
[72] HINDALEKAR, SHIRANG, IN  
[72] POTHI, TEJAS, IN  
[72] NAVE, BARBARA, DE  
[72] WALLQUIST, OLOF, CH  
[72] WISSEMEIER, ALEXANDER, DE  
[71] BASF SE, DE  
[85] 2020-07-22  
[86] 2019-02-28 (PCT/EP2019/055004)  
[87] (WO2019/166558)  
[30] EP (18159323.7) 2018-02-28

[21] **3,089,382**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**

[25] EN

[54] **METHOD FOR SUBMITTING DATA IN SEQUENCE, NETWORK DEVICE AND TERMINAL DEVICE**

[54] **PROCEDE DE SOUMISSION DE DONNEES EN SEQUENCE, DISPOSITIF DE RESEAU ET DISPOSITIF TERMINAL**

[72] YOU, XIN, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-07-23  
[86] 2018-09-10 (PCT/CN2018/104908)  
[87] (WO2019/237530)  
[30] CN (PCT/CN2018/091672) 2018-06-15

[21] **3,089,384**  
[13] A1

[51] **Int.Cl. A01K 43/00 (2006.01) A01K 45/00 (2006.01)**

[25] EN

[54] **METHOD FOR SAMPLING AN EGG**

[54] **PROCEDE DE PRELEVEMENT D'ECHANTILLON SUR UN ŒUF**

[72] METER, TJJTZE, NL  
[71] SELEGGT GMBH, DE  
[85] 2020-07-23  
[86] 2018-02-07 (PCT/EP2018/053094)  
[87] (WO2019/154493)

[21] **3,089,385**  
[13] A1

[51] **Int.Cl. E04B 1/26 (2006.01) E04C 3/00 (2006.01) F16B 15/00 (2006.01)**

[25] EN

[54] **HINGED CONNECTOR**

[54] **CONNECTEUR ARTICULE**

[72] BENTON, JAMES M., US  
[72] HOLLAND, RACHEL MARIE, US  
[72] EVANS, THOMAS G., US  
[72] STAUFFER, TIMOTHY M., US  
[71] SIMPSON STRONG-TIE COMPANY INC., US  
[85] 2020-07-22  
[86] 2019-01-25 (PCT/US2019/015285)  
[87] (WO2019/148034)  
[30] US (62/622,727) 2018-01-26

## Demandes PCT entrant en phase nationale

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[21] **3,089,386**  
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**  
[25] EN  
[54] **BEVERAGE PREPARATION MACHINE WITH CAPSULE RECOGNITION**  
[54] **MACHINE DE PREPARATION DE BOISSONS A RECONNAISSANCE DE CAPSULE**  
[72] SACHE, LAURENT, FR  
[72] OGGENFUSS, CHRISTIAN, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2020-07-23  
[86] 2018-06-15 (PCT/EP2018/065935)  
[87] (WO2019/154526)  
[30] EP (18156197.8) 2018-02-09

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[21] **3,089,387**  
[13] A1

[51] **Int.Cl. E21B 33/00 (2006.01) E21B 33/12 (2006.01) E21B 34/00 (2006.01) E21B 34/06 (2006.01)**  
[25] EN  
[54] **GAS CAPABLE FRANGIBLE DISC BARRIER VALVE**  
[54] **VANNE BARRIERE A DISQUE DE RUPTURE APPROPRIEE POUR UNE UTILISATION AVEC DES GAZ**  
[72] FRAZIER, W. LYNN, US  
[72] BAILEY, STEVEN, US  
[72] ABT, RONALD, US  
[71] MAGNUM OIL TOOLS INTERNATIONAL, LTD., US  
[85] 2020-07-22  
[86] 2019-01-28 (PCT/US2019/015461)  
[87] (WO2019/148128)  
[30] US (62/622,678) 2018-01-26

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[21] **3,089,388**  
[13] A1

[51] **Int.Cl. C07D 239/70 (2006.01) C07D 403/14 (2006.01)**  
[25] EN  
[54] **METHODS FOR PRODUCING (6S,15S)-3,8,13,18-TETRAAZAICOSANE-6,15-DIOL**  
[54] **PROCEDES DE PRODUCTION DE (6S,15S)-3,8,13,18-TETRAAZAICOSANE-6,15-DIOL**  
[72] SHANKER, P. SATHAY, IN  
[72] RAI U, SANKAPPA, IN  
[72] VENGHATRAGHAVAN, MURALI, IN  
[72] VENGATESAN, SELVAM, IN  
[72] PATIL, RAHUL, IN  
[72] BHARATHKUMAR, PADAVALACHANDU, IN  
[71] SUN BIOPHARMA, INC., US  
[85] 2020-07-22  
[86] 2019-01-29 (PCT/US2019/015581)  
[87] (WO2019/152373)  
[30] US (62/623,641) 2018-01-30

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[21] **3,089,390**  
[13] A1

[51] **Int.Cl. E21B 1/02 (2006.01) E21B 7/20 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR UNDERGROUND PIPE INSTALLATION**  
[54] **SYSTEMES ET PROCEDES D'INSTALLATION DE TUBE SOUTERRAIN**  
[72] ZILLANTE, ROBERTO ANTONIO, US  
[72] ZILLANTE, DANIEL ANTONIO, US  
[71] ZILPER TRENCHLESS, INC., US  
[85] 2020-07-22  
[86] 2019-02-08 (PCT/US2019/017198)  
[87] (WO2019/160757)  
[30] US (62/629,865) 2018-02-13

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[21] **3,089,391**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/351 (2006.01) A61P 29/00 (2006.01) A61P 37/04 (2006.01)**  
[25] EN  
[54] **COMPOSITION AND METHOD FOR REDUCING CHEMOTHERAPY-INDUCED NEUTROPENIA VIA THE ADMINISTRATION OF PLINABULIN AND A G-CSF AGENT**  
[54] **COMPOSITION ET METHODE POUR REDUIRE LA NEUTROPENIE INDUITE PAR CHIMIOOTHERAPIE PAR L'ADMINISTRATION DE PLINABULINE ET DE L'AGENT G-CSF**  
[72] MOHANLAL, RAMON, US  
[72] HUANG, LAN, US  
[72] LLOYD, GEORGE KENNETH, US  
[71] BEYONDSRING PHARMACEUTICALS, INC., US  
[85] 2020-07-22  
[86] 2019-01-30 (PCT/US2019/015867)  
[87] (WO2019/152530)  
[30] US (62/625,290) 2018-02-01  
[30] US (62/713,486) 2018-08-01  
[30] US (62/749,060) 2018-10-22  
[30] US (62/757,648) 2018-11-08

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| [21] <b>3,089,393</b><br>[13] A1                                                                                                                                                                                                                                                                                                              | [21] <b>3,089,396</b><br>[13] A1                                                                                | [21] <b>3,089,399</b><br>[13] A1                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| [51] <b>Int.Cl. B01L 3/02 (2006.01) C12M 1/00 (2006.01)</b>                                                                                                                                                                                                                                                                                   | [51] <b>Int.Cl. A61K 9/51 (2006.01) A61K 47/60 (2017.01) A61L 24/00 (2006.01)</b>                               | [51] <b>Int.Cl. A01N 25/30 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)</b>         |
| [25] EN                                                                                                                                                                                                                                                                                                                                       | [25] EN                                                                                                         | [25] EN                                                                                    |
| [54] <b>MOTION CONTROLLING MECHANISM, LIQUID DISCHARGING NOZZLE, MICRODROPLET GENERATING DEVICE AND METHOD, LIQUID DRIVING MECHANISM AND METHOD, MICRODROPLET GENERATING METHOD, AND SURFACE PROCESSING METHOD OF LIQUID DISCHARGING NOZZLE</b>                                                                                               | [54] <b>NANOPARTICLE-HYDROGEL COMPOSITE FOR NUCLEIC ACID MOLECULE DELIVERY</b>                                  | [54] <b>COMPOSITIONS COMPRISING WATER-SOLUBLE HERBICIDES AND USE THEREOF</b>               |
| [54] <b>MECANISME DE COMMANDE DE MOUVEMENT, POINTE DE PIPETTE D'EJECTION DE LIQUIDE, DISPOSITIF DE GENERATION DE MICRO-GOUTTELETTES, MECANISME D'ENTRAINEMENT DE FLUIDE ET PROCEDE DE COMMANDE DE FLUIDE, PROCEDE DE GENERATION DE MICRO-GOUTTELETTES ET PROCEDE DE TRAITEMENT DE SURFACE POUR POINTE DE PIPETTE DE PROJECTION DE LIQUIDE</b> | [54] <b>COMPOSITE NANOPARTICULE-HYDROGEL POUR L'ADMINISTRATION DE MOLECULES D'ACIDES NUCLEIQUES</b>             | [54] <b>COMPOSITIONS CONTENANT DES HERBICIDES SOLUBLES DANS L'EAU, ET LEUR UTILISATION</b> |
| [72] SHENG, GUANGJI, CN                                                                                                                                                                                                                                                                                                                       | [72] SCHNEIDER, JOEL, US                                                                                        | [72] BAUR, PETER, DE                                                                       |
| [71] SNIPER (BEIJING) MEDICAL TECHNOLOGIES CO., LTD, CN                                                                                                                                                                                                                                                                                       | [72] MAJUMDER, POULAMI, US                                                                                      | [72] SCHWEINITZER, GERD, DE                                                                |
| [85] 2020-07-23                                                                                                                                                                                                                                                                                                                               | [72] HOANG, CHUONG, US                                                                                          | [72] BAUER, MARTIN, DE                                                                     |
| [86] 2019-01-24 (PCT/CN2019/072926)                                                                                                                                                                                                                                                                                                           | [72] SINGH, ANAND, US                                                                                           | [71] CLARIANT INTERNATIONAL LTD, CH                                                        |
| [87] (WO2019/144894)                                                                                                                                                                                                                                                                                                                          | [71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US | [85] 2020-07-23                                                                            |
| [30] CN (201810070377.2) 2018-01-24                                                                                                                                                                                                                                                                                                           | [85] 2020-07-22                                                                                                 | [86] 2019-01-14 (PCT/EP2019/050825)                                                        |
| [30] CN (201810884995.0) 2018-08-06                                                                                                                                                                                                                                                                                                           | [86] 2019-02-08 (PCT/US2019/017354)                                                                             | [87] (WO2019/149514)                                                                       |
|                                                                                                                                                                                                                                                                                                                                               | [87] (WO2019/157381)                                                                                            | [30] DE (10 2018 201 551.1) 2018-02-01                                                     |
|                                                                                                                                                                                                                                                                                                                                               | [30] US (62/628,961) 2018-02-10                                                                                 |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [21] <b>3,089,397</b><br>[13] A1                                                                                |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [51] <b>Int.Cl. E05B 19/00 (2006.01)</b>                                                                        |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [25] EN                                                                                                         |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [54] <b>FLAT KEY PROFILE FOR A LOCK-KEY SYSTEM</b>                                                              |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [54] <b>PROFILE DE CLE PLATE POUR SYSTEME SERRURE-CLE</b>                                                       |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [72] MATSCHKE, STEFFEN, DE                                                                                      |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [71] ASSA ABLOY                                                                                                 |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | SICHERHEITSTECHNIK GMBH, DE                                                                                     |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [85] 2020-07-23                                                                                                 |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [86] 2019-01-18 (PCT/DE2019/100050)                                                                             |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [87] (WO2019/144990)                                                                                            |                                                                                            |
|                                                                                                                                                                                                                                                                                                                                               | [30] DE (10 2018 101 438.4) 2018-01-23                                                                          |                                                                                            |
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## Demandes PCT entrant en phase nationale

| [21] 3,089,402<br>[13] A1                                                                                                                                                                                                                                                                                                                         | [21] 3,089,406<br>[13] A1                                                                                      | [21] 3,089,411<br>[13] A1                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [51] <b>Int.Cl. B01F 17/54 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6851 (2018.01) B01J 2/06 (2006.01) C12M 1/38 (2006.01) G01N 1/00 (2006.01) G01N 1/42 (2006.01) G01N 1/44 (2006.01) H05B 1/02 (2006.01) G01N 21/64 (2006.01)</b>                                                                                           | [51] <b>Int.Cl. C12Q 1/6886 (2018.01)</b>                                                                      | [51] <b>Int.Cl. C12Q 1/68 (2018.01) G01N 21/64 (2006.01)</b>                                                                                                                                                                                                                                                                                                                       |
| [25] EN                                                                                                                                                                                                                                                                                                                                           | [25] EN                                                                                                        | [25] EN                                                                                                                                                                                                                                                                                                                                                                            |
| [54] <b>MICRODROPLET CONTAINER AND METHOD FOR MANUFACTURING THE SAME, METHOD FOR SPREADING MICRODROPLETS, MICRODROPLET-GENERATING KIT, TEMPERATURE-CONTROLLING DEVICE, OIL PHASE COMPOSITION FOR MICRODROPLET GENERATING AND METHOD FOR TREATING THE SAME</b>                                                                                     | [54] <b>MOLECULAR SIGNATURE AND USE THEREOF FOR THE IDENTIFICATION OF INDOLENT PROSTATE CANCER</b>             | [54] <b>DIGITAL PCR DETECTION APPARATUS, DIGITAL PCR QUANTITATIVE DETECTION METHOD, MULTI-VOLUME DIGITAL PCR QUANTITATIVE ANALYSIS METHOD, DIGITAL PCR DETECTION METHOD, NUCLEIC ACID DETECTION MICROSPHERE, PREPARATION METHOD OF NUCLEIC ACID DETECTION MICROSPHERE, NUCLEIC ACID DETECTION MICROSPHERE KIT AND HIGH-THROUGHPUT NUCLEIC ACID DETECTION METHOD</b>                |
| [54] <b>RECIPIENT DE MICROGOUTTELETTES, PROCEDE DE PREPARATION DE RECIPIENT DE MICROGOUTTELETTES, PROCEDE D'ETALEMENT DE MICROGOUTTELETTES, KIT DE FORMATION DE MICROGOUTTELETTES, DISPOSITIF DE REGULATION DE TEMPERATURE, COMPOSITION DE PHASE HUILEUSE PERMETTANT LA FORMATION DE MICROGOUTTELETTES ET PROCEDE DE TRAITEMENT CORRESPONDANT</b> | [54] <b>SIGNATURE MOLECULAIRE ET SON UTILISATION POUR L'IDENTIFICATION D'UN CANCER INDOLENT DE LA PROSTATE</b> | [54] <b>INSTRUMENT DE DETECTION POUR PCR NUMERIQUE, PROCEDE DE DETECTION QUANTITATIVE POUR PCR NUMERIQUE, PROCEDE D'ANALYSE QUANTITATIVE POUR PCR NUMERIQUE AYANT UN VOLUME DIFFERENT, PROCEDE DE DETECTION POUR PCR NUMERIQUE, MICROSPHERE POUR TEST D'ACIDE NUCLEIQUE, PROCEDE DE PREPARATION DE MICROSPHERE POUR TEST D'ACIDE NUCLEIQUE, KIT DE MICROSPHERE POUR TEST D'ACI</b> |
| [72] SHENG, GUANGJI, CN                                                                                                                                                                                                                                                                                                                           | [72] CUSSENOT, OLIVIER, FR                                                                                     | [72] SHENG, GUANGJI, CN                                                                                                                                                                                                                                                                                                                                                            |
| [71] SNIPER (BEIJING) MEDICAL TECHNOLOGIES CO., LTD, CN                                                                                                                                                                                                                                                                                           | [72] KAMOUN, AURELIE, FR                                                                                       | [71] SNIPER (BEIJING) MEDICAL TECHNOLOGIES CO., LTD, CN                                                                                                                                                                                                                                                                                                                            |
| [85] 2020-07-23                                                                                                                                                                                                                                                                                                                                   | [72] DE REYNIES, AURELIEN, FR                                                                                  | [85] 2020-07-23                                                                                                                                                                                                                                                                                                                                                                    |
| [86] 2019-01-24 (PCT/CN2019/072969)                                                                                                                                                                                                                                                                                                               | [72] CANCEL-TASSIN, GERALDINE, FR                                                                              | [86] 2019-01-24 (PCT/CN2019/072974)                                                                                                                                                                                                                                                                                                                                                |
| [87] (WO2019/144905)                                                                                                                                                                                                                                                                                                                              | [72] FROMONT-HANKARD, GAELLE, FR                                                                               | [87] (WO2019/144907)                                                                                                                                                                                                                                                                                                                                                               |
| [30] CN (201810070377.2) 2018-01-24                                                                                                                                                                                                                                                                                                               | [71] SORBONNE UNIVERSITE, FR                                                                                   | [30] CN (201810070377.2) 2018-01-24                                                                                                                                                                                                                                                                                                                                                |
| [30] CN (201810843257.1) 2018-07-27                                                                                                                                                                                                                                                                                                               | [71] CTRE RECHERCHE PATHOLOGIES PROSTATIQUES, FR                                                               | [30] CN (201810932950.6) 2018-08-16                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                   | [71] LIGUE NATIONALE CONTRE LE CANCER, FR                                                                      | [30] CN (201811392278.2) 2018-11-21                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                   | [71] ASSISTANCE PUBLIQUE HOPITAUX DE PARIS, FR                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [71] INSERM (INSTITUT DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR                                             |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [71] UNIVERSITE DE TOURS, FR                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [71] CENTRE HOSPITALIER REGIONAL UNIVERSITAIRE DE TOURS, FR                                                    |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [85] 2020-07-23                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [86] 2019-01-25 (PCT/EP2019/051870)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [87] (WO2019/145483)                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                   | [30] EP (18305060.8) 2018-01-25                                                                                |                                                                                                                                                                                                                                                                                                                                                                                    |

## PCT Applications Entering the National Phase

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[21] **3,089,413**  
[13] A1

[51] **Int.Cl. B60L 13/03 (2006.01) H02K 11/215 (2016.01) H02K 41/03 (2006.01)**

[25] EN

[54] **TRANSPORT UNIT FOR A LONG STATOR LINEAR MOTOR**

[54] **UNITE DE TRANSPORT POUR MOTEUR LINEAIRE A LONG STATOR**

[72] FORTHUBER, FRIEDRICH, AT

[71] B&R INDUSTRIAL AUTOMATION GMBH, AT

[85] 2020-07-23

[86] 2019-01-18 (PCT/EP2019/051247)

[87] (WO2019/145227)

[30] EP (18153240.9) 2018-01-24

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[21] **3,089,414**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **CRYSTAL FORM OF 1H-IMIDAZO[4,5-B]PYRIDINE-2(3H)-ONE COMPOUND AND PREPARATION PROCESS THEREFOR**

[54] **FORME CRISTALLINE D'UN COMPOSE 1H-IMIDAZO[4,5-B]PYRIDINE-2(3H)-ONE ET SON PROCEDE DE PREPARATION**

[72] LEI, MAOYI, CN

[72] XU, YU, CN

[72] LUO, YUNFU, CN

[71] SHIJIAZHANG SAGACITY NEW DRUG DEVELOPMENT COMPANY, LTD., CN

[85] 2020-07-23

[86] 2019-01-29 (PCT/CN2019/073701)

[87] (WO2019/144970)

[30] CN (201810085704.1) 2018-01-29

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[21] **3,089,415**  
[13] A1

[51] **Int.Cl. A47J 31/06 (2006.01) A47J 31/40 (2006.01) B65D 85/804 (2006.01)**

[25] EN

[54] **POD AND DISPENSING METHOD**

[54] **DOSETTE ET PROCEDE DE DISTRIBUTION**

[72] KENNEDY, BRIAN GEORGE, GB

[72] BEDFORD, EDWARD ALEXANDER, US

[72] LAVERACK, JOHN R., US

[72] RIEHM, GEORGE EDWARD, US

[72] WESEMAN, KURT RAYMOND, US

[72] RENFREW, BRUCE, GB

[72] WILLIAMSON, JAMES, GB

[71] NE INNOVATIONS LIMITED, GB

[85] 2020-07-23

[86] 2019-01-23 (PCT/GB2019/050194)

[87] (WO2019/145715)

[30] US (62/622,225) 2018-01-26

[30] GB (1817946.5) 2018-11-02

[30] GB (1817948.1) 2018-11-02

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[21] **3,089,417**  
[13] A1

[51] **Int.Cl. C07C 67/39 (2006.01) C07C 51/16 (2006.01) C07C 59/105 (2006.01) C07C 59/48 (2006.01) C07C 69/675 (2006.01) C07C 69/732 (2006.01)**

[25] EN

[54] **PROCESS OF PRODUCING ALPHA-HYDROXY COMPOUNDS AND USES THEREOF**

[54] **PROCEDE DE PRODUCTION DE COMPOSES ALPHA-HYDROXY ET LEURS UTILISATIONS**

[72] TAARNING, ESBEN, DK

[72] TOLBORG, SOREN, DK

[72] MARTINEZ ESPIN, JUAN SALVADOR, DK

[71] HALDOR TOPSOE A/S, DK

[85] 2020-07-23

[86] 2019-01-23 (PCT/EP2019/051632)

[87] (WO2019/154624)

[30] DK (PA 2018 00064) 2018-02-09

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[21] **3,089,418**  
[13] A1

[51] **Int.Cl. A47J 31/22 (2006.01) A47J 31/06 (2006.01)**

[25] EN

[54] **DISPENSING APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE DISTRIBUTION**

[72] KENNEDY, BRIAN GEORGE, GB

[72] BEDFORD, EDWARD ALEXANDER, US

[72] LAVERACK, JOHN R., US

[72] RIEHM, GEORGE EDWARD, US

[72] WESEMAN, KURT RAYMOND, US

[72] RENFREW, BRUCE, GB

[72] WILLIAMSON, JAMES, GB

[71] NE INNOVATIONS LIMITED, GB

[85] 2020-07-23

[86] 2019-01-23 (PCT/GB2019/050196)

[87] (WO2019/145716)

[30] US (62/622,225) 2018-01-26

[30] GB (1817948.1) 2018-11-02

[30] GB (1817946.5) 2018-11-02

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[21] **3,089,419**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **THERAPEUTIC MOLECULES THAT BIND TO LAG3 AND PD1**

[54] **MOLECULES THERAPEUTIQUES SE LIANT A LAG3 ET PD1**

[72] EDWARDS, CAROLYN, GB

[72] SETTE, ANGELICA, GB

[72] OSUCH, ISOBEL, GB

[72] TENG, YUMIN, GB

[72] LEGG, JAMES, GB

[72] ESCORS MURUGARREN, DAVID, ES

[71] CRESCENDO BIOLOGICS LIMITED, GB

[85] 2020-07-23

[86] 2019-02-18 (PCT/GB2019/050425)

[87] (WO2019/158942)

[30] GB (1802573.4) 2018-02-16

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[21] **3,089,420**  
[13] A1

[51] **Int.Cl. A61M 5/315 (2006.01)**  
[25] EN  
[54] **MONITORING DEVICE WITH UNIVERSAL ADAPTER TO DRUG INJECTION PENS**  
[54] **DISPOSITIF DE SURVEILLANCE AVEC ADAPTATEUR UNIVERSEL POUR STYLOS D'INJECTION DE MEDICAMENT**  
[72] RUIZ-VALDEPENAS MARTIN DE ALMAGRO, LUIS, ES  
[72] LOPEZ SANCHEZ PASCUALA, JOSE LUIS, ES  
[72] SOTOMAYOR VAZQUEZ, ANGEL, ES  
[72] ANGULO ARAGON, GUILLERMO, ES  
[72] BARRANCO ZAFRA, JOSE MARIA, ES  
[72] ARENAS LATORRE, JESUS, ES  
[71] INSULCLOUD, S.L., ES  
[85] 2020-07-23  
[86] 2019-01-24 (PCT/EP2019/051741)  
[87] (WO2019/145415)  
[30] EP (18382039.8) 2018-01-24

[21] **3,089,422**  
[13] A1

[51] **Int.Cl. H04N 21/63 (2011.01)**  
[25] EN  
[54] **A LIVE VIDEO RENDERING AND BROADCASTING SYSTEM**  
[54] **SYSTEME DE RENDU ET DE DIFFUSION VIDEO EN DIRECT**  
[72] MATHISEN, CARL GUNNAR HORN, NO  
[72] OKSENDAL, ATLE, NO  
[71] SIXTY AS, NO  
[85] 2020-07-23  
[86] 2019-01-24 (PCT/EP2019/051760)  
[87] (WO2019/145426)  
[30] EP (18153115.3) 2018-01-24

[21] **3,089,424**  
[13] A1

[51] **Int.Cl. A61F 5/01 (2006.01)**  
[25] EN  
[54] **ACTIVE HAND ORTHOSIS**  
[54] **ORTHESE MANUELLE ACTIVE**  
[72] GELANYI, LASZLO, HU  
[71] PHOENIX INNOVATION KFT., HU  
[85] 2020-07-23  
[86] 2018-01-10 (PCT/HU2018/050002)  
[87] (WO2018/138537)  
[30] HU (P1700038) 2017-01-25

[21] **3,089,425**  
[13] A1

[51] **Int.Cl. A61M 1/00 (2006.01) A47L 9/02 (2006.01)**  
[25] EN  
[54] **DEVICE FOR REMOVING BY SUCTION A BODILY FLUID, PRIMARILY NASAL FLUID**  
[54] **DISPOSITIF D'ELIMINATION PAR ASPIRATION DE FLUIDE CORPOREL, PRINCIPALEMENT DE FLUIDE NASAL**  
[72] ILLES CSOK, ANNA, HU  
[71] ILLES CSOK ES TARSZA KFT, HU  
[85] 2020-07-23  
[86] 2019-01-11 (PCT/HU2019/000001)  
[87] (WO2019/150143)  
[30] HU (P1800039) 2018-01-31

[21] **3,089,426**  
[13] A1

[51] **Int.Cl. A61K 35/744 (2015.01) A23L 7/00 (2016.01) A23L 9/00 (2016.01) A23L 19/00 (2016.01) A23L 2/00 (2006.01) A61P 17/06 (2006.01)**  
[25] EN  
[54] **PROBIOTIC FOR THE TREATMENT OF PSORIASIS**  
[54] **PROBIOTIQUE POUR LE TRAITEMENT DU PSORIASIS**  
[72] DI GIROLAMO, STEFANO, IT  
[72] DILUVIO, LAURA, IT  
[72] ZANGRILLI, ARIANNA, IT  
[71] DI GIROLAMO, STEFANO, IT  
[71] DILUVIO, LAURA, IT  
[71] ZANGRILLI, ARIANNA, IT  
[85] 2020-07-23  
[86] 2019-01-24 (PCT/EP2019/051778)  
[87] (WO2019/145438)  
[30] IT (102018000002052) 2018-01-26

[21] **3,089,427**  
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A46B 15/00 (2006.01) B43K 23/06 (2006.01) B43K 27/00 (2006.01)**  
[25] EN  
[54] **AN IMPROVED BRUSH**  
[54] **BROSSE AMELIOREE**  
[72] ASHLEY, MATILDA ELVIRA FILIPPA, GB  
[71] DOUBLE TAKE LIMITED, GB  
[85] 2020-07-23  
[86] 2019-01-21 (PCT/IB2019/000020)  
[87] (WO2019/145779)  
[30] GB (1801247.6) 2018-01-25

[21] **3,089,428**  
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) B29C 45/00 (2006.01) F16K 31/00 (2006.01)**  
[25] EN  
[54] **BREATH ACTUATED INHALER**  
[54] **INHALATEUR ACTIONNE PAR LA RESPIRATION**  
[72] WALSH, DECLAN, IE  
[72] PRENDERGAST, PAUL, IE  
[72] BUCK, DANIEL, IE  
[72] KENT, TREVOR, IE  
[72] THOMPSON, NIALL, IE  
[71] NORTON (WATERFORD) LIMITED, IE  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/EP2019/051915)  
[87] (WO2019/145514)  
[30] GB (1801309.4) 2018-01-26

[21] **3,089,429**  
[13] A1

[51] **Int.Cl. A61B 5/107 (2006.01) A61B 5/00 (2006.01) A61B 17/17 (2006.01) A61F 2/46 (2006.01)**  
[25] EN  
[54] **DYNAMIC LIGAMENT BALANCING SYSTEM WITH PIN POSITIONING BLOCK**  
[54] **SYSTEME D'EQUILIBRAGE DYNAMIQUE DE LIGAMENT AVEC BLOC DE POSITIONNEMENT DE BROCHE**  
[72] PASZICSNYEK, THOMAS, AT  
[71] MIT ENTWICKLUNGS GMBH, AT  
[85] 2020-07-23  
[86] 2019-01-28 (PCT/IB2019/000140)  
[87] (WO2019/145793)  
[30] US (15/880,955) 2018-01-26

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[21] **3,089,430**  
[13] A1

[51] **Int.Cl. A61L 27/14 (2006.01) A61L 27/50 (2006.01) C12M 3/00 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **CELL CULTURING DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE CULTURE CELLULAIRE**

[72] DEUTSCH, MORDECHAI, IL

[72] ZURGIL, NAOMI, IL

[72] AFRIMZON, ELENA, IL

[72] MOSHKOV, SERGEI, IL

[72] RAVID-HERMESH, ORIT, IL

[72] SHAFRAN, YANA, IL

[72] SOBOLEV, MARIA, IL

[71] BAR-ILAN UNIVERSITY, IL

[85] 2020-07-23

[86] 2019-01-22 (PCT/IB2019/050517)

[87] (WO2019/145847)

[30] US (62/620,497) 2018-01-23

[21] **3,089,431**  
[13] A1

[51] **Int.Cl. F01K 23/10 (2006.01) B63B 35/44 (2006.01) F01K 13/00 (2006.01) F01K 15/00 (2006.01)**

[25] EN

[54] **OFFSHORE ELECTRICAL POWER PLANT**

[54] **CENTRALE ELECTRIQUE EN MER**

[72] RADZI, NOR FADILAH AHMAD, MC

[72] SASSEN, WOUTER, MC

[71] SINGLE BUOY MOORINGS INC., CH

[85] 2020-07-23

[86] 2019-01-29 (PCT/EP2019/052114)

[87] (WO2019/145560)

[30] EP (18153955.2) 2018-01-29

[21] **3,089,434**  
[13] A1

[51] **Int.Cl. D21H 27/10 (2006.01) D21H 19/18 (2006.01) D21H 19/20 (2006.01) D21H 19/62 (2006.01) D21H 19/82 (2006.01)**

[25] EN

[54] **HEAT-SEALABLE BARRIER PAPER**

[54] **PAPIER BARRIERE THERMOSODABLE**

[72] GRUNDL, LENA-MARIA, DE

[72] EL-KARZAZI, NADIA, DE

[72] BECKER, DIETER, DE

[72] KALESIOS, KONSTANTINOS, DE

[72] SCHLEGEL, JOCHEN, DE

[71] MITSUBISHI HITEC PAPER EUROPE GMBH, DE

[85] 2020-07-23

[86] 2019-02-13 (PCT/EP2019/053517)

[87] (WO2019/158566)

[30] DE (10 2018 103 206.4) 2018-02-13

[30] DE (10 2018 113 695.1) 2018-06-08

[30] DE (10 2019 103 343.8) 2019-02-11

[21] **3,089,436**  
[13] A1

[51] **Int.Cl. C07D 277/20 (2006.01) C07D 277/36 (2006.01)**

[25] EN

[54] **SYNTHESIS OF 5-CHLORO-2-[(3,4,4-TRIFLUORO-3-BUTEN-1-YL)THIO]-THIAZOLE**

[54] **SYNTHESE DE 5-CHLORO-2-[(3,4,4-TRIFLUORO-3-BUTEN-1-YL) THIO]-THIAZOLE**

[72] RUBINOV, BORIS, IL

[72] ZELL, THOMAS, IL

[71] ADAMA MAKHTESHIM, LTD., IL

[85] 2020-07-23

[86] 2019-01-22 (PCT/IB2019/050533)

[87] (WO2019/145857)

[30] US (62/620,769) 2018-01-23

[21] **3,089,437**  
[13] A1

[51] **Int.Cl. F04B 53/16 (2006.01) F04B 53/22 (2006.01)**

[25] EN

[54] **PUMPS**

[54] **POMPES**

[72] STOKKEVAG, TERJE, NO

[72] SANDNES, GEIR KVALSUND, NO

[72] HUSOY, ODDGEIR, NO

[71] IMPACT SOLUTIONS AS, NO

[85] 2020-07-23

[86] 2019-01-23 (PCT/IB2019/050571)

[87] (WO2019/145874)

[30] US (62/621,125) 2018-01-24

[21] **3,089,438**  
[13] A1

[51] **Int.Cl. B01J 27/18 (2006.01) B01D 53/94 (2006.01) B01J 21/04 (2006.01) B01J 23/10 (2006.01) B01J 35/00 (2006.01) B01J 35/02 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01)**

[25] EN

[54] **RARE-EARTH PHOSPHATE ALUMINA COMPOSITE FOR USE IN EMISSION CONTROL CATALYSTS AND METHOD FOR MAKING SAME**

[54] **COMPOSITE D'ALUMINE-PHOSPHATE DE TERRE RARE DESTINE A ETRE UTILISE DANS DES CATALYSEURS DE CONTROLE D'EMISSION ET SON PROCEDE DE FABRICATION**

[72] HARMENING, THOMAS, DE

[72] SCHONEBORN, MARCOS, DE

[72] FABIAN, JOHANNA, DE

[71] SASOL GERMANY GMBH, DE

[85] 2020-07-23

[86] 2019-02-20 (PCT/EP2019/054249)

[87] (WO2019/162349)

[21] **3,089,439**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 9/50 (2006.01) A61K 31/137 (2006.01) A61K 31/5383 (2006.01) A61K 31/7036 (2006.01) A61K 47/18 (2017.01)**

[25] EN

[54] **HIGH DOSE DELIVERY OF INHALED THERAPEUTICS**

[54] **ADMINISTRATION A DOSES ELEVEES D'AGENTS THERAPEUTIQUES INHALES**

[72] SON, YOEN-JU, US

[72] HUANG, DANIEL, US

[72] MILLER, DANFORTH, US

[72] WEERS, JEFFRY, US

[71] NOVARTIS AG, CH

[85] 2020-07-23

[86] 2019-01-24 (PCT/IB2019/050607)

[87] (WO2019/145897)

[30] US (62/622,464) 2018-01-26



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[21] **3,089,440**  
[13] A1

[51] **Int.Cl. A61K 31/4468 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 25/02 (2006.01) A61P 25/04 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **NEW CENTRALLY-ACTIVE GHRELIN AGONIST AND MEDICAL USES THEREOF**

[54] **NOUVEL AGONISTE DE LA GHRELIN A ACTION CENTRALE ET UTILISATIONS MEDICALES ASSOCIEES**

[72] GIULIANO, CLAUDIO, CH

[72] PIETRA, CLAUDIO, CH

[72] GARCIA RUBIO, SILVINA, US

[72] GUAINAZZI, ANGELO, US

[72] MARTINEZ-LOI, MARIELLE, CH

[71] HELSINN HEALTHCARE SA, CH

[85] 2020-07-23

[86] 2019-03-14 (PCT/EP2019/056438)

[87] (WO2019/179878)

[30] EP (18163425.4) 2018-03-22

[21] **3,089,442**  
[13] A1

[51] **Int.Cl. C07D 327/04 (2006.01) C11B 9/00 (2006.01)**

[25] FR

[54] **NEW SPIROOXATHIOLANONE COMPOUNDS, PROCESS FOR PREPARATION THEREOF, AND USE THEREOF IN THE PERFUMERY AND AROMATICS INDUSTRY**

[54] **NOUVEAUX COMPOSES SPIROOXATHIOLANONES, LEUR PROCEDE DE PREPARATION AINSI QUE LEUR UTILISATION EN PARFUMERIE ET AROMATIQUE**

[72] MURATORE, AGNES, FR

[72] GRASSET, FABIEN, FR

[71] V. MANE FILS, FR

[85] 2020-07-21

[86] 2019-01-23 (PCT/EP2019/051597)

[87] (WO2019/145347)

[30] FR (1850613) 2018-01-25

[21] **3,089,443**  
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/5375 (2006.01) A61P 25/00 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **OXAZINE MONOACYLGLYCEROL LIPASE (MAGL) INHIBITORS**

[54] **INHIBITEURS D'OXAZINE MONOACYLGLYCEROL LIPASE (MAGL)**

[72] BELL, CHARLES, GB

[72] BENZ, JOERG, CH

[72] GOBBI, LUCA, CH

[72] GRETHER, UWE, CH

[72] GROEBKE ZBINDEN, KATRIN, CH

[72] HANSEN, DENNIS JUL, DK

[72] HORNSPERGER, BENOIT, CH

[72] KOCER, BUELENT, CH

[72] KROLL, CARSTEN, CH

[72] KUHN, BERND, CH

[72] O'HARA, FIONN, CH

[72] RICHTER, HANS, CH

[72] RITTER, MARTIN, CH

[72] TSUCHIYA, SATOSHI, JP

[72] CHEN, RUI, CN

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2020-07-23

[86] 2019-03-22 (PCT/EP2019/057174)

[87] (WO2019/180185)

[30] EP (18163273.8) 2018-03-22

[30] CN (PCT/CN2019/075372) 2019-02-18

[21] **3,089,444**  
[13] A1

[51] **Int.Cl. C08G 18/64 (2006.01) C08G 18/32 (2006.01) C08G 18/36 (2006.01) C08G 18/40 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C09J 175/08 (2006.01)**

[25] EN

[54] **LIGNIN-CONTAINING POLYURETHANES**

[54] **POLYURETHANES CONTENANT DE LA LIGNINE**

[72] DURSEN, FRANK, DE

[72] GEIGER, GUNNAR, DE

[72] SANDER, ANDREA, DE

[72] KUGLER, MICHAEL, DE

[71] RAMPF HOLDING GMBH & CO. KG, DE

[85] 2020-07-23

[86] 2019-04-05 (PCT/EP2019/058612)

[87] (WO2019/193142)

[30] EP (18166076.2) 2018-04-06

[21] **3,089,446**  
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01) G02B 6/02 (2006.01)**

[25] FR

[54] **APPARATUS FOR CUTTING A HUMAN OR ANIMAL TISSUE COMPRISING AN OPTICAL COUPLER**

[54] **APPAREIL DE DECOUPE D'UN TISSU HUMAIN OU ANIMAL COMPORTANT UN COUPLEUR OPTIQUE**

[72] NADOLNY, SYLVIE, FR

[72] BAUBEAU, EMMANUEL, FR

[71] KERANOVA, FR

[85] 2020-07-23

[86] 2019-01-25 (PCT/EP2019/051872)

[87] (WO2019/145484)

[30] FR (1850577) 2018-01-25

[21] **3,089,448**  
[13] A1

[51] **Int.Cl. B66C 13/06 (2006.01) B65G 1/04 (2006.01) B66C 11/04 (2006.01)**

[25] EN

[54] **HOISTING DEVICE**

[54] **DISPOSITIF DE LEVAGE**

[72] KULTANEN, TERO, FI

[71] KONECRANES GLOBAL CORPORATION, FI

[85] 2020-07-23

[86] 2019-01-25 (PCT/FI2019/050060)

[87] (WO2019/145610)

[30] FI (20185072) 2018-01-26

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[21] **3,089,449**  
[13] A1

[51] **Int.Cl. A61B 90/50 (2016.01) A61B 34/30 (2016.01) A61B 90/00 (2016.01) A61F 9/008 (2006.01) A61F 9/009 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR CONTROLLING THE MOVEMENT OF AN OCULAR THERAPY APPARATUS INCLUDING AN ARTICULATED SUPPORT ARM**

[54] **DISPOSITIF ET PROCEDE DE CONTROLE DU DEPLACEMENT D'UN APPAREIL DE THERAPIE OCULAIRE INCLUANT UN BRAS SUPPORT ARTICULE**

[72] BOULAROT, NICOLAS, FR  
[72] ROMANO, FABRIZIO, FR  
[71] KERANOVA, FR  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/EP2019/051876)  
[87] (WO2019/145487)  
[30] FR (1850578) 2018-01-25

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[21] **3,089,451**  
[13] A1

[51] **Int.Cl. B65D 83/44 (2006.01) B65D 83/68 (2006.01)**

[25] FR

[54] **FLOW REDUCER FOR A PRESSURIZED PRODUCT DISPENSER**

[54] **REDUCTEUR DE DEBIT POUR UN DISTRIBUTEUR DE PRODUIT SOUS PRESSION**

[72] BOREL, BERNARD, FR  
[72] BODET, HERVE, FR  
[71] LINDAL FRANCE SAS, FR  
[85] 2020-07-23  
[86] 2019-03-05 (PCT/EP2019/055451)  
[87] (WO2019/174970)  
[30] FR (1852090) 2018-03-11

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[21] **3,089,452**  
[13] A1

[51] **Int.Cl. G06F 9/46 (2006.01) B25J 9/16 (2006.01) G05B 15/00 (2006.01) H04L 12/28 (2006.01) H04L 29/08 (2006.01)**

[25] FR

[54] **ROBOT INTERCONNECTION METHOD**

[54] **PROCEDE D'INTERCONNEXION ENTRE ROBOTS**

[72] AYAIDA, MARWANE, FR  
[72] MESSAI, NADHIR, FR  
[72] VALENTIN, FREDERIC, FR  
[72] MARCHERAS, DIMITRI, FR  
[72] AFILAL, LISSAN, FR  
[71] UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE, FR  
[85] 2020-07-23  
[86] 2019-02-14 (PCT/FR2019/050328)  
[87] (WO2019/162595)  
[30] FR (18/51429) 2018-02-20

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[21] **3,089,454**  
[13] A1

[51] **Int.Cl. B29C 65/34 (2006.01) B29C 65/00 (2006.01) B29C 65/36 (2006.01) B29C 65/50 (2006.01) B29C 65/48 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR BONDING STRUCTURAL COMPONENTS**

[54] **SYSTEME ET METHODE POUR LIER DES COMPOSANTS STRUCTURAUX**

[72] LIU, HAILING, US  
[72] CHAI, REBECCA WAN, US  
[72] WANG, LEI, US  
[72] DUTTON, PETER, US  
[71] TE CONNECTIVITY CORPORATION, US  
[85] 2020-07-23  
[86] 2019-01-29 (PCT/IB2019/050720)  
[87] (WO2019/150261)  
[30] US (15/884,364) 2018-01-30

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[21] **3,089,456**  
[13] A1

[51] **Int.Cl. C25C 3/06 (2006.01) C25C 3/20 (2006.01)**

[25] EN

[54] **METHOD FOR EARLY DETECTION OF CERTAIN ABNORMAL OPERATING CONDITIONS IN HALL-HEROULT ELECTROLYSIS CELLS**

[54] **PROCEDE DE DETECTION PRECOCE DE CERTAINES CONDITIONS DE FONCTIONNEMENT ANORMALES DANS DES CELLULES D'ELECTROLYSE HALL-HEROULT**

[72] NIKANDROV, KONSTANTIN, AE  
[72] SAYED, KHURSID, AE  
[71] DUBAI ALUMINIUM PJSC, AE  
[85] 2020-07-23  
[86] 2019-03-04 (PCT/IB2019/051705)  
[87] (WO2019/171235)  
[30] GB (1803607.9) 2018-03-07

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[21] **3,089,457**  
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01)**

[25] EN

[54] **DISALT AS A ROBUST PRIMARY SURFACTANT FOR CALCIUM SULFATE MIXTURES CONTAINING RECYCLED GYPSUM**

[54] **DISEL COMME TENSIOACTIF PRIMAIRE POUR DES MELANGES DE SULFATE DE CALCIUM CONTENANT DU GYPSE RECYCLE**

[72] GEHRIG, UWE, DE  
[72] NIEDERMAIR, FABIAN, DE  
[72] DENGLER, JOACHIM, DE  
[72] DAXENBERGER, GEORG, DE  
[72] JAFFEL, HAMOUNDA, FR  
[71] SAINT-GOBAIN PLACO, FR  
[85] 2020-04-15  
[86] 2018-10-18 (PCT/EP2018/078575)  
[87] (WO2019/081344)  
[30] EP (17198015.4) 2017-10-24

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[21] **3,089,458**  
[13] A1

[51] **Int.Cl. A41D 27/28 (2006.01) A41D 3/00 (2006.01) A41D 31/00 (2019.01) A41D 31/02 (2019.01) A43B 7/08 (2006.01) B32B 3/26 (2006.01) B32B 3/30 (2006.01) B32B 7/02 (2019.01) B32B 27/08 (2006.01) B32B 27/40 (2006.01)**

[25] EN  
[54] **VAPOR-PERMEABLE INSERT FOR AN ITEM OF CLOTHING AND A FOOTWEAR, ITEM OF CLOTHING AND FOOTWEAR WITH SUCH INSERT**

[54] **INSERT PERMEABLE A LA VAPEUR POUR VETEMENT ET CHAUSSURE, VETEMENT ET CHAUSSURE AVEC UN TEL INSERT**

[72] POLEGATO MORETTI, MARIO, IT  
[72] BRUNO, MARCO, IT  
[72] RAMPIN, MICHELE, IT  
[72] MARCON, CHRISTIAN, IT  
[71] GEOX S.P.A., IT  
[85] 2020-07-23  
[86] 2019-02-04 (PCT/IB2019/050877)  
[87] (WO2019/155348)  
[30] IT (102018000002423) 2018-02-06

[21] **3,089,460**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN  
[54] **AEROSOL GENERATION DEVICE AND PRODUCTION METHOD FOR AEROSOL GENERATION DEVICE**

[54] **DISPOSITIF DE GENERATION D'AEROSOL ET PROCEDE DE PRODUCTION D'UN DISPOSITIF DE GENERATION D'AEROSOL**

[72] YAMADA, MANABU, JP  
[72] AKAO, TAKESHI, JP  
[72] MIZUGUCHI, KAZUMA, JP  
[72] TSUJI, MASAYUKI, JP  
[72] FUJITA, HAJIME, JP  
[71] JAPAN TOBACCO INC., JP  
[85] 2020-07-23  
[86] 2018-01-26 (PCT/JP2018/002439)  
[87] (WO2019/146062)

[21] **3,089,461**  
[13] A1

[51] **Int.Cl. C22C 38/00 (2006.01) C21D 8/10 (2006.01) C21D 9/08 (2006.01) C22C 38/54 (2006.01)**

[25] EN  
[54] **STEEL PIPE AND METHOD FOR PRODUCING STEEL PIPE**

[54] **TUYAU D'ACIER ET PROCEDE DE PRODUCTION DE TUYAU D'ACIER**

[72] ARAI, YUJI, JP  
[72] YOSHIDA, SHINJI, JP  
[72] SOMA, ATSUSHI, JP  
[72] KAMITANI, HIROKI, JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 2020-07-23  
[86] 2019-03-22 (PCT/JP2019/011975)  
[87] (WO2019/198460)  
[30] JP (2018-075057) 2018-04-09

[21] **3,089,465**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**

[25] EN  
[54] **TECHNIQUES FOR INTEGRATING VALIDATION RESULTS IN DATA PROFILING AND RELATED SYSTEMS AND METHODS**

[54] **TECHNIQUES D'INTEGRATION DE RESULTATS DE VALIDATION EN PROFILAGE DE DONNEES ET SYSTEMES ET PROCEDES ASSOCIES**

[72] GOULD, JOEL, US  
[72] RYBICKI, STEVE, US  
[71] AB INITIO TECHNOLOGY LLC, US  
[85] 2020-07-23  
[86] 2018-01-25 (PCT/US2018/015274)  
[87] (WO2019/147249)

[21] **3,089,466**  
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 47/06 (2012.01) E21B 47/14 (2006.01) E21B 49/00 (2006.01)**

[25] EN  
[54] **DETERMINING IN-SITU ROCK STRESS**

[54] **DETERMINATION IN SITU D'UNE CONTRAINTE EXERCEE SUR LA ROCHE**

[72] ALRUWAILI, KHALID MOHAMMED M., SA  
[72] KHAN, MIRAJUDDIN RIAZUDDIN, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-07-23  
[86] 2019-01-18 (PCT/US2019/014223)  
[87] (WO2019/143957)  
[30] US (15/876,992) 2018-01-22

[21] **3,089,467**  
[13] A1

[51] **Int.Cl. G01V 1/28 (2006.01)**

[25] EN  
[54] **GENERATING TARGET-ORIENTED ACQUISITION-IMPRINT-FREE PRESTACK ANGLE GATHERS USING COMMON FOCUS POINT OPERATORS**

[54] **GENERATION D'ENSEMBLES D'ANGLES DE PRE-EMPILEMENT SANS IMPRESSION ORIENTES CIBLE A L'AIDE D'OPERATEURS DE POINTS DE FOCALISATION COMMUNS**

[72] LIU, HONGWEI, SA  
[72] AL-ALI, MUSTAFA, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-07-23  
[86] 2019-01-22 (PCT/US2019/014488)  
[87] (WO2019/147547)  
[30] US (15/878,094) 2018-01-23

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[13] A1

[51] **Int.Cl. A47B 3/00 (2006.01) A47B 91/16 (2006.01) B25H 1/06 (2006.01) B25H 1/16 (2006.01) F16M 11/16 (2006.01) F16M 11/24 (2006.01)**

[25] EN

[54] **COLLAPSIBLE LEG ASSEMBLY FOR SELF-LEVELING DEVICES**

[54] **ENSEMBLE JAMBE PLIABLE POUR DISPOSITIFS D'AUTO-NIVELAGE**

[72] HOYLE, GARY C., US

[71] G.C. HOYLE COMPANY LLC, US

[85] 2020-07-23

[86] 2019-01-22 (PCT/US2019/014441)

[87] (WO2019/147521)

[30] US (15/878,730) 2018-01-24

[21] **3,089,471**  
[13] A1

[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/44 (2006.01) H01B 11/00 (2006.01) H04Q 1/02 (2006.01)**

[25] EN

[54] **OPTICAL TRACEABLE PATCH CORD**

[54] **CORDON DE CONNEXION OPTIQUE TRACABLE**

[72] BUREACOV, ARTUR, US

[72] RAVEN, ASHER LEONG, US

[71] AFL IG LLC, US

[85] 2020-07-23

[86] 2019-01-16 (PCT/US2019/013758)

[87] (WO2019/147446)

[30] US (62/620,805) 2018-01-23

[30] US (15/975,105) 2018-05-09

[21] **3,089,473**  
[13] A1

[51] **Int.Cl. B66D 1/22 (2006.01)**

[25] EN

[54] **LOW FORCE EPICYCLIC GEAR APPARATUS HOLD AND RELEASE MECHANISM**

[54] **MECANISME DE MAINTIEN ET DE RELACHEMENT D'APPAREIL D'ENGRENAGES EPICYCLOIDIAUX A FAIBLE FORCE**

[72] WEST, THOMAS C., US

[71] WEDGEROCK LLC, US

[85] 2020-07-23

[86] 2019-01-22 (PCT/US2019/014636)

[87] (WO2019/147598)

[30] US (62/620,784) 2018-01-23

[21] **3,089,469**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **B7-H4 ANTIBODIES AND METHODS OF USE THEREOF**

[54] **ANTICORPS ANTI-B7-H4 ET LEURS PROCEDES D'UTILISATION**

[72] LANGERMANN, SOLOMON, US

[72] FLIES, DALLAS BENJAMIN, US

[72] LIU, LINDA, US

[71] NEXTCURE, INC., US

[85] 2020-07-23

[86] 2019-01-23 (PCT/US2019/014748)

[87] (WO2019/147670)

[30] US (62/620,545) 2018-01-23

[21] **3,089,472**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CHARGING A BATTERY WITH AC POWER BASED ON STATE OF BATTERY RELATED INFORMATION**

[54] **PROCEDE ET APPAREIL DE CHARGE D'UNE BATTERIE AVEC UNE ALIMENTATION EN COURANT ALTERNATIF SUR LA BASE D'INFORMATIONS RELATIVES A L'ETAT DE LA BATTERIE**

[72] LOGVINOV, OLEG, US

[72] MACALUSO, MICHAEL J., US

[71] IOTECHA CORP., US

[85] 2020-07-23

[86] 2019-01-22 (PCT/US2019/014519)

[87] (WO2019/147557)

[30] US (62/620,815) 2018-01-23

[21] **3,089,474**  
[13] A1

[51] **Int.Cl. A61M 35/00 (2006.01) A61F 9/00 (2006.01) B01L 3/02 (2006.01) B05B 1/14 (2006.01) B05B 11/00 (2006.01) B65D 47/18 (2006.01)**

[25] EN

[54] **ASSEMBLY AND METHOD FOR DELIVERY OF MICRO-VOLUME DROPLETS FROM A SQUEEZE BOTTLE**

[54] **ENSEMBLE ET PROCEDE DE DISTRIBUTION DE GOUTTELETTES DE MICRO-VOLUME A PARTIR D'UN FLACON COMPRESSIBLE**

[72] BAKER, ELIAS LEE, US

[72] SONG, ALLISA JUNGHA, US

[71] NANODROPPER, INC., US

[85] 2020-07-23

[86] 2019-01-23 (PCT/US2019/014717)

[87] (WO2019/147647)

[30] US (62/621,052) 2018-01-24

[21] **3,089,470**  
[13] A1

[51] **Int.Cl. F16D 41/06 (2006.01) F16D 51/00 (2006.01) F16D 59/00 (2006.01) F16D 67/02 (2006.01)**

[25] EN

[54] **ANTI-BACKDRIVE LOCK**

[54] **VERROU ANTI-RECU**

[72] WEST, THOMAS C., US

[72] MARSH-SACHS, EMMANUEL H., US

[71] WEDGEROCK LLC, US

[85] 2020-07-23

[86] 2018-11-21 (PCT/US2018/062257)

[87] (WO2019/147328)

[30] US (62/620,784) 2018-01-23

[21] **3,089,475**  
[13] A1

[51] **Int.Cl. A61C 7/36 (2006.01) A61C 7/00 (2006.01)**

[25] EN

[54] **ORTHODONTIC ANTERIOR BITE PLATE**

[54] **PLAQUE DE MORSURE ANTERIEURE ORTHODONTIQUE**

[72] DICKERSON, TODD EVAN, US

[71] DICKERSON, TODD EVAN, US

[85] 2020-07-23

[86] 2019-01-23 (PCT/US2019/014773)

[87] (WO2019/147686)

[30] US (15/880,822) 2018-01-26

[30] US (16/254,011) 2019-01-22

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[51] **Int.Cl. G02B 6/00 (2006.01) G02F 1/01 (2006.01) G02F 1/13 (2006.01) G02F 1/1335 (2006.01)**

[25] EN

[54] **REFLECTIVE OPTICAL STACK FOR PRIVACY DISPLAY**

[54] **EMPILEMENT OPTIQUE REFLECHISSANT D'AFFICHEUR DE CONFIDENTIALITE**

[72] ROBINSON, MICHAEL G., US  
[72] WOODGATE, GRAHAM J., US  
[72] HARROLD, JONATHAN, US  
[72] RAMSEY, ROBERT A., US  
[71] REALD SPARK, LLC, US

[85] 2020-07-23  
[86] 2019-01-24 (PCT/US2019/014889)  
[87] (WO2019/147762)

[30] US (62/622,001) 2018-01-25  
[30] US (62/634,168) 2018-02-22  
[30] US (62/641,657) 2018-03-12  
[30] US (62/673,576) 2018-05-18  
[30] US (62/673,359) 2018-05-18  
[30] US (62/699,906) 2018-07-18  
[30] US (62/699,914) 2018-07-18

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[21] **3,089,477**  
[13] A1

[51] **Int.Cl. G02F 1/13 (2006.01) H04N 13/30 (2018.01) G02B 6/00 (2006.01) G02F 1/01 (2006.01) G02F 1/1335 (2006.01) G02F 1/1343 (2006.01) G02F 1/137 (2006.01) G02F 1/139 (2006.01) G02F 1/29 (2006.01)**

[25] EN

[54] **TOUCH SCREEN FOR PRIVACY DISPLAY**

[54] **ECRAN TACTILE POUR AFFICHAGE DE CONFIDENTIALITE**

[72] HARROLD, JONATHAN, US  
[72] WOODGATE, GRAHAM J., US  
[71] REALD SPARK, LLC, US

[85] 2020-07-23  
[86] 2019-01-24 (PCT/US2019/014902)  
[87] (WO2019/147771)

[30] US (62/622,001) 2018-01-25  
[30] US (62/673,576) 2018-05-18  
[30] US (62/691,896) 2018-06-29  
[30] US (62/699,906) 2018-07-18

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[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01) C07K 14/74 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **MICA/B ANTIBODIES AND METHODS OF USE**

[54] **ANTICORPS ANTI-MICA/B ET LEURS METHODES D'UTILISATION**

[72] GIBSON, NEIL, US  
[72] CHAPMAN, JUSTIN, US  
[72] DU, XIN, US  
[71] PDI THERAPEUTICS, INC., US

[85] 2020-07-23  
[86] 2019-01-24 (PCT/US2019/015025)  
[87] (WO2019/147863)

[30] US (62/621,892) 2018-01-25

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[21] **3,089,479**  
[13] A1

[51] **Int.Cl. H01R 25/14 (2006.01) B66C 13/12 (2006.01) H01H 45/00 (2006.01)**

[25] EN

[54] **ENERGY TRANSMISSION AND CONTROL SYSTEM AND COMMUNICATIONS DEVICE**

[54] **SYSTEME DE TRANSMISSION ET DE COMMANDE D'ENERGIE ET DISPOSITIF DE COMMUNICATION**

[72] BLAIR, MARTIN, US  
[72] LAWSON, ROLAND, US  
[72] DIERKS, MICHAEL ANDREW, US  
[71] CONDUCTIX, INC., US

[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015091)  
[87] (WO2019/147898)

[30] US (62/621,747) 2018-01-25  
[30] US (16/257,344) 2019-01-25

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[21] **3,089,480**  
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61K 47/32 (2006.01) A61L 24/00 (2006.01) A61L 24/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD OF USING IN SITU SOLIDIFYING COMPLEX COACERVATES FOR VASCULAR OCCLUSION**

[54] **APPAREIL ET PROCEDE D'UTILISATION DE COACERVATS COMPLEXES A SOLIDIFICATION IN SITU POUR UNE OCCLUSION VASCULAIRE**

[72] FOJTIK, SHAWN PATRICK, US  
[72] STEWART, RUSSELL, US  
[71] FLUIDX MEDICAL TECHNOLOGY, LLC, US

[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015127)  
[87] (WO2019/147922)

[30] US (62/622,195) 2018-01-26

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[21] **3,089,481**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) C07K 14/71 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATMENT OF ANGIOGENIC DISORDERS USING ANTI-VEGF AGENTS**

[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE TROUBLES ANGIOGENIQUES A L'AIDE D'AGENTS ANTI-VEGF**

[72] FERRARA, NAPOLEONE, US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015160)  
[87] (WO2019/147944)

[30] US (62/622,382) 2018-01-26

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[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**  
[25] EN  
[54] **REFRACTIVE INDEX SHAPING LASER WRITING PROCESS CONTROL**  
[54] **COMMANDE DE PROCESSUS D'ECRITURE LASER DE MISE EN FORME D'INDICE DE REFRACTION**  
[72] KNOX, WAYNE, US  
[72] ELLIS, JONATHAN D., US  
[72] HUXLIN, KRISTEL R., US  
[72] BROOKS, DANIEL R., US  
[72] WOZNIAK, KAITLIN T., US  
[71] UNIVERSITY OF ROCHESTER, US  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015173)  
[87] (WO2019/147952)  
[30] US (62/622,473) 2018-01-26

[21] **3,089,483**  
[13] A1

[51] **Int.Cl. D04B 21/14 (2006.01) D04B 21/20 (2006.01)**  
[25] EN  
[54] **DUAL FUNCTION ABSORBING AND COOLING TEXTILE**  
[54] **TEXTILE A DOUBLE FONCTION D'ABSORPTION ET DE REFROIDISSEMENT**  
[72] LAWRENCE, DAVID CHAD, US  
[71] MISSION PRODUCT HOLDINGS, INC., US  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015239)  
[87] (WO2019/147997)  
[30] US (62/621,851) 2018-01-25  
[30] US (62/720,483) 2018-08-21

[21] **3,089,484**  
[13] A1

[51] **Int.Cl. G16C 20/80 (2019.01) G16C 20/90 (2019.01) G16C 20/70 (2019.01)**  
[25] EN  
[54] **CONTEXT-AWARE VIRTUAL KEYBOARD FOR CHEMICAL STRUCTURE DRAWING APPLICATIONS**  
[54] **CLAVIER VIRTUEL SENSIBLE AU CONTEXTE POUR DES APPLICATIONS DE DESSIN DE STRUCTURES CHIMIQUES**  
[72] MORIEUX, PIERRE, US  
[72] WILSON, MICHAEL, US  
[72] LOWRIE, JEFFREY, US  
[71] PERKINELMER INFORMATICS, INC., US  
[85] 2020-07-23  
[86] 2019-01-29 (PCT/US2019/015526)  
[87] (WO2019/152345)  
[30] US (15/884,191) 2018-01-30

[21] **3,089,485**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A01N 43/38 (2006.01) A01N 47/44 (2006.01) A01P 1/00 (2006.01) A61K 38/08 (2019.01) A61K 38/10 (2006.01) A61K 38/17 (2006.01) A61P 31/04 (2006.01) A61P 37/02 (2006.01) C07K 7/06 (2006.01)**  
[25] EN  
[54] **CATIONIC PEPTIDES WITH IMMUNOMODULATORY AND/OR ANTI-BIOFILM ACTIVITIES**  
[54] **PEPTIDES CATIONIQUES PRESENTANT DES ACTIVITES IMMUNOMODULATRICES ET/OU ANTI-BIOFILM**  
[72] HANCOCK, ROBERT, CA  
[72] HILCHIE, ASHLEY, CA  
[72] TCHERKASOV, ARTEM, CA  
[72] BRITO-SANCHEZ, YOAN, CA  
[72] HANEY, EVAN, CA  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/IB2019/050643)  
[87] (WO2019/145913)  
[30] US (62/622,687) 2018-01-26

[21] **3,089,486**  
[13] A1

[51] **Int.Cl. E05D 11/00 (2006.01) E05B 17/20 (2006.01) E05D 7/14 (2006.01) E05G 1/02 (2006.01) E06B 5/11 (2006.01)**  
[25] EN  
[54] **SECURITY DOOR MOUNTING ARRANGEMENT**  
[54] **AGENCEMENT DE MONTAGE DE PORTE DE SECURITE**  
[72] DUNSTAN, BRETT, AU  
[71] LOKAWAY PTY LTD, AU  
[85] 2020-07-16  
[86] 2019-01-16 (PCT/AU2019/000007)  
[87] (WO2019/140480)  
[30] AU (2018900133) 2018-01-16

[21] **3,089,487**  
[13] A1

[51] **Int.Cl. F17C 13/06 (2006.01)**  
[25] FR  
[54] **PROTECTION CAP, RESERVOIR COMPRISING SUCH A CAP AND MOUNTING METHOD**  
[54] **CHAPEAU DE PROTECTION, RESERVOIR COMPRENANT UN TEL CHAPEAU ET PROCEDE DE MONTAGE**  
[72] LIGONESCHE, RENAUD, FR  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR  
[85] 2020-07-22  
[86] 2019-02-05 (PCT/FR2019/050251)  
[87] (WO2019/155153)  
[30] FR (1851065) 2018-02-08

[21] **3,089,488**  
[13] A1

[51] **Int.Cl. H04B 11/00 (2006.01)**  
[25] EN  
[54] **PHASE SHIFT KEYED SIGNALING TONE**  
[54] **TONALITE DE SIGNALISATION MODULEE PAR DEPLACEMENT DE PHASE**  
[72] PRINCE, DANIEL PAUL, US  
[72] FARRAR, REBEKAH L, US  
[72] KNAUER, WILLIAM, US  
[71] LISNR, INC., US  
[85] 2020-07-16  
[86] 2018-12-19 (PCT/US2018/066362)  
[87] (WO2019/126251)  
[30] US (15/847,205) 2017-12-19

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[13] A1

[51] **Int.Cl. A23L 3/3463 (2006.01) A23L 3/3571 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **FRUIT AND VEGETABLE-BASED FERMENTATE COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME**  
[54] **COMPOSITIONS DE PRODUIT DE FERMENTATION A BASE DE FRUIT ET DE LEGUME ET PROCEDES DE PREPARATION ET D'UTILISATION DE CELLES-CI**  
[72] HUNDT, MATTHEW, US  
[72] THOMPSON, BRETT, US  
[71] THIRD WAVE BIOACTIVES, LLC, US  
[85] 2020-07-16  
[86] 2019-01-14 (PCT/US2019/013510)  
[87] (WO2019/143566)  
[30] US (62/618,875) 2018-01-18

[21] **3,089,490**  
[13] A1

[51] **Int.Cl. C07C 37/72 (2006.01) B01D 11/02 (2006.01) B01D 11/04 (2006.01) B01D 15/18 (2006.01) C07C 37/00 (2006.01) C07C 39/19 (2006.01) C07C 39/23 (2006.01) C07C 51/48 (2006.01) C07C 65/19 (2006.01) C07D 311/80 (2006.01)**  
[25] EN  
[54] **METHODS OF PURIFYING CANNABINOIDS USING LIQUID:LIQUID CHROMATOGRAPHY**  
[54] **PROCEDES DE PURIFICATION DE CANNABINOIDES PAR CHROMATOGRAPHIE LIQUIDE : LIQUIDE**  
[72] NADAL ROURA, XAVIER, ES  
[71] PHYTOPLANT RESEARCH S.L, ES  
[85] 2020-07-23  
[86] 2019-01-29 (PCT/EP2019/052069)  
[87] (WO2019/145552)  
[30] US (15/882,516) 2018-01-29

[21] **3,089,491**  
[13] A1

[51] **Int.Cl. H01B 12/06 (2006.01) H01B 13/00 (2006.01) H01L 39/24 (2006.01)**  
[25] EN  
[54] **FABRICATION OF HIGH-TEMPERATURE SUPERCONDUCTING STRIATED TAPE COMBINATIONS**  
[54] **FABRICATION DE COMBINAISONS DE BANDES STRIEES SUPRACONDUCTRICES HAUTE-TEMPERATURE**  
[72] PRESTIGIACOMO, JOSEPH C., US  
[72] AUYEUNG, RAYMOND C.Y., US  
[72] OSOFSKY, MICHAEL S., US  
[71] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY, US  
[85] 2020-07-17  
[86] 2018-12-12 (PCT/US2018/065296)  
[87] (WO2019/118651)  
[30] US (62/598,541) 2017-12-14  
[30] US (62/598,539) 2017-12-14  
[30] US (62/728,650) 2018-09-07

[21] **3,089,492**  
[13] A1

[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/04 (2006.01) A61K 8/34 (2006.01) A61Q 5/06 (2006.01) A61Q 5/12 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS SUITABLE AS LEAVE-ON HAIR STYLING COMPOSITIONS AND METHODS OF USE**  
[54] **COMPOSITIONS APPROPRIEES EN TANT QUE COMPOSITIONS DE COIFFAGE SANS RINCAGE ET PROCEDES D'UTILISATION**  
[72] GHANI, SANA, US  
[72] DECARLO, VANESSA, US  
[72] SULEIMAN, AZIZA KHADER, US  
[72] MAHADESHWAR, ANAND RAMACHANDRA, IN  
[71] L'OREAL, FR  
[85] 2020-07-23  
[86] 2019-02-27 (PCT/US2019/019753)  
[87] (WO2019/168922)  
[30] US (15/907,780) 2018-02-28

[21] **3,089,494**  
[13] A1

[51] **Int.Cl. H02M 1/32 (2007.01)**  
[25] EN  
[54] **REDUNDANT ENERGY ACQUISITION CIRCUIT OF POWER MODULE, AND CONTROL METHOD THEREOF**  
[54] **CIRCUIT D'ACQUISITION D'ENERGIE REDONDANT DE MODULE DE PUISSANCE ET SON PROCEDE DE COMMANDE**  
[72] XIE, YEYUAN, CN  
[72] LI, HAIYING, CN  
[72] JIANG, TIANGUI, CN  
[72] ZHU, MINGLIAN, CN  
[72] CAO, DONGMING, CN  
[72] ZHANG, ZHONGFENG, CN  
[71] NR ELECTRIC CO., LTD., CN  
[71] NR ENGINEERING CO., LTD., CN  
[85] 2020-07-24  
[86] 2019-01-21 (PCT/CN2019/072533)  
[87] (WO2019/149104)  
[30] CN (201810092738.3) 2018-01-31

[21] **3,089,497**  
[13] A1

[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/38 (2006.01) B65D 5/42 (2006.01) B65D 5/72 (2006.01) B65D 50/02 (2006.01) B65D 59/04 (2006.01) B65D 77/04 (2006.01) B65D 77/22 (2006.01) B65D 79/00 (2006.01) B65D 83/04 (2006.01)**  
[25] EN  
[54] **CHILD RESISTANT STORAGE CONTAINER**  
[54] **RECIPIENT DE STOCKAGE A L'EPREUVE DES ENFANTS**  
[72] MARKARIAN, MICHAEL, US  
[72] BAZIRGAN, COLETTE, US  
[72] BENJAMIN, EDWARD, US  
[71] CONTEMPO CARD COMPANY, US  
[85] 2020-07-23  
[86] 2019-03-08 (PCT/US2019/021410)  
[87] (WO2019/173749)  
[30] US (62/641,096) 2018-03-09  
[30] US (62/667,508) 2018-05-05  
[30] US (62/677,830) 2018-05-30  
[30] US (62/815,723) 2019-03-08

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[21] **3,089,498**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/55 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/20 (2006.01) A61P 25/22 (2006.01) A61P 25/30 (2006.01) A61P 43/00 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **CONDENSED RING COMPOUNDS HAVING DOPAMINE D3 RECEPTOR ANTAGONISTIC EFFECT**

[54] **COMPOSE CYCLIQUE CONDENSE PRESENTANT UN ANTAGONISME AU RECEPTEUR D3 DE LA DOPAMINE**

[72] TOBINAGA, HIROYUKI, JP  
[72] MASUDA, KOJI, JP  
[71] SHIONOGI & CO., LTD., JP  
[85] 2020-07-17  
[86] 2019-01-25 (PCT/JP2019/002396)  
[87] (WO2019/146739)  
[30] JP (2018-011086) 2018-01-26  
[30] JP (2018-219158) 2018-11-22

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[21] **3,089,501**  
[13] A1

[51] **Int.Cl. A23L 7/126 (2016.01) A23L 19/00 (2016.01) A23L 29/30 (2016.01)**

[25] EN

[54] **METHOD FOR MAKING A COLD-FORMED FOOD PRODUCT WITH A SOLID BINDER**

[54] **PROCEDE DE FABRICATION DE PRODUIT ALIMENTAIRE FORME A FROID AVEC UN LIANT SOLIDE**

[72] HOOVER, KATHRYN, US  
[72] RAMOS-TIRADO, MARIA CRISTABEL, US  
[71] TROPICANA PRODUCTS, INC., US  
[85] 2020-07-22  
[86] 2019-02-22 (PCT/US2019/019219)  
[87] (WO2019/165256)  
[30] US (15/902,393) 2018-02-22

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[21] **3,089,502**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN

[54] **AEROSOL GENERATION DEVICE, AND METHOD AND PROGRAM FOR OPERATING SAME**

[54] **DISPOSITIF DE PRODUCTION D'AEROSOL ET PROCEDE ET PROGRAMME D'ACTIONNEMENT ASSOCIES**

[72] YAMADA, MANABU, JP  
[72] AKAO, TAKESHI, JP  
[72] MIZUGUCHI, KAZUMA, JP  
[72] TSUJI, MASAYUKI, JP  
[72] FUJITA, HAJIME, JP  
[71] JAPAN TOBACCO INC., JP  
[85] 2020-07-23  
[86] 2018-01-26 (PCT/JP2018/002454)  
[87] (WO2019/146063)

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[21] **3,089,503**  
[13] A1

[51] **Int.Cl. H04W 28/00 (2009.01)**

[25] EN

[54] **DATA TRANSMISSION METHOD, DEVICE, COMPUTER PROGRAM AND CARRIER THEREOF**

[54] **PROCEDE DE TRANSMISSION DE DONNEES, DISPOSITIF, PROGRAMME D'ORDINATEUR ET SUPPORT ASSOCIE**

[72] XU, JING, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-07-24  
[86] 2019-01-24 (PCT/CN2019/072934)  
[87] (WO2019/144898)  
[30] US (62/621,576) 2018-01-24  
[30] US (62/676,323) 2018-05-25

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[21] **3,089,506**  
[13] A1

[51] **Int.Cl. B22F 1/00 (2006.01) C22C 33/02 (2006.01)**

[25] EN

[54] **MIXED POWDER FOR POWDER METALLURGY**

[54] **POUDRE MELANGEE DE METALLURGIE DES POUDRES**

[72] TAKAMATSU, YOHEI, JP  
[72] YOSHIDA, MASAKI, JP  
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP  
[85] 2020-07-23  
[86] 2018-12-17 (PCT/JP2018/046397)  
[87] (WO2019/146310)  
[30] JP (2018-010490) 2018-01-25  
[30] JP (2018-203514) 2018-10-30

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[21] **3,089,508**  
[13] A1

[51] **Int.Cl. C25B 3/04 (2006.01) B01J 47/12 (2017.01) C25B 9/08 (2006.01) C25B 13/00 (2006.01) C25B 15/08 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR PERFORMING CHEMICAL AND ELECTROCHEMICAL REACTIONS**

[54] **PROCEDES ET APPAREILS POUR EFFECTUER DES REACTIONS CHIMIQUES ET ELECTROCHIMIQUES**

[72] BERLINGUETTE, CURTIS, CA  
[72] SHERBO, REBECCA, CA  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 2020-07-24  
[86] 2019-01-25 (PCT/CA2019/050097)  
[87] (WO2019/144239)  
[30] US (62/622,305) 2018-01-26



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[21] **3,089,509**  
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) B01J 19/18 (2006.01) C10G 15/08 (2006.01) F04C 19/00 (2006.01)**

[25] EN

[54] **REACTION PUMP, SYSTEM AND METHOD FOR THERMAL CONVERSION OF HYDROCARBONS**

[54] **POMPE A REACTION, SYSTEME ET PROCEDE DE CONVERSION THERMIQUE D'HYDROCARBURES**

[72] GUENTHER, THOMAS ANDREAS, ES

[71] ECOFUEL TECHNOLOGIES LTD, MT

[85] 2020-07-24

[86] 2018-01-25 (PCT/EP2018/051821)

[87] (WO2018/138194)

[30] GB (1701316.0) 2017-01-26

[21] **3,089,510**  
[13] A1

[51] **Int.Cl. F16J 15/3252 (2016.01) F16L 17/06 (2006.01) F16L 19/03 (2006.01) F16L 23/18 (2006.01) F16L 37/08 (2006.01)**

[25] EN

[54] **HOSE COUPLING SEAL**

[54] **JOINT D'ETANCHEITE POUR RACCORD DE TUYAU FLEXIBLE**

[72] BYRNE, DAVID, AU

[71] BYRNE, JEANETTE, AU

[85] 2020-07-24

[86] 2019-01-22 (PCT/AU2019/050038)

[87] (WO2019/144181)

[30] AU (2018900260) 2018-01-29

[21] **3,089,512**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-CD47 ANTIBODIES THAT DO NOT CAUSE SIGNIFICANT RED BLOOD CELL AGGLUTINATION**

[54] **ANTICORPS ANTI-CD47 QUI NE PROVOQUENT PAS D'AGGLUTINATION SIGNIFICATIVE DES GLOBULES ROUGES**

[72] ZHAO, TAO, CN

[72] ZHANG, HUIHUI, CN

[72] YANG, SHUAI, CN

[72] ZHANG, YUN, CN

[72] CHOU, CHUAN-CHU, US

[72] WU, SHU, CN

[71] NANJING LEGEND BIOTECH CO., LTD., CN

[85] 2020-07-24

[86] 2019-01-24 (PCT/CN2019/072929)

[87] (WO2019/144895)

[30] CN (PCT/CN2018/074055) 2018-01-24

[21] **3,089,513**  
[13] A1

[51] **Int.Cl. A61M 5/42 (2006.01) A61B 5/15 (2006.01) A61M 37/00 (2006.01)**

[25] EN

[54] **TIGHT-BINDING DEVICE FOR MICRO-NEEDLE**

[54] **DISPOSITIF DE LIAISON ETANCHE POUR MICRO-AIGUILLE**

[72] QUAN, YING-SHU, JP

[72] KAMIYAMA, FUMIO, JP

[71] COSMED PHARMACEUTICAL CO., LTD., JP

[85] 2020-07-23

[86] 2019-01-23 (PCT/JP2019/002011)

[87] (WO2019/146618)

[30] JP (2018-023525) 2018-01-24

[21] **3,089,514**  
[13] A1

[51] **Int.Cl. A01B 21/08 (2006.01) A01B 23/06 (2006.01)**

[25] EN

[54] **AGRICULTURAL GROUND ENGAGING CHAIN AND LINK SYSTEM**

[54] **CHAINE AGRICOLE DE MISE EN PRISE AVEC LA TERRE ET SYSTEME DE LIAISON**

[72] AINGE, STEPHEN CHARLES, AU

[72] HEYDARSHAHY, SEYED ALI, AU

[71] HARD METALS AUSTRALIA PTY LIMITED, AU

[85] 2020-07-24

[86] 2019-01-31 (PCT/AU2019/050068)

[87] (WO2019/148240)

[30] AU (2018900288) 2018-01-31

[21] **3,089,515**  
[13] A1

[51] **Int.Cl. A61M 5/158 (2006.01) A61M 5/165 (2006.01) A61M 25/06 (2006.01) A61M 39/06 (2006.01) A61M 39/26 (2006.01)**

[25] EN

[54] **HUB ASSEMBLY**

[54] **ENSEMBLE MOYEU**

[72] NAKAGAMI, HIROYUKI, JP

[72] SAKAMOTO, SHINGO, JP

[72] AKIMOTO, HARUO, JP

[71] NIPRO CORPORATION, JP

[85] 2020-07-23

[86] 2019-01-28 (PCT/JP2019/002823)

[87] (WO2019/146791)

[30] JP (2018-011154) 2018-01-26

[30] JP (2018-017286) 2018-02-02

[30] JP (2018-195457) 2018-10-16

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[21] **3,089,519**  
[13] A1

[51] **Int.Cl. B29C 65/10 (2006.01) B29C 65/12 (2006.01) B29C 65/14 (2006.01) B29C 65/20 (2006.01) B29C 65/42 (2006.01) B29C 65/48 (2006.01) B29C 65/52 (2006.01) C12M 1/32 (2006.01) C12M 3/00 (2006.01)**

[25] EN  
[54] **METHOD FOR JOINING PLASTIC PARTS**  
[54] **PROCEDE POUR ASSEMBLER DES PIECES EN MATIERE PLASTIQUE**

[72] STAEMMLER, LUTZ, DE  
[72] THUMM, ANDREAS, DE  
[71] GREINER BIO-ONE GMBH, DE  
[85] 2020-07-24  
[86] 2019-01-30 (PCT/EP2019/052295)  
[87] (WO2019/149779)  
[30] DE (10 2018 201 349.7) 2018-01-30

[21] **3,089,521**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) H01T 19/04 (2006.01) H01T 23/00 (2006.01)**

[25] EN  
[54] **ION GENERATING DEVICE FOR ORGANIC MATTER DECOMPOSITION, AND ORGANIC MATTER DECOMPOSITION DEVICE**  
[54] **DISPOSITIF DE GENERATION D'IONS POUR LA DECOMPOSITION DE MATIERE ORGANIQUE, ET DISPOSITIF DE DECOMPOSITION DE MATIERE ORGANIQUE**

[72] NAKAISHI, MASAHITO, JP  
[72] IRIE, KOJI, JP  
[71] GLENICAL TECHNOLOGY CO., LTD., JP  
[85] 2020-07-23  
[86] 2019-01-29 (PCT/JP2019/002989)  
[87] (WO2019/146799)  
[30] JP (2018-012755) 2018-01-29

[21] **3,089,522**  
[13] A1

[51] **Int.Cl. A61K 31/704 (2006.01) A61P 15/14 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01)**

[25] EN  
[54] **USES OF PULSATILLA CHINENSIS EXTRACT IN PREPARING A MEDICAMENT FOR TREATING VIRAL AND/OR BACTERIAL DISEASES**  
[54] **APPLICATIONS D'UN EXTRAIT DE PULSATILLA CHINENSIS DANS LA PREPARATION D'UN MEDICAMENT POUR LE TRAITEMENT DE MALADIES VIRALES ET/OU BACTERIENNES**

[72] YANG, SHILIN, CN  
[72] SU, ZHETONG, CN  
[71] SICHUAN INLU WEITE PHARMACEUTICAL TECHNOLOGY CO., LTD., CN  
[85] 2020-07-24  
[86] 2019-01-25 (PCT/CN2019/073239)  
[87] (WO2019/149156)  
[30] CN (201810097221.3) 2018-01-31

[21] **3,089,524**  
[13] A1

[51] **Int.Cl. H02J 3/36 (2006.01) H02M 1/32 (2007.01) G01R 31/26 (2020.01)**

[25] EN  
[54] **BYPASS THYRISTOR VALVE GROUP INSPECTION METHOD AND CONTROL APPARATUS**  
[54] **PROCEDE D'INSPECTION ET DISPOSITIF DE COMMANDE DE GROUPE DE VALVES A THYRISTORS DE DERIVATION**

[72] LU, DONGBIN, CN  
[72] HUANG, HUA, CN  
[72] PAN, WEIMING, CN  
[72] GAO, SHENGFU, CN  
[72] LIU, LEI, CN  
[72] YANG, FAN, CN  
[71] NR ELECTRIC CO., LTD, CN  
[71] NR ENGINEERING CO., LTD, CN  
[85] 2020-07-24  
[86] 2019-02-21 (PCT/CN2019/075672)  
[87] (WO2019/170002)  
[30] CN (201810178405.2) 2018-03-05

[21] **3,089,527**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN  
[54] **AUTOTAXIN INHIBITORS AND USES THEREOF**  
[54] **INHIBITEURS DE L'AUTOTAXINE ET LEURS UTILISATIONS**

[72] JIN, BOHAN, US  
[72] DONG, QING, US  
[72] HUNG, GENE, US  
[72] LI, YAO, CN  
[71] FRONTERA U.S. PHARMACEUTICALS LLC, US  
[85] 2020-07-24  
[86] 2019-05-29 (PCT/CN2019/089025)  
[87] (WO2019/228403)  
[30] US (62/677,459) 2018-05-29  
[30] US (62/731,003) 2018-09-13

[21] **3,089,528**  
[13] A1

[51] **Int.Cl. C08L 33/12 (2006.01)**

[25] EN  
[54] **LIGHT SCATTERING POLYMERIC COMPOSITION WITH IMPROVED SCATTERING EFFICIENCY AND IMPROVED MECHANICAL PROPERTIES**  
[54] **COMPOSITION POLYMERE DE DIFFUSION DE LUMIERE AYANT UNE EFFICACITE DE DIFFUSION AMELIOREE ET DES PROPRIETES MECANQUES AMELIOREES**

[72] KOGLER, RENE, DE  
[72] PASIERB, MICHAEL, US  
[72] SPAIN, CHRISTOPHER, US  
[72] GOLCHERT, URSULA, DE  
[72] RICHTER, RALF, DE  
[72] BECKER, ERNST, DE  
[72] NAU, STEFAN, DE  
[71] ROHM GMBH, DE  
[71] ROEHM AMERICA LLC, US  
[85] 2020-07-24  
[86] 2019-01-31 (PCT/EP2019/052325)  
[87] (WO2019/149799)  
[30] US (62/626,618) 2018-02-05  
[30] EP (18159341.9) 2018-03-01

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[21] **3,089,529**  
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 8/63 (2006.01) A61K 45/00 (2006.01) A61K 47/28 (2006.01) A61P 35/00 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **A NOVEL BLANK LIPOSOME WITH GINSENOSE R<sub>G3</sub> OR ITS ANALOG AS MEMBRANE MATERIALS AND PREPARATIONS AND USES THEREOF**

[54] **NOUVEAU LIPOSOME VIDE COMPRENANT LE GINSENOSE R<sub>G3</sub> OU SON ANALOGUE EN TANT QUE MATERIAUX DE MEMBRANE, ET PREPARATIONS ET UTILISATIONS CORRESPONDANTES**

[72] WANG, JIANXIN, CN  
[72] HONG, CHAO, CN  
[72] ZHU, YING, CN  
[72] XIA, JIAXUAN, CN  
[72] WANG, DAN, CN  
[72] CHEN, YINGJIANG, CN  
[72] ZHAN, HUAXING, CN  
[71] SHANGHAI GINSOME PHARMATECH CO., LTD., CN  
[85] 2020-07-24  
[86] 2019-11-29 (PCT/CN2019/121880)  
[87] (WO2020/108600)  
[30] CN (201811447243.4) 2018-11-29

[21] **3,089,531**  
[13] A1

[51] **Int.Cl. A61M 25/02 (2006.01) A61B 8/00 (2006.01) A61F 13/02 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **A METHOD FOR PREPARING AN INSERTION SITE FOR A CANNULA ON A SKIN OF A PATIENT, A SKIN COVER UNIT THEREFORE AND ITS USE**

[54] **PROCEDE DE PREPARATION D'UN SITE D'INSERTION DE CANULE SUR LA PEAU D'UN PATIENT, UNITE DE COUVERTURE DE PEAU A CET EFFET ET UTILISATION ASSOCIEE**

[72] BENDTSEN, THOMAS FICHTNER, DK  
[72] SLOTH, ERIK, DK  
[72] KNUDSEN, LARS, DK  
[72] BUCHALTER, NEAL JOSEPH, US  
[71] US ENOVACOR APS, DK  
[85] 2020-07-24  
[86] 2019-01-25 (PCT/DK2019/050032)  
[87] (WO2019/145009)  
[30] US (62/621,651) 2018-01-25  
[30] DK (PA 2018 70085) 2018-02-12

[21] **3,089,532**  
[13] A1

[51] **Int.Cl. B30B 9/24 (2006.01) A22C 17/04 (2006.01)**

[25] EN

[54] **SOFT MATERIAL SEPARATOR WITH FILL-LEVEL-DEPENDENT ADJUSTMENT OF SPEED AND METHOD FOR OPERATING SUCH A SOFT MATERIAL SEPARATOR**

[54] **SEPARATEUR DE SUBSTANCES MOLLES AYANT UNE ADAPTATION DE LA VITESSE DEPENDANTE DU NIVEAU DE REMPLISSAGE ET PROCEDE POUR FAIRE FONCTIONNER UN TEL SEPARATEUR DE SUBSTANCES MOLLES**

[72] GUNTHER, HOPPE, DE  
[71] MODERNPACK HOPPE GMBH, DE  
[85] 2020-07-24  
[86] 2018-10-30 (PCT/EP2018/079679)  
[87] (WO2019/149397)  
[30] DE (10 2018 101 985.8) 2018-01-30

[21] **3,089,534**  
[13] A1

[51] **Int.Cl. A63H 33/10 (2006.01)**

[25] EN

[54] **MAGNET TYPE PLATE TOY**

[54] **JOUET EN PLAQUE DE TYPE A AIMANT**

[72] KOGURE, MASAKO, JP  
[71] PEOPLE CO., LTD., JP  
[85] 2020-07-24  
[86] 2018-07-13 (PCT/JP2018/026568)  
[87] (WO2019/150598)  
[30] JP (2018-017469) 2018-02-02

[21] **3,089,537**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 9/20 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING IBRUTINIB**

[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DE L'IBRUTINIB**

[72] SATYANARAYANA, VATTIKUTI, IN  
[72] KRISHNA MURTHY, BHAVANASI, IN  
[72] NAVEEN KRISHNA, YALAMANCHALLI, IN  
[72] PAVAN, BHAT, IN  
[72] VENKAI AH CHOWDARY, NANNAPANENI, IN  
[71] NATCO PHARMA LIMITED, IN  
[85] 2020-07-17  
[86] 2019-01-11 (PCT/IN2019/050023)  
[87] (WO2019/142207)  
[30] IN (201841002391) 2018-01-20

[21] **3,089,539**  
[13] A1

[51] **Int.Cl. A41D 1/06 (2006.01) A41B 9/00 (2006.01) A41C 1/00 (2006.01)**

[25] EN

[54] **PANTS**

[54] **SLIP**

[72] GOZZI, CHRISTIAN, IT  
[72] MAYER, MARGIT, DE  
[71] GOZZI, CHRISTIAN, IT  
[85] 2020-07-24  
[86] 2018-12-14 (PCT/EP2018/084997)  
[87] (WO2019/145090)  
[30] DE (10 2018 101 549.6) 2018-01-24

## PCT Applications Entering the National Phase

[21] **3,089,540**  
[13] A1

[51] **Int.Cl. G05F 1/46 (2006.01)**  
[25] EN  
[54] **A NOVEL LOW DROPOUT REGULATOR (LDO)**  
[54] **NOUVEAU REGULATEUR A FAIBLE CHUTE DE TENSION (LDO)**  
[72] CAO, HUA, US  
[71] CAO, HUA, US  
[85] 2020-07-20  
[86] 2019-01-11 (PCT/US2019/013203)  
[87] (WO2019/156775)  
[30] US (62/627,585) 2018-02-07

[21] **3,089,541**  
[13] A1

[51] **Int.Cl. G16H 20/13 (2018.01) A61J 1/03 (2006.01)**  
[25] EN  
[54] **PILL DISPENSER DEVICE, SYSTEM, AND METHOD**  
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE DISTRIBUTION DE PILULES**  
[72] ZULETA, DAVID, US  
[71] MODOSCRIPT LLC, US  
[85] 2020-07-24  
[86] 2019-01-26 (PCT/IB2019/000088)  
[87] (WO2019/145787)

[21] **3,089,542**  
[13] A1

[51] **Int.Cl. G01S 5/30 (2006.01) G01S 5/02 (2010.01) G01S 5/18 (2006.01)**  
[25] EN  
[54] **LOCATION-BASED FUNCTIONALITY USING ACOUSTIC LOCATION DETERMINATION TECHNIQUES**  
[54] **FONCTIONNALITE BASEE SUR L'EMPLACEMENT A L'AIDE DE TECHNIQUES ACOUSTIQUES DE DETERMINATION D'EMPLACEMENT**  
[72] AASEN, TERJE, US  
[72] BOOIJ, WILFRED EDWIN, NO  
[71] SONITOR TECHNOLOGIES AS, NO  
[85] 2020-07-24  
[86] 2019-01-23 (PCT/IB2019/050577)  
[87] (WO2019/145879)  
[30] US (62/622,448) 2018-01-26

[21] **3,089,543**  
[13] A1

[51] **Int.Cl. A01N 31/04 (2006.01) A01G 7/06 (2006.01) A01N 25/04 (2006.01) A01N 31/08 (2006.01)**  
[25] EN  
[54] **FLOWER THINNING COMPOSITION AND FLOWER THINNING METHOD USING SAME**  
[54] **COMPOSITION D'AMINCISSEMENT DE FLEUR ET PROCEDE D'AMINCISSEMENT DE FLEUR L'UTILISANT**  
[72] CHANG, IN-KOOK, KR  
[71] CHANG, IN-KOOK, KR  
[85] 2020-07-23  
[86] 2018-11-15 (PCT/KR2018/014024)  
[87] (WO2019/177222)  
[30] KR (10-2018-0029967) 2018-03-14

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[54] **DELAMINATION CONTAINER**  
[54] **RECIPIENT DE DELAMINAGE**  
[72] HOSOKOSHIYAMA, HIROSHI, JP  
[71] YOSHINO KOGYOSYO CO., LTD., JP  
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[87] (WO2019/146224)  
[30] JP (2018-012069) 2018-01-26

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[25] EN  
[54] **DEVICE AND METHOD FOR FILTERING A FLUID CIRCULATING IN A PLUMBING AND HEATING SYSTEM**  
[54] **DISPOSITIF ET PROCEDE DE FILTRAGE D'UN FLUIDE CIRCULANT DANS UN SYSTEME DE PLOMBERIE ET DE CHAUFFAGE**  
[72] BERTOLOTTI, UMBERTO, IT  
[71] I.V.A.R. S.P.A., IT  
[85] 2020-07-24  
[86] 2019-02-06 (PCT/IB2019/050952)  
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[54] **SOLVENT EXTRACTION METHOD**  
[54] **PROCEDE D'EXTRACTION DE SOLVANT**  
[72] OHARA, HIDEKI, JP  
[72] ASANO, SATOSHI, JP  
[72] KOBAYASHI, HIROSHI, JP  
[72] TAKANO, MASATOSHI, JP  
[72] SANJO, SHOTA, JP  
[71] SUMITOMO METAL MINING CO., LTD., JP  
[85] 2020-07-24  
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[51] **Int.Cl. G10L 19/008 (2013.01) G10L 19/18 (2013.01) G10L 19/02 (2013.01)**  
[25] EN  
[54] **AUDIO SCENE ENCODER, AUDIO SCENE DECODER AND RELATED METHODS USING HYBRID ENCODER/DECODER SPATIAL ANALYSIS**  
[54] **CODEUR DE SCENE AUDIO, DECODEUR DE SCENE AUDIO ET PROCEDES ASSOCIES METTANT EN UUVRE UNE ANALYSE SPATIALE HYBRIDE DE CODEUR/DECODEUR**  
[72] FUCHS, GUILLAUME, DE  
[72] BAYER, STEFAN, DE  
[72] MULTRUS, MARKUS, DE  
[72] THIERGART, OLIVER, DE  
[72] BOUTHEON, ALEXANDRE, DE  
[72] HERRE, JURGEN, DE  
[72] GHIDO, FLORIN, DE  
[72] JAEGER, WOLFGANG, DE  
[72] KUCH, FABIAN, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
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[25] EN  
[54] **VEGETATION PARTITION WIRE MESH INCLUDING NONWOVEN FABRIC, AND SLOPE GREENING METHOD USING SAME**  
[54] **TREILLIS METALLIQUE DE SEPARATION DE VEGETATION COMPORTANT UN TISSU NON TISSE, ET PROCEDE DE VEGETALISATION DE PENTE UTILISANT CE DERNIER**  
[72] HAN, NAM SOO, KR  
[71] GREEN SPACE CO., LTD., KR  
[85] 2020-07-23  
[86] 2019-01-21 (PCT/KR2019/000819)  
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[54] **CONTINUOUS PROCESS FOR THE PREPARATION OF TRAZODONE**  
[54] **PROCEDE CONTINU DE PREPARATION DE TRAZODONE**  
[72] IACOANGELI, TOMMASO, IT  
[72] MORO, LEONARDO MARIO, IT  
[72] CARACCILO TORCHIAROLO, GIULIANO, IT  
[72] CAVARISCHIA, CLAUDIA, IT  
[72] FURLOTTI, GUIDO, IT  
[71] AZIENDE CHIMICHE RIUNITE ANGELINI FRANCESCO A.C.R.A.F. S.P.A., IT  
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[54] **THIOPHENE DERIVATIVE AND USE THEREOF**  
[54] **DERIVE DE THIOPHENE ET SON UTILISATION**  
[72] WATANABE, MAYUMI, JP  
[72] ANDO, TAKASHI, JP  
[72] UEDA, YASUYUKI, JP  
[72] MATSUSHITA, KENYA, JP  
[72] MIZUTANI, YASUHIKO, JP  
[72] TAKAHASHI, JUN, JP  
[72] YAMADA, MITSUO, JP  
[72] YOKOYAMA, HIRONORI, JP  
[72] KANAOKA, DAIKI, JP  
[72] URABE, KAZUNORI, JP  
[72] ISHII, TAKAFUMI, JP  
[71] FUJIMOTO CO., LTD., JP  
[85] 2020-07-24  
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[30] JP (2018-010984) 2018-01-25  
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[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR RETIRER DES CAILLOTS SANGUINS**  
[72] SPENCE, PAUL A., US  
[71] ISCHEMICURE LTD., US  
[85] 2020-07-23  
[86] 2019-01-25 (PCT/US2019/015220)  
[87] (WO2019/147985)  
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[30] US (62/775,510) 2018-12-05

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[25] EN  
[54] **PROBE FOR EDDY CURRENT NON-DESTRUCTIVE TESTING**  
[54] **SONDE POUR ESSAIS NON DESTRUCTIFS PAR COURANTS DE FOUCAULT**  
[72] DEMERS-CARPENTIER, VINCENT, CA  
[72] SISTO, MARCO MICHELE, CA  
[71] EDDYFI NDT INC., CA  
[85] 2020-07-24  
[86] 2019-02-08 (PCT/IB2019/051042)  
[87] (WO2019/155424)  
[30] US (62/627,903) 2018-02-08

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[13] A1

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[25] EN  
[54] **SOLIDIFYING LIQUID ANIONIC SURFACTANTS**  
[54] **TENSIOACTIFS ANIONIQUES LIQUIDES SOLIDIFIANTS**  
[72] LO, WENDY, US  
[72] OLSON, ERIK C., US  
[72] HANSEN, JON D., US  
[72] MOLINARO, KATHERINE J., US  
[72] ROSENTHAL, COREY, US  
[71] ECOLAB USA INC., US  
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[54] **FLAX STRAW FIBER BASED BUILDING MATERIAL**

[54] **MATERIAU DE CONSTRUCTION A BASE DE FIBRES DE PAILLE DE LIN**

[72] EBERTS, DENNIS JOHN, US

[72] KOSTELECKY, THOMAS MICKAEL, US

[71] MULTI-FAMILY BUILDING PRODUCTS INC., US

[85] 2020-07-24

[86] 2018-03-14 (PCT/US2018/022346)

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[25] EN

[54] **SPIRO-LACTAM NMDA RECEPTOR MODULATORS AND USES THEREOF**

[54] **MODULATEURS DES RECEPTEURS NMDA SPIRO-LACTAMES ET LEURS UTILISATIONS**

[72] KHAN, M. AMIN, US

[71] APTINYX INC., US

[85] 2020-07-23

[86] 2019-01-31 (PCT/US2019/016098)

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[54] **EPICHLÖE ENDOPHYTE**

[54] **ENDOPHYTE EPICHLÖE**

[72] HUME, DAVID EDWARD, NZ

[72] SIMPSON, WAYNE ROYDON, NZ

[72] JOHNSON, RICHARD DAVID, NZ

[71] GRASSLANZ TECHNOLOGY LIMITED, NZ

[71] THE GRAINS RESEARCH AND DEVELOPMENT CORPORATION, AU

[85] 2020-07-24

[86] 2019-02-19 (PCT/IB2019/051304)

[87] (WO2019/162816)

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[25] EN

[54] **SPIRO-LACTAM NMDA RECEPTOR MODULATORS AND USES THEREOF**

[54] **SPIRO-LACTAME MODULATEUR DES RECEPTEURS NMDA ET LEURS UTILISATIONS**

[72] KHAN, M. AMIN, US

[71] APTINYX INC., US

[85] 2020-07-23

[86] 2019-01-31 (PCT/US2019/016112)

[87] (WO2019/152687)

[30] US (62/624,218) 2018-01-31

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[51] **Int.Cl. A61K 31/7105 (2006.01) C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61K 31/711 (2006.01) A61K 35/12 (2015.01) A61K 45/06 (2006.01) A61K 48/00 (2006.01) A61P 17/02 (2006.01)**

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[54] **METHODS OF TREATING A WOUND USING EPIGENETIC REGULATION**

[54] **METHODES DE TRAITEMENT D'UNE PLAIE FAISANT APPEL A UNE REGULATION EPIGENETIQUE**

[72] MESSINA, LOUIS M., US

[71] UNIVERSITY OF MASSACHUSETTS, US

[85] 2020-07-24

[86] 2018-07-02 (PCT/US2018/040642)

[87] (WO2019/152070)

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[51] **Int.Cl. F24F 3/16 (2006.01) A61L 9/20 (2006.01)**

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[54] **FLUID TREATMENT DEVICE**

[54] **DISPOSITIF DE TRAITEMENT DE LIQUIDE**

[72] JEONG, JAE HAK, KR

[72] KIM, JI WON, KR

[72] SHIN, SANG CHUL, KR

[72] JEONG, WOONG KI, KR

[71] SEOUL VIOSYS CO., LTD., KR

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[86] 2019-01-25 (PCT/KR2019/001063)

[87] (WO2019/147058)

[30] KR (10-2018-0009795) 2018-01-26

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[54] **CRIBLAGE D'ENDOPHYTES**  
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[72] JOHNSON, RICHARD DAVID, NZ  
[72] TSUJIMOTO, HISASHI, JP  
[71] NATIONAL UNIVERSITY CORPORATION TOTTORI UNIVERSITY, JP  
[71] THE GRAINS RESEARCH AND DEVELOPMENT CORPORATION, AU  
[71] GRASSLANZ TECHNOLOGY LIMITED, NZ  
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[30] NZ (740055) 2018-02-21

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[13] A1

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[54] **POLYTHERAPIE POUR LE TRAITEMENT DE TUMEURS STROMALES GASTRO-INTESTINALES**  
[72] FLYNN, DANIEL L., US  
[72] SMITH, BRYAN D., US  
[72] GUPTA, ANU, US  
[71] DECIPHERA PHARMACEUTICALS, LLC, US  
[85] 2020-07-23  
[86] 2019-01-31 (PCT/US2019/016148)  
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[25] EN  
[54] **SETTABLE, FORM-FILLING LOSS CIRCULATION CONTROL COMPOSITIONS COMPRISING IN SITU FOAMED NON-HYDRAULIC SOREL CEMENT SYSTEMS AND METHOD OF USE**  
[54] **COMPOSITIONS DURCISSABLES DE REGULATION DE LA PERTE DE CIRCULATION POUR LE REMPLISSAGE DE FORME, COMPRENANT DES SYSTEMES DE CIMENT SOREL NON HYDRAULIQUES EXPANSES IN SITU ET PROCEDE D'UTILISATION**  
[72] REDDY, B. RAGHAVA, US  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-07-24  
[86] 2019-01-22 (PCT/US2019/014522)  
[87] (WO2019/147559)  
[30] US (15/879,169) 2018-01-24

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[13] A1

[51] **Int.Cl. A61F 5/56 (2006.01)**  
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[54] **SLEEP APNEA ORAL APPLIANCE WITH CONNECTORS**  
[54] **APPAREIL BUCCAL POUR APNEE DU SOMMEIL AVEC CONNECTEURS**  
[72] VEIS, ROBIN, US  
[72] CHRISTIAN, JOHN, US  
[71] SELANE PRODUCTS, INC., US  
[85] 2020-07-23  
[86] 2019-01-31 (PCT/US2019/016198)  
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[30] US (62/624,730) 2018-01-31

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[13] A1

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[25] EN  
[54] **CLEANING DEVICE FOR A SUBMERGED SURFACE**  
[54] **DISPOSITIF DE NETTOYAGE POUR UNE SURFACE IMMERGEE**  
[72] MOLAUG, ANDERS, NO  
[72] MOLAUG, OLE, NO  
[72] AAMODT, HARALD, NO  
[72] MOLAUG, KNUIT, NO  
[71] AQUA ROBOTICS AS, NO  
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[86] 2019-01-22 (PCT/NO2019/050012)  
[87] (WO2019/147137)  
[30] NO (20180118) 2018-01-25  
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[13] A1

[51] **Int.Cl. H04R 25/00 (2006.01)**  
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[54] **A HEARING ASSISTANCE DEVICE WITH AN ACCELEROMETER**  
[54] **PROTHESE AUDITIVE POURVUE D'UN ACCELEROMETRE**  
[72] AASE, JONATHAN SARJEANT, US  
[72] BAKER, JEFF, US  
[72] POLINSKE, BEAU, US  
[72] KLIMANIS, GINTS, US  
[71] EARGO, INC., US  
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[54] **MACHINE-LEARNING-BASED MODELS FOR PHASE EQUILIBRIA CALCULATIONS IN COMPOSITIONAL RESERVOIR SIMULATIONS**

[54] **MODELES BASES SUR L'APPRENTISSAGE MACHINE POUR DES CALCULS D'EQUILIBRES DE PHASE DANS DES SIMULATIONS DE RESERVOIR DE COMPOSITION**

[72] RAMAN, VINAY, US  
[72] FERGUSON, TODD R., US  
[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-07-24  
[86] 2019-01-23 (PCT/US2019/014696)  
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[30] US (15/879,793) 2018-01-25

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[13] A1

[51] **Int.Cl. C04B 28/06 (2006.01) C04B 38/02 (2006.01) C09K 8/487 (2006.01)**

[25] EN

[54] **SETTABLE, FORM-FILLING LOSS CIRCULATION CONTROL COMPOSITIONS COMPRISING IN SITU FOAMED CALCIUM ALUMINATE CEMENT SYSTEMS AND METHODS OF USING THEM**

[54] **COMPOSITIONS DURCISSABLES DE REGULATION DE LA PERTE DE CIRCULATION POUR LE REMPLISSAGE DE FORME COMPRENANT DES SYSTEMES DE CIMENT A BASE D'ALUMINATE DE CALCIUM EXPANSE IN SITU ET LEURS PROCEDES D'UTILISATION**

[72] REDDY, B. RAGHAVA, US  
[71] SAUDI ARABIAN OIL COMPANY, SA

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[86] 2019-01-23 (PCT/US2019/014699)  
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[54] **BIOLOGICAL FLUID COLLECTION AND STABILIZATION SYSTEM**

[54] **SYSTEME DE COLLECTE ET DE STABILISATION DE FLUIDE BIOLOGIQUE**

[72] EDELHAUSER, ADAM, US  
[72] WILKINSON, BRADLEY M., US  
[71] BECTON, DICKINSON AND COMPANY, US

[85] 2020-07-23  
[86] 2019-02-04 (PCT/US2019/016520)  
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[54] **HYDROCARBON MIGRATION AND ACCUMULATION METHODS AND SYSTEMS**

[54] **PROCEDES ET SYSTEMES DE MIGRATION ET D'ACCUMULATION D'HYDROCARBURES**

[72] FUNG, LARRY SIU-KUEN, SA  
[72] DU, SHOUHONG, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-07-24  
[86] 2019-01-23 (PCT/US2019/014688)  
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[51] **Int.Cl. A61B 34/20 (2016.01) A61F 5/00 (2006.01) G05B 15/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ADVANCED MEDICAL DEVICE PLACEMENT AND USAGE**

[54] **SYSTEMES ET PROCEDES DE PLACEMENT ET D'UTILISATION DE DISPOSITIF MEDICAL AVANCE**

[72] KELLY, BRIAN, US  
[72] NEWCOMB, ANNA, US  
[72] LANGENBACH, WILLIAM, US  
[72] JEFFERYS, KIRSTEN, US  
[72] TUMIALAN, LUIS MANUEL, US  
[72] ABBAS, JAMES, US  
[71] DIGNITY HEALTH, US  
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US

[85] 2020-07-24  
[86] 2018-02-27 (PCT/US2018/019966)  
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[30] US (62/463,765) 2017-02-27

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[51] **Int.Cl. C07D 221/04 (2006.01) C07D 471/04 (2006.01) C07D 498/02 (2006.01)**

[25] EN

[54] **USE OF PYRIDOXAL ACETAL SALTS AS WATER-TRIGGERED PROFRAGRANCES**

[54] **UTILISATION DE SELS DE PYRIDOXAL ACETAL COMME PROPARGES DECLENCHES PAR L'EAU**

[72] BOYCE, GREGORY R., US  
[71] VITACHEM LLC, US

[85] 2020-07-24  
[86] 2019-01-24 (PCT/US2019/014864)  
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[30] US (62/622,175) 2018-01-26



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[21] **3,089,582**  
[13] A1

[51] **Int.Cl. A01G 24/00 (2018.01) A01G 24/12 (2018.01) A01G 24/15 (2018.01) A01G 24/22 (2018.01) A01G 24/28 (2018.01) A01G 24/35 (2018.01)**

[25] EN  
[54] **ADDITIVES FOR ENHANCED BINDING IN GROWING MEDIA**  
[54] **ADDITIFS POUR UNE LIAISON AMELIOREE DANS DES MILIEUX DE CULTURE**

[72] REIERSEN, HERALD, US  
[72] WARD, JOHN, US  
[71] JIFFY INTERNATIONAL AS, NO  
[85] 2020-07-24  
[86] 2019-01-24 (PCT/US2019/014886)  
[87] (WO2019/147759)  
[30] US (62/621,880) 2018-01-25

[21] **3,089,583**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 35/13 (2015.01) A61K 39/00 (2006.01)**

[25] EN  
[54] **BIODIFFUSION CHAMBER**  
[54] **CHAMBRE DE BIODIFFUSION**

[72] ANDREWS, DAVID, US  
[72] HITCHINGS, WILLIAM, US  
[72] VENTURA, DOMINIC, US  
[72] PIGOTT, KARA, US  
[72] HOOPER, DOUGLAS CRAIG, US  
[72] LAURENZI, BRENDAN, US  
[71] THOMAS JEFFERSON UNIVERSITY, US  
[71] IMVAX, INC., US  
[71] LAURENZI, BRENDAN, US  
[85] 2020-07-24  
[86] 2019-01-24 (PCT/US2019/014961)  
[87] (WO2019/147817)  
[30] US (62/621,295) 2018-01-24

[21] **3,089,584**  
[13] A1

[51] **Int.Cl. H04N 19/154 (2014.01) H04N 19/136 (2014.01) G06K 9/62 (2006.01) G06N 3/02 (2006.01) G06T 7/00 (2017.01)**

[25] EN  
[54] **TECHNIQUES FOR PREDICTING PERCEPTUAL VIDEO QUALITY BASED ON COMPLEMENTARY PERCEPTUAL QUALITY MODELS**  
[54] **TECHNIQUES DE PREDICTION DE QUALITE VIDEO PERCEPTUELLE SUR LA BASE DE MODELES DE QUALITE PERCEPTUELLE COMPLEMENTAIRES**

[72] LI, ZHI, US  
[72] BAMPIS, CHRISTOS, US  
[71] NETFLIX, INC., US  
[85] 2020-07-23  
[86] 2019-02-07 (PCT/US2019/017134)  
[87] (WO2019/157235)  
[30] US (15/890,710) 2018-02-07

[21] **3,089,585**  
[13] A1

[51] **Int.Cl. C08G 8/22 (2006.01) C04B 35/524 (2006.01) C08G 8/10 (2006.01) C08L 61/10 (2006.01) C08L 61/12 (2006.01)**

[25] EN  
[54] **METHODS FOR PREPARING CARBON MATERIALS**  
[54] **PROCEDES DE PREPARATION DE MATIERES CARBONEES**

[72] KRON, BENJAMIN, US  
[72] FEAVER, AARON, US  
[72] O'NEILL, WILLIAM, US  
[72] HERRICK, ROBERT, US  
[72] WIDGREN, HEATHER, US  
[72] ARANDT, THOMAS, BR  
[71] ENERG2 TECHNOLOGIES, INC., US  
[71] BASF SE, DE  
[85] 2020-07-24  
[86] 2019-01-24 (PCT/US2019/014984)  
[87] (WO2019/147836)  
[30] US (62/621,467) 2018-01-24

[21] **3,089,586**  
[13] A1

[51] **Int.Cl. F03G 7/04 (2006.01) F03B 17/02 (2006.01) F03B 17/04 (2006.01) F03G 7/06 (2006.01)**

[25] EN  
[54] **POWER GENERATION SYSTEM**  
[54] **SYSTEME DE PRODUCTION D'ENERGIE**

[72] ANTEAU, MARK R., US  
[71] ANTEAU, MARK R., US  
[85] 2020-07-24  
[86] 2019-01-24 (PCT/US2019/014989)  
[87] (WO2019/147841)  
[30] US (62/622,048) 2018-01-25  
[30] US (16/116,903) 2018-08-29

[21] **3,089,587**  
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01) C12N 9/16 (2006.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/90 (2006.01)**

[25] EN  
[54] **ENGINEERED TARGET SPECIFIC NUCLEASES**  
[54] **NUCLEASES SPECIFIQUES DE CIBLE SPECIFIQUEMENT MODIFIEES**

[72] DEKELVER, RUSSELL, US  
[72] KRIVEGA, IVAN, US  
[72] MILLER, JEFFREY C., US  
[72] ZHANG, LEI, US  
[71] SHANGMO THERAPEUTICS, INC., US  
[85] 2020-07-23  
[86] 2019-02-08 (PCT/US2019/017273)  
[87] (WO2019/157324)

[21] **3,089,588**  
[13] A1

[51] **Int.Cl. C07J 43/00 (2006.01)**

[25] EN  
[54] **CYCLIN-DEPENDENT KINASE INHIBITORS AND METHODS OF USE**  
[54] **INHIBITEURS DE KINASE DEPENDANTE DE LA CYCLINE ET LEURS PROCEDES D'UTILISATION**

[72] GRAY, NATHANAEL S., US  
[72] HATCHER, JOHN, US  
[71] DANA-FARBER CANCER INSTITUTE, INC., US  
[85] 2020-07-23  
[86] 2019-02-13 (PCT/US2019/017747)  
[87] (WO2019/160889)  
[30] US (62/629,751) 2018-02-13

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[21] **3,089,590**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61P 31/18 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **PYRIDINE DERIVATIVES AND THEIR USE FOR TREATING HIV INFECTION**

[54] **DERIVES DE PYRIDINE ET LEUR UTILISATION POUR LE TRAITEMENT D'UNE INFECTION PAR LE VIH**

[72] BRIZGYS, GEDIMINAS, US

[72] CANALES, EDA, US

[72] CHOU, CHIENHUNG, US

[72] GRAUPE, MICHAEL, US

[72] SAITO, ROLAND D., US

[72] SCHROEDER, SCOTT D., US

[72] TSE, WINSTON C., US

[72] WU, QIAOYIN, US

[72] ZHANG, JENNIFER R., US

[72] LI, JIAYAO, US

[71] GILEAD SCIENCES, INC., US

[85] 2020-07-23

[86] 2019-02-14 (PCT/US2019/017948)

[87] (WO2019/161017)

[30] US (62/630,955) 2018-02-15

[21] **3,089,591**  
[13] A1

[51] **Int.Cl. B61K 9/04 (2006.01) B61K 9/12 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD AND APPARATUS FOR MONITORING THE HEALTH OF RAILCAR WHEELSETS**

[54] **SYSTEME, PROCEDE ET APPAREIL DE SURVEILLANCE DE LA CONDITION DES ESSIEUX MONTES SUR UN VEHICULE FERROVIAIRE**

[72] SAMADANI, MOHSEN, US

[72] HEAGERTY, DAVID, US

[72] COOPER, FRANCIS, US

[72] MARAINI, DANIEL, US

[72] SEIDEL, ANDREW, US

[71] AMSTED RAIL COMPANY, INC., US

[85] 2020-07-23

[86] 2019-02-15 (PCT/US2019/018231)

[87] (WO2019/161212)

[30] US (62/631,279) 2018-02-15

[21] **3,089,592**  
[13] A1

[51] **Int.Cl. C07D 265/36 (2006.01) A61K 31/538 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUNDS AS KINASE INHIBITORS**

[54] **COMPOSES HETEROCYCLIQUES UTILISES EN TANT QU'INHIBITEURS DE KINASES**

[72] PHAM, SON, MINH, US

[72] CHAKRAVARTY, SARVAJIT, US

[72] KANKANALA, JAYAKANTH, US

[72] PUJALA, BRAHMAM, IN

[72] SHETE, AMIT, IN

[72] BHATT, BHAWANA, IN

[72] AGARWAL, ANIL KUMAR, IN

[72] SONI, SANJEEV, IN

[72] CHEN, JIYUN, US

[71] NUvation BIO INC., US

[85] 2020-07-23

[86] 2019-02-15 (PCT/US2019/018244)

[87] (WO2019/161224)

[30] US (62/631,437) 2018-02-15

[21] **3,089,593**  
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) C12Q 1/6881 (2018.01) A61L 27/00 (2006.01) A61P 43/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **CULTURED THYMUS TISSUE TRANSPLANTATION PROMOTES DONOR-SPECIFIC TOLERANCE TO ALLOGENEIC SOLID ORGAN TRANSPLANTS**

[54] **GREFFE DE TISSUS DE THYMUS CULTIVES FAVORISANT UNE TOLERANCE SPECIFIQUE AU DONNEUR A DES GREFFONS D'ORGANES SOLIDES ALLOGENIQUES**

[72] MARKERT, MARY LOUISE, US

[71] DUKE UNIVERSITY & MEDICAL CENTER, US

[85] 2020-07-23

[86] 2019-02-22 (PCT/US2019/019137)

[87] (WO2019/165197)

[30] US (62/634,377) 2018-02-23

[21] **3,089,594**  
[13] A1

[51] **Int.Cl. H02K 11/00 (2016.01)**

[25] EN

[54] **ELECTRICAL POWER GENERATING UNIT**

[54] **UNITE DE GENERATION D'ENERGIE ELECTRIQUE**

[72] TUTUNARU, CATALIN, US

[71] STANLEY MOTORS INC., US

[85] 2020-07-23

[86] 2019-02-06 (PCT/US2019/016827)

[87] (WO2019/157042)

[30] US (62/627,096) 2018-02-06

[21] **3,089,595**  
[13] A1

[51] **Int.Cl. B65D 47/08 (2006.01) A47G 19/22 (2006.01) B65D 47/12 (2006.01)**

[25] EN

[54] **LIQUID CONTAINER LID AND APPARATUS AND METHODS OF USE**

[54] **COUVERCLE POUR RECIPIENT DE LIQUIDE ET APPAREIL ET PROCES D'UTILISATION**

[72] HOWARD, JUSTIN, US

[72] RUEHLEN, NEVADA LORRAINE, US

[72] ASHLEY, CHRISTOPHER REDELL, US

[72] MASON, ANDREW FELIX, US

[72] LAFATA, GREGORY A., US

[72] JOHNSTON, JOSHUA, US

[71] STRIX (USA), INC., US

[71] STRIX (U.K.) LIMITED, GB

[85] 2020-07-24

[86] 2019-01-24 (PCT/US2019/015028)

[87] (WO2019/147866)

[30] US (62/622,783) 2018-01-26

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[21] **3,089,597**  
[13] A1

[51] **Int.Cl. G06F 3/16 (2006.01) G06T 7/20 (2017.01) G10L 15/08 (2006.01)**

[25] EN

[54] **BIOMETRIC SENSOR DEVICE FOR DIGITAL QUANTITATIVE PHENOTYPING**

[54] **DISPOSITIF DE CAPTEUR BIOMETRIQUE POUR PHENOTYPAGE QUANTITATIF NUMERIQUE**

[72] SCHULTZ, ROBERT, US  
[72] BARTLEY, G., KEITH, US  
[72] SARIYANIDI, EVANGELOS, US  
[72] PARISH-MORRIS, JULIA, US  
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US

[85] 2020-07-24  
[86] 2019-01-25 (PCT/US2019/015178)  
[87] (WO2019/147955)  
[30] US (62/621,762) 2018-01-25

[21] **3,089,598**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 31/4184 (2006.01) A61K 31/4725 (2006.01) A61P 25/00 (2006.01) A61P 27/16 (2006.01)**

[25] EN

[54] **MODULATORS OF SMALL CONDUCTANCE CALCIUM ACTIVATED K+ CHANNELS AND PHARMACEUTICAL COMPOSITIONS FOR USE IN THE TREATMENT OF LESIONAL VESTIBULAR DISORDERS**

[54] **MODULATEURS DE CANAUX K+ ACTIVES PAR LE CALCIUM A FAIBLE CONDUCTANCE ET COMPOSITIONS PHARMACEUTIQUES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE TROUBLES VESTIBULAIRES LESIONNELS**

[72] TIGHILET, BRAHIM, FR  
[72] CHABBERT, CHRISTIAN, FR  
[72] MOURRE, CHRISTIANE, FR  
[72] PERICAT, DAVID, FR  
[72] LEONARD, JACQUES, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR  
[71] UNIVERSITE D'AIX-MARSEILLE (AMU), FR

[85] 2020-07-24  
[86] 2019-03-13 (PCT/EP2019/056342)  
[87] (WO2019/175278)  
[30] EP (18161367.0) 2018-03-13  
[30] EP (18020517.1) 2018-10-18

[21] **3,089,599**  
[13] A1

[51] **Int.Cl. G01J 5/04 (2006.01) G01J 5/20 (2006.01)**

[25] FR

[54] **PROCESS FOR MANUFACTURING A MICROBOLOMETER CONTAINING VANADIUM OXIDE-BASED SENSITIVE MATERIAL**

[54] **PROCEDE DE FABRICATION D'UN MICROBOLOMETRE A MATERIAU SENSIBLE A BASE D'OXYDE DE VANADIUM**

[72] PELENC, DENIS, FR  
[72] ZUCCHI, XAVIER, FR  
[72] VIALLE, CLAIRE, FR  
[72] GOUDON, VALERIE, FR  
[72] ALIANE, ABDELKADER, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2020-07-24  
[86] 2019-02-14 (PCT/FR2019/050326)  
[87] (WO2019/158863)  
[30] FR (1800145) 2018-02-15

[21] **3,089,602**  
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **FC VARIANTS WITH ENHANCED BINDING TO FCRN AND PROLONGED HALF-LIFE**

[54] **VARIANTS FC PRESENTANT UNE LIAISON AMELIOREE A FCRN ET DEMI-VIE PROLONGEE**

[72] QIU, HUAWEI, US  
[72] MACKNESS, BRIAN, US  
[71] GENZYME CORPORATION, US

[85] 2020-07-24  
[86] 2019-01-25 (PCT/US2019/015204)  
[87] (WO2019/147973)  
[30] US (62/622,468) 2018-01-26

[21] **3,089,603**  
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01) A41D 13/11 (2006.01) A42B 3/22 (2006.01) A42B 3/28 (2006.01)**

[25] EN

[54] **SURGICAL APPAREL SYSTEM AND METHOD OF USE**

[54] **SYSTEME D'APPAREIL CHIRURGICAL ET PROCEDE D'UTILISATION**

[72] JEFFERIS, RYAN, US  
[72] KIDMAN, BEAU, US  
[72] ISHAM, STEPHEN, US  
[71] STRYKER CORPORATION, US

[85] 2020-07-24  
[86] 2019-01-25 (PCT/US2019/015128)  
[87] (WO2019/147923)  
[30] US (62/622,520) 2018-01-26  
[30] US (62/676,135) 2018-05-24  
[30] US (16/223,523) 2018-12-18

[21] **3,089,606**  
[13] A1

[51] **Int.Cl. G01C 11/06 (2006.01) H04N 13/194 (2018.01) G01S 13/89 (2006.01) G06K 9/20 (2006.01) G06K 9/32 (2006.01) G06K 9/34 (2006.01) G06T 17/20 (2006.01)**

[25] EN

[54] **VORONOI CROPPING OF IMAGES FOR POST FIELD GENERATION**

[54] **RECADRAGE DE VORONOI D'IMAGES PERMETTANT UNE GENERATION POST-CHAMP**

[72] LINDSEY, QUENTIN, US  
[71] AEROVIRONMENT, INC., US

[85] 2020-07-24  
[86] 2019-01-25 (PCT/US2019/015207)  
[87] (WO2019/147976)  
[30] US (62/622,654) 2018-01-26

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[21] **3,089,608**  
[13] A1

[51] **Int.Cl. C12Q 1/6874 (2018.01) C12Q 1/6888 (2018.01) C12Q 1/689 (2018.01)**

[25] EN

[54] **SOIL HEALTH INDICATORS USING MICROBIAL COMPOSITION**

[54] **INDICATEURS DE LA SANTE DU SOL UTILISANT UNE COMPOSITION MICROBIENNE**

[72] PARAMESWARAN, POORNIMA, US

[72] PLACELLA, SARAH, US

[72] WU, DI, US

[72] WEAVER, DANIEL S., US

[72] LANG, JENNA MORGAN, US

[71] TRACE GENOMICS, INC., US

[85] 2020-07-24

[86] 2019-01-25 (PCT/US2019/015264)

[87] (WO2019/148017)

[30] US (62/622,067) 2018-01-25

[30] US (62/622,061) 2018-01-25

[30] US (62/622,059) 2018-01-25

[30] US (62/622,071) 2018-01-25

[30] US (62/622,060) 2018-01-25

[30] US (62/622,062) 2018-01-25

[30] US (62/622,063) 2018-01-25

[30] US (62/622,064) 2018-01-25

[30] US (62/622,070) 2018-01-25

[30] US (62/657,590) 2018-04-13

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[21] **3,089,610**  
[13] A1

[51] **Int.Cl. G05B 21/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ACTIVE CLOUD POINT ADJUSTMENT AND REFRIGERATION CYCLES**

[54] **SYSTEMES ET PROCEDES DE REGLAGE DE POINT DE TROUBLE ACTIF ET DE CYCLES DE REFRIGERATION**

[72] NOVEK, ETHAN J., US

[71] NOVEK, ETHAN J., US

[85] 2020-07-24

[86] 2019-01-25 (PCT/US2019/015283)

[87] (WO2019/148032)

[30] US (62/622,528) 2018-01-26

[30] US (62/670,117) 2018-05-11

[30] US (62/771,902) 2018-11-27

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[21] **3,089,611**  
[13] A1

[51] **Int.Cl. G01J 5/04 (2006.01) G01J 5/20 (2006.01)**

[25] FR

[54] **PROCESS FOR MANUFACTURING A MICROBOLOMETER CONTAINING VANADIUM OXIDE-BASED SENSITIVE MATERIAL**

[54] **PROCEDE DE FABRICATION D'UN MICROBOLOMETRE A MATERIAU SENSIBLE A BASE D'OXYDE DE VANADIUM**

[72] PELENC, DENIS, FR

[72] ZUCCHI, XAVIER, FR

[72] VIALLE, CLAIRE, FR

[72] GOUDON, VALERIE, FR

[72] ALIANE, ABDELKADER, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2020-07-24

[86] 2019-02-14 (PCT/FR2019/050327)

[87] (WO2019/158864)

[30] FR (1800141) 2018-02-15

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[21] **3,089,613**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01)**

[25] EN

[54] **CHARGING CASE ASSEMBLY**

[54] **ENSEMBLE ETUI DE CHARGE**

[72] CHAN, EDWARD K.W., US

[72] CHEUNG, BRANDON, US

[72] JOHNSON, RICHARD, US

[72] LAU, NOLAN Y T, US

[72] LOMELI, KEVIN, US

[72] MONSEES, JAMES, US

[72] RINGROSE, ALEXANDER, US

[72] WACYK, ROXOLANA, US

[71] JUUL LABS, INC., US

[85] 2020-07-24

[86] 2019-01-25 (PCT/US2019/015291)

[87] (WO2019/148038)

[30] US (62/622,744) 2018-01-26

[30] US (62/697,375) 2018-07-12

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[21] **3,089,615**  
[13] A1

[51] **Int.Cl. H02G 1/04 (2006.01) H02G 7/02 (2006.01) H02G 7/14 (2006.01)**

[25] EN

[54] **INTELLIGENT ELECTRICAL CONDUCTOR INSTALLATION SYSTEM**

[54] **SYSTEME D'INSTALLATION DE CONDUCTEUR ELECTRIQUE INTELLIGENT**

[72] BERG, RYAN ARTHUR, US

[72] MACDONALD, DOUGLAS BRUCE, US

[72] FAIRCLOTH, MATTHEW CALEB, US

[72] HOLLIS, HARBY CARTER, US

[71] EMERSON ELECTRIC CO., US

[85] 2020-07-24

[86] 2019-01-28 (PCT/US2019/015350)

[87] (WO2019/148068)

[30] US (62/622,534) 2018-01-26

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[21] **3,089,618**  
[13] A1

[51] **Int.Cl. F16B 47/00 (2006.01) A45D 42/14 (2006.01) A47G 1/17 (2006.01) B25B 11/00 (2006.01)**

[25] EN

[54] **REDUCING PAIN AT A MEDICAL TREATMENT SITE**

[54] **REDUCTION DE LA DOULEUR AU NIVEAU D'UN SITE DE TRAITEMENT MEDICAL**

[72] LORBERBAUM, MARK, US

[72] DICESARE, PAUL, US

[72] LAWSON, RICHARD, US

[72] FERREIRA, DANIAL, US

[71] BING INNOVATIONS, L.L.C., US

[85] 2020-07-24

[86] 2019-01-28 (PCT/US2019/015360)

[87] (WO2019/148073)

[30] US (62/622,367) 2018-01-26

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[21] **3,089,619**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06F 16/26 (2019.01) G06F 3/048 (2013.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DYNAMIC AND CENTRALIZED INTERACTIVE RESOURCE MANAGEMENT**

[54] **SYSTEME ET PROCEDE POUR UNE GESTION DE RESSOURCES INTERACTIVE DYNAMIQUE ET CENTRALISEE**

[72] BOYLESS, NATHANIEL DAVID, US  
[72] KNAPP, DANTE LEE, US  
[71] METCALF ARCHAEOLOGICAL CONSULTANTS, INC., US  
[85] 2020-07-24  
[86] 2019-01-27 (PCT/US2019/015321)  
[87] (WO2019/148060)  
[30] US (62/623,341) 2018-01-29

[21] **3,089,620**  
[13] A1

[51] **Int.Cl. H02J 50/12 (2016.01) H01F 38/14 (2006.01)**

[25] EN

[54] **WIRELESS POWER TRANSFER SYSTEMS WITH INTEGRATED IMPEDANCE MATCHING AND METHODS FOR USING THE SAME**

[54] **SYSTEMES DE TRANSFERT D'ENERGIE SANS FIL A ADAPTATION D'IMPEDANCE INTEGREE ET LEURS PROCEDES D'UTILISATION**

[72] TANG, SAI CHUN, US  
[71] INDIGO TECHNOLOGIES, INC., US  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015352)  
[87] (WO2019/148070)  
[30] US (62/622,288) 2018-01-26

[21] **3,089,623**  
[13] A1

[51] **Int.Cl. C11D 1/37 (2006.01) C11D 1/29 (2006.01) C11D 1/83 (2006.01) C11D 17/06 (2006.01)**

[25] EN

[54] **SOLID CLEANING COMPOSITION**

[54] **COMPOSITION DE NETTOYAGE SOLIDE**

[72] LO, WENDY, US  
[72] OLSON, ERIK C., US  
[72] HANSEN, JON D., US  
[72] MOLINARO, KATHERINE J., US  
[72] DAILEY, JAMES S., US  
[71] ECOLAB USA INC., US  
[71] BASF SE, DE  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015381)  
[87] (WO2019/148082)  
[30] US (62/622,300) 2018-01-26

[21] **3,089,624**  
[13] A1

[51] **Int.Cl. C11D 1/75 (2006.01) C11D 1/83 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01) C11D 1/94 (2006.01) C11D 3/04 (2006.01) C11D 3/10 (2006.01) C11D 3/20 (2006.01) C11D 3/22 (2006.01) C11D 3/32 (2006.01) C11D 3/34 (2006.01) C11D 3/37 (2006.01) C11D 3/38 (2006.01) C11D 11/00 (2006.01) C11D 1/14 (2006.01) C11D 1/22 (2006.01) C11D 1/29 (2006.01)**

[25] EN

[54] **SOLIDIFYING LIQUID AMINE OXIDE, BETAINE, AND/OR SULTAINE SURFACTANTS WITH A BINDER AND OPTIONAL CARRIER**

[54] **SOLIDIFICATION DE TENSIOACTIFS D'OXYDE D'AMINE, DE BETAINE ET/OU DE SULTAINE LIQUIDE A L'AIDE D'UN LIANT ET D'UN EVENTUEL UN VECTEUR**

[72] LO, WENDY, US  
[72] OLSON, ERIK C., US  
[72] HANSEN, JON D., US  
[72] MOLINARO, KATHERINE J., US  
[72] ROSENTHAL, COREY, US  
[71] ECOLAB USA INC., US  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015367)  
[87] (WO2019/148076)  
[30] US (62/622,356) 2018-01-26

[21] **3,089,626**  
[13] A1

[51] **Int.Cl. H04N 5/33 (2006.01) H04N 3/14 (2006.01)**

[25] EN

[54] **MULTISPECTRAL FILTERS**

[54] **FILTRES MULTISPECTRAUX**

[72] TOKUMARU, PHILLIP T., US  
[71] AEROVIRONMENT, INC., US  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015455)  
[87] (WO2019/148122)  
[30] US (62/623,502) 2018-01-29

[21] **3,089,627**  
[13] A1

[51] **Int.Cl. B64C 19/02 (2006.01) B64C 27/26 (2006.01) B64C 29/02 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR ENERGY-EFFICIENT TAKE-OFFS AND LANDINGS FOR VERTICAL TAKE-OFF AND LANDING (VTOL) AERIAL VEHICLES**

[54] **PROCEDES ET SYSTEMES DE DECOLLAGE ET D'ATTERRISSAGE ECOENERGETIQUES POUR VEHICULES AERIENS A DECOLLAGE ET ATTERRISSAGE VERTICAUX (VTOL)**

[72] LINDSEY, QUENTIN, US  
[72] WON, HENRY THOME, US  
[71] AEROVIRONMENT, INC., US  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015392)  
[87] (WO2019/148088)  
[30] US (62/623,532) 2018-01-29

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[21] **3,089,628**  
[13] A1

[51] **Int.Cl. G01C 23/00 (2006.01) B64B 1/02 (2006.01) B64C 3/18 (2006.01) G05D 1/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR DETERMINING FLIGHT PLANS FOR VERTICAL TAKE-OFF AND LANDING (VTOL) AERIAL VEHICLES**

[54] **PROCEDES ET SYSTEMES DE DETERMINATION DE PLANS DE VOL POUR VEHICULES AERIENS A DECOLLAGE ET ATERRISSAGE VERTICAUX (VTOL)**

[72] LINDSEY, QUENTIN, US  
[72] WON, HENRY THOME, US  
[71] AEROVIRONMENT, INC., US  
[85] 2020-07-24  
[86] 2019-01-29 (PCT/US2019/015606)  
[87] (WO2020/018148)  
[30] US (62/623,473) 2018-01-29

[21] **3,089,629**  
[13] A1

[51] **Int.Cl. C11D 1/75 (2006.01) C11D 1/83 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01) C11D 1/94 (2006.01) C11D 3/04 (2006.01) C11D 3/10 (2006.01) C11D 3/20 (2006.01) C11D 11/00 (2006.01) C11D 1/14 (2006.01) C11D 1/22 (2006.01) C11D 1/29 (2006.01)**

[25] EN

[54] **SOLIDIFYING LIQUID AMINE OXIDE, BETAINE, AND/OR SULTAINE SURFACTANTS WITH A CARRIER**

[54] **SOLIDIFICATION DE TENSIOACTIFS LIQUIDES D'OXYDE D'AMINE, DE BETAINE ET/OU DE SULTAINE AYANT UN VEHICULE**

[72] LO, WENDY, US  
[72] OLSON, ERIK C., US  
[72] HANSEN, JON D., US  
[72] MOLINARO, KATHERINE J., US  
[72] ROSENTHAL, COREY, US  
[71] ECOLAB USA INC., US  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015394)  
[87] (WO2019/148090)  
[30] US (62/622,403) 2018-01-26

[21] **3,089,630**  
[13] A1

[51] **Int.Cl. A61K 31/155 (2006.01) A61K 31/4375 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY FOR THE TREATMENT OF MASTOCYTOSIS**

[54] **POLYTHERAPIE POUR LE TRAITEMENT DE LA MASTOCYTOSE**

[72] FLYNN, DANIEL L., US  
[72] SMITH, BRYAN D., US  
[72] GUPTA, ANU, US  
[71] DECIPHERA PHARMACEUTICALS, LLC, US  
[85] 2020-07-24  
[86] 2019-01-31 (PCT/US2019/016161)  
[87] (WO2019/152719)  
[30] US (62/624,453) 2018-01-31

[21] **3,089,631**  
[13] A1

[51] **Int.Cl. C09K 8/20 (2006.01) C09K 8/24 (2006.01) C09K 8/32 (2006.01)**

[25] EN

[54] **ARC HYBRID PARTICLE MIX FOR SEAL AND PLUG QUALITY ENHANCEMENT**

[54] **MELANGE DE PARTICULES HYBRIDE A L'ARC POUR AMELIORATION DE LA QUALITE D'ETANCHEITE ET DE BOUCHON**

[72] AMANULLAH, MD, SA  
[72] ARFAJ, MOHAMMED K., SA  
[72] ALSUBAIE, TURKI, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-07-24  
[86] 2019-02-05 (PCT/US2019/016614)  
[87] (WO2019/156959)  
[30] US (15/889,668) 2018-02-06

[21] **3,089,632**  
[13] A1

[51] **Int.Cl. G10L 19/02 (2013.01) G10L 19/16 (2013.01) H04N 19/00 (2014.01) G10L 19/00 (2013.01)**

[25] EN

[54] **BACKWARD-COMPATIBLE INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES FOR AUDIO SIGNALS**

[54] **INTEGRATION RETROCOMPATIBLE DE TECHNIQUES DE RECONSTRUCTION HAUTE FREQUENCE POUR SIGNAUX AUDIO**

[72] KJOERLING, KRISTOFER, SE  
[72] VILLEMOES, LARS, SE  
[72] PURNHAGEN, HEIKO, SE  
[72] EKSTRAND, PER, SE  
[71] DOLBY INTERNATIONAL AB, NL  
[85] 2020-07-24  
[86] 2019-01-28 (PCT/US2019/015442)  
[87] (WO2019/148112)  
[30] US (62/622,205) 2018-01-26

[21] **3,089,635**  
[13] A1

[51] **Int.Cl. H01M 10/6557 (2014.01) H01M 10/613 (2014.01) H01M 10/647 (2014.01) H01M 10/653 (2014.01) H01M 10/6555 (2014.01)**

[25] EN

[54] **ENERGY STORAGE SYSTEM**

[54] **SYSTEME DE STOCKAGE D'ENERGIE**

[72] BORSHEIM, EIRIK, NO  
[72] BERGE, TORE, NO  
[72] SKJETNE, ARVE, NO  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 2020-06-09  
[86] 2019-01-14 (PCT/EP2019/050740)  
[87] (WO2019/141609)  
[30] GB (1800758.3) 2018-01-17

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[21] **3,089,636**  
[13] A1

[51] **Int.Cl. H02J 50/90 (2016.01) H02J 50/10 (2016.01) H02J 7/00 (2006.01) H02J 7/02 (2016.01)**

[25] EN

[54] **CHARGING APPARATUS WITH LOCATOR**

[54] **APPAREIL DE CHARGE A LOCALISATEUR**

[72] BOBER, WIESLAW, US

[72] SIENKIEL, KAMIL, PL

[72] SIENKIEL, DOMINIK STANISLAW, PL

[71] ICS INNOVATION LLC, US

[85] 2020-07-24

[86] 2019-01-28 (PCT/US2019/015451)

[87] (WO2019/148118)

[30] US (62/622,592) 2018-01-26

[30] US (62/645,591) 2018-03-20

[30] US (16/186,045) 2018-11-09

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[21] **3,089,637**  
[13] A1

[51] **Int.Cl. H01P 1/06 (2006.01) H01P 1/17 (2006.01) H01P 5/02 (2006.01)**

[25] EN

[54] **FEED POLARIZER STEP TWIST SWITCH**

[54] **COMMUTATEUR A TORSION PAR PAS DE POLARISEUR D'ALIMENTATION**

[72] HAUFF, JOHN W., US

[71] RAYTHEON COMPANY, US

[85] 2020-07-24

[86] 2019-01-29 (PCT/US2019/015501)

[87] (WO2019/173010)

[30] US (15/915,377) 2018-03-08

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[21] **3,089,638**  
[13] A1

[51] **Int.Cl. G05D 1/08 (2006.01) B64C 29/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR UTILIZING DUAL GLOBAL POSITIONING SYSTEM (GPS) ANTENNAS IN VERTICAL TAKE-OFF AND LANDING (VTOL) AERIAL VEHICLES**

[54] **PROCEDES ET SYSTEMES D'UTILISATION D'ANTENNES DU SYSTEME MONDIAL DE LOCALISATION (GPS) DANS DES VEHICULES AERIENS A DECOLLAGE ET ATTERRISSAGE VERTICAUX (VTOL)**

[72] LOTT, WILIAM ARDEN, US

[71] AEROVIRONMENT, INC., US

[85] 2020-07-24

[86] 2019-01-29 (PCT/US2019/015642)

[87] (WO2019/148183)

[30] US (62/623,490) 2018-01-29

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[21] **3,089,639**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PRC2 INHIBITORS**

[54] **INHIBITEURS DE PRC2**

[72] MARX, MATTHEW ARNOLD, US

[72] LEE, MATTHEW RANDOLPH, US

[72] BOBINSKI, THOMAS P., US

[72] BURNS, AARON CRAIG, US

[72] ARORA, NIDHI, US

[72] CHRISTENSEN, JAMES GAIL, US

[72] KETCHAM, JOHN MICHAEL, US

[71] MIRATI THERAPEUTICS, INC., US

[85] 2020-07-24

[86] 2019-01-29 (PCT/US2019/015677)

[87] (WO2019/152419)

[30] US (62/624,176) 2018-01-31

[30] US (62/672,701) 2018-05-17

[30] US (62/747,736) 2018-10-19

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[21] **3,089,640**  
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01) G06Q 10/10 (2012.01) G06Q 20/10 (2012.01) G06Q 20/14 (2012.01) G06Q 20/22 (2012.01) G06Q 20/24 (2012.01) G06Q 30/04 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM TO DYNAMICALLY ROUTE FUNDING TO VIRTUAL PAYMENT CARDS TO RESELL SUBSCRIPTION MERCHANDISE**

[54] **ROUTAGE DYNAMIQUE DE FINANCEMENT VERS DES CARTES DE PAIEMENT VIRTUELLES POUR REVENDRE DES MARCHANDISES D'ABONNEMENT**

[72] SHAH, SUNIR, CA

[72] DENNIS, JOSEPH K., US

[71] APPBIND INC., US

[85] 2020-07-24

[86] 2019-02-01 (PCT/US2019/016262)

[87] (WO2019/152785)

[30] US (62/625,934) 2018-02-02

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[21] **3,089,641**  
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **ANAL AND PERIANAL THERAPEUTIC SUBSTANCE DELIVERY DEVICE**

[54] **DISPOSITIF D'ADMINISTRATION ANALE ET PERIANALE DE SUBSTANCE THERAPEUTIQUE**

[72] LLANEZA, PEDRO P., US

[72] SOLAR, MATTHEW S., US

[71] LK INNOVATIONS, LLC, US

[85] 2020-07-24

[86] 2019-02-06 (PCT/US2019/016795)

[87] (WO2019/157022)

[30] US (62/628,589) 2018-02-09

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[21] **3,089,642**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DECISION SUPPORT**  
[54] **SYSTEME ET PROCEDE D'AIDE DE PRISE DE DECISION**  
[72] CONSTANTIN, ALEXANDRA ELENA, US  
[72] BELLIVEAU, SCOTT M., US  
[72] BHAVARAJU, NARESH C., US  
[72] BLACKWELL, JENNIFER, US  
[72] COHEN, ERIC, US  
[72] DATTARAY, BASAB, US  
[72] DAVIS, ANNA LEIGH, US  
[72] DRAEGER, RIAN, US  
[72] GARCIA, ARTURO, US  
[72] GRAY, JOHN MICHAEL, US  
[72] HAMPAPURAM, HARI, US  
[72] HEINTZMAN, NATHANIEL DAVID, US  
[72] JEPSON, LAUREN HRUBY, US  
[72] JOHNSON, MATTHEW LAWRENCE, US  
[72] KAMATH, APURV ULLAS, US  
[72] KOEHLER, KATHERINE YERRE, US  
[72] MAYOU, PHIL, US  
[72] MCBRIDE, PATRICK WILE, US  
[72] MENSINGER, MICHAEL ROBERT, US  
[72] MIKAMI, SUMITAKA, US  
[72] PAL, ANDREW ATTILA, US  
[72] POLYTARIDIS, NICHOLAS, US  
[72] PUPA, PHILIP THOMAS, US  
[72] REIHMAN, ELI, US  
[72] SIMPSON, PETER C., US  
[72] WALKER, TOMAS C., US  
[72] WEIDEBACK, DANIEL JUSTIN, US  
[72] PAI, SUBRAI GIRISH, US  
[72] VOGEL, MATTHEW T., US  
[71] DEXCOM, INC., US  
[85] 2020-07-24  
[86] 2019-02-06 (PCT/US2019/016922)  
[87] (WO2019/157102)  
[30] US (62/628,895) 2018-02-09

[21] **3,089,643**  
[13] A1

[51] **Int.Cl. E02F 3/40 (2006.01) B66C 23/00 (2006.01) E01H 5/06 (2006.01) E02F 3/00 (2006.01) E02F 3/815 (2006.01) E02F 9/24 (2006.01)**  
[25] EN  
[54] **BACK GUARD ATTACHABLE TO A BUCKET, METHOD OF FORMING THE BACK GUARD, AND BUCKET ASSEMBLY INCLUDING THE BACK GUARD PROTECTION ARRIERE**  
[54] **POUVANT ETRE ATTACHEE A UN GODET, PROCEDE DE PROTECTION ARRIERE ET ENSEMBLE A GODET COMPRENANT LA PROTECTION ARRIERE**  
[72] HENNING, RYAN G., US  
[72] HENNING, ROBERT K., US  
[71] R2 MANUFACTURING LLC, US  
[85] 2020-07-24  
[86] 2019-02-08 (PCT/US2019/017278)  
[87] (WO2019/160761)  
[30] US (15/896,017) 2018-02-13

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[21] **3,089,644**  
[13] A1

[51] **Int.Cl. G06F 21/16 (2013.01) H04N 1/32 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR EMBEDDING DATA IN REMOTE SESSION DISPLAYS**  
[54] **SYSTEMES ET PROCEDES D'INCORPORATION DES DONNEES DANS DES AFFICHAGES DE SESSION A DISTANCE**  
[72] CHEN, HAO, CN  
[71] CITRIX SYSTEMS, INC., US  
[85] 2020-07-24  
[86] 2019-02-13 (PCT/US2019/017801)  
[87] (WO2019/173029)  
[30] US (15/917,276) 2018-03-09

[21] **3,089,645**  
[13] A1

[51] **Int.Cl. A61B 3/10 (2006.01) G02B 27/10 (2006.01) G06K 9/62 (2006.01) G09G 5/377 (2006.01)**  
[25] EN  
[54] **HEAD SCAN ALIGNMENT USING OCULAR REGISTRATION**  
[54] **ALIGNEMENT DE BALAYAGE DE TETE A L'AIDE D'UN ENREGISTREMENT OCULAIRE**  
[72] WEDIG, GEOFFREY, US  
[71] MAGIC LEAP, INC., US  
[85] 2020-07-24  
[86] 2019-02-20 (PCT/US2019/018815)  
[87] (WO2019/168723)  
[30] US (62/636,695) 2018-02-28

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[21] **3,089,646**  
[13] A1

[51] **Int.Cl. G06F 3/0481 (2013.01) G06F 3/0484 (2013.01) G06F 16/95 (2019.01)**  
[25] EN  
[54] **BROWSER FOR MIXED REALITY SYSTEMS**  
[54] **NAVIGATEUR POUR SYSTEMES DE REALITE MIXTE**  
[72] ZURMOEHLE, TIM, US  
[72] MONTOYA, ANDREA ISABEL, US  
[72] MACDONALD, ROBERT JOHN CUMMINGS, US  
[72] GROTH, SAKINA, US  
[72] MAK, GENEVIEVE, US  
[71] MAGIC LEAP, INC., US  
[85] 2020-07-24  
[86] 2019-02-21 (PCT/US2019/018932)  
[87] (WO2019/165055)  
[30] US (62/634,016) 2018-02-22

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[21] **3,089,648**  
[13] A1

[51] **Int.Cl. H02H 7/26 (2006.01) H02J 13/00 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM PROVIDING FEEDER FAULT RESPONSE**  
[54] **PROCEDE ET SYSTEME DE FOURNITURE DE REPONSE A UNE DEFAILLANCE D'ALIMENTATION**  
[72] SHARON, YOAV, US  
[71] S&C ELECTRIC COMPANY, US  
[85] 2020-07-24  
[86] 2019-03-05 (PCT/US2019/020632)  
[87] (WO2019/153018)  
[30] US (16/217,490) 2018-12-12



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[21] **3,089,649**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **ANTI-TIP-1 ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-TIP-1 ET UTILISATIONS ASSOCIEES**

[72] WANG, MINGHAN, US

[72] ZOU, HUI, US

[72] OAKS, JOSHUA, US

[71] PHANES THERAPEUTICS, INC., US

[85] 2020-07-24

[86] 2019-03-06 (PCT/US2019/020867)

[87] (WO2019/173417)

[30] US (62/640,123) 2018-03-08

[21] **3,089,650**  
[13] A1

[51] **Int.Cl. H01L 31/04 (2014.01)**

[25] EN

[54] **POWER-GENERATING BUILDING MATERIAL AND PREPARATION METHOD THEREFOR**

[54] **MATERIAU DE CONSTRUCTION GENERATEUR D'ENERGIE ET SON PROCEDE DE PREPARATION**

[72] ZHANG, WEI, CN

[72] LI, YONGWU, CN

[71] PHOTON TECHNOLOGY (KUNSHAN) CO., LTD, CN

[85] 2020-07-23

[86] 2019-01-31 (PCT/CN2019/074214)

[87] (WO2019/154277)

[30] CN (201810128516.2) 2018-02-08

[21] **3,089,652**  
[13] A1

[51] **Int.Cl. D06C 11/00 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING RAISED SHEET AND CLEANING SHEET**

[54] **PROCEDE DE FABRICATION DE LINGETTE GRATTEE, ET LINGETTE NETTOYANTE**

[72] YAMADA, KIKUO, JP

[71] YAMADA, KIKUO, JP

[85] 2020-07-30

[86] 2019-01-29 (PCT/JP2019/002964)

[87] (WO2019/151247)

[30] US (62/623,739) 2018-01-30

[21] **3,089,653**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **ANTI-CLAUDIN 18.2 ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-CLAUDINE 18.2 ET LEURS UTILISATIONS**

[72] WANG, MINGHAN, US

[72] ZOU, HUI, US

[72] JIA, HAIQUN, US

[71] PHANES THERAPEUTICS, INC., US

[85] 2020-07-24

[86] 2019-03-06 (PCT/US2019/020872)

[87] (WO2019/173420)

[30] US (62/640,288) 2018-03-08

[30] US (62/714,254) 2018-08-03

[21] **3,089,654**  
[13] A1

[51] **Int.Cl. F16K 15/14 (2006.01) F16K 11/02 (2006.01) F16K 11/044 (2006.01)**

[25] EN

[54] **FLOW PATH SWITCHING VALVE**

[54] **VANNE D'INVERSION DE TRAJET D'ECOULEMENT**

[72] MOSER, PASCAL, CH

[71] OETIKER SCHWEIZ AG, CH

[85] 2020-07-27

[86] 2018-02-14 (PCT/EP2018/053723)

[87] (WO2019/158198)

[21] **3,089,655**  
[13] A1

[51] **Int.Cl. C07K 16/22 (2006.01) C07K 16/24 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **MICROCHIP CAPILLARY ELECTROPHORESIS ASSAYS AND REAGENTS**

[54] **DOSAGES ET REACTIFS D'ELECTROPHORESE CAPILLAIRE SUR MICROPUCE**

[72] RIEHLMAN, TIMOTHY, US

[72] CARREAU, GABRIEL, US

[72] SCHNEIDERHEINZE, JEFFREY, US

[72] NALL, NICOLE M., US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2020-07-24

[86] 2019-03-15 (PCT/US2019/022525)

[87] (WO2019/182901)

[30] US (62/644,933) 2018-03-19

[21] **3,089,656**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 9/26 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **ORAL FORMULATIONS AND USES THEREOF**

[54] **FORMULATIONS ORALES ET UTILISATIONS DE CELLES-CI**

[72] VANKAN, PIERRE, AU

[72] SASARMAN, ANDREEA, AU

[72] WILLMBRINK, GRASIELA BOURSCHEIT, AU

[71] EUSTRALIS PHARMACEUTICALS LIMITED (TRADING AS PRESSURA NEURO), AU

[85] 2020-07-27

[86] 2019-02-01 (PCT/AU2019/050076)

[87] (WO2019/148247)

[30] AU (2018900324) 2018-02-02

[21] **3,089,657**  
[13] A1

[51] **Int.Cl. C07K 14/64 (2006.01) A61K 38/00 (2006.01)**

[25] EN

[54] **MODIFIED LIPIDATED RELAXIN B CHAIN PEPTIDES AND THEIR THERAPEUTIC USE**

[54] **PEPTIDES A CHAINE B DE RELAXINE LIPIDES MODIFIES ET LEUR UTILISATION THERAPEUTIQUE**

[72] DUCLOS, OLIVIER, FR

[72] ILLIANO, STEPHANE, FR

[72] MALLART, SERGIO, FR

[72] MINOLETTI-HOCHEPIED, CLAIRE, FR

[72] BIANCHI, ELISABETTA, IT

[72] INGENITO, RAFFAELE, IT

[72] MAGOTTI, PAOLA, DK

[72] SANTOPRETE, ALESSIA, IT

[71] SANOFI, FR

[85] 2020-07-27

[86] 2019-01-30 (PCT/EP2019/052298)

[87] (WO2019/149782)

[30] EP (18305094.7) 2018-01-31

## PCT Applications Entering the National Phase

[21] **3,089,658**  
[13] A1

[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/78 (2006.01) B01D 53/80 (2006.01) C01F 5/24 (2006.01)**

[25] EN

[54] **INTEGRATED PROCESS FOR MINERAL CARBONATION**

[54] **PROCESSUS INTEGRE DE CARBONATATION MINERALE**

[72] BENHELAL, EMAD, AU

[72] BRENT, GEOFFREY FREDERICK, AU

[72] KENNEDY, ERIC MILES, AU

[72] RAYSON, MARK STUART, AU

[72] STOCKENHUBER, MICHAEL, AU

[71] MINERAL CARBONATION INTERNATIONAL PTY LTD, AU

[85] 2020-07-27

[86] 2019-02-08 (PCT/AU2019/050098)

[87] (WO2019/153047)

[30] AU (2018900382) 2018-02-08

[21] **3,089,659**  
[13] A1

[51] **Int.Cl. A47G 29/30 (2006.01) H04W 4/80 (2018.01) A47G 29/124 (2006.01) A47G 29/20 (2006.01) E05B 65/52 (2006.01) E05B 73/00 (2006.01) G06F 17/00 (2019.01)**

[25] EN

[54] **ITEM DEPOSITORY OPERATED RESPONSIVE TO DATA BEARING RECORDS**

[54] **RECEPTACLE DE DEPOT D'ARTICLES FONCTIONNANT EN REPOSE A DES ENREGISTREMENTS COMPORTANT DES DONNEES**

[72] ESTILL, JIM, CA

[71] DANBY PRODUCTS LIMITED, CA

[85] 2020-07-24

[86] 2019-01-26 (PCT/IB2019/050644)

[87] (WO2019/145914)

[30] US (62/622,193) 2018-01-26

[30] US (62/677,383) 2018-05-29

[30] US (62/784,967) 2018-12-26

[21] **3,089,660**  
[13] A1

[51] **Int.Cl. H02M 1/16 (2006.01) H02M 3/24 (2006.01) H02M 7/04 (2006.01)**

[25] EN

[54] **RESONANT POWER CONVERTERS AND CONTROL METHODS FOR WIDE INPUT AND OUTPUT VOLTAGE RANGES**

[54] **CONVERTISSEURS DE PUISSANCE RESONANTS ET PROCEDES DE COMMANDE POUR LARGES PLAGES DE TENSION D'ENTREE ET DE SORTIE**

[72] LIU, YAN-FEI, CA

[72] CHEN, YANG, CA

[71] QUEEN'S UNIVERSITY AT KINGSTON, CA

[85] 2020-07-27

[86] 2019-01-28 (PCT/CA2019/050100)

[87] (WO2019/144241)

[30] US (62/623,020) 2018-01-29

[30] US (62/627,976) 2018-02-08

[21] **3,089,661**  
[13] A1

[51] **Int.Cl. A01K 31/22 (2006.01) A01K 29/00 (2006.01) A01K 31/18 (2006.01) A01K 31/19 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR RAISING JUVENILE FARM ANIMALS**

[54] **PROCEDE ET DISPOSITIF D'ELEVAGE DE JEUNES ANIMAUX DE FERME**

[72] LAST, SARAH, AU

[71] MIMICTEC PTY LTD, AU

[85] 2020-07-27

[86] 2018-11-30 (PCT/AU2018/051288)

[87] (WO2019/148232)

[30] AU (2018900295) 2018-01-31

[21] **3,089,662**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 9/08 (2006.01) A61K 47/00 (2006.01) A61P 7/10 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **PARENTERAL FORMULATIONS AND USES THEREOF**

[54] **FORMULATIONS PARENTERALES ET LEURS UTILISATIONS**

[72] VANKAN, PIERRE, AU

[72] SASARMAN, ANDREEA, AU

[72] WILLMBRINK, GRASIELA BOURSCHHEIT, AU

[71] EUSTRALIS PHARMACEUTICALS LIMITED (TRADING AS PRESSURA NEURO), AU

[85] 2020-07-27

[86] 2019-02-01 (PCT/AU2019/050075)

[87] (WO2019/148246)

[30] AU (2018900325) 2018-02-02

[21] **3,089,663**  
[13] A1

[51] **Int.Cl. B25F 5/00 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **POWER TOOL COOPERATION CONTROL/FEEDBACK/SENSOR SYSTEM**

[54] **SYSTEME DE COMMANDE/RETROACTION/CA PTEURS POUR COOPERATION D'OUTILS MOTORISES**

[72] CHEUNG, NGAI, CN

[72] XU, DIANWU, CN

[71] TECHTRONIC CORDLESS GP, US

[85] 2020-07-27

[86] 2018-01-26 (PCT/CN2018/074349)

[87] (WO2019/144383)

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[21] **3,089,664**  
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**  
[25] EN  
[54] **BEVERAGE PREPARATION MACHINE WITH CAPSULE RECOGNITION**  
[54] **MACHINE DE PREPARATION DE BOISSONS AYANT UNE CAPACITE DE RECONNAISSANCE DE CAPSULE**  
[72] RUGGIERO, MARTINO, CH  
[72] BALASI, SZABOLCS, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2020-07-27  
[86] 2018-06-15 (PCT/EP2018/065939)  
[87] (WO2019/154527)  
[30] EP (18156197.8) 2018-02-09

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[21] **3,089,665**  
[13] A1

[51] **Int.Cl. B66C 1/36 (2006.01)**  
[25] FR  
[54] **LOAD-BEARING DEVICE FOR A LIFTING APPARATUS**  
[54] **DISPOSITIF D'ACCROCHAGE DE CHARGES POUR APPAREIL DE LEVAGE**  
[72] AUTISSIER, CHRISTOPHE, FR  
[72] MEYNIEL, GUILLAUME, FR  
[72] SCHMIDT, YOANN, FR  
[71] LACE, FR  
[85] 2020-07-27  
[86] 2019-02-13 (PCT/EP2019/053494)  
[87] (WO2019/158555)  
[30] FR (1851213) 2018-02-14

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[21] **3,089,666**  
[13] A1

[51] **Int.Cl. A61K 31/4355 (2006.01) A61K 31/4436 (2006.01) C07D 409/12 (2006.01) C07D 491/048 (2006.01) A61P 3/00 (2006.01)**  
[25] EN  
[54] **GHRELIN O-ACYLTRANSFERASE INHIBITORS**  
[54] **INHIBITEURS DE LA GHRELIN O-ACYLTRANSFERASE**  
[72] BANDYOPADHYAY, ANISH, IN  
[72] CHEUNG, MUL, US  
[72] EIDAM, HILARY SCHENCK, GB  
[72] JOSHI, HEMANT, IN  
[72] SU, DAI-SHI, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB  
[85] 2020-07-27  
[86] 2019-02-05 (PCT/EP2019/052770)  
[87] (WO2019/149959)  
[30] IN (201811004277) 2018-02-05

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[21] **3,089,667**  
[13] A1

[51] **Int.Cl. C12N 5/0784 (2010.01) C12N 5/0783 (2010.01) A61K 39/12 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **GENERATION OF HPV-SPECIFIC T-CELLS**  
[54] **GENERATION DE CELLULES T SPECIFIQUES DU VPH**  
[72] RAMOS, CARLOS A., US  
[72] ROONEY, CLIONA M., US  
[72] SHARMA, SANDHYA, US  
[72] SHIN, BENJAMIN HYUN JOON, US  
[72] SALYER, ALEX, US  
[71] BAYLOR COLLEGE OF MEDICINE, US  
[85] 2020-07-27  
[86] 2019-01-31 (PCT/EP2019/052328)  
[87] (WO2019/149801)  
[30] US (15/885,197) 2018-01-31

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[21] **3,089,668**  
[13] A1

[51] **Int.Cl. B66C 1/36 (2006.01) B64D 1/22 (2006.01)**  
[25] FR  
[54] **LOCKING CAM FOR A LOAD HOOK, AND ATTACHMENT DEVICE COMPRISING SUCH A CAM**  
[54] **CAME DE BLOCAGE D'UN CROCHET DE CHARGE ET DISPOSITIF D'ACCROCHAGE COMPORTANT UNE TELLE CAME**  
[72] AUTISSIER, CHRISTOPHE, FR  
[72] MEYNIEL, GUILLAUME, FR  
[72] SCHMIDT, YOANN, FR  
[71] LACE, FR  
[85] 2020-07-27  
[86] 2019-02-13 (PCT/EP2019/053496)  
[87] (WO2019/158557)  
[30] FR (1851214) 2018-02-14

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[21] **3,089,669**  
[13] A1

[51] **Int.Cl. H02B 13/00 (2006.01) H02B 13/035 (2006.01)**  
[25] EN  
[54] **MODULAR GAS INSULATED SWITCHGEAR SYSTEMS AND RELATED CABLING MODULES**  
[54] **SYSTEMES DE COMMUTATION A ISOLATION GAZEUSE MODULAIRES ET MODULES DE CABLAGE ASSOCIES**  
[72] CULHANE, MICHAEL PATRICK, US  
[72] BINNENDIJK, MARTEN, NL  
[72] AHO, DAVID ALLAN, US  
[72] HENRY, BRENT DAVID, US  
[72] WOOLARD, DAVID GLENN, US  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2020-07-27  
[86] 2019-01-30 (PCT/EP2019/025029)  
[87] (WO2019/149451)  
[30] US (62/623,716) 2018-01-30  
[30] US (15/917,986) 2018-03-12

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[21] **3,089,671**  
[13] A1

[51] **Int.Cl. C01B 13/11 (2006.01) H01T 23/00 (2006.01)**  
[25] EN  
[54] **OZONE GENERATOR WITH HEAT PIPE COOLING**  
[54] **GENERATEUR D'OZONE A REFROIDISSEMENT PAR CALODUC**  
[72] FIEKENS, RALF, DE  
[72] FIETZEK, REINER, DE  
[72] SALVERMOSER, MANFRED, DE  
[72] BRUGGEMANN, NICOLE, DE  
[71] XYLEM EUROPE GMBH, CH  
[85] 2020-07-27  
[86] 2019-01-25 (PCT/EP2019/051861)  
[87] (WO2019/145478)  
[30] EP (18153888.5) 2018-01-29

[21] **3,089,672**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01)**  
[25] FR  
[54] **DEVICE FOR ASSISTING IN THE USE OF A DEVICE FOR DISPENSING LIQUID PRODUCT IN THE FORM OF DROPS**  
[54] **DISPOSITIF D'ASSISTANCE A L'UTILISATION D'UN DISPOSITIF DE DISTRIBUTION DE PRODUIT LIQUIDE SOUS FORME DE GOUTTES**  
[72] THIERRY, DECOCK, FR  
[71] NEMERA LA VERPILLIERE, FR  
[85] 2020-07-27  
[86] 2019-02-05 (PCT/EP2019/052776)  
[87] (WO2019/154806)  
[30] FR (1850984) 2018-02-06

[21] **3,089,673**  
[13] A1

[51] **Int.Cl. A61K 35/612 (2015.01) A23K 10/22 (2016.01) A23L 33/10 (2016.01) A61K 35/60 (2006.01) A61K 38/01 (2006.01)**  
[25] EN  
[54] **MARINE PROTEIN HYDROLYSATE WITH LOW FLUORIDE AND TRIMETHYLAMIN CONTENT**  
[54] **HYDROLYSAT PROTEIQUE MARIN A FAIBLE TENEUR EN FLUORURE ET TRIMETHYLAMINE**  
[72] ELLEGARD, KATRINE HVID, NO  
[72] BAGGER, CHRISTIAN LORENTZ, NO  
[72] MYHREN, FINN, NO  
[72] WIKLUND, ERIK DIGMAN, NO  
[71] AKER BIOMARINE ANTARCTIC AS, NO  
[85] 2020-07-27  
[86] 2019-01-30 (PCT/IB2019/000118)  
[87] (WO2019/150197)  
[30] US (62/623,658) 2018-01-30

[21] **3,089,674**  
[13] A1

[51] **Int.Cl. C08K 5/3435 (2006.01) B32B 25/14 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) C08K 5/5425 (2006.01) H01L 31/042 (2014.01)**  
[25] EN  
[54] **A POLYMER COMPOSITION FOR APPLICATIONS COMPRISING A LAYER ELEMENT**  
[54] **COMPOSITION DE POLYMERE POUR DES APPLICATIONS COMPRENANT UN ELEMENT DE COUCHE**  
[72] HELLSTROM, STEFAN, SE  
[72] BERGQVIST, MATTIAS, SE  
[71] BOREALIS AG, AT  
[85] 2020-07-27  
[86] 2019-02-12 (PCT/EP2019/053419)  
[87] (WO2019/158520)  
[30] EP (18156880.9) 2018-02-15

[21] **3,089,675**  
[13] A1

[51] **Int.Cl. C01B 13/11 (2006.01) H01T 23/00 (2006.01)**  
[25] EN  
[54] **COMPACT OZONE GENERATOR WITH MULTI-GAP ELECTRODE ASSEMBLY**  
[54] **GENERATEUR COMPACT D'OZONE AYANT UN ENSEMBLE ELECTRODE A MULTIPLES ESPACES**  
[72] BRUGGEMANN, NICOLE, DE  
[72] FIEKENS, RALF, DE  
[72] FIETZEK, REINER, DE  
[72] SALVERMOSER, MANFRED, DE  
[71] XYLEM EUROPE GMBH, CH  
[85] 2020-07-27  
[86] 2019-01-25 (PCT/EP2019/051864)  
[87] (WO2019/145479)  
[30] EP (18153893.5) 2018-01-29

[21] **3,089,676**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61M 11/00 (2006.01) A61M 15/00 (2006.01)**  
[25] FR  
[54] **DEVICE FOR ASSISTING WITH THE USE OF A DEVICE FOR DISPENSING A LIQUID PRODUCT**  
[54] **DISPOSITIF D'ASSISTANCE A L'UTILISATION D'UN DISPOSITIF DE DISTRIBUTION DE PRODUIT LIQUIDE**  
[72] THIERRY, DECOCK, FR  
[72] CASSAGNE, LOICK, FR  
[72] PINTUS, PIERRE, FR  
[71] NEMERA LA VERPILLIERE, FR  
[85] 2020-07-27  
[86] 2019-02-05 (PCT/EP2019/052777)  
[87] (WO2019/154807)  
[30] FR (1850987) 2018-02-06

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[21] **3,089,677**  
[13] A1

[51] **Int.Cl. A61L 2/14 (2006.01)**  
[25] EN  
[54] **STERILIZATION APPARATUS**  
[54] **APPAREIL DE STERILISATION**  
[72] HANCOCK, CHRISTOPHER PAUL, GB  
[72] BRYANT, MORGAN, GB  
[72] TURNER, LOUIS, GB  
[72] SWAIN, SANDRA, GB  
[72] EBBUTT, JULIAN MARK, GB  
[72] BISHOP, JOHN, GB  
[72] CRAVEN, RICHARD, GB  
[71] CREO MEDICAL LIMITED, GB  
[85] 2020-07-27  
[86] 2019-03-08 (PCT/EP2019/055911)  
[87] (WO2019/175063)  
[30] GB (1804265.5) 2018-03-16

[21] **3,089,678**  
[13] A1

[51] **Int.Cl. C07D 405/04 (2006.01) A61K 31/437 (2006.01) A61P 1/16 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **PROTEIN KINASE MKK4 INHIBITORS FOR PROMOTING LIVER REGENERATION OR REDUCING OR PREVENTING HEPATOCYTE DEATH**  
[54] **INHIBITEURS DE PROTEINE KINASE MKK4 POUR FAVORISER LA REGENERATION HEPATIQUE OU POUR REDUIRE OU PREVENIR LA MORT DES HEPATOCYTES**  
[72] PRAEFKE, BENT, DE  
[72] KLOVEKORN, PHILIP, DE  
[72] SELIG, ROLAND, DE  
[72] ALBRECHT, WOLFGANG, DE  
[72] LAUFER, STEFAN, DE  
[71] HEPAREGENIX GMBH, DK  
[85] 2020-07-27  
[86] 2019-01-30 (PCT/EP2019/052213)  
[87] (WO2019/149738)  
[30] EP (18154454.5) 2018-01-31  
[30] EP (18183692.5) 2018-07-16

[21] **3,089,679**  
[13] A1

[51] **Int.Cl. C09C 1/48 (2006.01) C01B 32/158 (2017.01) C01B 32/182 (2017.01) C01B 32/194 (2017.01) C01B 32/198 (2017.01) B05D 7/00 (2006.01) B05D 7/14 (2006.01) C08K 3/04 (2006.01) C09D 5/08 (2006.01) C23C 28/04 (2006.01)**  
[25] EN  
[54] **CORROSION PROTECTION FOR METALLIC SUBSTRATES**  
[54] **PROTECTION CONTRE LA CORROSION DESTINEE A DES SUBSTRATS METALLIQUES**  
[72] WEAVER, WILLIAM, GB  
[72] SHARP, MATTHEW DAVID, GB  
[72] JOHNSON, GAVEN, GB  
[71] APPLIED GRAPHENE MATERIALS UK LIMITED, GB  
[85] 2020-07-27  
[86] 2019-02-06 (PCT/GB2019/050316)  
[87] (WO2019/155201)  
[30] GB (1801931.5) 2018-02-06

[21] **3,089,680**  
[13] A1

[51] **Int.Cl. A63C 5/03 (2006.01) A63C 5/06 (2006.01) A63C 5/16 (2006.01) B62B 13/04 (2006.01)**  
[25] FR  
[54] **DEVICE FOR STEERING A PAIR OF SKIS OR A BOARD**  
[54] **DISPOSITIF DE PILOTAGE D'UNE PAIRE DE SKIS OU D'UNE PLANCHE DE SURF**  
[72] BALLU, ARNAUD, FR  
[71] BALLU, ARNAUD, FR  
[85] 2020-07-27  
[86] 2019-03-09 (PCT/EP2019/055936)  
[87] (WO2019/175067)  
[30] FR (18/70265) 2018-03-11

[21] **3,089,681**  
[13] A1

[51] **Int.Cl. A61B 34/37 (2016.01)**  
[25] EN  
[54] **SURGICAL ROBOT SYSTEMS COMPRISING ROBOTIC TELEMANIPULATORS AND INTEGRATED LAPAROSCOPY**  
[54] **SYSTEMES ROBOTIQUES CHIRURGICAUX COMPORTANT DES TELEMANIPULATEURS ROBOTISES ET UNE LAPAROSCOPIE INTEGREE**  
[72] CHASSOT, JULIEN, CH  
[72] FRIEDRICH, MICHAEL, CH  
[71] DISTALMOTION SA, CH  
[85] 2020-07-27  
[86] 2019-02-06 (PCT/IB2019/050961)  
[87] (WO2019/155383)  
[30] US (62/627,554) 2018-02-07  
[30] US (62/788,781) 2019-01-05

[21] **3,089,682**  
[13] A1

[51] **Int.Cl. C12N 15/81 (2006.01) C07K 14/39 (2006.01)**  
[25] EN  
[54] **HOST CELL FOR PRODUCING A PROTEIN OF INTEREST**  
[54] **CELLULE HOTE POUR PRODUIRE UNE PROTEINE D'INTERET**  
[72] CLAES, KATRIEN, CH  
[72] GRAHAM, JAMES, GB  
[72] JOZWIAK, SYLWIA, GB  
[72] KIZIAK, CHRISTOPH, CH  
[71] LONZA LTD, CH  
[85] 2020-07-27  
[86] 2019-01-30 (PCT/EP2019/052218)  
[87] (WO2019/154686)  
[30] EP (18156329.7) 2018-02-12

[21] **3,089,683**  
[13] A1

[51] **Int.Cl. C08J 3/05 (2006.01)**  
[25] EN  
[54] **AQUEOUS POLYOLEFIN DISPERSION**  
[54] **DISPERSION AQUEUSE DE POLYOLEFINE**  
[72] MAIER, ANNA, DE  
[72] REICHENBACH, ANITA, DE  
[71] ACTEGA DS GMBH, DE  
[85] 2020-07-27  
[86] 2019-03-21 (PCT/EP2019/057048)  
[87] (WO2019/180118)  
[30] EP (18163354.6) 2018-03-22

## PCT Applications Entering the National Phase

[21] **3,089,684**  
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61M 11/00 (2006.01) A61M 15/08 (2006.01)**

[25] FR

[54] **DEVICE FOR ASSISTING IN THE USE OF AN AXIALLY ACTIVATED DISPENSING DEVICE**

[54] **DISPOSITIF D'ASSISTANCE A L'UTILISATION D'UN DISPOSITIF DE DISTRIBUTION A ACTIVATION AXIALE**

[72] THIERRY, DECOCK, FR

[72] CASSAGNE, LOICK, FR

[72] PINTUS, PIERRE, FR

[71] NEMERA LA VERPILLIERE, FR

[85] 2020-07-27

[86] 2019-02-05 (PCT/EP2019/052778)

[87] (WO2019/154808)

[30] FR (18/50991) 2018-02-06

[21] **3,089,685**  
[13] A1

[51] **Int.Cl. C09C 1/48 (2006.01) C01B 32/158 (2017.01) C01B 32/182 (2017.01) C01B 32/198 (2017.01) B05D 7/00 (2006.01) B05D 7/14 (2006.01) C08K 3/04 (2006.01) C09D 5/08 (2006.01) C23C 28/04 (2006.01)**

[25] EN

[54] **CORROSION PROTECTION FOR METALLIC SUBSTRATES**

[54] **PROTECTION CONTRE LA CORROSION DESTINEE A DES SUBSTRATS METALLIQUES**

[72] WEAVER, WILLIAM, GB

[72] SHARP, MATTHEW DAVID, GB

[72] JOHNSON, GAVEN, GB

[71] APPLIED GRAPHENE MATERIALS UK LIMITED, GB

[85] 2020-07-27

[86] 2019-02-06 (PCT/GB2019/050322)

[87] (WO2019/155207)

[30] GB (1801931.5) 2018-02-06

[21] **3,089,687**  
[13] A1

[51] **Int.Cl. F02C 9/28 (2006.01) F02C 9/34 (2006.01) F02C 9/50 (2006.01)**

[25] EN

[54] **CONTROLLER AND METHOD DISPOSITIF DE COMMANDE ET PROCEDE ASSOCIE**

[72] PANOVA, VILII, GB

[71] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2020-07-27

[86] 2019-02-13 (PCT/EP2019/053575)

[87] (WO2019/162167)

[30] EP (18158436.8) 2018-02-23

[21] **3,089,688**  
[13] A1

[51] **Int.Cl. A61K 38/05 (2006.01) A61K 38/06 (2006.01) C07K 5/068 (2006.01) C07K 5/09 (2006.01) C07K 5/093 (2006.01)**

[25] EN

[54] **PEPTIDE MACROCYCLES AGAINST ACINETOBACTER BAUMANNII**

[54] **MACROCYCLES PEPTIDIQUES CONTRE ACINETOBACTER BAUMANNII**

[72] BLEICHER, KONRAD, CH

[72] CHEANG, DANIELLA, GB

[72] DI GIORGIO, PATRICK, CH

[72] HU, TAISHAN, CN

[72] JENNY, CHRISTIAN, CH

[72] MATTEI, PATRIZIO, CH

[72] SCHMITZ, PETRA, CH

[72] STOLL, THEODOR, CH

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2020-07-27

[86] 2019-04-23 (PCT/EP2019/060272)

[87] (WO2019/206853)

[30] CN (PCT/CN2018/084131) 2018-04-23

[21] **3,089,690**  
[13] A1

[51] **Int.Cl. G01J 3/00 (2006.01) G01N 21/25 (2006.01) G01N 21/27 (2006.01) G01N 21/31 (2006.01)**

[25] EN

[54] **A METHOD FOR CALIBRATING AN INTEGRATING CAVITY**

[54] **PROCEDE D'ETALONNAGE D'UNE CAVITE D'INTEGRATION**

[72] MARBACH, RALF, FI

[71] GRAINSENSE OY, FI

[85] 2020-07-27

[86] 2019-01-29 (PCT/FI2019/050061)

[87] (WO2019/149997)

[30] FI (20185082) 2018-01-30

[21] **3,089,692**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/30 (2019.01) G06F 40/174 (2020.01) G06F 40/186 (2020.01)**

[25] EN

[54] **SYSTEMS AND METHOD FOR GENERATING A STRUCTURED REPORT FROM UNSTRUCTURED DATA**

[54] **SYSTEMES ET PROCEDE DE PRODUCTION DE RAPPORT STRUCTURE A PARTIR DE DONNEES NON STRUCTUREES**

[72] HOFFMANN, HELLA-FRANZISKA, GB

[72] SCHLEITH, JOHANNES, GB

[71] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH

[85] 2020-07-27

[86] 2019-02-06 (PCT/IB2019/050962)

[87] (WO2019/155384)

[30] US (62/626,829) 2018-02-06

[21] **3,089,693**  
[13] A1

[51] **Int.Cl. G01N 21/17 (2006.01) A61B 5/00 (2006.01) G01B 9/02 (2006.01) G01N 21/47 (2006.01)**

[25] EN

[54] **COHERENCE GATED PHOTOACOUSTIC REMOTE SENSING (CG-PARS)**

[54] **TELEDETECTION PHOTOACOUSTIQUE DECLENCHEE PAR COHERENCE (CG-PARS)**

[72] ZEMP, ROGER, CA

[72] HAJI REZA, PARSIN, CA

[72] BELL, KEVAN, CA

[71] ILLUMISONICS INC., CA

[85] 2020-07-27

[86] 2018-09-28 (PCT/IB2018/057585)

[87] (WO2019/145764)

[30] US (62/622,816) 2018-01-26

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[21] **3,089,694**  
[13] A1

[51] **Int.Cl. F02K 1/38 (2006.01) B64C 21/02 (2006.01) B64C 21/10 (2006.01) F02C 7/045 (2006.01) B64C 3/14 (2006.01) B64C 3/16 (2006.01) B64C 5/00 (2006.01) B64C 7/02 (2006.01) B64C 11/18 (2006.01) F15D 1/00 (2006.01)**

[25] FR  
[54] **PROFILED STRUCTURE AND ASSOCIATED TURBOMACHINE**  
[54] **STRUCTURE PROFILEE ET TURBOMACHINE ASSOCIEE**  
[72] GEA AGUILERA, FERNANDO, FR  
[72] GRUBER, MATHIEU SIMON PAUL, FR  
[72] RIOU, GEORGES JEAN XAVIER, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2020-07-27  
[86] 2019-02-15 (PCT/FR2019/050350)  
[87] (WO2019/158876)  
[30] FR (1851360) 2018-02-16

[21] **3,089,696**  
[13] A1

[51] **Int.Cl. H04B 7/06 (2006.01)**

[25] EN  
[54] **TRANSMISSION DEVICE, WIRELESS COMMUNICATION SYSTEM, AND TRANSMISSION METHOD**  
[54] **DISPOSITIF DE TRANSMISSION, SYSTEME DE COMMUNICATION SANS FIL ET PROCEDE DE TRANSMISSION**  
[72] FUJINO, YOSUKE, JP  
[72] FUKUMOTO, HIROYUKI, JP  
[72] KATSUDA, HAJIME, JP  
[72] AKABANE, KAZUNORI, JP  
[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP  
[85] 2020-07-27  
[86] 2019-02-01 (PCT/JP2019/003625)  
[87] (WO2019/151480)  
[30] JP (2018-016635) 2018-02-01

[21] **3,089,699**  
[13] A1

[51] **Int.Cl. A47C 13/00 (2006.01) A47C 4/02 (2006.01) A47C 5/04 (2006.01) A47C 5/10 (2006.01) A47C 7/42 (2006.01) A47C 7/54 (2006.01)**

[25] EN  
[54] **SOFA, ARMCHAIR OR SIMILAR ARTICLE OF FURNITURE IN A KIT, AND MOUNTING METHOD FOR SUCH ARTICLE**  
[54] **CANAPE, FAUTEUIL OU ARTICLE DE MOBILIER SIMILAIRE EN KIT ET PROCEDE DE MONTAGE POUR UN TEL ARTICLE**  
[72] NARDI, GIAMPIETRO, IT  
[72] GALIOTTO, RAFFAELLO, IT  
[71] NARDI S.P.A., IT  
[85] 2020-07-27  
[86] 2019-02-04 (PCT/IB2019/050851)  
[87] (WO2019/162782)  
[30] IT (102018000002874) 2018-02-20

[21] **3,089,695**  
[13] A1

[51] **Int.Cl. A61K 31/366 (2006.01) A61K 31/7048 (2006.01) A61K 36/185 (2006.01)**

[25] EN  
[54] **SYNERGISTIC COMBINATIONS OF UROLITHINS A AND B FOR IMPROVING COGNITIVE CAPACITY OR COGNITIVE FUNCTION**  
[54] **COMBINAISONS SYNERGIQUES D'UNOLITHINES A ET B POUR AMELIORER LA CAPACITE COGNITIVE OU LA FONCTION COGNITIVE**  
[72] KALIDINDI, SANYASI, US  
[72] KRISHNAMURTHY, SAIRAM, IN  
[71] NATREON, INC., US  
[85] 2020-07-27  
[86] 2018-10-12 (PCT/US2018/055700)  
[87] (WO2019/160588)  
[30] IN (20184100673) 2018-02-19

[21] **3,089,698**  
[13] A1

[51] **Int.Cl. H01S 3/23 (2006.01) H01S 3/00 (2006.01) H01S 3/081 (2006.01) H01S 3/10 (2006.01) H01S 3/13 (2006.01) H01S 3/139 (2006.01) H01S 3/16 (2006.01)**

[25] EN  
[54] **INJECTION-LOCKED LASER SYSTEM**  
[54] **SYSTEME LASER SYNCHRONISE PAR INJECTION**  
[72] MAKER, GARETH THOMAS, GB  
[72] MALCOLM, GRAEME PETER ALEXANDER, GB  
[72] WEBSTER, STEPHEN, GB  
[71] M SQUARED LASERS LIMITED, GB  
[85] 2020-07-27  
[86] 2019-01-30 (PCT/GB2019/050247)  
[87] (WO2019/150097)  
[30] GB (1801533.9) 2018-01-30

[21] **3,089,700**  
[13] A1

[51] **Int.Cl. B01L 1/02 (2006.01) B01L 3/00 (2006.01) G01N 1/42 (2006.01) G01N 33/48 (2006.01)**

[25] EN  
[54] **APPARATUS AND METHOD FOR MEASURING DEGRADATION KINETICS OF A BIOMATERIAL IN AQUEOUS SOLUTION BELOW THE NORMAL FREEZING TEMPERATURE**  
[54] **APPAREIL ET PROCEDE DE MESURE DE LA CINETIQUE DE DEGRADATION D'UN BIOMATERIAU EN SOLUTION AQUEUSE AU-DESSOUS DE LA TEMPERATURE DE CONGELATION NORMALE**  
[72] SILVESTRE DUARTE, ANDREIA FILIPA, PT  
[72] GIL SENA REGO, PEDRO, PT  
[72] DE BRITO ESTRELA, RUI, PT  
[71] SMARTFREEZ, LDA, PT  
[85] 2020-07-27  
[86] 2019-03-12 (PCT/IB2019/051995)  
[87] (WO2019/175767)  
[30] PT (110619) 2018-03-12

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[21] **3,089,703**  
[13] A1

[51] **Int.Cl. C09D 1/04 (2006.01) C09K 5/20 (2006.01) C23F 11/10 (2006.01)**

[25] EN

[54] **ANTACIDS FOR POLYMERS**

[54] **ANTIACIDES POUR POLYMERES**

[72] MICHOS, DEMETRIUS, US

[72] REGO, JOSE M., US

[72] KAARTO, JOHN KALEVI, US

[72] MONTOYA-GONI, AMAIA, US

[72] PAINE, MICHELLE NI, US

[72] GU, FENG, US

[72] PRYOR, JAMES NEIL, US

[71] W.R. GRACE & CO.-CONN, US

[85] 2020-07-27

[86] 2019-02-01 (PCT/US2019/016270)

[87] (WO2019/152790)

[30] US (62/625,643) 2018-02-02

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[21] **3,089,704**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **METHODS OF SELECTING AND DESIGNING SAFER AND MORE EFFECTIVE ANTI-CTLA-4 ANTIBODIES FOR CANCER THERAPY**

[54] **PROCEDES DE SELECTION ET DE CONCEPTION D'ANTICORPS ANTI-CTLA-4 PLUS SURS ET PLUS EFFICACES POUR LA THERAPIE DU CANCER**

[72] LIU, YANG, US

[72] ZHENG, PAN, US

[72] TANG, FEI, US

[72] LIU, MINGYUE, US

[72] DEVENPORT, MARTIN, US

[72] DU, XUEXIANG, US

[72] ZHANG, YAN, US

[71] ONCOIMMUNE, INC., US

[71] CHILDREN'S RESEARCH INSTITUTE, CHILDREN'S NATIONAL MEDICAL CENTER, US

[85] 2020-07-27

[86] 2019-01-29 (PCT/US2019/015664)

[87] (WO2019/152413)

[30] US (62/625,662) 2018-02-02

[30] US (62/647,123) 2018-03-23

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[21] **3,089,706**  
[13] A1

[51] **Int.Cl. A23L 33/18 (2016.01) C07K 14/78 (2006.01)**

[25] EN

[54] **LIQUID COMPOSITION FOR ORAL USE CONTAINING COLLAGEN PEPTIDE, AND METHOD FOR ALLEVIATING THE ACIDITY OF LIQUID COMPOSITION FOR ORAL USE**

[54] **COMPOSITION LIQUIDE A USAGE ORAL CONTENANT UN PEPTIDE DE COLLAGENE, ET PROCEDE ATTENUANT L'ACIDITE DE CETTE COMPOSITION LIQUIDE A USAGE ORAL**

[72] OKADA, MEGUMI, JP

[72] IMAO, TAKAKO, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2020-07-27

[86] 2019-01-30 (PCT/JP2019/003163)

[87] (WO2019/155956)

[30] JP (2018-022436) 2018-02-09

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[21] **3,089,707**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/16 (2006.01) C12N 15/31 (2006.01)**

[25] EN

[54] **ANTI-INFLAMMATORY COMPOUNDS AND METHODS OF USE**

[54] **COMPOSES ANTI-INFLAMMATOIRES ET LEURS METHODES D'UTILISATION**

[72] GUILLEMIN, KAREN, US

[72] ROLIG, ANNAH, US

[72] SWEENEY, EMILY, US

[71] UNIVERSITY OF OREGON, US

[85] 2020-07-27

[86] 2019-01-29 (PCT/US2019/015675)

[87] (WO2019/152418)

[30] US (15/883,999) 2018-01-30

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[21] **3,089,708**  
[13] A1

[51] **Int.Cl. A61F 2/40 (2006.01) A61F 2/30 (2006.01)**

[25] EN

[54] **PATIENT-SPECIFIC BONE FRACTURE PROSTHESES AND METHODS OF MAKING THE SAME**

[54] **PROTHESES POUR FRACTURE OSSEUSE SPECIFIQUES AU PATIENT ET LEURS PROCEDES DE FABRICATION**

[72] COURTADE-JOUANICQ, CELINE, US

[72] GODELU, MARINE, US

[72] COULANGE, VINCENT, US

[72] GARGAC, SHAWN M., US

[71] TORNIER, INC., US

[85] 2020-07-27

[86] 2019-02-05 (PCT/US2019/016702)

[87] (WO2019/156985)

[30] EP (18305118.4) 2018-02-06

[30] US (62/669,850) 2018-05-10

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[21] **3,089,709**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/44 (2006.01)**

[25] EN

[54] **THERAPIES AND METHODS TO TREAT TLR2-MEDIATED DISEASES AND DISORDERS**

[54] **THERAPIES ET METHODES POUR TRAITER DES MALADIES ET DES TROUBLES MEDIES PAR TLR2**

[72] WITZTUM, JOSEPH L., US

[72] TSIMIKAS, SOTIRIOS, US

[72] QUE, XUCHU, US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2020-07-27

[86] 2019-01-29 (PCT/US2019/015723)

[87] (WO2019/148204)

[30] US (62/623,276) 2018-01-29



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[13] A1

[51] **Int.Cl. E21B 43/11 (2006.01) B23K 26/03 (2006.01) B23K 26/38 (2014.01) E21B 7/15 (2006.01)**

[25] EN

[54] **IN-SITU LASER GENERATOR COOLING SYSTEM FOR DOWNHOLE APPLICATION AND STIMULATIONS**

[54] **SYSTEME DE REFROIDISSEMENT DE GENERATEUR LASER IN SITU POUR APPLICATION ET STIMULATION DE FOND DE Puits**

[72] BATARSEH, SAMEEH ISSA, SA

[72] NOUI-MEHIDI, MOHAMED NABIL, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-07-27

[86] 2019-02-22 (PCT/US2019/019122)

[87] (WO2019/165188)

[30] US (15/902,702) 2018-02-22

[21] **3,089,712**  
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/138 (2006.01) A61K 31/216 (2006.01) A61P 11/00 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING SLEEP APNEA**

[54] **METHODS ET COMPOSITIONS POUR LE TRAITEMENT DE L'APNEE DU SOMMEIL**

[72] MILLER, LAWRENCE G., US

[72] WOHL, BARRY, US

[72] LUNSMANN, WALTER J., US

[71] APNIMED, INC. (DELAWARE), US

[85] 2020-07-27

[86] 2019-01-30 (PCT/US2019/015781)

[87] (WO2019/152475)

[30] US (62/623,892) 2018-01-30

[21] **3,089,713**  
[13] A1

[51] **Int.Cl. A61M 35/00 (2006.01) A61B 17/00 (2006.01) A61K 35/14 (2015.01) A61L 24/00 (2006.01) A61L 26/00 (2006.01) A61M 3/00 (2006.01) A61M 11/00 (2006.01)**

[25] EN

[54] **BLOOD APPLICATOR FOR TISSUE TREATMENT**

[54] **APPLICATEUR DE SANG POUR LE TRAITEMENT DE TISSUS**

[72] KUSHNIR, IGAL, IL

[72] KUSHNIR, ALON, IL

[71] REDDRESS LTD., IL

[85] 2020-07-27

[86] 2018-11-26 (PCT/IL2018/051279)

[87] (WO2019/150355)

[30] IL (257229) 2018-01-30

[21] **3,089,714**  
[13] A1

[51] **Int.Cl. G06F 8/71 (2018.01) G06F 8/73 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING AN INSTANT COMMUNICATION CHANNEL WITHIN INTEGRATED DEVELOPMENT ENVIRONNEMENTS**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR UN CANAL DE COMMUNICATION INSTANTANEE DANS DES ENVIRONNEMENTS DE DEVELOPPEMENT INTEGRES**

[72] PEZARIS, PETER, US

[71] PEZARIS, PETER, US

[71] CAPTECH, LLC, US

[71] CODESTREAM, INC., US

[85] 2020-07-27

[86] 2019-02-05 (PCT/US2019/016707)

[87] (WO2019/153013)

[30] US (62/626,575) 2018-02-05

[30] US (62/659,346) 2018-04-18

[21] **3,089,716**  
[13] A1

[51] **Int.Cl. A41D 13/00 (2006.01) A41D 1/00 (2018.01) A41D 13/05 (2006.01)**

[25] EN

[54] **PADDED AND PREWIRED EXOSKELETON HARNESS**

[54] **HARNAIS D'EXOSQUELETTE MATELASSE ET PRECABLE**

[72] BARNES, GAVIN A., US

[72] NELSON, SEAN A., US

[72] SLEPPY, CHRISTINE, US

[71] LOCKHEED MARTIN CORPORATION, US

[85] 2020-07-27

[86] 2019-02-25 (PCT/US2019/019431)

[87] (WO2019/165376)

[30] US (62/635,167) 2018-02-26

[21] **3,089,717**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01)**

[25] EN

[54] **NUCLEIC ACID ANTIBODY CONSTRUCTS FOR USE AGAINST RESPIRATORY SYNCYTIAL VIRUS**

[54] **CONSTRUCTIONS D'ANTICORPS D'ACIDE NUCLEIQUE DESTINEES A ETRE UTILISEES CONTRE LE VIRUS RESPIRATOIRE SYNCYTIAL**

[72] WEINER, DAVID, US

[72] MUTHUMANI, KAR, US

[72] CHEN, JING, US

[72] SMITH, TREVOR, US

[72] SCHULTHEIS, KATHERINE, US

[71] THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY, US

[71] INOVIO PHARMACEUTICALS, INC., US

[85] 2020-07-27

[86] 2019-01-31 (PCT/US2019/015975)

[87] (WO2019/152600)

[30] US (62/624,320) 2018-01-31

[30] US (62/749,580) 2018-10-23

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| [21] <b>3,089,718</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [21] <b>3,089,720</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [21] <b>3,089,722</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [51] <b>Int.Cl. G01R 22/06 (2006.01)</b><br>[25] EN<br>[54] <b>ANSI ELECTRICAL MODULAR METER FOR ELECTRICITY METERS</b><br>[54] <b>COMPTEUR ELECTRIQUE MODULAIRE ANSI POUR COMPTEURS D'ELECTRICITE</b><br>[72] ABDUL-HADI, LOUAY, US<br>[72] TORPY, KEITH, AU<br>[72] TANWANI, NIKHIL, IN<br>[71] LANDIS+GYR INNOVATIONS, INC., US<br>[85] 2020-07-27<br>[86] 2019-02-21 (PCT/US2019/018862)<br>[87] (WO2019/165015)<br>[30] US (15/905,205) 2018-02-26                                                                                                                                                                                                                                                                                                                                                               | [51] <b>Int.Cl. G11B 27/031 (2006.01) H04N 21/85 (2011.01)</b><br>[25] EN<br>[54] <b>DIGITAL PERSONAL ASSISTANT ASSISTANT PERSONNEL NUMERIQUE</b><br>[72] HOFSTETTER, ELAD, IL<br>[72] RAVNER, GIDON, IL<br>[72] APRASOFF, JONATHAN, IL<br>[72] REIF, MENAHEM, IL<br>[71] VI LABS LTD, IL<br>[85] 2020-07-27<br>[86] 2019-02-06 (PCT/IL2019/050143)<br>[87] (WO2019/155461)<br>[30] US (62/626,728) 2018-02-06                                                                                                                                                              | [51] <b>Int.Cl. C07K 16/46 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 1/04 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 5/06 (2006.01) A61P 5/40 (2006.01) A61P 7/04 (2006.01) A61P 7/06 (2006.01) A61P 9/00 (2006.01) A61P 13/12 (2006.01) A61P 15/00 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 17/06 (2006.01) A61P 17/14 (2006.01) A61P 19/02 (2006.01) A61P 21/00 (2006.01) A61P 21/04 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01)</b><br>[25] EN<br>[54] <b>BISPECIFIC ANTIBODY ANTICORPS BISPECIFIQUE</b><br>[72] SHIBAYAMA, SHIRO, JP<br>[72] SHIMBO, TAKUYA, JP<br>[72] TEZUKA, TOMOYA, JP<br>[72] THROSBY, MARK, NL<br>[72] DE KRUIF, CORNELIS ADRIAAN, NL<br>[72] VAN LOO, PIETER FOKKO, NL<br>[72] KLOOSTER, RINSE, NL<br>[71] ONO PHARMACEUTICAL CO., LTD., JP<br>[85] 2020-07-27<br>[86] 2019-02-08 (PCT/JP2019/004551)<br>[87] (WO2019/156199)<br>[30] JP (2018-021498) 2018-02-09<br>[30] JP (2018-153149) 2018-08-16 |
| [21] <b>3,089,719</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [21] <b>3,089,721</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [51] <b>Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01) G01V 1/32 (2006.01) G01V 1/34 (2006.01) G01V 1/36 (2006.01) G01V 1/37 (2006.01) G01V 1/38 (2006.01)</b><br>[25] EN<br>[54] <b>4D SEISMIC AS A METHOD FOR CHARACTERIZING FRACTURE NETWORK AND FLUID DISTRIBUTION IN UNCONVENTIONAL RESERVOIR</b><br>[54] <b>TECHNIQUE SISMIQUE 4D EN TANT QUE PROCEDE DE CARACTERISATION D'UN RESEAU DE FRACTURES ET DISTRIBUTION DE FLUIDE DANS UN RESERVOIR NON CONVENTIONNEL</b><br>[72] WHEELER, THOMAS J., US<br>[72] MUTORU, JANE W., US<br>[72] KEYS, ROBERT G., US<br>[72] JURICK, DANA M., US<br>[72] FISSELL, MARK J., US<br>[71] CONOCOPHILLIPS COMPANY, US<br>[85] 2020-07-27<br>[86] 2019-02-06 (PCT/US2019/016808)<br>[87] (WO2019/157031)<br>[30] US (62/626,840) 2018-02-06<br>[30] US (16/268,852) 2019-02-06 | [51] <b>Int.Cl. C07K 16/28 (2006.01)</b><br>[25] EN<br>[54] <b>ANTI-PD-1/LAG3 BISPECIFIC ANTIBODIES</b><br>[54] <b>ANTICORPS BISPECIFIQUES ANTI-PD-1/LAG3</b><br>[72] FAYADAT-DILMAN, LAURENCE, US<br>[72] JUAN, VERONICA, US<br>[72] KHAN, SHIREEN, US<br>[72] HUANG, SHAOPENG, CN<br>[72] YING, HUA, CN<br>[72] CABRERA, ERIC, ESCOBAR, CA<br>[72] DESJARDINS, GENEVIEVE, CA<br>[71] MERCK SHARP & DOHME CORP., US<br>[71] ZYMEWORKS INC., CA<br>[85] 2020-07-27<br>[86] 2019-01-31 (PCT/US2019/016038)<br>[87] (WO2019/152642)<br>[30] CN (PCT/CN2018/074918) 2018-02-01 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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[21] **3,089,723**  
[13] A1

[51] **Int.Cl. A23G 3/34 (2006.01) A23L 7/122 (2016.01)**

[25] EN

[54] **A PROCESS OF STABILIZING AND SPRAYING A FOAM TO MIMIC THE APPEARANCE OF FROSTING**

[54] **PROCEDE DE STABILISATION ET DE PULVERISATION D'UNE MOUSSE POUR IMITER L'APPARENCE DU GLACAGE**

[72] PERDON, ALICIA ANTONIO, US

[72] MUHAMMAD-TAHIR, ZARINI, US

[72] HOMAN, ERIC, US

[72] GEORGE, JOSEPH, US

[71] KELLOGG COMPANY, US

[85] 2020-07-27

[86] 2019-02-01 (PCT/US2019/016337)

[87] (WO2019/152833)

[30] US (62/625,102) 2018-02-01

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[21] **3,089,724**  
[13] A1

[51] **Int.Cl. B65D 5/22 (2006.01) B65D 5/00 (2006.01) B65D 5/02 (2006.01) B65D 5/24 (2006.01) B65D 5/36 (2006.01) B65D 5/46 (2006.01)**

[25] EN

[54] **STACKABLE CARTONS, SYSTEM, AND METHODS OF USING THE SAME**

[54] **CARTONS EMPILABLES, SYSTEME, ET LEURS PROCEDES D'UTILISATION**

[72] EXNER, DANA, US

[72] BATES, AARON, US

[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2020-07-27

[86] 2019-02-21 (PCT/US2019/018914)

[87] (WO2019/165039)

[30] US (62/633,157) 2018-02-21

[30] US (62/643,911) 2018-03-16

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[21] **3,089,725**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06T 19/00 (2011.01) G06Q 50/02 (2012.01) A01G 7/00 (2006.01)**

[25] EN

[54] **AUGMENTED REALITY BASED HORTICULTURAL CARE TRACKING**

[54] **SUIVI DE SOINS HORTICOLES A BASE DE REALITE AUGMENTEE**

[72] GREENBERG, ADAM PHILLIP TAKLA, US

[72] KING, MATTHEW CHARLES, US

[71] IUNU, INC., US

[85] 2020-07-27

[86] 2019-02-06 (PCT/US2019/016927)

[87] (WO2019/157107)

[30] US (15/891,110) 2018-02-07

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[21] **3,089,726**  
[13] A1

[51] **Int.Cl. G01V 5/00 (2006.01)**

[25] EN

[54] **SYSTEM AND KIT FOR X-RAY BACKSCATTER IMAGING WITH REMOVABLE DETECTOR**

[54] **SYSTEME ET KIT D'IMAGERIE PAR RETRODIFFUSION DE RAYONS X A DETECTEUR AMOVIBLE**

[72] ROTHSCHILD, PETER J., US

[72] KELLOGG, HOWARD D., US

[71] VIKEN DETECTION CORPORATION, US

[85] 2020-07-27

[86] 2019-02-01 (PCT/US2019/016436)

[87] (WO2019/152900)

[30] US (62/625,526) 2018-02-02

[30] US (62/796,351) 2019-01-24

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[21] **3,089,727**  
[13] A1

[51] **Int.Cl. C03C 17/36 (2006.01) B32B 17/06 (2006.01)**

[25] EN

[54] **TRANSPARENT SUBSTRATE PROVIDED WITH MULTI-LAYERED COATING AND INSULATION GLAZING UNIT INCLUDING THE SAME**

[54] **SUBSTRAT TRANSPARENT POURVU D'UN REVETEMENT MULTICOUCHE ET UNITE DE VITRAGE ISOLANT LE COMPRENANT**

[72] HAN, JIN WOO, KR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2020-07-27

[86] 2019-05-09 (PCT/KR2019/005550)

[87] (WO2019/216661)

[30] KR (10-2018-0053264) 2018-05-09

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[21] **3,089,728**  
[13] A1

[51] **Int.Cl. A61K 31/7068 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTITUMOR AGENT FOR BILIARY TRACT CANCER AND METHOD FOR TREATING BILIARY TRACT CANCER**

[54] **AGENT ANTITUMORAL CONTRE LE CANCER BILIAIRE ET METHODE DE TRAITEMENT DU CANCER BILIAIRE**

[72] JANKU, FILIP, US

[71] FUJIFILM CORPORATION, JP

[85] 2020-07-27

[86] 2018-03-01 (PCT/JP2018/007772)

[87] (WO2019/146130)

[30] US (62/623,262) 2018-01-29

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[21] **3,089,729**  
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01)**  
[25] EN  
[54] **NOTES AND EVENT LOG INFORMATION ASSOCIATED WITH ANALYTE SENSORS**  
[54] **NOTES ET INFORMATIONS DE JOURNAL D'EVENEMENTS ASSOCIEES A DES CAPTEURS D'ANALYTE**  
[72] KUMAR, ASHWIN, US  
[72] GOLDSMITH, JOEL, US  
[71] ABBOTT DIABETES CARE INC., US  
[85] 2020-07-27  
[86] 2019-02-05 (PCT/US2019/016575)  
[87] (WO2019/152966)  
[30] US (62/626,410) 2018-02-05

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[21] **3,089,730**  
[13] A1

[51] **Int.Cl. E21B 43/04 (2006.01) E21B 43/08 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR GRAVEL PACKING WELLS**  
[54] **SYSTEMES ET PROCEDES POUR GRAVELAGE DE PUITES**  
[72] FROSELL, THOMAS JULES, US  
[72] COFFIN, MAXIME PM, US  
[72] LEONG, MAN YEE, SG  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2020-07-27  
[86] 2019-02-19 (PCT/US2019/018577)  
[87] (WO2019/182706)  
[30] US (62/644,975) 2018-03-19

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[21] **3,089,731**  
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **USE OF PCBP1 TO TREAT HYPERPROLIFERATIVE DISEASE**  
[54] **PCBP1 UTILISEE POUR LE TRAITEMENT DE MALADIES LIEES A UNE HYPERPROLIFERATION**  
[72] LAI, NORMAN ZHENNAN, US  
[72] KARLIN, MICHAEL JOSEPH, US  
[72] CROCI, ALBERTO MURAT, US  
[72] DE LA CRUZ JR., VIDAL FELIX, US  
[72] TAN, YUEBIN, US  
[71] IBEX BIOSCIENCES, LLC, US  
[85] 2020-07-27  
[86] 2019-02-05 (PCT/US2019/016688)  
[87] (WO2019/153008)  
[30] US (62/626,424) 2018-02-05

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[21] **3,089,732**  
[13] A1

[51] **Int.Cl. B65H 31/28 (2006.01) G07D 9/00 (2006.01)**  
[25] EN  
[54] **DRIVE TRANSMISSION SWITCHING MECHANISM, PAPER SHEET STORAGE UNIT, AND PAPER SHEET PROCESSING DEVICE**  
[54] **MECANISME DE COMMUTATION DE TRANSMISSION D'ENTRAINEMENT, UNITE DE STOCKAGE DE FEUILLES DE PAPIER ET DISPOSITIF DE TRAITEMENT DE FEUILLES DE PAPIER**  
[72] TOGANO, KEIICHI, JP  
[72] IZAWA, SHINYA, JP  
[71] JAPAN CASH MACHINE CO., LTD., JP  
[85] 2020-07-27  
[86] 2019-01-09 (PCT/JP2019/000327)  
[87] (WO2019/181148)  
[30] JP (2018-056037) 2018-03-23

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[21] **3,089,734**  
[13] A1

[51] **Int.Cl. A01K 1/00 (2006.01) A01K 1/01 (2006.01)**  
[25] EN  
[54] **CATTLE BARN WITH AIRWASHER**  
[54] **ETABLE A LAVEUR D'AIR**  
[72] ROSCAM ABBING, ERNST ARNOUT, NL  
[72] VAN SCHIE, PETRUS JOHANNES, NL  
[72] VAN DEN BERG, MAARTEN, NL  
[72] BLOKLAND, KORSTIAAN CORNELIS, NL  
[72] VAN DEN BERG, KAREL, NL  
[71] LELY PATENT N.V., NL  
[85] 2020-07-27  
[86] 2019-01-22 (PCT/NL2019/050032)  
[87] (WO2019/156551)  
[30] NL (2020416) 2018-02-12

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[21] **3,089,735**  
[13] A1

[51] **Int.Cl. B61L 23/00 (2006.01) B60L 13/00 (2006.01) B61B 13/10 (2006.01)**  
[25] EN  
[54] **METHOD OF CONTROLLING A DIRECTION OF A TRAJECTORY OF A VEHICLE**  
[54] **PROCEDE DE COMMANDE D'UNE DIRECTION D'UNE TRAJECTOIRE D'UN VEHICULE**  
[72] GEUZE, MARIJN JESPER, NL  
[72] LAMME, SASCHA, NL  
[72] KOOPER, BAUKE JAN, NL  
[72] VAN DER MEIJS, MARINUS WILHELMUS ELIZA, NL  
[71] HARDT IP B.V., NL  
[85] 2020-07-27  
[86] 2019-02-21 (PCT/NL2019/050114)  
[87] (WO2019/164395)  
[30] NL (2020480) 2018-02-22

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[21] **3,089,736**  
[13] A1

[51] **Int.Cl. A45C 11/00 (2006.01) A61M 5/32 (2006.01) G08B 13/14 (2006.01)**

[25] EN

[54] **MULTIPLE CAVITY CARRIER APPARATUSES FOR DETECTING REMOVAL OF ITEMS FROM CAVITIES AND THEIR REPLACEMENT**

[54] **APPAREILS DE SUPPORT A CAVITES MULTIPLES POUR DETECTER L'ENLEVEMENT D'ARTICLES A PARTIR DE CAVITES ET LEUR REMPLACEMENT**

[72] WEST, ROBERT, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2020-07-27

[86] 2019-01-15 (PCT/US2019/013599)

[87] (WO2019/152181)

[30] US (62/625,155) 2018-02-01

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[21] **3,089,737**  
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01)**

[25] EN

[54] **MICROFABRICATED CATHETER HAVING AN INTERMEDIATE PREFERRED BENDING SECTION**

[54] **CATHETER MICROFABRIQUE AYANT UNE SECTION DE COURBURE PREFEREE INTERMEDIAIRE**

[72] SNYDER, EDWARD J., US

[72] LIPPERT, JOHN A., US

[72] TURNLUND, TODD, US

[72] DAVIS, CLARK C., US

[71] SCIENTIA VASCULAR, LLC, US

[85] 2020-07-27

[86] 2019-02-21 (PCT/US2019/019046)

[87] (WO2019/165144)

[30] US (62/633,939) 2018-02-22

[30] US (16/281,046) 2019-02-20

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[21] **3,089,738**  
[13] A1

[51] **Int.Cl. B01J 19/32 (2006.01) B01D 53/18 (2006.01)**

[25] EN

[54] **PACKING, METHOD FOR MANUFACTURING SAME, AND LIQUID FILM-FORMING STRUCTURE**

[54] **CHARGE, SON PROCEDE DE FABRICATION, ET STRUCTURE FILMOGENE LIQUIDE**

[72] ISO, YOSHIYUKI, JP

[72] IKEDA, RYOSUKE, JP

[72] TAKANO, KENJI, JP

[72] KATOH, KENJI, JP

[72] WAKIMOTO, TATSURO, JP

[71] IHI CORPORATION, JP

[71] UNIVERSITY PUBLIC CORPORATION OSAKA, JP

[85] 2020-07-27

[86] 2019-01-29 (PCT/JP2019/002933)

[87] (WO2019/151230)

[30] JP (2018-013603) 2018-01-30

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[21] **3,089,739**  
[13] A1

[51] **Int.Cl. A61C 7/00 (2006.01) A61C 7/08 (2006.01)**

[25] EN

[54] **METAL ORTHODONTIC RETAINER OR DENTAL FLIPPER**

[54] **DISPOSITIF DE RETENUE ORTHODONTIQUE METALLIQUE OU PROTHESE DENTAIRE AMOVIBLE**

[72] SANDWICK, TODD, US

[72] OAKES, BRYCE, US

[71] DEAN ULTRA THIN RETAINER, LLC, US

[85] 2020-07-27

[86] 2019-01-25 (PCT/US2019/015146)

[87] (WO2019/152271)

[30] US (62/626,403) 2018-02-05

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[21] **3,089,740**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR SEALING A VASCULAR PUNCTURE**

[54] **APPAREIL ET PROCEDE D'OBTURATION D'UNE PONCTION VASCULAIRE**

[72] JOE, WESLEY CHUNG, US

[72] AVUTHU, SRAVANTHI, US

[72] GUYER, CURT D., US

[72] REPP, RICHARD, US

[72] SCHNITZER, MARTIN, US

[71] ACCESS CLOSURE, INC., US

[85] 2020-07-27

[86] 2019-01-25 (PCT/US2019/015170)

[87] (WO2019/147950)

[30] US (62/623,350) 2018-01-29

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[21] **3,089,741**  
[13] A1

[51] **Int.Cl. A23L 33/18 (2016.01) C07K 14/78 (2006.01)**

[25] EN

[54] **LIQUID COMPOSITION FOR ORAL USE CONTAINING COLLAGEN PEPTIDE, AND METHOD FOR IMPROVING FLAVOR OF LIQUID COMPOSITION FOR ORAL USE INCLUDING COLLAGEN PEPTIDE**

[54] **COMPOSITION LIQUIDE A USAGE ORAL CONTENANT UN PEPTIDE DE COLLAGENE, ET PROCEDE D'AMELIORATION DU GOUT DE CETTE COMPOSITION**

[72] OKADA, MEGUMI, JP

[72] IMAO, TAKAKO, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2020-07-27

[86] 2019-01-30 (PCT/JP2019/003161)

[87] (WO2019/155955)

[30] JP (2018-022437) 2018-02-09

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[21] **3,089,742**  
[13] A1

[51] **Int.Cl. A61K 31/785 (2006.01) A61K 9/52 (2006.01) A61P 1/12 (2006.01) C08F 212/14 (2006.01) C08F 212/36 (2006.01)**

[25] EN

[54] **CHOLESTYRAMINE FORMULATIONS AND METHODS OF USE**

[54] **FORMULATIONS DE CHOLESTYRAMINE ET METHODES D'UTILISATION**

[72] TANGUAY, SOPHIE, CA  
[72] DEBNATH, SMITA, CA  
[72] KANDIL, MUSTAPHA, CA  
[71] PHARMASCIENCE INC., CA  
[85] 2020-07-28  
[86] 2019-01-30 (PCT/CA2019/050116)  
[87] (WO2019/148278)  
[30] US (62/623,895) 2018-01-30

[21] **3,089,743**  
[13] A1

[51] **Int.Cl. G01G 23/00 (2006.01) G01G 19/02 (2006.01)**

[25] EN

[54] **TRANSPORT MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DE TRANSPORT**

[72] SCOTT, TIMOTHY JAMES, US  
[71] DRIVING INNOVATIONS, LLC, US  
[85] 2020-07-27  
[86] 2019-01-25 (PCT/US2019/015279)  
[87] (WO2019/148028)  
[30] US (15/881,220) 2018-01-26

[21] **3,089,744**  
[13] A1

[51] **Int.Cl. A61B 8/14 (2006.01)**

[25] EN

[54] **IMAGE BASED ULTRASOUND PROBE CALIBRATION**

[54] **ETALONNAGE D'UNE SONDE A ULTRASONS BASE SUR UNE IMAGE**

[72] GOTTE, HUBERT, DE  
[72] ILLANES MANRIQUEZ, ALFREDO GUILLERMO, DE  
[72] FRIEBE, MICHAEL, DE  
[72] BALAKRISHNAN, SATISH, DE  
[72] POUDEL, PRABAL, DE  
[71] BRAINLAB AG, DE  
[85] 2020-07-28  
[86] 2018-02-23 (PCT/EP2018/054524)  
[87] (WO2019/161914)

[21] **3,089,745**  
[13] A1

[51] **Int.Cl. G06F 21/10 (2013.01) G06F 21/60 (2013.01) G06F 21/62 (2013.01) H04L 9/32 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **SECURE STORAGE OF DATA AND HASHES VIA A DISTRIBUTED LEDGER SYSTEM**

[54] **STOCKAGE SECURISE DE DONNEES ET DE HACHAGES PAR L'INTERMEDIAIRE D'UN SYSTEME DE REGISTRE DISTRIBUE**

[72] NENOV, DEJAN, US  
[72] KASSABOV, ROUMEN, US  
[71] FORTRESS CYBER SECURITY, LLC, US  
[85] 2020-07-27  
[86] 2019-01-25 (PCT/US2019/015305)  
[87] (WO2019/148050)  
[30] US (15/880,193) 2018-01-25  
[30] US (15/880,209) 2018-01-25

[21] **3,089,746**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED 1,2-DIHYDRO-3H-PYRAZOLO[3,4-D]PYRIMIDIN-3-ONES**

[54] **L,2-DIHYDRO-3H-PYRAZOLO[3,4-D]PYRIMIDIN-3-ONES SUBSTITUEES**

[72] HUANG, PETER QINHUA, US  
[72] BUNKER, KEVIN DUANE, US  
[72] BOREN, BRANT CLAYTON, US  
[72] HEGDE, SAYEE GAJANAN, US  
[72] LIU, HUI, US  
[72] UNNI, ADITYA KRISHNAN, US  
[72] ABRAHAM, SUNNY, US  
[72] HOPKINS, CHAD DANIEL, US  
[72] PALIWAL, SUNIL, US  
[71] RECURIUM IP HOLDINGS, LLC, US  
[85] 2020-07-27  
[86] 2019-02-26 (PCT/US2019/019557)  
[87] (WO2019/173082)  
[30] US (62/641,149) 2018-03-09  
[30] US (62/755,163) 2018-11-02

[21] **3,089,748**  
[13] A1

[51] **Int.Cl. G06F 3/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR A CONVERTIBLE USER APPLICATION**

[54] **SYSTEME ET PROCEDE POUR UNE APPLICATION UTILISATEUR CONVERTIBLE**

[72] WANG, KEVIN SUNLIN, US  
[71] OPERR TECHNOLOGIES, INC., US  
[85] 2020-07-27  
[86] 2019-01-25 (PCT/US2019/015307)  
[87] (WO2019/148052)  
[30] US (62/621,988) 2018-01-25  
[30] US (16/026,996) 2018-07-03

[21] **3,089,750**  
[13] A1

[51] **Int.Cl. A61K 31/353 (2006.01) A61L 15/44 (2006.01) A61P 17/02 (2006.01) C07D 311/80 (2006.01)**

[25] EN

[54] **METHODS OF TREATING AND/OR PREVENTING BEDSORES USING NABILONE**

[54] **METHODES DE TRAITEMENT ET/OU DE PREVENTION D'ESCARRES DE DECUBITUS A L'AIDE DE NABILONE**

[72] AMANULLAH, SHABBIR, CA  
[71] SOLANTECH INC., CA  
[85] 2020-07-28  
[86] 2019-01-21 (PCT/CA2019/050072)  
[87] (WO2019/144221)  
[30] US (62/623,173) 2018-01-29

[21] **3,089,751**  
[13] A1

[51] **Int.Cl. A61F 5/01 (2006.01) A41D 13/05 (2006.01) A45F 3/14 (2006.01) A61F 5/02 (2006.01) F16M 13/04 (2006.01) F41H 1/02 (2006.01)**

[25] EN

[54] **POSTURAL ORTHOSIS SUPPORT APPARATUS FOR PERSONAL BODY ARMOR CARRIERS**

[54] **APPAREIL DE SUPPORT D'ORTHESE POSTURALE POUR DES SUPPORTS DE GILET PARE-BALLES**

[72] MYLONAS, JIM, CA  
[71] MYLONAS, JIM, CA  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/CA2019/050103)  
[87] (WO2019/144243)  
[30] US (62/623,026) 2018-01-29

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[21] **3,089,752**  
[13] A1

[51] **Int.Cl. A63B 71/06 (2006.01) A63B 71/00 (2006.01) G06F 17/40 (2006.01)**

[25] EN

[54] **SYSTEM, COMPUTING DEVICE, AND METHOD FOR MAPPING AN ACTIVITY OF A PLAYER IN A NON-VIRTUAL ENVIRONMENT INTO A VIRTUAL ENVIRONMENT**

[54] **SYSTEME, DISPOSITIF INFORMATIQUE ET PROCEDE DE MAPPAGE DANS UN ENVIRONNEMENT VIRTUEL DE L'ACTIVITE D'UN JOUEUR DANS UN ENVIRONNEMENT NON VIRTUEL**

[72] GUILLEMETTE, JONATHAN, CA  
[72] MATTES, BENJAMIN F., CA  
[71] INTELLISPORTS INC., CA  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/CA2019/050105)  
[87] (WO2019/144245)  
[30] US (62/623,178) 2018-01-29

[21] **3,089,753**  
[13] A1

[51] **Int.Cl. H01M 4/32 (2006.01) H01G 11/28 (2013.01) H01G 11/50 (2013.01) H01G 11/86 (2013.01) H01M 4/52 (2010.01) H01M 4/62 (2006.01)**

[25] EN

[54] **REDOX AND ION-ADSORPTION ELECTRODES AND ENERGY STORAGE DEVICES**

[54] **ELECTRODES D'OXYDO-REDUCTION ET D'ADSORPTION D'IONS ET DISPOSITIFS DE STOCKAGE D'ENERGIE**

[72] EL-KADY, MAHER F., US  
[72] KANER, RICHARD B., US  
[72] MOUSAVI, MIR FAZLOLLAH, IR  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2020-07-27  
[86] 2019-01-28 (PCT/US2019/015428)  
[87] (WO2019/152315)  
[30] US (15/885,905) 2018-02-01

[21] **3,089,754**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 47/54 (2017.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTIBODY DRUG CONJUGATES (ADCS) WITH NAMPT INHIBITORS**

[54] **CONJUGUES ANTICORPS-MEDICAMENT (ADC) AVEC DES INHIBITEURS DE NAMPT**

[72] BOHNKE, NIELS, DE  
[72] BERGER, MARKUS, DE  
[72] SOMMER, ANETTE, DE  
[72] HAMMER, STEFANIE, DE  
[72] FERNANDEZ-MONTALVAN, ERNESTO AMAURY, FR  
[72] STELTEN-LUDWIG, BEATRIX, DE  
[72] GUNTHER, JUDITH, DE  
[72] MAHLERT, CHRISTOPH, DE  
[72] GREVEN, SIMONE, DE  
[72] SARKER, ABUL BASHER, GB  
[72] TAIT, MICHAEL, GB  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE  
[85] 2020-07-28  
[86] 2019-01-25 (PCT/EP2019/051888)  
[87] (WO2019/149637)  
[30] EP (18154417.2) 2018-01-31

[21] **3,089,756**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6855 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6869 (2018.01) C12P 19/34 (2006.01)**

[25] EN

[54] **METHOD FOR NUCLEIC ACID AMPLIFICATION**

[54] **PROCEDE D'AMPLIFICATION D'ACIDE NUCLEIQUE**

[72] GAWAD, CHARLES, US  
[72] EASTON, JOHN, US  
[72] GONZALEZ-PENA, VERONICA, US  
[71] ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC., US  
[85] 2020-07-27  
[86] 2019-01-28 (PCT/US2019/015452)  
[87] (WO2019/148119)  
[30] US (62/623,471) 2018-01-29

[21] **3,089,758**  
[13] A1

[51] **Int.Cl. B65D 21/06 (2006.01) B65D 25/06 (2006.01) B65D 25/28 (2006.01) B65D 39/02 (2006.01) B65D 43/02 (2006.01) B65D 43/12 (2006.01) B65D 43/20 (2006.01) B65D 53/02 (2006.01)**

[25] EN

[54] **GUACAMOLE KEEPER**

[54] **POT DE CONSERVATION DU GUACAMOLE**

[72] KENT, JOSEPH, US  
[71] PROGRESSIVE INTERNATIONAL CORPORATION, US  
[85] 2020-07-27  
[86] 2019-01-28 (PCT/US2019/015466)  
[87] (WO2019/152325)  
[30] US (62/626,278) 2018-02-05

[21] **3,089,759**  
[13] A1

[51] **Int.Cl. A61M 25/088 (2006.01) A61M 25/00 (2006.01) A61M 25/09 (2006.01)**

[25] EN

[54] **CATHETER SYSTEMS FOR ACCESSING THE BRAIN FOR TREATMENT OF ISCHEMIC STROKE**

[54] **SYSTEMES DE CATHETER POUR ACCEDER AU CERVEAU EN VUE DU TRAITEMENT D'UN ACCIDENT ISCHEMIQUE CEREBRAL**

[72] GOYAL, MAYANK, CA  
[71] MG STROKE ANALYTICS INC., CA  
[85] 2020-07-21  
[86] 2018-02-09 (PCT/CA2018/050151)  
[87] (WO2018/145212)

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[21] **3,089,760**  
[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01) A01G 9/16 (2006.01) F24F 7/08 (2006.01) F24F 13/02 (2006.01) F24F 13/06 (2006.01)**

[25] EN

[54] **AIRFLOW SYSTEM AND METHOD FOR A CHAMBER**

[54] **SYSTEME ET PROCEDE D'ECOULEMENT D'AIR POUR UNE CHAMBRE**

[72] GAGNON, RENEE, CA

[72] FERGUSON, DANA, CA

[72] GILBERT, NEIL, CA

[71] TERRACUBE INTERNATIONAL INC., CA

[85] 2020-07-28

[86] 2019-01-31 (PCT/CA2019/050118)

[87] (WO2019/148280)

[30] US (62/624,675) 2018-01-31

[21] **3,089,761**  
[13] A1

[51] **Int.Cl. G06F 21/50 (2013.01) G06F 3/0481 (2013.01) H04L 12/22 (2006.01) H04L 12/24 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR CYBER-MONITORING AND VISUALLY DEPICTING CYBER-ACTIVITIES**

[54] **PROCEDES ET SYSTEMES DE CYBERSURVEILLANCE ET DE REPRESENTATION VISUELLE DE CYBERACTIVITES**

[72] DE JESUS, TIAGO ALVES, CA

[71] CYBER DEFENCE QCD CORPORATION, CA

[85] 2020-07-28

[86] 2019-02-27 (PCT/CA2019/050233)

[87] (WO2019/165548)

[30] US (62/636,368) 2018-02-28

[30] US (62/696,896) 2018-07-12

[21] **3,089,762**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/395 (2006.01) A61K 31/5025 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/55 (2006.01) A61K 31/551 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **GCN2 INHIBITORS AND USES THEREOF**

[54] **INHIBITEURS DE GCN2 ET LEURS UTILISATIONS**

[72] BAYLY, ANDREW, GB

[72] BLEICH, MATTHEW, US

[72] CHARRIER, JEAN-DAMIEN, GB

[72] DODD, JAMES, GB

[72] DURRANT, STEVEN, GB

[72] ENO, MEREDITH SUZANNE, US

[72] ETXEBARRIA I JARDI, GORKA, GB

[72] EVERITT, SIMON, GB

[72] FRAYSSE, DAMIEN, GB

[72] KELLY, SHAZIA, GB

[72] KNEGTEL, RONALD, GB

[72] MOCHALKIN, IGOR, US

[72] MORTIMORE, MICHAEL, GB

[72] NORTH, KIRI, GB

[72] PORICHIS, FILIPPOS, US

[72] PULLIN, ROBERT, GB

[72] RUTHERFORD, ALISTAIR, GB

[72] STORCK, PIERRE-HENRI, GB

[72] TWIN, HEATHER CLARE, GB

[72] XIAO, YUFANG, US

[71] MERCK PATENT GMBH, DE

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2020-07-27

[86] 2019-01-28 (PCT/US2019/015469)

[87] (WO2019/148132)

[30] US (62/623,299) 2018-01-29

[21] **3,089,763**  
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 9/00 (2006.01) A61K 9/107 (2006.01)**

[25] EN

[54] **ENCAPSULATED CANNABINOID FORMULATIONS FOR ORAL DELIVERY**

[54] **FORMULATIONS DE CANNABINOIDES ENCAPSULEES POUR ADMINISTRATION ORALE**

[72] SALM, JACQUELINE I., US

[72] WITOWSKI, CHRISTOPHER G., US

[71] NUTRAE, LLC, US

[85] 2020-07-10

[86] 2019-01-11 (PCT/US2019/013376)

[87] (WO2019/140323)

[30] US (62/617,003) 2018-01-12

[21] **3,089,765**  
[13] A1

[51] **Int.Cl. G06F 11/14 (2006.01) G06F 9/455 (2018.01) G06F 11/20 (2006.01)**

[25] EN

[54] **METHODS, APPARATUSES AND SYSTEMS FOR CLOUD-BASED DISASTER RECOVERY**

[54] **PROCEDES, APPAREILS ET SYSTEMES DE REPRISE APRES SINISTRE EN NUAGE**

[72] SAVINO, TREVOR, US

[72] HART, JAMES PATRICK, US

[72] FURNISS, JUSTIN, US

[71] STORAGE ENGINE, INC., US

[85] 2020-07-27

[86] 2019-01-29 (PCT/US2019/015651)

[87] (WO2019/152403)

[30] US (15/887,043) 2018-02-02

[21] **3,089,766**  
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) G06F 11/22 (2006.01) H04L 29/14 (2006.01)**

[25] EN

[54] **METHODS, APPARATUSES AND SYSTEMS FOR CLOUD-BASED DISASTER RECOVERY TEST**

[54] **PROCEDES, APPAREILS, ET SYSTEMES POUR L'EXECUTION D'UN TEST DE REPRISE APRES SINISTRE EN NUAGE**

[72] SAVINO, TREVOR, US

[72] HART, JAMES PATRICK, US

[72] FURNISS, JUSTIN, US

[71] STORAGE ENGINE, INC., US

[85] 2020-07-27

[86] 2019-01-29 (PCT/US2019/015652)

[87] (WO2019/152404)

[30] US (15/887,032) 2018-02-02



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| [21] <b>3,089,768</b><br>[13] A1                                                                                                 | [21] <b>3,089,769</b><br>[13] A1                                                                                                                                                                      | [21] <b>3,089,771</b><br>[13] A1                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| [51] <b>Int.Cl. C07K 16/22 (2006.01) A61K 39/00 (2006.01)</b>                                                                    | [51] <b>Int.Cl. C07D 471/04 (2006.01) A61K 31/395 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61K 31/5365 (2006.01) A61K 31/5377 (2006.01) A61K 31/551 (2006.01) C07D 519/00 (2006.01)</b> | [51] <b>Int.Cl. B62B 5/06 (2006.01) B62B 3/14 (2006.01)</b>                                                                                   |
| [25] EN                                                                                                                          | [25] EN                                                                                                                                                                                               | [25] EN                                                                                                                                       |
| [54] <b>MUTANT ANTI-CTLA-4 ANTIBODIES WITH IMPROVED IMMUNOTHERAPEUTIC EFFECT BUT ATTENUATED ADVERSE EFFECTS</b>                  | [54] <b>GCN2 INHIBITORS AND USES THEREOF</b>                                                                                                                                                          | [54] <b>MANUALLY MOVABLE SHOPPING TROLLEY</b>                                                                                                 |
| [54] <b>ANTICORPS ANTI-CTLA -4 MUTANTS PRESENTANT UN EFFET IMMUNOTHERAPEUTIQUE AMELIORE MAIS DES EFFETS SECONDAIRES ATTENUES</b> | [54] <b>INHIBITEURS DE GCN2 ET LEURS UTILISATIONS</b>                                                                                                                                                 | [54] <b>CHARIOT D'ACHAT DEPLACABLE MANUELLEMENT</b>                                                                                           |
| [72] LIU, YANG, US                                                                                                               | [72] BLEICH, MATTHEW, US                                                                                                                                                                              | [72] WIETH, FRANZ, DE                                                                                                                         |
| [72] ZHENG, PAN, US                                                                                                              | [72] CHARRIER, JEAN-DAMIEN, GB                                                                                                                                                                        | [72] FILOSI, ANDREAS, DE                                                                                                                      |
| [72] TANG, FEI, US                                                                                                               | [72] DONG, HUIJUN, US                                                                                                                                                                                 | [71] WIETH, FRANZ, DE                                                                                                                         |
| [72] LIU, MINGYUE, US                                                                                                            | [72] DURRANT, STEVEN, GB                                                                                                                                                                              | [71] FILOSI, ANDREAS, DE                                                                                                                      |
| [72] DEVENPORT, MARTIN, US                                                                                                       | [72] ENO, MEREDITH SUZANNE, US                                                                                                                                                                        | [85] 2020-07-28                                                                                                                               |
| [72] DU, XUEXIANG, US                                                                                                            | [72] ETXEBARRIA I JARDI, GORKA, GB                                                                                                                                                                    | [86] 2019-01-29 (PCT/EP2019/052118)                                                                                                           |
| [72] ZHANG, YAN, US                                                                                                              | [72] EVERITT, SIMON, GB                                                                                                                                                                               | [87] (WO2019/145563)                                                                                                                          |
| [71] ONCOIMMUNE, INC., US                                                                                                        | [72] FRAYSSE, DAMIEN, GB                                                                                                                                                                              | [30] DE (10 2018 000 657.4) 2018-01-29                                                                                                        |
| [71] UNIVERSITY OF MARYLAND, BALTIMORE, US                                                                                       | [72] KNEGTEL, RONALD, GB                                                                                                                                                                              |                                                                                                                                               |
| [85] 2020-07-27                                                                                                                  | [72] MOCHALKIN, IGOR, US                                                                                                                                                                              | [21] <b>3,089,776</b><br>[13] A1                                                                                                              |
| [86] 2019-01-29 (PCT/US2019/015686)                                                                                              | [72] NORTH, KIRI, GB                                                                                                                                                                                  | [51] <b>Int.Cl. B08B 5/02 (2006.01) B33Y 40/00 (2020.01) B29C 64/35 (2017.01) B08B 5/04 (2006.01) B08B 7/02 (2006.01) B24C 3/32 (2006.01)</b> |
| [87] (WO2019/152423)                                                                                                             | [72] PORICHIS, FILIPPOS, US                                                                                                                                                                           | [25] EN                                                                                                                                       |
| [30] US (62/625,662) 2018-02-02                                                                                                  | [72] PULLIN, ROBERT, GB                                                                                                                                                                               | [54] <b>DEVICE AND METHOD FOR TREATING 3D POWDER PRINTING ELEMENTS</b>                                                                        |
| [30] US (62/647,123) 2018-03-23                                                                                                  | [72] QIU, HUI, US                                                                                                                                                                                     | [54] <b>DISPOSITIF ET PROCEDE DE TRAITEMENT D'ELEMENTS D'IMPRESSIION A POUDRE 3D</b>                                                          |
| [30] US (62/754,781) 2018-11-02                                                                                                  | [72] STORCK, PIERRE-HENRI, GB                                                                                                                                                                         | [72] MONACO, LUIGI, DE                                                                                                                        |
|                                                                                                                                  | [72] TWIN, HEATHER CLARE, GB                                                                                                                                                                          | [72] ECKSTEIN, HARALD, DE                                                                                                                     |
|                                                                                                                                  | [72] XIAO, YUFANG, US                                                                                                                                                                                 | [71] MONACO, LUIGI, DE                                                                                                                        |
|                                                                                                                                  | [71] MERCK PATENT GMBH, DE                                                                                                                                                                            | [71] ECKSTEIN, HARALD, DE                                                                                                                     |
|                                                                                                                                  | [71] VERTEX PHARMACEUTICALS INCORPORATED, US                                                                                                                                                          | [85] 2020-07-28                                                                                                                               |
|                                                                                                                                  | [85] 2020-07-27                                                                                                                                                                                       | [86] 2019-02-01 (PCT/DE2019/000023)                                                                                                           |
|                                                                                                                                  | [86] 2019-01-28 (PCT/US2019/015473)                                                                                                                                                                   | [87] (WO2019/149305)                                                                                                                          |
|                                                                                                                                  | [87] (WO2019/148136)                                                                                                                                                                                  | [30] DE (102108000814.3) 2018-02-01                                                                                                           |
|                                                                                                                                  | [30] US (62/623,312) 2018-01-29                                                                                                                                                                       |                                                                                                                                               |
|                                                                                                                                  | [21] <b>3,089,770</b><br>[13] A1                                                                                                                                                                      |                                                                                                                                               |
|                                                                                                                                  | [51] <b>Int.Cl. E05B 15/00 (2006.01) E05B 1/00 (2006.01) E05B 17/00 (2006.01)</b>                                                                                                                     |                                                                                                                                               |
|                                                                                                                                  | [25] EN                                                                                                                                                                                               |                                                                                                                                               |
|                                                                                                                                  | [54] <b>TRIM ASSEMBLY FOR A DOOR LOCK AND METHOD OF ASSEMBLING A HANDLE THEREOF</b>                                                                                                                   |                                                                                                                                               |
|                                                                                                                                  | [54] <b>ENSEMBLE GARNITURE POUR UNE SERRURE DE PORTE ET PROCEDE D'ASSEMBLAGE D'UNE POIGNEE DE CE DERNIER</b>                                                                                          |                                                                                                                                               |
|                                                                                                                                  | [72] MAGNAN, PATRICE, CA                                                                                                                                                                              |                                                                                                                                               |
|                                                                                                                                  | [71] DORMAKABA CANADA INC., CA                                                                                                                                                                        |                                                                                                                                               |
|                                                                                                                                  | [85] 2020-07-28                                                                                                                                                                                       |                                                                                                                                               |
|                                                                                                                                  | [86] 2019-06-26 (PCT/CA2019/050885)                                                                                                                                                                   |                                                                                                                                               |
|                                                                                                                                  | [87] (WO2020/010438)                                                                                                                                                                                  |                                                                                                                                               |
|                                                                                                                                  | [30] US (62/697,157) 2018-07-12                                                                                                                                                                       |                                                                                                                                               |

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[21] **3,089,777**  
[13] A1

[51] **Int.Cl. C07H 1/00 (2006.01) C07H 3/02 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE CONVERSION OF A SOLID MATERIAL CONTAINING HEMICELLULOSE, CELLULOSE AND LIGNIN**  
[54] **PROCEDE DE CONVERSION D'UNE MATIERE SOLIDE CONTENANT DE L'HEMICELLULOSE, DE LA CELLULOSE ET DE LA LIGNINE**  
[72] KERSBULCK, MARTIJN, NL  
[72] MCKAY, BENJAMIN, NL  
[72] GRUTER, GERARDUS JOHANNES MARIA, NL  
[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/EP2019/052407)  
[87] (WO2019/149834)  
[30] NL (2020356) 2018-01-31

[21] **3,089,780**  
[13] A1

[51] **Int.Cl. E04B 2/86 (2006.01)**  
[25] EN  
[54] **CONNECTOR FOR BUILDING STRUCTURES, BUILDING STRUCTURES, PROCESS OF CONSTRUCTION OF BUILDING STRUCTURES**  
[54] **CONNECTEUR POUR STRUCTURES DE BATIMENT, STRUCTURES DE BATIMENT, PROCEDE DE CONSTRUCTION DE STRUCTURES DE BATIMENT**  
[72] CABONI, MICHELE, IT  
[71] CABONI, MICHELE, IT  
[85] 2020-08-07  
[86] 2018-12-26 (PCT/IB2018/060612)  
[87] (WO2019/130214)  
[30] AU (2017279816) 2017-12-25

[21] **3,089,781**  
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 9/20 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**  
[25] EN  
[54] **USE OF COLCHICINE TO INHIBIT TUMOR GROWTH AND METASTASES**  
[54] **UTILISATION DE COLCHICINE POUR INHIBER LA CROISSANCE TUMORALE ET LES METASTASES**  
[72] RIEL, MICHAEL, AE  
[71] MURRAY & POOLE ENTERPRISES, LTD, GI  
[85] 2020-07-28  
[86] 2019-02-01 (PCT/EP2019/052492)  
[87] (WO2019/149884)  
[30] US (62/625,354) 2018-02-02

[21] **3,089,782**  
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **A HEART VALVE THERAPEUTIC DEVICE**  
[54] **DISPOSITIF THERAPEUTIQUE DE VALVULE CARDIAQUE**  
[72] HENEGHAN, PAUL, IE  
[72] MURPHY, BRUCE, IE  
[72] O'KEEFFE, LUCY, IE  
[72] QUINN, MARTIN, IE  
[72] QUINN, CONOR, IE  
[71] THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, AND THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN, IE  
[85] 2020-07-28  
[86] 2019-02-07 (PCT/EP2019/053038)  
[87] (WO2019/154927)  
[30] EP (18156125.9) 2018-02-09  
[30] EP (18192480.4) 2018-09-04

[21] **3,089,784**  
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61K 31/7105 (2006.01) A61K 31/713 (2006.01) A61K 39/21 (2006.01) C07K 14/54 (2006.01) C07K 14/55 (2006.01) C07K 14/565 (2006.01) C07K 14/765 (2006.01) C12N 15/62 (2006.01)**  
[25] EN  
[54] **TREATMENT USING CYTOKINE ENCODING RNA**  
[54] **TRAITEMENT A L'AIDE D'ARN CODANT UNE CYTOKINE**  
[72] SAHIN, UGUR, DE  
[72] KRANZ, LENA, DE  
[72] VORMEHR, MATHIAS, DE  
[72] DIKEN, MUSTAFA, DE  
[72] KREITER, SEBASTIAN, DE  
[72] TILLMANN, BODO, DE  
[71] BIONTECH RNA PHARMACEUTICALS GMBH, DE  
[71] TRON-TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE  
[85] 2020-07-28  
[86] 2019-02-08 (PCT/EP2019/053134)  
[87] (WO2019/154985)  
[30] EP (PCT/EP2018/053454) 2018-02-12

[21] **3,089,785**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61M 15/08 (2006.01)**  
[25] FR  
[54] **METHOD FOR MONITORING THE DISPENSING OF A DROP AND ASSISTANCE DEVICE**  
[54] **PROCEDE DE SURVEILLANCE DE LA DISTRIBUTION D'UNE GOUTTE ET DISPOSITIF D'ASSISTANCE**  
[72] DECOCK, THIERRY, FR  
[71] NEMERA LA VERPILLIERE, FR  
[85] 2020-07-28  
[86] 2019-02-05 (PCT/EP2019/052767)  
[87] (WO2019/154803)  
[30] FR (18/50986) 2018-02-06

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|                                                                                                                         |                                                                                                                                                                   |                                                                                                          |
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| [21] <b>3,089,788</b><br>[13] A1                                                                                        | [21] <b>3,089,793</b><br>[13] A1                                                                                                                                  | [21] <b>3,089,795</b><br>[13] A1                                                                         |
| [51] <b>Int.Cl. C12M 1/12 (2006.01) C12M 1/00 (2006.01) C12M 1/04 (2006.01) C12M 1/34 (2006.01) C12M 1/42 (2006.01)</b> | [51] <b>Int.Cl. A62C 2/06 (2006.01) A62C 3/16 (2006.01) F16L 5/04 (2006.01)</b>                                                                                   | [51] <b>Int.Cl. C07K 16/42 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/00 (2006.01)</b> |
| [25] EN                                                                                                                 | [25] EN                                                                                                                                                           | [25] EN                                                                                                  |
| [54] <b>BIOPROCESSING METHODS FOR CELL THERAPY</b>                                                                      | [54] <b>FIRE PROTECTION DEVICE AND FIRE PERFECTION ASSEMBLY</b>                                                                                                   | [54] <b>ANTI-CTLA4 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME</b>                               |
| [54] <b>PROCEDES DE BIOTRAITEMENT POUR THERAPIE CELLULAIRE</b>                                                          | [54] <b>DISPOSITIF DE PROTECTION CONTRE L'INCENDIE AINSI QUE MODULE DE PROTECTION CONTRE L'INCENDIE</b>                                                           | [54] <b>ANTICORPS ANTI-CTLA4 ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION</b>                       |
| [72] CORWIN, ALEX D, US                                                                                                 | [72] SIMON, SEBASTIAN, DE                                                                                                                                         | [72] LUO, PETER PEIZHI, CN                                                                               |
| [72] SMITH, REGINALD DONOVAN, US                                                                                        | [71] HILTI AKTIENGESSELLSCHAFT, LI                                                                                                                                | [72] DU, FANGYONG, CN                                                                                    |
| [72] KESKAR, VANDANA, US                                                                                                | [85] 2020-07-28                                                                                                                                                   | [72] PAN, ZHONGZONG, CN                                                                                  |
| [72] DAVIS, BRIAN MICHAEL, US                                                                                           | [86] 2019-03-14 (PCT/EP2019/056417)                                                                                                                               | [72] LIU, GUIZHONG, CN                                                                                   |
| [72] SHAIKH, KASHAN, US                                                                                                 | [87] (WO2019/179873)                                                                                                                                              | [71] ADAGENE INC., KY                                                                                    |
| [72] GRIFFIN, WESTON BLAINE, US                                                                                         | [30] EP (18163071.6) 2018-03-21                                                                                                                                   | [85] 2020-07-28                                                                                          |
| [72] ZHANG, XIAOHUA, US                                                                                                 |                                                                                                                                                                   | [86] 2019-02-02 (PCT/CN2019/074580)                                                                      |
| [72] LIU, ZHEN, US                                                                                                      | [21] <b>3,089,794</b><br>[13] A1                                                                                                                                  | [87] (WO2019/149281)                                                                                     |
| [72] ZHANG, CHENGGUN, US                                                                                                | [51] <b>Int.Cl. C02F 11/12 (2019.01) C02F 1/52 (2006.01) C02F 1/56 (2006.01)</b>                                                                                  | [30] CN (PCT/CN2018/075064) 2018-02-02                                                                   |
| [71] GLOBAL LIFE SCIENCES SOLUTIONS USA LLC, US                                                                         | [25] EN                                                                                                                                                           |                                                                                                          |
| [85] 2020-07-28                                                                                                         | [54] <b>A METHOD AND A SYSTEM FOR PROVIDING AT LEAST ONE INPUT PARAMETER OF SLUDGE DEWATERING PROCESS OF A WASTEWATER TREATMENT PLANT</b>                         | [21] <b>3,089,797</b><br>[13] A1                                                                         |
| [86] 2019-02-08 (PCT/EP2019/053210)                                                                                     | [54] <b>PROCEDE ET SYSTEME POUR FOURNIR AU MOINS UN PARAMETRE D'ENTREE D'UN PROCESSUS DE DESHYDRATATION DE BOUE D'UNE INSTALLATION DE TRAITEMENT D'EAUX USEES</b> | [51] <b>Int.Cl. B61G 1/36 (2006.01)</b>                                                                  |
| [87] (WO2019/155031)                                                                                                    | [72] KILJUNEN, SAMANTHA, FI                                                                                                                                       | [25] EN                                                                                                  |
| [30] US (15/893,336) 2018-02-09                                                                                         | [72] KARPOVA, TATJANA, FI                                                                                                                                         | [54] <b>RAILWAY VEHICLE, COUPLER, AND COUPLER BODY THEREOF</b>                                           |
| [30] US (62/736,115) 2018-09-25                                                                                         | [72] HAVANSI, HANNELE, FI                                                                                                                                         | [54] <b>VEHICULE FERROVIAIRE, COUPLEUR ET CORPS DE COUPLEUR ASSOCIE</b>                                  |
| [30] US (62/736,125) 2018-09-25                                                                                         | [72] RECKTENWALD, MICHAEL, FI                                                                                                                                     | [72] CUI, YINGJUN, CN                                                                                    |
| [30] US (62/736,130) 2018-09-25                                                                                         | [71] KEMIRA OYJ, FI                                                                                                                                               | [72] JIANG, YAN, CN                                                                                      |
| [30] US (62/736,120) 2018-09-25                                                                                         | [85] 2020-07-28                                                                                                                                                   | [72] JIN, PENGDI, CN                                                                                     |
| [30] US (62/736,144) 2018-09-25                                                                                         | [86] 2019-01-31 (PCT/FI2019/050071)                                                                                                                               | [72] WANG, YAN, CN                                                                                       |
| [30] US (62/736,154) 2018-09-25                                                                                         | [87] (WO2019/150002)                                                                                                                                              | [72] WANG, CHANGCHUN, CN                                                                                 |
| [30] US (62/736,143) 2018-09-25                                                                                         | [30] FI (20185097) 2018-02-02                                                                                                                                     | [72] MENG, QINGMIN, CN                                                                                   |
|                                                                                                                         |                                                                                                                                                                   | [71] CRRC QIQIHAR ROLLING STOCK CO., LTD., CN                                                            |
| [21] <b>3,089,790</b><br>[13] A1                                                                                        |                                                                                                                                                                   | [85] 2020-07-28                                                                                          |
| [51] <b>Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01)</b>                                                          |                                                                                                                                                                   | [86] 2019-06-26 (PCT/CN2019/092974)                                                                      |
| [25] EN                                                                                                                 |                                                                                                                                                                   | [87] (WO2020/001469)                                                                                     |
| [54] <b>PARVOVIRUS STRUCTURAL PROTEIN FOR THE TREATMENT OF AUTOIMMUNE DISEASES</b>                                      |                                                                                                                                                                   | [30] CN (201810700562.5) 2018-06-29                                                                      |
| [54] <b>PROTEINE STRUCTURALE DE PARVOVIRUS POUR LE TRAITEMENT DE MALADIES AUTO-IMMUNES</b>                              |                                                                                                                                                                   | [30] CN (201821029251.2) 2018-06-29                                                                      |
| [72] PRANGSGAARD, JEANETTE, DK                                                                                          |                                                                                                                                                                   |                                                                                                          |
| [71] 2A PHARMA AB, SE                                                                                                   |                                                                                                                                                                   |                                                                                                          |
| [85] 2020-07-28                                                                                                         |                                                                                                                                                                   |                                                                                                          |
| [86] 2019-02-14 (PCT/EP2019/053649)                                                                                     |                                                                                                                                                                   |                                                                                                          |
| [87] (WO2019/158636)                                                                                                    |                                                                                                                                                                   |                                                                                                          |
| [30] EP (18157083.9) 2018-02-16                                                                                         |                                                                                                                                                                   |                                                                                                          |
| [30] EP (18176976.1) 2018-06-11                                                                                         |                                                                                                                                                                   |                                                                                                          |

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[13] A1

[51] **Int.Cl. H04M 1/04 (2006.01) B60R 11/02 (2006.01) F16M 11/04 (2006.01)**  
[25] EN  
[54] **UNIVERSAL BRACKET FOR A TELECOMMUNICATION TERMINAL**  
[54] **SUPPORT UNIVERSEL POUR UN TERMINAL DE TELECOMMUNICATIONS**  
[72] WIETH, FRANZ, DE  
[72] FILOSI, ANDREAS, DE  
[71] WIETH, FRANZ, DE  
[71] FILOSI, ANDREAS, DE  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/EP2019/052119)  
[87] (WO2019/145564)  
[30] DE (10 2018 000 658.2) 2018-01-29

[21] **3,089,799**  
[13] A1

[51] **Int.Cl. C12N 1/18 (2006.01) C12N 9/12 (2006.01) C12N 9/90 (2006.01) C12P 7/08 (2006.01)**  
[25] EN  
[54] **YEAST CELL CAPABLE OF SIMULTANEOUSLY FERMENTING HEXOSE AND PENTOSE SUGARS**  
[54] **CELLULE DE LEVURE CAPABLE DE FERMENTER SIMULTANEMENT DES SUCRES HEXOSE ET PENTOSE**  
[72] VAN MARIS, ANTONIUS JEROEN ADRIAAN, SE  
[72] PRONK, JACOBUS THOMAS, NL  
[72] VERHOEVEN, MAARTEN DIRK, NL  
[72] PAPAPETRIDIS, IOANNIS, NL  
[71] DSM IP ASSETS B.V., NL  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/EP2019/052307)  
[87] (WO2019/149789)  
[30] EP (18154587.2) 2018-02-01  
[30] EP (18166976.3) 2018-04-12

[21] **3,089,800**  
[13] A1

[51] **Int.Cl. C08L 77/02 (2006.01) C08L 77/06 (2006.01)**  
[25] EN  
[54] **USE OF POLYHYDRIC ALCOHOLS TO INCREASE WELD SEAM AFTER THERMAL AGING IN POLYAMIDES**  
[54] **UTILISATION D'ALCOOLS POLYVALENTS POUR AUGMENTER LA RESISTANCE DE LIGNE DE LIAISON APRES VIEILLISSEMENT THERMIQUE DANS DES POLYAMIDES**  
[72] WAGNER, SEBASTIAN, DE  
[72] ROTH, MICHAEL, DE  
[72] MOCHEV, STEFAN, DE  
[71] BASF SE, DE  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/EP2019/052313)  
[87] (WO2019/149791)  
[30] EP (18154889.2) 2018-02-02

[21] **3,089,801**  
[13] A1

[51] **Int.Cl. H01S 5/00 (2006.01) H01S 5/02 (2006.01) H01S 5/06 (2006.01) H01S 5/10 (2006.01) H01S 5/12 (2006.01) H01S 5/14 (2006.01)**  
[25] EN  
[54] **WAVELENGTH DETERMINATION FOR WIDELY TUNABLE LASERS AND LASER SYSTEMS THEREOF**  
[54] **DETERMINATION DE LONGUEUR D'ONDE POUR LASERS LARGEMENT ACCORDABLES ET SYSTEMES LASER ASSOCIES**  
[72] VIZBARAS, AUGUSTINAS, LT  
[72] □IMONYTE, IEVA, LT  
[72] DE GROOTE, ANDREAS, BE  
[72] VIZBARAS, KRISTIJonas, LT  
[71] BROLIS SENSOR TECHNOLOGY, UAB, LT  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/EP2019/052367)  
[87] (WO2019/149815)  
[30] US (62/625,696) 2018-02-02

[21] **3,089,802**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHOD FOR THE DIAGNOSIS OF HEREDITARY ANGIOEDEMA**  
[54] **METHODE DE DIAGNOSTIC D'□DEME DE QUINCKE HEREDITAIRE**  
[72] COZMA, CLAUDIA, DE  
[71] CENTOGENE GMBH, DE  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/EP2019/052369)  
[87] (WO2019/149816)  
[30] EP (18154450.3) 2018-01-31

[21] **3,089,803**  
[13] A1

[51] **Int.Cl. C12Q 1/6895 (2018.01)**  
[25] EN  
[54] **METHODS FOR DETECTING FUNGI IN TURF GRASS WITH A LAMP ASSAY HAVING NOVEL PRIMER SETS**  
[54] **PROCEDES DE DETECTION DE CHAMPIGNONS DANS L'HERBE A GAZON AVEC UN TEST LAMP COMPRENANT DE NOUVEAUX ENSEMBLES D'AMORCES**  
[72] PALMISANO, MARILENA, CH  
[72] WOHLER, CHRISTIAN, CH  
[71] SYNGENTA PARTICIPATIONS AG, CH  
[85] 2020-07-28  
[86] 2019-02-05 (PCT/EP2019/052803)  
[87] (WO2019/149963)  
[30] EP (18155093.0) 2018-02-05  
[30] EP (18159821.0) 2018-03-02

[21] **3,089,804**  
[13] A1

[51] **Int.Cl. A61K 31/565 (2006.01) A61P 15/18 (2006.01)**  
[25] EN  
[54] **CONTRACEPTIVE COMPOSITION WITH REDUCED CARDIOVASCULAR EFFECTS**  
[54] **COMPOSITION CONTRACEPTIVE PRESENTANT DES EFFETS CARDIOVASCULAIRES REDUITS**  
[72] JOST, MAUD, BE  
[72] RAUSIN, GLWADYS, BE  
[71] ESTETRA SPRL, BE  
[85] 2020-07-28  
[86] 2019-02-07 (PCT/EP2019/052980)  
[87] (WO2019/154899)  
[30] EP (18155571.5) 2018-02-07  
[30] EP (18160586.6) 2018-03-07

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[21] **3,089,805**  
[13] A1

[51] **Int.Cl. F16H 55/08 (2006.01) F16H 1/28 (2006.01) F16H 1/26 (2006.01) F16H 1/46 (2006.01)**

[25] EN

[54] **PLANETARY GEARBOX HAVING SINGLE-TOOTH SUN GEAR HAVING EVOLOID TOOTHING**

[54] **ENGRENAGE PLANETAIRE POURVU D'UN PIGNON PLANETAIRE A UNE DENT AYANT UNE DENTURE EVOLOIDE**

[72] MAUL, HANS-ERICH, DE

[71] MAUL KONSTRUKTIONEN GMBH, DE

[85] 2020-07-28

[86] 2019-03-14 (PCT/EP2019/056389)

[87] (WO2019/179869)

[30] DE (10 2018 107 021.7) 2018-03-23

[21] **3,089,806**  
[13] A1

[51] **Int.Cl. H01L 39/16 (2006.01) H02H 7/00 (2006.01)**

[25] EN

[54] **MONITORING DEVICE FOR CRYOGENIC SYSTEM**

[54] **DISPOSITIF DE SURVEILLANCE POUR SYSTEME CRYOGENIQUE**

[72] BRITTLES, GREG, GB

[72] SLADE, ROBERT, GB

[72] KRUIP, MARCEL, GB

[72] VAN NUGTEREN, BAS, GB

[71] TOKAMAK ENERGY LTD, GB

[85] 2020-07-28

[86] 2019-01-30 (PCT/GB2019/050241)

[87] (WO2019/150091)

[30] GB (1801476.1) 2018-01-30

[30] GB (1812120.2) 2018-07-25

[21] **3,089,807**  
[13] A1

[51] **Int.Cl. G10H 3/18 (2006.01)**

[25] EN

[54] **MIXER APPARATUS**

[54] **APPAREIL MELANGEUR**

[72] HOCHFIELD, BARRY, GB

[72] LEESE, MARK JOHN, GB

[71] EVERYTONE LIMITED, GB

[85] 2020-07-28

[86] 2019-02-07 (PCT/GB2019/050339)

[87] (WO2019/155221)

[30] GB (1802020.6) 2018-02-07

[21] **3,089,808**  
[13] A1

[51] **Int.Cl. E21B 47/022 (2012.01) E21B 47/024 (2006.01)**

[25] EN

[54] **DETERMINING A RELATIVE WELLBORE LOCATION UTILIZING A WELL SHOE HAVING A RANGING SOURCE**

[54] **DETERMINATION D'UN EMPLACEMENT RELATIF DE Puits DE Forage A L'AIDE D'UN SABOT DE GUIDAGE DE Puits Ayant Une Source De Telemetrie**

[72] SANKARAN, VENKATARAMAN, US

[72] CHANPURA, REENA AGARWAL, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2020-07-28

[86] 2018-03-06 (PCT/US2018/021138)

[87] (WO2019/172889)

[21] **3,089,809**  
[13] A1

[51] **Int.Cl. A61K 31/409 (2006.01) A61K 31/05 (2006.01) A61K 49/00 (2006.01) A61P 31/04 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL TREATMENT AND DIAGNOSTIC COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT ET DE DIAGNOSTIC MULTIFONCTIONNELS**

[72] ZAMADAR, MATIBUR RAHAMAN, US

[71] ZAMADAR, MATIBUR RAHAMAN, US

[85] 2020-07-28

[86] 2018-03-26 (PCT/US2018/024338)

[87] (WO2019/190459)

[21] **3,089,810**  
[13] A1

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/10 (2006.01) B23K 9/12 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR AUTOMATIC ENGINE CONTROL**

[54] **PROCEDES ET APPAREIL DE COMMANDE AUTOMATIQUE DE MOTEUR**

[72] IHDE, JEFFREY R., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2020-07-28

[86] 2019-01-15 (PCT/US2019/013578)

[87] (WO2019/156780)

[30] US (15/890,537) 2018-02-07

[21] **3,089,811**  
[13] A1

[51] **Int.Cl. C08J 5/04 (2006.01) B32B 27/08 (2006.01) B32B 27/38 (2006.01) C08J 5/24 (2006.01)**

[25] EN

[54] **PREPREG FOR USE IN MAKING COMPOSITE PARTS WHICH TOLERATE HOT AND WET CONDITIONS**

[54] **PREIMPREGNE DESTINE A ETRE UTILISE DANS LA FABRICATION DE PIECES COMPOSITES QUI SUPPORTENT DES CONDITIONS CHAUDES ET HUMIDES**

[72] WANG, YEN-SEINE, US

[72] EMMERSON, GORDON, US

[71] HEXCEL CORPORATION, US

[85] 2020-07-28

[86] 2019-01-16 (PCT/US2019/013794)

[87] (WO2019/152190)

[30] US (15/886,008) 2018-02-01

[30] US (16/158,151) 2018-10-11

[21] **3,089,812**  
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) F16M 11/24 (2006.01)**

[25] EN

[54] **VERTICAL SUPPORT BRACKET FOR SELF-LEVELING DEVICES**

[54] **SUPPORT AJUSTABLE POUR DES DISPOSITIFS ELECTRIQUES**

[72] HOYLE, GARY C., US

[71] G.C. HOYLE COMPANY LLC, US

[85] 2020-07-28

[86] 2019-01-24 (PCT/US2019/014911)

[87] (WO2019/152250)

[30] US (15/884,487) 2018-01-31

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[21] **3,089,813**  
[13] A1

[51] **Int.Cl. E02B 3/10 (2006.01) E01F 15/08 (2006.01) E02B 3/04 (2006.01) E02B 7/06 (2006.01) E02B 7/10 (2006.01)**

[25] EN

[54] **STRUCTURE SUPPORTED CONTAINMENT DIKE**

[54] **DIGUE DE CONFINEMENT SUPPORTEE PAR UNE STRUCTURE**

[72] VICKERS, PAUL, CA

[71] P.V. FLOOD CONTROL CORP., CA

[85] 2020-07-28

[86] 2019-01-24 (PCT/US2019/015037)

[87] (WO2019/152254)

[30] US (15/885,689) 2018-01-31

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[21] **3,089,814**  
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/062 (2006.01)**

[25] EN

[54] **SUTURING DEVICE FOR MINIMALLY INVASIVE SURGERY AND NEEDLES AND METHODS THEREOF**

[54] **DISPOSITIF DE SUTURE POUR CHIRURGIE A EFFRACTION MINIMALE ET AIGUILLES ET PROCEDES ASSOCIES**

[72] SAUER, JUDE S., US

[72] WRONA, MATTHEW R., US

[71] LSI SOLUTIONS, INC., US

[85] 2020-07-28

[86] 2019-01-28 (PCT/US2019/015430)

[87] (WO2019/152317)

[30] US (62/622,923) 2018-01-28

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[21] **3,089,816**  
[13] A1

[51] **Int.Cl. C07K 14/00 (2006.01) A61K 47/68 (2017.01) A61K 38/17 (2006.01) A61P 25/28 (2006.01) C07K 14/47 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01) C12N 15/11 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **BLOOD-BRAIN BARRIER TRANSMIGRATING COMPOUNDS AND USES THEREOF**

[54] **COMPOSES FRANCHISSANT LA BARRIERE HEMATO-ENCEPHALIQUE ET LEURS UTILISATIONS**

[72] CHAKRAVARTHY, BALU, CA

[72] STANIMIROVIC, DANICA, CA

[72] DUROCHER, YVES, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2020-07-28

[86] 2018-07-31 (PCT/IB2018/055747)

[87] (WO2019/150183)

[30] IB (PCT/IB2018/050576) 2018-01-30

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[21] **3,089,817**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/70 (2006.01)**

[25] EN

[54] **BIOMARKERS AND CLASSIFICATION ALGORITHMS FOR CHRONIC KIDNEY DISEASE IN CATS**

[54] **BIOMARQUEURS ET ALGORITHMES DE CLASSIFICATION DE MALADIE RENALE CHRONIQUE CHEZ LES CHATS**

[72] BRADLEY, RICHARD, GB

[72] TAGKOPOULOS, LLIAS, US

[72] BIOURGE, VINCENT, FR

[72] FEUGIER, ALEXANDRE, FR

[72] DELMOTTE, SEBASTIEN, FR

[71] MARS, INCORPORATED, US

[85] 2020-07-08

[86] 2019-01-21 (PCT/US2019/014427)

[87] (WO2019/144081)

[30] US (62/619,681) 2018-01-19

[30] US (62/698,046) 2018-07-14

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[13] A1

[51] **Int.Cl. G01N 37/00 (2006.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**

[25] EN

[54] **CHEMICAL SENSING SYSTEM**

[54] **SYSTEME DE DETECTION CHIMIQUE**

[72] KHOMAMI ABADI, MOJTABA, CA

[72] GAHROOSI, AMIR BAHADOR, CA

[72] GOULD, MATTHEW V., CA

[72] MASILAMANI, ASHOK PRABHU, CA

[71] STRATUSCENT INC., CA

[85] 2020-07-28

[86] 2019-01-29 (PCT/IB2019/000107)

[87] (WO2019/145791)

[30] US (62/623,440) 2018-01-29

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[21] **3,089,819**  
[13] A1

[51] **Int.Cl. C08F 220/06 (2006.01) C08G 71/02 (2006.01)**

[25] EN

[54] **UV-CURABLE NON-ISOCYANATE POLYUREA POLYMER AND UV-CURABLE COATING COMPOSITION CONTAINING THE SAME**

[54] **POLYMERE DE POLYUREE NON ISOCYANATE DURCISSABLE PAR UV ET COMPOSITION DE REVETEMENT DURCISSABLE PAR UV LE CONTENANT**

[72] XIE, HAN, CN

[72] FAN, SHIGANG, CN

[72] ZHAO, XI, CN

[71] GUANGDONG HUARUN PAINTS CO., LTD, CN

[85] 2020-07-28

[86] 2019-02-08 (PCT/IB2019/000126)

[87] (WO2019/155281)

[30] CN (201810127536.8) 2018-02-08

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[21] **3,089,820**  
[13] A1

[51] **Int.Cl. B65D 8/16 (2006.01) B21D 51/26 (2006.01) B21D 51/44 (2006.01) B32B 15/01 (2006.01) B32B 15/09 (2006.01) B32B 15/098 (2006.01) B65D 25/14 (2006.01) C12G 1/04 (2006.01)**

[25] EN  
[54] **ALUMINUM WINE CONTAINER RECIPIENT EN ALUMINIUM POUR DU VIN**

[72] KITOU, SATORU, JP  
[72] NAGAI, NOBUHIKO, JP  
[72] YOSHINO, CHIAKI, JP  
[72] TAKEHARU, HITOSHI, JP  
[72] YAOI, ETSUKO, JP  
[71] TOYO SEIKAN CO., LTD., JP  
[85] 2020-07-28  
[86] 2019-01-28 (PCT/JP2019/002771)  
[87] (WO2019/151189)  
[30] JP (2018-017418) 2018-02-02

[21] **3,089,822**  
[13] A1

[51] **Int.Cl. A63F 3/06 (2006.01) G07F 17/32 (2006.01)**

[25] EN  
[54] **LOTTERY USING SMALL POOL OF SYMBOLS LOTERIE UTILISANT UN PETIT GROUPE DE SYMBOLES**

[72] REID, JOHN ANTHONY, NZ  
[71] L2W LIMITED, IM  
[85] 2020-07-28  
[86] 2019-02-05 (PCT/NZ2019/050008)  
[87] (WO2019/156573)  
[30] NZ (739727) 2018-02-07  
[30] NZ (741302) 2018-04-04

[21] **3,089,823**  
[13] A1

[51] **Int.Cl. C13B 40/00 (2011.01) C13B 50/00 (2011.01)**

[25] EN  
[54] **AMORPHOUS SUGAR COMPOSITION COMPOSITION DE SUCRE AMORPHE**

[72] KANNAR, DAVID, SG  
[72] WOO, MENG WAI, SG  
[72] SUN, YONGMEI, SG  
[71] NUTRITION SCIENCE DESIGN PTE. LTD, SG  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/SG2019/050057)  
[87] (WO2019/151951)  
[30] SG (10201800837U) 2018-01-31  
[30] SG (10201809207W) 2018-10-18

[21] **3,089,824**  
[13] A1

[51] **Int.Cl. A61K 38/43 (2006.01) A61K 35/76 (2015.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 15/864 (2006.01)**

[25] EN  
[54] **ADENO-ASSOCIATED VIRUS COMPOSITIONS FOR PAH GENE TRANSFER AND METHODS OF USE THEREOF COMPOSITIONS DE VIRUS ADENO-ASSOCIES POUR TRANSFERT DE GENE DE PAH ET PROCEDES D'UTILISATION**

[72] SEYMOUR, ALBERT BARNES, US  
[72] AHMED, SEEMIN SEHER, US  
[72] WRIGHT, JASON BOKE, US  
[72] DOLLIVE, SERENA NICOLE, US  
[72] RUBIN, HILLARD, US  
[71] HOMOLOGY MEDICINES, INC., US  
[85] 2020-07-28  
[86] 2019-02-01 (PCT/US2019/016351)  
[87] (WO2019/152841)  
[30] US (62/625,150) 2018-02-01

[21] **3,089,825**  
[13] A1

[51] **Int.Cl. A61M 1/02 (2006.01) A61M 1/36 (2006.01) A61M 1/38 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR ISOLATING EXTRACELLULAR VESICLES SYSTEME ET PROCEDE POUR ISOLER DES VESICULES EXTRACELLULAIRES**

[72] KATAKOWSKI, MARK, US  
[72] HOZESKA-SOLGOT, ANN, US  
[71] FOREVER LABS, INC., US  
[85] 2020-07-28  
[86] 2019-01-28 (PCT/US2019/015355)  
[87] (WO2019/148072)  
[30] US (62/623,062) 2018-01-29  
[30] US (62/695,590) 2018-07-09

[21] **3,089,826**  
[13] A1

[51] **Int.Cl. A61K 47/36 (2006.01) A61K 9/16 (2006.01)**

[25] EN  
[54] **LIPID-LIKE NANOCOMPLEXES AND USES THEREOF NANOCOMPLEXES DE TYPE LIPIDE ET LEURS UTILISATIONS**

[72] XU, QIAOBING, US  
[72] LI, YAMIN, US  
[71] TRUSTEES OF TUFTS COLLEGE, US  
[85] 2020-07-28  
[86] 2019-02-01 (PCT/US2019/016362)  
[87] (WO2019/152848)  
[30] US (62/625,153) 2018-02-01

[21] **3,089,827**  
[13] A1

[51] **Int.Cl. A61M 1/06 (2006.01)**

[25] EN  
[54] **BREAST PUMP KIT KIT DE TIRE-LAIT**

[72] LEVINE, SHERRI, US  
[71] LEVINE, SHERRI, US  
[85] 2020-07-28  
[86] 2019-01-28 (PCT/US2019/015403)  
[87] (WO2019/148097)  
[30] US (62/623,141) 2018-01-29

[21] **3,089,828**  
[13] A1

[51] **Int.Cl. F26B 21/00 (2006.01) F26B 15/12 (2006.01)**

[25] EN  
[54] **DUAL PATH KILN AND METHOD OF OPERATING A DUAL PATH KILN TO CONTINUOUSLY DRY LUMBER FOUR A DOUBLE TRAJECTOIRE ET PROCEDE DE FONCTIONNEMENT D'UN FOUR A DOUBLE TRAJECTOIRE POUR SECHER EN CONTINU DU BOIS D'UVRE**

[72] BRODIE, T., FURMAN, US  
[72] ANDERSON, JAMES L., US  
[72] STEWART, CHRISTOPHER E., US  
[72] SMOKE, WILLIAM SHAYNE, US  
[72] POLLARD, LEVI ANDERSON, US  
[72] TINSLEY, DOUGLAS MONROE, US  
[71] NOREV DPK, LLC, US  
[85] 2020-07-28  
[86] 2019-01-17 (PCT/US2019/013913)  
[87] (WO2019/147454)  
[30] US (62/623,080) 2018-01-29  
[30] US (16/246,576) 2019-01-14

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[21] **3,089,829**  
[13] A1

[51] **Int.Cl. G16H 20/13 (2018.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DISPENSING MEDICATION**  
[54] **SYSTEME ET PROCEDE DE DISTRIBUTION DE MEDICAMENTS**  
[72] LOEBIG, SCOTT, US  
[72] YAMAGA, CYNTHIA, US  
[72] NAG, ABHIKESH, US  
[71] CAREFUSION 303, INC., US  
[85] 2020-07-28  
[86] 2019-02-01 (PCT/US2019/016414)  
[87] (WO2019/152885)  
[30] US (15/887,222) 2018-02-02

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[21] **3,089,830**  
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR FACILITATING AFFECTIVE-STATE-BASED ARTIFICIAL INTELLIGENCE**  
[54] **SYSTEME ET PROCEDE PERMETTANT DE FACILITER UNE INTELLIGENCE ARTIFICIELLE BASEE SUR UN ETAT AFFECTIF**  
[72] FEINSON, ROY, US  
[72] KATZ, ARIEL MIKHAEL, US  
[72] KARLIN, MICHAEL JOSEPH, US  
[71] EMERGEX, LLC, US  
[85] 2020-07-28  
[86] 2019-01-28 (PCT/US2019/015432)  
[87] (WO2019/148108)  
[30] US (62/623,521) 2018-01-29  
[30] US (62/660,195) 2018-04-19

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[21] **3,089,831**  
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR FORMULATING PERSONALIZED SKINCARE PRODUCTS**  
[54] **SYSTEMES ET PROCEDES POUR FORMULER DES PRODUITS POUR SOINS DE LA PEAU PERSONNALISES**  
[72] SALVI, SID, US  
[72] MAUPIN, MEGHAN, US  
[72] HAGHIGHI, NAVA, US  
[71] ATOLLA SKIN HEALTH, INC., US  
[85] 2020-07-28  
[86] 2019-01-28 (PCT/US2019/015448)  
[87] (WO2019/148116)  
[30] US (62/623,207) 2018-01-29

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[21] **3,089,832**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) C07D 213/61 (2006.01)**  
[25] EN  
[54] **PROCESSES FOR PREPARING (1 - (3-FLUORO-2-(TRIFLUOROMETHYL)ISONICOTINYL)PIPERIDINE-4-ONE)**  
[54] **PROCEDES DE PREPARATION DE (1-(3-FLUORO-2-(TRIFLUOROMETHYL)ISONICOTINYL)PIPERIDINE-4-ONE)**  
[72] WANG, DENGJIN, US  
[72] LIU, PINGLI, US  
[72] WU, YONGZHONG, US  
[72] ZHOU, JIACHENG, US  
[71] INCYTE CORPORATION, US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015582)  
[87] (WO2019/152374)  
[30] US (62/623,664) 2018-01-30

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[21] **3,089,833**  
[13] A1

[51] **Int.Cl. G06F 3/0484 (2013.01)**  
[25] EN  
[54] **LIVE-RENDERED AND FORKABLE GRAPHIC EDIT TRAILS**  
[54] **PISTES D'EDITION GRAPHIQUE RENDUES EN DIRECT ET PERMETTANT DES BIFURCATIONS**  
[72] COLDHAM, ANDREW, US  
[72] VANDENBOS, BENJAMIN, US  
[72] GRANT, PETER, US  
[71] PICMONKEY, LLC, US  
[85] 2020-07-28  
[86] 2019-02-08 (PCT/US2019/017314)  
[87] (WO2019/157354)  
[30] US (15/893,192) 2018-02-09

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[21] **3,089,834**  
[13] A1

[51] **Int.Cl. C07K 14/33 (2006.01) C12N 15/75 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF BOTULINUM NEUROTOXINS USING BACILLUS SYSTEMS**  
[54] **PRODUCTION DE NEUROTOXINES DE BOTULINUM A L'AIDE DE SYSTEMES BACILLUS**  
[72] DONG, MIN, US  
[72] TAO, LIANG, US  
[71] CHILDREN'S MEDICAL CENTER CORPORATION, US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015594)  
[87] (WO2019/152380)  
[30] US (62/623,715) 2018-01-30



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[21] **3,089,836**  
[13] A1

[51] **Int.Cl. A61M 5/168 (2006.01)**  
[25] EN  
[54] **SYSTEMS, APPARATUSES AND METHODS FOR OCCLUSION DETECTION USING PUMP OPERATION MEASUREMENT**  
[54] **SYSTEMES, APPAREILS ET PROCEDES DE DETECTION D'OCCLUSION A L'AIDE D'UNE MESURE DE FONCTIONNEMENT DE POMPE**  
[72] ZHENG, LING, US  
[72] KASHEF, MOJTABA, US  
[72] ISKANDAR, JOSEPH, US  
[72] GURIN, ELIZABETH, US  
[72] SIDDIQUI, UZAIR, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015601)  
[87] (WO2019/156848)  
[30] US (62/626,909) 2018-02-06  
[30] US (62/663,682) 2018-04-27

[21] **3,089,837**  
[13] A1

[51] **Int.Cl. A61M 5/168 (2006.01)**  
[25] EN  
[54] **SYSTEMS, APPARATUSES AND METHODS FOR OCCLUSION DETECTION USING PUMP OPERATION MEASUREMENT**  
[54] **SYSTEMES, APPAREILS ET PROCEDES DE DETECTION D'OCCLUSION AU MOYEN D'UNE MESURE DE FONCTIONNEMENT DE POMPE**  
[72] ZHENG, LING, US  
[72] KASHEF, MOJTABA, US  
[72] SIDDIQUI, UZAIR, US  
[72] LI, JINYAN, US  
[72] SUN, KEPEI, US  
[72] ISKANDAR, JOSEPH, US  
[72] GURIN, ELIZABETH, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015622)  
[87] (WO2019/156852)  
[30] US (62/626,909) 2018-02-06  
[30] US (62/663,682) 2018-04-27  
[30] US (62/764,998) 2018-08-20

[21] **3,089,838**  
[13] A1

[51] **Int.Cl. E04B 2/74 (2006.01) E04B 2/82 (2006.01) E05D 15/06 (2006.01)**  
[25] EN  
[54] **DEMOUNTABLE WALL SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE PAROI DEMONTABLE**  
[72] MCDONALD, CONOR, US  
[72] SCHIAVONE, JOSEPH, US  
[72] PHILLIPS, JEFFREY JAMES, US  
[72] CREECH, NATHAN, US  
[72] BRIN, GAVIN, CA  
[72] DOUGLASS, KELLEY, US  
[72] LANG, WILLIAMS, US  
[72] GIBSON, JARETT, US  
[72] CLARK, JAMES P., US  
[71] OLDCASTLE BUILDINGENVELOPE, INC., US  
[85] 2020-07-28  
[86] 2019-02-01 (PCT/US2019/016417)  
[87] (WO2019/152887)  
[30] US (62/625,256) 2018-02-01  
[30] US (62/625,186) 2018-02-01  
[30] US (62/625,315) 2018-02-01  
[30] US (62/625,275) 2018-02-01  
[30] US (62/625,208) 2018-02-01

[21] **3,089,840**  
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A01N 1/02 (2006.01) A61K 39/00 (2006.01) A61P 37/06 (2006.01)**  
[25] EN  
[54] **IDENTIFICATION OF PORCINE XENOANTIGENS**  
[54] **IDENTIFICATION DE XENOANTIGENES PORCINS**  
[72] EKSER, BURCIN, US  
[71] INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015644)  
[87] (WO2019/152400)  
[30] US (62/623,571) 2018-01-30

[21] **3,089,841**  
[13] A1

[51] **Int.Cl. F16F 15/00 (2006.01) B62D 37/04 (2006.01) F16F 7/10 (2006.01)**  
[25] EN  
[54] **ACTIVE VIBRATION CONTROL USING CIRCULAR FORCE GENERATORS**  
[54] **COMMANDE DE VIBRATION ACTIVE A L'AIDE DE GENERATEURS DE FORCE CIRCULAIRE**  
[72] NORRIS, MARK, US  
[72] BARBULESCU, STEFAN, US  
[72] BIEBER, MARTIN, US  
[71] LORD CORPORATION, US  
[85] 2020-07-28  
[86] 2019-03-20 (PCT/US2019/023085)  
[87] (WO2019/183168)  
[30] US (62/645,395) 2018-03-20

[21] **3,089,842**  
[13] A1

[51] **Int.Cl. B01D 57/02 (2006.01) C12P 19/34 (2006.01) C12Q 1/68 (2018.01) C12Q 1/70 (2006.01) G01N 27/447 (2006.01)**  
[25] EN  
[54] **DEVICES, METHODS AND KITS FOR SAMPLE CHARACTERIZATION**  
[54] **DISPOSITIFS, PROCEDES ET KITS DE CHARACTERISATION D'ECHANTILLON**  
[72] GENTALEN, ERIK, US  
[72] MACK, SCOTT, US  
[71] INTABIO, INC., US  
[85] 2020-07-28  
[86] 2019-01-29 (PCT/US2019/015701)  
[87] (WO2019/148198)  
[30] US (62/623,492) 2018-01-29

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[21] **3,089,843**  
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/10 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR MODULATING CHROMOSOMAL REARRANGEMENTS**  
[54] **SYSTEMES ET PROCEDES DE MODULATION DE REARRANGEMENTS CHROMOSOMIQUES**  
[72] COTTA-RAMUSINO, CECILIA, US  
[72] BOTHMER, ANNE, HELEN, US  
[71] EDITAS MEDICINE, INC., US  
[85] 2020-07-28  
[86] 2019-01-30 (PCT/US2019/015847)  
[87] (WO2019/152519)  
[30] US (62/623,755) 2018-01-30  
[30] US (62/664,829) 2018-04-30

[21] **3,089,844**  
[13] A1

[51] **Int.Cl. A61B 18/00 (2006.01) A61B 18/14 (2006.01) B01D 46/00 (2006.01)**  
[25] EN  
[54] **FILTERING METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL DE FILTRAGE**  
[72] SHVETSOV, KYRYLO, US  
[72] MILLER, MICHAEL, US  
[72] PEPE, GREGORY, US  
[72] BONANO, SAMANTHA, US  
[71] BUFFALO FILTER LLC, US  
[85] 2020-07-28  
[86] 2019-11-21 (PCT/US2019/062677)  
[87] (WO2020/106993)  
[30] US (62/770,270) 2018-11-21

[21] **3,089,846**  
[13] A1

[51] **Int.Cl. A01G 25/09 (2006.01)**  
[25] EN  
[54] **HYDROELECTRICALLY-CHARGED AGRICULTURAL IRRIGATION PRIME MOVER AND MOBILE AGRICULTURAL IRRIGATION SYSTEM INCLUDING THE SAME**  
[54] **MOTEUR D'ENTRAINEMENT D'IRRIGATION AGRICOLE A CHARGE HYDROELECTRIQUE ET SYSTEME MOBILE D'IRRIGATION AGRICOLE LE COMPRENANT**  
[72] MOHR, DANA CLIFFORD, US  
[72] MOHR, SHARON ELIZABETH, US  
[71] HYDROSIDE SYSTEMS LLC, US  
[85] 2020-07-28  
[86] 2019-01-30 (PCT/US2019/015885)  
[87] (WO2019/152542)  
[30] US (62/625,568) 2018-02-02

[21] **3,089,848**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 31/18 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **SCREENING METHODS FOR IDENTIFYING AND TREATING HIV-1 INFECTED PATIENT SUB-POPULATIONS SUITABLE FOR LONG TERM ANTI-CCR5 AGENT THERAPY**  
[54] **PROCEDES DE CRIBLAGE POUR IDENTIFIER ET TRAITER DES SOUS-POPULATIONS DE PATIENTS INFECTES PAR LE VIH-1 APPROPRIES POUR UNE THERAPIE A LONG TERME AVEC UN AGENT ANTI-CCR5**  
[72] MADDON, PAUL, US  
[72] POURHASSAN, NADER, US  
[71] CYTODYN INC., US  
[71] MADDON, PAUL, US  
[71] POURHASSAN, NADER, US  
[85] 2020-03-16  
[86] 2018-09-18 (PCT/US2018/051536)  
[87] (WO2019/055995)  
[30] US (62/560,000) 2017-09-18

[21] **3,089,850**  
[13] A1

[51] **Int.Cl. G02B 6/42 (2006.01) G02B 6/293 (2006.01)**  
[25] EN  
[54] **MULTI-CHANNEL OPTICAL COUPLER**  
[54] **COUPLEUR OPTIQUE MULTICANAL**  
[72] GRANN, ERIC, US  
[72] FLUEGEL, SCOTT, US  
[72] NZEADIBE, IHI, US  
[71] INNEOS, LLC, US  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/US2019/015992)  
[87] (WO2019/152612)  
[30] US (62/626,462) 2018-02-05

[21] **3,089,851**  
[13] A1

[51] **Int.Cl. G01F 23/26 (2006.01) G01B 7/06 (2006.01)**  
[25] EN  
[54] **A THICKNESS MEASUREMENT DEVICE AND METHODS OF USE**  
[54] **DISPOSITIF DE MESURE D'EPaisseur ET PROCEDES D'UTILISATION**  
[72] ELHAJJ, IMAD H., LB  
[72] ASMAR, DANIEL H., LB  
[72] SALEH, MAHDI, LB  
[72] OUEIDAT, GHASSAN, LB  
[71] AMERICAN UNIVERSITY OF BEIRUT, US  
[85] 2020-07-28  
[86] 2019-01-31 (PCT/US2019/015994)  
[87] (WO2019/152614)  
[30] US (62/625,736) 2018-02-02



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[21] **3,089,861**  
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/06 (2006.01)**

[25] EN

[54] **BIOCATALYST AND METHODS FOR SYNTHESIZING MIXED DISULFIDE CONJUGATES OF THIENOPYRIDINE COMPOUNDS**

[54] **BIOCATALYSEUR ET PROCEDES DE SYNTHESE DE CONJUGUES DISULFURE MIXTES DE COMPOSES DE THIENOPYRIDINE**

[72] ZHANG, HAOMING, US

[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US

[85] 2020-07-28

[86] 2019-01-31 (PCT/US2019/016099)

[87] (WO2019/152679)

[30] US (62/624,494) 2018-01-31

[21] **3,089,862**  
[13] A1

[51] **Int.Cl. D03D 1/00 (2006.01) A61F 2/00 (2006.01)**

[25] EN

[54] **MOLDING DEVICE**

[54] **COMPOSITE DE GREFFE TISSEE A DENSITE VARIEE**

[72] WINNER, SETH A., US

[72] WEBER, AMANDA, US

[72] METZGER, ANDREW, US

[72] REED, STEPHANIE, US

[72] SMOOT, CARISSA, US

[71] THE SECANT GROUP, LLC, US

[85] 2020-07-28

[86] 2019-01-31 (PCT/US2019/016118)

[87] (WO2019/152691)

[30] US (62/624,592) 2018-01-31

[21] **3,089,863**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01) A61M 11/00 (2006.01) A61M 11/04 (2006.01) A61M 15/00 (2006.01) H05B 6/02 (2006.01) H05B 6/10 (2006.01)**

[25] EN

[54] **CONTAINER FOR ELECTRONIC VAPORIZER DEVICE**

[54] **CONTENANT POUR DISPOSITIF VAPORISATEUR ELECTRONIQUE**

[72] BOGRAN, JON, US

[72] GREENFIELD, MATTHEW, US

[72] NYSEN, PETER, US

[72] BHARDWAJ, NEERAJ S., US

[72] BLELOCH, ANDREW L., US

[71] LOTO LABS, INC., US

[85] 2020-07-28

[86] 2019-02-07 (PCT/US2019/017045)

[87] (WO2019/157177)

[30] US (62/627,870) 2018-02-08

[21] **3,089,864**  
[13] A1

[51] **Int.Cl. C07D 311/76 (2006.01) A61K 31/352 (2006.01) A61P 11/00 (2006.01) A61P 19/04 (2006.01)**

[25] EN

[54] **METHODS OF TREATING FIBROTIC PATHOLOGIES**

[54] **METHODES DE TRAITEMENT DE PATHOLOGIES FIBROTIQUES**

[72] TSCHUMPERLIN, DANIEL J., US

[72] HAAK, ANDREW J., US

[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2020-07-28

[86] 2019-01-31 (PCT/US2019/016178)

[87] (WO2019/152733)

[30] US (62/624,535) 2018-01-31

[21] **3,089,865**  
[13] A1

[51] **Int.Cl. E04H 6/12 (2006.01) B65G 1/06 (2006.01) B65G 1/137 (2006.01) B66B 5/00 (2006.01) G05D 3/00 (2006.01) G08C 17/02 (2006.01)**

[25] EN

[54] **VEHICLE LIFT AND STORAGE SYSTEM UTILIZING A MULTI-AXIS ACCELEROMETER**

[54] **SYSTEME DE LEVAGE ET DE STOCKAGE DE VEHICULE UTILISANT UN ACCELEROMETRE A AXES MULTIPLES**

[72] RICHARDSON, BRANDON MICHAEL, US

[72] CHENG, YI JACK, US

[71] CITYLIFT PARKING, LLC, US

[85] 2020-07-28

[86] 2019-02-07 (PCT/US2019/017125)

[87] (WO2019/157229)

[30] US (15/890,749) 2018-02-07

[30] US (15/890,712) 2018-02-07

[30] US (15/890,691) 2018-02-07

[21] **3,089,868**  
[13] A1

[51] **Int.Cl. A61K 38/04 (2006.01) A61K 38/08 (2019.01) A61K 38/10 (2006.01) A61K 38/16 (2006.01) A61K 38/17 (2006.01) A61K 38/22 (2006.01) A61P 7/06 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 14/575 (2006.01)**

[25] EN

[54] **CONJUGATED HEPCIDIN MIMETICS**

[54] **MIMETIQUES D'HEPCIDINE CONJUGUES**

[72] BOURNE, GREGORY THOMAS, AU

[72] BHANDARI, ASHOK, US

[72] FREDERICK, BRIAN TROY, US

[72] ZHANG, JIE, AU

[72] STEPHENSON, ADAM, AU

[72] SMYTHE, MARK LESLIE, AU

[72] TARANATH, ROOPA, US

[72] LIU, DAVID, US

[71] PROTAGONIST THERAPEUTICS, INC., US

[85] 2020-07-28

[86] 2019-02-08 (PCT/US2019/017192)

[87] (WO2019/157268)

[30] US (62/627,948) 2018-02-08

[30] US (62/627,952) 2018-02-08

[30] US (62/717,390) 2018-08-10

[30] US (62/749,450) 2018-10-23

## Demandes PCT entrant en phase nationale

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[21] **3,089,870**

[13] A1

[51] **Int.Cl. A61G 3/06 (2006.01) B60P 1/43  
(2006.01) B60P 3/06 (2006.01)**

[25] EN

[54] **RAMP ASSEMBLY WITH  
COLLAPSIBLE SIDE RAILS FOR  
MOTORIZED VEHICLE**

[54] **ENSEMBLE RAMPE A RAILS  
LATERAUX PLIABLES POUR  
VEHICULE MOTORISE**

[72] PERKINS, GREG, US

[72] KITCHEL, ERIC, US

[72] LAIRD, MICHAEL, US

[71] THE BRAUN CORPORATION, US

[85] 2020-07-28

[86] 2019-02-11 (PCT/US2019/017410)

[87] (WO2019/160784)

[30] US (62/629,998) 2018-02-13

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[21] **3,089,871**

[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**

[25] EN

[54] **COLLABORATIVE EDITING OF  
MEDIA IN A MIXED COMPUTING  
ENVIRONMENT**

[54] **EDITION COLLABORATIVE DE  
MEDIA DANS UN  
ENVIRONNEMENT  
INFORMATIQUE MIXTE**

[72] COLDHAM, ANDREW, US

[72] VANDENBOS, BENJAMIN, US

[72] GRANT, PETER, US

[71] PICMONKEY, LLC, US

[85] 2020-07-28

[86] 2019-02-08 (PCT/US2019/017209)

[87] (WO2019/157280)

[30] US (15/893,233) 2018-02-09

# Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

## Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [21] <b>3,087,783</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [21] <b>3,087,813</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | [21] <b>3,087,882</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [25] EN<br>[54] <b>RETENTION COMPONENT FOR PLACEMENT OF ENTERAL FEEDING TUBES</b><br>[54] <b>ELEMENT DE RETENTION POUR LE PLACEMENT DE SONDES D'ALIMENTATION ENTERALES</b><br>[72] TAI, KOK-MING, US<br>[72] BAGWELL, ALISON S., US<br>[72] MCMICHAEL, DONALD J., US<br>[72] BECKER, NEIL M., US<br>[72] TARCAU, BENONE, US<br>[71] AVENT, INC., US<br>[22] 2013-09-12<br>[41] 2014-04-03<br>[62] 2,885,815<br>[30] US (61/707,318) 2012-09-28<br>[30] US (13/674,514) 2012-11-12                                                                                                                       | [51] <b>Int.Cl. A61K 47/42 (2017.01) A61K 9/14 (2006.01) A61K 9/51 (2006.01) A61K 31/194 (2006.01) A61K 31/337 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01)</b><br>[25] EN<br>[54] <b>METHODS OF TREATING CANCER</b><br>[54]<br>[72] SOON-SHIONG, PATRICK, US<br>[71] ABRAXIS BIOSCIENCE, LLC, US<br>[22] 2011-03-28<br>[41] 2011-10-06<br>[62] 2,793,974                                                                                                                                                               | [51] <b>Int.Cl. D21F 7/00 (2006.01) D21F 1/10 (2006.01) D21F 7/08 (2006.01) D21G 9/00 (2006.01)</b><br>[25] EN<br>[54] <b>PROCESS FOR DETERMINING FEATURES OF A FABRIC</b><br>[54]<br>[72] SZE, DANIEL H., US<br>[71] GPCP IP HOLDINGS LLC, US<br>[22] 2014-05-21<br>[41] 2015-05-21<br>[62] 2,927,463<br>[30] US (14/077,992) 2013-11-12<br>[30] US (14/077,808) 2013-11-12<br>[30] US (14/283,530) 2014-05-21                                             |
| [21] <b>3,087,809</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [21] <b>3,087,879</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | [21] <b>3,087,901</b><br>[13] A1                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [51] <b>Int.Cl. H04N 19/85 (2014.01) H04N 19/115 (2014.01) H04N 19/15 (2014.01) H04N 19/154 (2014.01) H04N 19/23 (2014.01)</b><br>[25] EN<br>[54] <b>SYSTEMS AND METHODS FOR RENDERING &amp; PRE-ENCODED LOAD ESTIMATION BASED ENCODER HINTING</b><br>[54] <b>SYSTEMES ET PROCEDES DE RENDU ET D'OPTIMISATION D'UN CODEUR BASEE SUR UNE ESTIMATION DE CHARGE PRE-CODEE</b><br>[72] KOPIETZ, MICHAEL, DE<br>[71] ZENIMAX MEDIA INC., US<br>[22] 2018-04-20<br>[41] 2018-10-25<br>[62] 3,059,747<br>[30] US (62/488,526) 2017-04-21<br>[30] US (62/647,180) 2018-03-23<br>[30] US (62/655,901) 2018-04-11 | [51] <b>Int.Cl. G01M 13/00 (2019.01) D21F 11/00 (2006.01) D21G 9/00 (2006.01) G01N 19/08 (2006.01) G01N 21/956 (2006.01) G01N 33/34 (2006.01)</b><br>[25] EN<br>[54] <b>PROCESS FOR DETERMINING FEATURES OF A FABRIC</b><br>[54] <b>PROCESSUS DE DETERMINATION DE CARACTERISTIQUES D'UN TISSU</b><br>[72] SZE, DANIEL H., US<br>[71] GPCP IP HOLDINGS LLC, US<br>[22] 2014-05-21<br>[41] 2015-05-21<br>[62] 2,927,463<br>[30] US (14/077,992) 2013-11-12<br>[30] US (14/077,808) 2013-11-12<br>[30] US (14/283,530) 2014-05-21 | [51] <b>Int.Cl. C08G 77/42 (2006.01) C08L 83/10 (2006.01)</b><br>[25] EN<br>[54] <b>TEMPERATURE-RESISTANT SILICONE RESINS</b><br>[54] <b>RESINES EN SILICONE RESISTANT A LA TEMPERATURE</b><br>[72] ZHOU, CHAOYIN, US<br>[72] NOWAK, ANDREW P., US<br>[72] SHARP, RICHARD E., US<br>[72] LI, WEN, US<br>[72] FRENCH, JAMES E., US<br>[71] THE BOEING COMPANY, US<br>[22] 2015-07-02<br>[41] 2016-01-11<br>[62] 3,050,429<br>[30] US (14/329,885) 2014-07-11 |

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,087,933**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF INHIBITING MASP-1 AND/OR MASP-2 AND/OR MASP-3 FOR THE TREATMENT OF PAROXYSMAL NOCTURNAL HEMOGLOBINURIA**

[54] **COMPOSITIONS ET METHODES D'INHIBITION DE MASP-1, MASP-2 OU MASP-3 POUR LE TRAITEMENT D'HEMOGLOBINURIE PAROXYSTIQUE NOCTURNE**

[72] DEMOPULOS, GREGORY A., US

[72] SCHWAEBLE, HANS-WILHELM, GB

[71] OMEROS CORPORATION, US

[71] UNIVERSITY OF LEICESTER, GB

[22] 2013-04-05

[41] 2013-12-05

[62] 2,869,326

[30] US (61/621,461) 2012-04-06

[21] **3,088,022**  
[13] A1

[25] EN

[54] **BLOOD PUMP SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE POMPE A SANG**

[72] FRANANO, F. NICHOLAS, US

[72] LOREE, HOWARD M., II, US

[72] TANSLEY, GEOFF, US

[72] WOODARD, STEVE, US

[72] HUTTO, BARRETT, US

[71] FLOW FORWARD MEDICAL, INC., US

[22] 2013-08-15

[41] 2014-02-20

[62] 2,880,279

[30] US (PCT/US2012/050983) 2012-08-15

[30] US (PCT/US2012/050978) 2012-08-15

[30] US (61/684,534) 2012-08-17

[21] **3,088,104**  
[13] A1

[51] **Int.Cl. F24H 9/20 (2006.01) F23N 1/02 (2006.01)**

[25] EN

[54] **WATER HEATER AND PRESSURE PROBE FOR A WATER HEATER**

[54]

[72] BRANECKY, BRIAN T., US

[72] FITZGERALD, JANICE ARLINE, US

[71] A. O. SMITH CORPORATION, US

[22] 2013-11-07

[41] 2014-05-19

[62] 2,832,631

[30] US (13/680,856) 2012-11-19

[21] **3,088,186**  
[13] A1

[51] **Int.Cl. C09K 3/00 (2006.01) C08J 9/14 (2006.01) C09K 3/30 (2006.01) C09K 5/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING 2,3,3,3-TETRAFLUOROPROPENE, 1,1,2,3-TETRACHLOROPROPENE, 2-CHLORO-3,3,3-TRIFLUOROPROPENE, OR 2-CHLORO-1,1,1,2-TETRAFLUOROPROPANE**

[54] **COMPOSITIONS COMPRENANT DU 2,3,3,3-TETRAFLUOROPROPENE, DU 1,1,2,3-TETRACHLOROPROPENE, DU 2-CHLORO-3,3,3-TRIFLUOROPROPENE, OU DU 2-CHLORO-1,1,1,2-TETRAFLUOROPROPANE**

[72] NAPPA, MARIO JOSEPH, US

[71] THE CHEMOURS COMPANY FC, LLC, US

[22] 2010-12-22

[41] 2011-07-21

[62] 3,017,000

[30] US (61/289,027) 2009-12-22

[21] **3,088,192**  
[13] A1

[51] **Int.Cl. F25B 45/00 (2006.01) C10M 129/16 (2006.01) C10M 159/00 (2006.01) C10M 163/00 (2006.01) F16N 3/04 (2006.01) F16N 21/00 (2006.01) F17D 3/12 (2006.01) F25B 47/00 (2006.01)**

[25] EN

[54] **ADDITIVE COMPOSITION FOR IMPROVEMENT OF MISCIBILITY OF LUBRICANTS IN AIR-CONDITIONING AND REFRIGERATION SYSTEMS**

[54] **COMPOSITION D'ADDITION AMELIORANT LA MISCIBILITE DES LUBRIFIANTS DANS DES SYSTEMES DE CLIMATISATION ET DE REFRIGERATION**

[72] APPLER, PAUL, CA

[72] CRANTON, GEORGE A., CA

[71] ALLTEMP PRODUCTS COMPANY LIMITED, CA

[22] 2015-04-02

[41] 2015-10-08

[62] 2,944,662

[30] US (61/975,468) 2014-04-04

[21] **3,088,247**  
[13] A1

[51] **Int.Cl. B64C 11/18 (2006.01)**

[25] EN

[54] **LOW-NOISE AIRFOIL FOR AN OPEN ROTOR**

[54] **PROFIL AERODYNAMIQUE A FAIBLE BRUIT DESTINE A UN ROTOR OUVERT**

[72] TWEEDT, DANIEL LAWRENCE, US

[71] GENERAL ELECTRIC COMPANY, US

[22] 2018-08-02

[41] 2019-02-11

[62] 3,013,156

[30] US (15/675,239) 2017-08-11

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,088,255**  
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1486 (2006.01) A61B 5/1495 (2006.01) A61B 5/053 (2006.01)**

[25] EN

[54] **METHODS FOR CONTINUOUS GLUCOSE MONITORING**

[54] **PROCEDES DE SURVEILLANCE CONTINUE DU GLUCOSE**

[72] NOGUEIRA, KEITH, US

[72] ENGEL, TALY G., US

[72] LI, XIAOLONG, US

[72] LIANG, BRADLEY C., US

[72] SHAH, RAJIV, US

[72] LIU, MIKE C., US

[72] TSAI, ANDY Y., US

[72] KIM, JAEHO, US

[72] VARSAVSKY, ANDREA, US

[72] YU, FEI, US

[72] GAUTHAM, RAGHAVENDHAR, US

[72] NISHIDA, JEFFREY, US

[71] MEDTRONIC MINIMED, INC., US

[22] 2016-07-22

[41] 2017-07-06

[62] 3,008,629

[30] US (14/980,241) 2015-12-28

[30] US (14/980,205) 2015-12-28

[30] US (14/980,185) 2015-12-28

[30] US (14/980,152) 2015-12-28

[21] **3,088,270**  
[13] A1

[51] **Int.Cl. A61K 31/20 (2006.01) A61K 35/30 (2015.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TRANSPLANTATION ADJUVANT IN CELL THERAPY USING NEURAL PROGENITOR CELLS**

[54] **ADJUVANT DE TRANSPLANTATION EN THERAPIE CELLULAIRE UTILISANT DES CELLULES NEURALES PROGENITRICES**

[72] TAKAHASHI, JUN, JP

[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP

[22] 2013-11-14

[41] 2014-11-20

[62] 2,912,345

[30] JP (2013-104329) 2013-05-16

[21] **3,088,281**  
[13] A1

[25] EN

[54] **INTRAUTERINE CONTRACEPTIVE DEVICE**

[54] **DISPOSITIF CONTRACEPTIF INTRA-UTERIN**

[72] TAL, MICHAEL, IL

[72] KATZ, BOB H., US

[72] DEBISSCHOP, MARK JAMES, US

[72] WILSON, PETE, US

[72] SHIKHMAN, OLEG, US

[71] CONTRAMED, LLC, US

[22] 2013-08-13

[41] 2014-02-20

[62] 2,881,162

[30] US (13/585,039) 2012-08-14

[30] US (13/795,940) 2013-03-12

[21] **3,088,289**  
[13] A1

[51] **Int.Cl. G01J 3/36 (2006.01) G01J 3/02 (2006.01) G01N 21/3504 (2014.01)**

[25] EN

[54] **DIVIDED-APERTURE INFRA-RED SPECTRAL IMAGING SYSTEM FOR CHEMICAL DETECTION**

[54] **SYSTEME D'IMAGERIE SPECTRALE INFRAROUGE A OUVERTURE DIVISEE POUR DETECTION CHIMIQUE**

[72] KESTER, ROBERT T., US

[72] HAGAN, NATHAN A., US

[71] REBELLION PHOTONICS, INC., US

[22] 2013-05-16

[41] 2013-11-21

[62] 2,873,989

[30] US (61/688,630) 2012-05-18

[30] US (61/764,776) 2013-02-14

[21] **3,088,328**  
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01)**

[25] EN

[54] **PYRUVATE KINASE ACTIVATORS FOR USE IN THERAPY**

[54] **ACTIVATEURS DE LA PYRUVATE KINASE DESTINES A ETRE UTILISES EN THERAPIE**

[72] SU, SHIN-SAN MICHAEL, US

[71] AGIOS PHARMACEUTICALS, INC., US

[22] 2012-05-03

[41] 2012-11-08

[62] 2,834,602

[30] US (61/482,171) 2011-05-03

[21] **3,088,354**  
[13] A1

[51] **Int.Cl. G01F 25/00 (2006.01)**

[25] EN

[54] **VIBRATORY FLOWMETER AND METHODS AND DIAGNOSTICS FOR METER VERIFICATION**

[54] **VIBRATORY FLOWMETER AND METHODS AND DIAGNOSTICS FOR METER VERIFICATION**

[72] CUNNINGHAM, TIMOTHY J., US

[72] KAPOLNEK, DAVID J., US

[72] LARSEN, CHRISTOPHER GEORGE (DECEASED), US

[72] RENSING, MATTHEW J., US

[71] MICRO MOTION, INC., US

[22] 2014-12-19

[41] 2015-07-30

[62] 2,937,769

[30] US (61/931,421) 2014-01-24

[21] **3,088,385**  
[13] A1

[51] **Int.Cl. G01F 25/00 (2006.01)**

[25] EN

[54] **VIBRATORY FLOWMETER AND METHODS AND DIAGNOSTICS FOR METER VERIFICATION**

[54] **DEBITMETRE VIBRATOIRE ET PROCEDES ET DIAGNOSTICS POUR LA VERIFICATION DU COMPTEUR**

[72] CUNNINGHAM, TIMOTHY J., US

[72] KAPOLNEK, DAVID J., US

[72] RENSING, MATTHEW J., US

[72] LARSEN, CHRISTOPHER GEORGE (DECEASED), US

[71] MICRO MOTION, INC., US

[22] 2014-12-19

[41] 2015-07-30

[62] 2,937,769

[30] US (61/931,421) 2014-01-24



**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,088,393**  
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 35/17 (2015.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01) C12N 15/12 (2006.01)**

[25] EN  
[54] **ANTIGEN-SPECIFIC T CELL RECEPTORS AND T CELL EPITOPES**  
[54] **RECEPTEUR DES CELLULES T SPECIFIQUES DES ANTIGENES ET EPITOPES DES CELLULES T**

[72] SAHIN, UGUR, DE  
[72] TURECI, OZLEM, DE  
[72] SIMON, PETRA, DE  
[72] OMOKOKO, TANA, DE  
[71] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GGMBH, DE

[71] BIONTECH CELL & GENE THERAPIES GMBH, DE

[22] 2011-09-19  
[41] 2012-03-29  
[62] 3,071,740  
[30] EP (10 009 990.2) 2010-09-20  
[30] EP (11 000 045.2) 2011-01-05

[21] **3,088,401**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 9/08 (2006.01) A61K 31/20 (2006.01) A61P 25/18 (2006.01)**

[25] EN  
[54] **DOSING REGIMEN FOR MISSED DOSES FOR LONG-ACTING INJECTABLE PALIPERIDONE ESTERS**  
[54] **PROGRAMME DE DOSAGE DE DOSES OUBLIEES DESTINE AUX ESTERS DE PALIPERIDONE INJECTABLES A ACTION PROLONGEE**

[72] GOPAL, SRIHARI, US  
[72] RAVENSTIJN, PAULIEN GERADA MARIA, NL  
[72] RUSSU, ALBERTO, BE  
[72] SAMTANI, MAHESH NARAIN, US  
[71] JANSSEN PHARMACEUTICALS INC., US

[22] 2016-04-01  
[41] 2016-10-07  
[62] 2,925,908  
[30] US (62/144,054) 2015-04-07  
[30] US (62/162,596) 2015-05-15

[21] **3,088,428**  
[13] A1

[25] EN  
[54] **RNA FORMULATION FOR IMMUNOTHERAPY**  
[54] **FORMULATION D'ARN POUR L'IMMUNOTHERAPIE**

[72] DIKEN, MUSTAFA, DE  
[72] FRITZ, DANIEL, DE  
[72] HAAS, HEINRICH, DE  
[72] KRANZ, LENA MAREEN, DE  
[72] KREITER, SEBASTIAN, DE  
[72] MENG, MARTIN, DE  
[72] REUTER, KERSTIN, DE  
[72] SAHIN, UGUR, DE  
[71] BIONTECH RNA PHARMACEUTICALS GMBH, DE

[71] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNUTZIGE GMBH, DE

[22] 2013-03-25  
[41] 2013-10-03  
[62] 2,864,253  
[30] EP (PCT/EP2012/001319) 2012-03-26

[21] **3,088,430**  
[13] A1

[51] **Int.Cl. B23P 6/00 (2006.01) B23K 9/04 (2006.01) B61G 7/00 (2006.01)**

[25] EN  
[54] **RECONDITIONING OF ARTICULATED CONNECTOR LOAD BEARING BOTTOM SURFACES**

[54]

[72] BRUECKERT, RICHARD A., US  
[72] GUESS, WILLIAM A., US  
[72] KROESCH, DONALD F., US  
[71] TTX COMPANY, US

[22] 2013-01-25  
[41] 2013-08-01  
[62] 2,987,631  
[30] US (61/590,675) 2012-01-25  
[30] US (13/749,305) 2013-01-24  
[30] US (13/749,229) 2013-01-24  
[30] US (13/749,325) 2013-01-24  
[30] US (13/749,364) 2013-01-24  
[30] US (13/749,190) 2013-01-24

[21] **3,088,434**  
[13] A1

[25] EN  
[54] **INFUSION SET WITH ANESTHETIC COMPOUND**

[54]

[72] KNAPP, KEITH, II, US  
[72] HORVATH, JOSHUA, US  
[71] BECTON, DICKINSON AND COMPANY, US

[22] 2010-01-26  
[41] 2011-05-12  
[62] 2,750,527  
[30] US (61/202,079) 2009-01-27

[21] **3,088,468**  
[13] A1

[25] EN  
[54] **METHODS FOR ESTABLISHING FLUID COMMUNICATION BETWEEN A SAGD WELL PAIR**  
[54] **PROCEDES D'ETABLISSEMENT D'UNE COMMUNICATION FLUIDE ENTRE UNE PAIRE DE Puits SAGD**

[72] ENGLEMAN, RUSS, CA  
[72] COULTER, CAL, CA  
[72] ACOSTA-RAMIREZ, HUGO, CA  
[72] GUERRERO, ADRIANA, CA  
[71] SUNCOR ENERGY INC., CA

[22] 2014-03-21  
[41] 2015-09-10  
[62] 2,988,164  
[30] US (61/950,457) 2014-03-10  
[30] CA (2,846,924) 2014-03-20  
[30] US (61/968,247) 2014-03-20

[21] **3,088,765**  
[13] A1

[51] **Int.Cl. B60P 7/02 (2006.01) B60J 11/06 (2006.01)**

[25] EN  
[54] **DUAL ACTION TRUCK BED COVER**  
[54] **COUVRE PLATEFORME DE CAMION A DOUBLE ACTION**

[72] ROHR, ANDREW N., US  
[72] HILL, ROBERT E., JR., US  
[71] A.R.E. ACCESSORIES, LLC, US

[22] 2016-03-10  
[41] 2016-09-25  
[62] 2,923,516  
[30] US (62/137,907) 2015-03-25  
[30] US (15/048,028) 2016-02-19

# Index of Canadian Patents Issued

August 25, 2020

## Index des brevets canadiens délivrés

25 août 2020

|                                                    |           |                                            |           |                                            |           |
|----------------------------------------------------|-----------|--------------------------------------------|-----------|--------------------------------------------|-----------|
| 10353744 CANADA LTD.                               | 2,993,051 | AICHER, THOMAS                             | 2,871,514 | ANDROID INDUSTRIES LLC                     | 3,021,213 |
| 10353744 CANADA LTD.                               | 2,993,583 | AIRCELLE                                   | 2,882,166 | ANELLI, PIETRO                             | 2,917,253 |
| 2141632 ONTARIO INC.                               | 2,954,312 | AIRSTRIIP IP HOLDINGS, LLC                 | 2,825,195 | ANGIBAUD, PATRICK RENE                     | 2,796,204 |
| 3M INNOVATIVE PROPERTIES<br>COMPANY                | 2,871,737 | AKBARI, HOSSEIN                            | 2,855,010 | ANGIOMED GMBH & CO.<br>MEDIZINTECHNIK KG   | 2,748,465 |
| A. O. SMITH CORPORATION                            | 2,844,196 | AKKARI, RHALID                             | 2,796,204 | ANGLO PLATINUM<br>MARKETING LIMITED        | 2,854,714 |
| AARTS, MARTINUS<br>GERARDUS MARIA                  | 2,767,957 | AKTIEBOLAGET SKF                           | 2,891,532 | ANICHKOV, DMITRIY                          | 2,933,360 |
| ABAD, DAVID                                        | 2,947,863 | AKZO NOBEL CHEMICALS<br>INTERNATIONAL B.V. | 2,867,675 | ANIKET                                     | 2,948,321 |
| ABAD, FARDIN ABDI TAGHI                            | 3,064,122 | ALARCON, SERGIO A.                         | 2,906,653 | ANSALDO ENERGIA<br>SWITZERLAND AG          | 2,877,692 |
| ABB POWER GRIDS<br>SWITZERLAND AG                  | 3,058,026 | ALBERTA HEALTH SERVICES                    | 2,827,636 | ARAN PERRAMON, JOSEP M.                    | 2,841,994 |
| ABB SCHWEIZ AG                                     | 2,890,585 | ALDERMAN, ROBERT A.                        | 3,001,809 | ARANO, YOSHIMASA                           | 2,887,887 |
| ABB SCHWEIZ AG                                     | 3,053,219 | ALDEYRA THERAPEUTICS,<br>INC.              | 2,782,015 | ARCANUM TECHNOLOGY<br>LLC                  | 2,871,726 |
| ABBASSIAN, BAHMAN                                  | 2,877,173 | ALENTIC MICROSCIENCE<br>INC.               | 2,953,620 | ARDIFF, HENRY GERARD                       | 2,847,404 |
| ABBEY, ERIC                                        | 3,010,591 | ALES, MATTHEW W.                           | 2,870,654 | ARIMORI, SADAYUKI                          | 2,885,857 |
| ABE, KIYOFUMI                                      | 3,069,579 | ALEXIS, FRANK                              | 2,740,155 | ARIOSA DIAGNOSTICS, INC.                   | 2,807,572 |
| ABE, TAKASHI                                       | 2,885,840 | ALIBABA GROUP HOLDING<br>LIMITED           | 3,041,463 | ARMBRUSTER, FRANZ PAUL                     | 2,865,182 |
| ABEGO DESIGNS INC.                                 | 2,942,317 | ALIBABA GROUP HOLDING<br>LIMITED           | 3,058,236 | ARMENTROUT, RICHARD C.                     | 2,978,658 |
| ABIVEN, JEAN-GUILLAUME                             | 2,871,950 | ALJUBORI, AHMED                            | 2,884,924 | ARMSTRONG, MICHAEL                         | 2,897,041 |
| ABL IP HOLDING LLC                                 | 2,559,137 | ALLEN, JULIE                               | 2,843,133 | ARNOLD, WILLIAM                            | 2,917,700 |
| ABL IP HOLDING LLC                                 | 2,951,297 | ALLERGAN, INC.                             | 2,855,390 | ARORA, WILLIAM J.                          | 2,780,747 |
| ACCENTURE GLOBAL<br>SOLUTIONS LIMITED              | 2,983,495 | ALLIED BLENDING, L.P.                      | 2,867,603 | ARRIS ENTERPRISES LLC                      | 2,903,452 |
| ACCENTURE GLOBAL<br>SOLUTIONS LIMITED              | 3,001,800 | ALLISON TRANSMISSION,<br>INC.              | 2,876,695 | ARROUY, FREDERIC                           | 2,871,056 |
| ACEVEDO, ISAIAH                                    | 2,981,809 | ALPERT, EVGENIA                            | 2,962,219 | ARROW INTERNATIONAL,<br>INC.               | 2,827,641 |
| ACEVEDO, ISAIAH                                    | 3,022,946 | ALPHANDERY, EDOUARD                        | 2,985,163 | ARZT, BERNHARD                             | 2,958,113 |
| ADAMO, BENOIT                                      | 2,982,550 | ALRIKSSON, BJORN                           | 3,035,054 | ASCENDIS PHARMA A/S                        | 2,843,504 |
| ADAMS, DARREN J. M.                                | 2,912,155 | ALT, JESSIE LYNN                           | 3,012,617 | ASHBROOK, ANTHONY<br>PETER                 | 2,857,424 |
| ADAMS, MATTHEW JAMES                               | 2,785,582 | ALT, JESSIE LYNN                           | 3,012,664 | ASHBY, JOHN W.                             | 2,952,883 |
| ADAPTIVE SPECTRUM AND<br>SIGNAL ALIGNMENT,<br>INC. | 2,886,147 | ALTICAST CORPORATION                       | 2,924,451 | ASHKENAZI, AMIT                            | 2,973,812 |
| ADC<br>TELECOMMUNICATIONS,<br>INC.                 | 2,869,059 | ALTICAST CORPORATION                       | 2,924,456 | ASKEM, BEN ALAN                            | 2,843,133 |
| ADDIS, ROYAL                                       | 2,890,910 | ALUIA, DEREK WILLIAM                       | 2,919,662 | ASSISTANCE PUBLIQUE -<br>HOPITAUX DE PARIS | 2,888,118 |
| ADKIN, ROBERT WILLIAM                              | 2,886,853 | ALUVIS INTERNATIONAL,<br>INC.              | 2,877,303 | ASTEX THERAPEUTICS<br>LIMITED              | 2,796,204 |
| ADVANCED FIBER<br>PRODUCTS, LLC                    | 2,912,155 | ALWANI, SANIYA                             | 2,821,348 | ASTRAZENECA AB                             | 2,875,589 |
| AERO INDUSTRIES, INC.                              | 3,023,715 | AMAZON TECHNOLOGIES,<br>INC.               | 2,998,207 | ATAPATTU, CHANDRANI                        | 2,867,603 |
| AFTON CHEMICAL<br>CORPORATION                      | 3,042,041 | AMERICAN PRODUCTS, L.L.C.                  | 2,906,653 | ATAULLAKHANOV, FAZOIL<br>INOYATOVICH       | 2,879,601 |
| AG GROWTH<br>INTERNATIONAL INC.                    | 2,989,229 | AMGEN INC.                                 | 2,799,972 | ATOTECH DEUTSCHLAND<br>GMBH                | 2,875,323 |
| AGGARWAL, ASHISH                                   | 2,828,744 | AMOREPACIFIC<br>CORPORATION                | 2,877,442 | AUBIN-MARCHAND, JEREMIE                    | 2,888,536 |
| AGONCILLO-ANDRES,<br>SHEILA                        | 2,864,743 | AMSAFE BRIDPORT LIMITED                    | 2,803,713 | AVASHIA, SANJIV H.                         | 2,978,658 |
| AHARONI, BENZI                                     | 2,876,104 | ANAGNOS, RICHARD JAMES                     | 2,843,920 | AXELSSON, PER                              | 2,907,851 |
| AHLBERG, ANDY                                      | 2,999,123 | ANDERSEN, AUDREE                           | 2,983,892 | AXENS                                      | 2,819,921 |
| AHLUWALIA, SANDEEP                                 | 2,983,308 | ANDERSEN, JOHN L.                          | 2,916,774 | AYE, MICHAEL                               | 2,840,964 |
| AHMED, HANY                                        | 2,919,662 | ANDERSON, DAN                              | 2,967,536 | AYERS, CALLIE M.                           | 2,879,804 |
| AHN, JI YE                                         | 2,907,060 | ANDERSON, JACOB                            | 2,942,317 | AYKANAT, AYDIN                             | 2,875,487 |
| AHUJA, AMIT                                        | 2,997,306 | ANDERSON, RONALD K.                        | 2,854,864 | AYRES, BRANDON SCOTT                       | 3,000,679 |
|                                                    |           | ANDERSON, SHAWN W.                         | 2,840,238 | AZUMA, HIROKI                              | 3,013,175 |
|                                                    |           | ANDERSSON, BORJE S.                        | 2,834,262 | BABU, GOVINDARAJULU                        | 2,798,080 |
|                                                    |           | ANDERSSON, PER-OLA                         | 2,940,731 | BABYBJORN AB                               | 2,878,933 |
|                                                    |           | ANDREN, MARTEN                             | 2,878,933 |                                            |           |

**Index des brevets canadiens délivrés  
25 août 2020**

|                                    |           |                                    |           |                                                      |           |
|------------------------------------|-----------|------------------------------------|-----------|------------------------------------------------------|-----------|
| BACH, GARY M.                      | 2,898,087 | BAXTER INTERNATIONAL<br>INC.       | 2,851,332 | BISTON, WILLIAM D.                                   | 2,906,653 |
| BACHINSKI, THOMAS<br>JEROME        | 2,711,432 | BAXTER INTERNATIONAL<br>INC.       | 2,873,621 | BITDEFENDER IPR<br>MANAGEMENT LTD                    | 2,915,646 |
| BACIAK, JOHN MICHAEL, III          | 2,919,662 | BAYER PHARMA<br>AKTIENGESELLSCHAFT | 2,877,786 | BITSTRATA SYSTEMS INC.                               | 3,002,793 |
| BADAR, TIMOTHY G.                  | 2,869,059 | BAYLOR RESEARCH<br>INSTITUTE       | 2,754,743 | BJ BIOSCIENCE INC.                                   | 2,993,891 |
| BADEA, ILDIKO                      | 2,821,348 | BEALS, WILLIAM MICHAEL             | 2,977,516 | BLACKHAWK NETWORK,<br>INC.                           | 2,864,743 |
| BADER, BENJAMIN                    | 2,877,786 | BEARD, RICHARD L.                  | 2,855,390 | BLANVALET, CLAUDE                                    | 2,997,306 |
| BADERTSCHER, THOMAS                | 2,877,424 | BEARNE, PETER DAVID<br>ALEXANDER   | 2,852,636 | BLOCH, DANIEL D.                                     | 2,911,666 |
| BADGER, PAUL                       | 3,017,775 | BECK, HILARY PLAKE                 | 2,799,972 | BLOMBERG, JOHN P.                                    | 2,877,993 |
| BAEK, SEOK YUN                     | 2,877,442 | BECKER, TODD H.                    | 2,950,592 | BLOOMFIELD, STEPHEN                                  | 2,850,214 |
| BAESE, DAVE C.                     | 3,017,158 | BECKMAN, BRIAN C.                  | 2,998,207 | BOARD OF REGENTS OF THE<br>UNIVERSITY OF<br>NEBRASKA | 2,871,149 |
| BAGI, CEDO MARTIN                  | 2,960,846 | BEEKMAN, JEFFREY<br>MATTHIJN       | 2,859,614 | BOEHRINGER INGELHEIM<br>ANIMAL HEALTH USA<br>INC.    | 2,857,958 |
| BAGLEY, LINDSEY                    | 2,981,752 | BEGLEY, COLIN GLENN                | 2,913,189 | BOETTCHER, BONNIEJEAN                                | 2,811,330 |
| BAHUGUNI, ANAND                    | 2,859,625 | BEHNKE, ROBERT J., II              | 2,967,728 | BOHLIN, MARTIN HANS                                  | 2,875,589 |
| BAI, FENG                          | 2,871,737 | BELL HELICOPTER TEXTRON<br>INC.    | 2,967,228 | BOHNER, STEPHAN E.                                   | 2,954,312 |
| BAILEY, THOMAS F.                  | 2,937,732 | BELL HELICOPTER TEXTRON<br>INC.    | 2,972,878 | BOLD THERAPEUTICS, INC.                              | 2,835,885 |
| BAILEY, THOMAS R.                  | 2,966,466 | BELLANGER, ALEXANDRE               | 2,882,166 | BOMBARDELLI, EZIO                                    | 2,806,428 |
| BAKER HUGHES, A GE<br>COMPANY, LLC | 3,016,597 | BELLI, PAOLO                       | 2,890,585 | BONANO, SAMANTHA                                     | 2,929,040 |
| BAKER, DARRYL                      | 2,996,380 | BELOUSOVA, ELENA<br>EVGENYEVNA     | 2,957,653 | BONASIA, GAETANO                                     | 2,809,057 |
| BAKER, JOHN LESLIE                 | 2,868,111 | BEN MUVHAR, SHMUEL                 | 2,981,561 | BOND MANUFACTURING<br>CO., INC.                      | 2,969,620 |
| BAKKENES, HENDRIKUS<br>WILHELMUS   | 2,867,675 | BENALI, HABIB                      | 2,888,118 | BONNET, PASCAL GHISLAIN<br>ANDRE                     | 2,796,204 |
| BAKKER, CHRIS                      | 2,975,825 | BENEDETTI, LUCA                    | 2,914,143 | BORDIN, LINO                                         | 2,790,556 |
| BALI, ATUL                         | 2,945,688 | BENICHOU, FABRICE                  | 2,821,400 | BORMANN, DIERK                                       | 3,058,026 |
| BALL, LIAM                         | 2,942,317 | BENNETT, DAVID ALLISON             | 2,978,895 | BOROSS, CHRISTOPHER A.                               | 2,916,595 |
| BALL, MARTY SCOTT                  | 2,777,973 | BENNETT, STEPHEN<br>CHARLES        | 2,854,714 | BORTEY, ENOCH                                        | 2,859,203 |
| BALZ, ERIC                         | 2,984,500 | BENNETT, STEVEN W.                 | 2,860,422 | BOSSCHE, BART JUUL<br>WILHELMINA VAN DEN             | 2,801,748 |
| BANCHEREAU, JACQUES F.             | 2,754,743 | BERDINI, VALERIO                   | 2,796,204 | BOTMAN, JOHANNES PETRUS<br>MARIA                     | 2,890,726 |
| BANER, JOHAN                       | 2,821,906 | BERGENS, THOMAS                    | 2,878,933 | BOUDREAU, RYAN L.                                    | 2,827,380 |
| BANJEVIC, MILENA                   | 2,821,906 | BERGERON, RAYMOND J., JR.          | 2,859,406 | BOULANGER, JASON                                     | 2,955,614 |
| BANKER, EDWARD O.                  | 2,892,670 | BERGMAN, STEPHEN M.                | 2,812,687 | BOUNIEL, AUDREY CLAIRE<br>FRANCOISE                  | 3,008,246 |
| BAR-ILAN, AMIR                     | 2,962,219 | BERGQVIST, JENS                    | 2,975,083 | BOURNAY, LAURENT                                     | 2,819,921 |
| BARAKAT, ALANA                     | 2,917,700 | BERKOW, JAN                        | 2,804,788 | BOUTIQUE, JEAN-POL                                   | 3,008,246 |
| BARCO, KYLE THOMAS                 | 3,003,146 | BERRY, ALEXANDER<br>CHARLES        | 2,872,967 | BOYSEN, ANDRE                                        | 2,876,629 |
| BARNES, ANTHONY                    | 2,707,025 | BERTENSEN, POUL                    | 2,871,697 | BRADLEY, MICHAEL                                     | 3,031,486 |
| BARNES, BRYAN ROBERT               | 3,003,146 | BERTHOLD, MICHAEL S.               | 2,870,654 | BRADLEY, RICHARD WAYNE                               | 3,022,946 |
| BARNETT, BARRY                     | 2,754,254 | BERTI, MATTEO                      | 2,886,300 | BRADY, JENNIFER                                      | 2,890,910 |
| BARON, DOMINIC                     | 2,969,631 | BESIO, WALTER                      | 2,777,126 | BRANDT INDUSTRIES<br>CANADA LTD.                     | 2,960,550 |
| BARR, KENNETH                      | 2,871,514 | BESONG, GILBERT EBAI               | 2,796,204 | BRANDT, NATHAN ALLEN                                 | 2,884,744 |
| BARRON, ROBERT                     | 2,993,825 | BETELIA, RAY                       | 2,827,641 | BRANECKY, BRIAN T.                                   | 2,844,196 |
| BARSTEN, TROY                      | 2,785,582 | BEUTERBAUGH, AARON M.              | 3,009,163 | BRANNAN, JOSEPH D.                                   | 2,967,728 |
| BARTBERGER, MICHAEL<br>DAVID       | 2,799,972 | BHALODI, ANJANA KALPESH            | 2,827,861 | BRATSCH, CHRISTIAN                                   | 2,883,693 |
| BARTELS, JOSEPH                    | 2,871,149 | BHARATE, SANDIP BIBISHAN           | 2,960,455 | BREDNO, JOERG                                        | 2,914,475 |
| BARWICK, ADAM GLENN                | 2,977,682 | BHAT, RIYAZ                        | 2,825,691 | BRETHERTON, NEIL                                     | 2,817,456 |
| BASF COATINGS GMBH                 | 2,983,892 | BIAN, CHAO                         | 2,928,783 | BREZNA, WOLFGANG                                     | 3,000,570 |
| BASF COATINGS GMBH                 | 3,004,781 | BIANCO, WALTER                     | 2,857,602 | BRICE, FRANK P.                                      | 2,871,726 |
| BASF SE                            | 2,874,382 | BINDSEIL, GERON ANDRE              | 2,992,163 | BRIEVA, THOMAS                                       | 2,734,236 |
| BASF SE                            | 2,874,910 | BIOLAB SANUS<br>FARMACEUTICA LTDA. | 2,883,998 | BRIGGS, KYLE ALEXANDER<br>ZARKEL                     | 2,872,602 |
| BASIC HOLDINGS                     | 2,868,478 | BIOMERIEUX, INC.                   | 2,866,870 | BRILLET, CHRISTOPHE<br>MICHEL GEORGES                | 2,891,760 |
| BASTO, PAMELA                      | 2,740,155 | BIOSUCCESS BIOTECH CO.<br>LTD.     | 2,861,459 | BRINK-DANAN, SAGI                                    | 2,828,096 |
| BATES, MICHAEL                     | 2,835,284 | BIOTIME INC.                       | 2,814,860 |                                                      |           |
| BATTEN, WILLIAM C.                 | 2,892,674 | BIOVENTURES, LLC                   | 2,829,017 |                                                      |           |
| BAUER, JURGEN                      | 2,983,892 | BIRD, MARC W.                      | 3,016,597 |                                                      |           |
| BAUM, KEVIN L.                     | 2,903,452 |                                    |           |                                                      |           |
| BAUMANN, MIKE                      | 2,967,536 |                                    |           |                                                      |           |
| BAUSCH & LOMB<br>INCORPORATED      | 2,883,956 |                                    |           |                                                      |           |
| BAUSTAD, JOSTEIN                   | 2,873,621 |                                    |           |                                                      |           |
| BAUZA, AARON                       | 2,997,274 |                                    |           |                                                      |           |
| BAXTER HEALTHCARE S.A.             | 2,873,621 |                                    |           |                                                      |           |
| BAXTER HEALTHCARE SA               | 2,851,332 |                                    |           |                                                      |           |

## Index of Canadian Patents Issued August 25, 2020

|                                                |           |                                      |           |                                        |           |
|------------------------------------------------|-----------|--------------------------------------|-----------|----------------------------------------|-----------|
| BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED | 2,996,340 | CAPPELLE, MARK                       | 2,994,639 | CHEVRON CANADA LIMITED                 | 2,827,861 |
| BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED | 3,024,275 | CAPPS, ALAN                          | 3,031,486 | CHEVRON U.S.A. INC.                    | 2,872,792 |
| BROBERG, NICHOLAS                              | 2,960,550 | CAPRIOTTI, JOSEPH                    | 2,847,364 | CHEVRON U.S.A. INC.                    | 2,872,793 |
| BRODY, JEROME S.                               | 2,528,572 | CAPSON, SAMUEL J.                    | 2,952,883 | CHEVRON U.S.A. INC.                    | 2,878,323 |
| BROWN, WILLIAM B.                              | 2,871,726 | CAPSTAN AG SYSTEMS, INC.             | 2,830,306 | CHEVRON U.S.A. INC.                    | 2,883,983 |
| BRUNNER, WILLI                                 | 2,764,357 | CARBON TECHNOLOGY HOLDINGS, LLC      | 2,833,286 | CHIANG, MUNG                           | 2,886,147 |
| BRYANT, ANTHONY J.                             | 2,982,550 | CARDEN, BRIAN ALLEN                  | 3,012,638 | CHICK, JAMES STEVEN                    | 2,998,809 |
| BUCHER, ARMIN                                  | 2,876,422 | CARDER, KENNETH H.                   | 2,840,238 | CHILDERS, TEDD ALAN                    | 2,960,846 |
| BUCHSTALLER, HANS-PETER                        | 2,856,103 | CARL FREUDENBERG KG                  | 2,959,214 | CHILDREN'S MEDICAL CENTER CORPORATION  | 2,636,417 |
| BUDD, KENTON D.                                | 2,871,737 | CARLSON, BRIAN P.                    | 2,831,399 | CHINA PETROLEUM & CHEMICAL CORPORATION | 3,015,984 |
| BUDILOVSKIS, DANAS                             | 2,875,323 | CARNEY, DARRELL H.                   | 2,663,547 | CHITANDA, JACKSON                      | 2,821,348 |
| BUERMANN, MARITA                               | 2,983,892 | CARNOT COMPRESSION INC.              | 3,001,809 | CHITANDA, JACKSON                      | 2,849,588 |
| BUFFALO FILTER LLC                             | 2,929,040 | CARTER, CHAD                         | 3,004,864 | CHODORGE, JEAN-ALAIN                   | 2,819,921 |
| BUGGY, STEPHEN                                 | 3,017,775 | CARTERI, JONATHAN ROBERT             | 2,960,550 | CHOI, SUNG MIN                         | 2,941,230 |
| BUGGY, STEPHEN                                 | 3,018,102 | CARVAJAL, GUSTAVO                    | 2,975,591 | CHOI, SUNG MIN                         | 2,941,232 |
| BUHOT, MICHAEL                                 | 2,876,013 | CASEBOLT, SCOTT C.                   | 2,877,993 | CHOI, SUNGWON                          | 3,009,486 |
| BUILDER'S BEST, INC.                           | 2,916,774 | CASIMIRO-GARCIA, AGUSTIN             | 2,987,179 | CHOO, KI-HYUN                          | 2,981,539 |
| BUNCH, MICHAEL                                 | 2,978,658 | CASSINGHAM, CHARLES VAUGHN           | 2,795,261 | CHOU, TI                               | 2,853,948 |
| BUNEL, SERGE                                   | 2,882,166 | CASTILLO AQUEVEQUE, ROGELIO FERNANDO | 2,942,634 | CHRISTIANSEN, LISA                     | 2,877,173 |
| BUNGIE, INC.                                   | 2,799,182 | CATERPILLAR INC.                     | 3,033,341 | CHRISTY, ROBERT C.                     | 2,872,509 |
| BURCKART, ERIK JOHN                            | 3,022,251 | CAVKA, ADNAN                         | 3,035,054 | CHU, CHUNG CHEUNG                      | 2,842,886 |
| BURK, MARK                                     | 2,874,084 | CECCARELLI, SIMONA M.                | 2,878,435 | CHUN, DONG HYUN                        | 2,983,738 |
| BURKE, BENJAMIN                                | 2,827,636 | CELL SIGNALING TECHNOLOGY, INC.      | 2,841,900 | CHURCH & DWIGHT CO., INC.              | 2,981,752 |
| BURKHARD, GREGOR                               | 2,908,558 | CELULARITY, INC.                     | 2,734,236 | CINDON DEVELOPMENTS INC.               | 3,007,794 |
| BURTON SAW AND SUPPLY, L.L.C.                  | 3,042,072 | CERTAINTEE CORPORATION               | 3,012,785 | CIZMAN, BORUT                          | 2,873,621 |
| BUSATTA, NICOLA                                | 2,967,232 | CHABALA, JOHN CLIFFORD               | 2,782,015 | CLAESSENS, MARIANNE                    | 2,978,658 |
| BUSH, SCOTT                                    | 2,917,700 | CHABANNE, PIERRE                     | 2,891,760 | CLARIANT INTERNATIONAL LTD             | 2,958,113 |
| BUSH-DONOVAN, CHARLENE                         | 2,638,782 | CHADDOCK, JOHN                       | 2,835,285 | CLARK, DON ROBERTS                     | 2,977,682 |
| BUSHORE, KEVIN M.                              | 2,814,602 | CHAKRABORTY, ABIR                    | 2,976,365 | CLARK, NEIL J.                         | 3,005,852 |
| BUTAMAX ADVANCED BIOFUELS LLC                  | 2,842,565 | CHAKRABORTY, ABIR                    | 3,004,344 | CLARK, WARREN                          | 2,874,084 |
| BUTTERFLY FLEXIBLE SEATING SOLUTIONS LIMITED   | 2,969,000 | CHAMBERLAIN, AARON                   | 2,958,185 | CLEAR EDGE-GERMANY GMBH                | 2,969,631 |
| BWXT MPOWER, INC.                              | 2,870,654 | CHAMBERLIN, IAN                      | 2,769,380 | CLEEK, ROBERT L.                       | 3,010,824 |
| BYUN, DAEWOOK                                  | 3,036,482 | CHAMBRE, MARION                      | 2,898,864 | CLEM, WILLIAM E.                       | 2,809,988 |
| C.M.C. S.R.L. - SOCIETA UNIPERSONALE           | 2,877,987 | CHAMPION TECHNOLOGIES LTD            | 2,817,456 | CLEVERS, JOHANNES CAROLUS              | 2,859,614 |
| C.R. BARD, INC.                                | 3,047,273 | CHANG, CHIA-CHEN                     | 2,983,326 | CLEYLE, PETER JOSEPH                   | 2,911,776 |
| C.R. LAURENCE CO., INC.                        | 2,998,171 | CHANG, HUI KYOUNG                    | 2,877,442 | CLINTON, CHARLES M.                    | 2,769,380 |
| CAA CLUB GROUP                                 | 2,809,689 | CHANTELOUP, DENIS LUC ALAIN          | 2,894,210 | CLOKIE, CAMERON M.L.                   | 2,868,992 |
| CADILLA, RODOLFO                               | 2,879,104 | CHAPMAN, CAROLINE                    | 2,707,025 | CLYMER, ERICA L.                       | 3,003,146 |
| CADOUR, DAMIEN                                 | 2,821,400 | CHAPMAN, KAREN B.                    | 2,814,860 | CMICH, RYAN                            | 2,878,285 |
| CADY, SUSAN MANCINI                            | 2,857,958 | CHAPMAN, ROBERT CLARK                | 2,857,958 | CMP GROUP LTD.                         | 3,036,419 |
| CAGLE, GERALD D.                               | 2,782,015 | CHARLTON, MORGAN                     | 2,942,317 | CNH INDUSTRIAL AMERICA LLC             | 2,927,766 |
| CAIS, FEDERICO                                 | 2,967,232 | CHEN, HONG J.                        | 2,734,236 | CNH INDUSTRIAL AMERICA LLC             | 2,930,111 |
| CALDWELL, JOHN RYAN                            | 2,934,280 | CHEN, HUNG-FONG                      | 2,861,459 | CNH INDUSTRIAL AMERICA LLC             | 2,957,779 |
| CALIBER, INC.                                  | 2,890,811 | CHEN, JULES                          | 2,840,964 | CNH INDUSTRIAL AMERICA LLC             | 2,959,933 |
| CALIX LTD                                      | 2,970,166 | CHEN, PO-YANG                        | 2,983,326 | CNH INDUSTRIAL CANADA, LTD.            | 2,903,628 |
| CALVIN, JAMES ELDON, III                       | 3,017,486 | CHEN, QILLIN                         | 2,862,907 | COBLER, BRAD A.                        | 2,936,547 |
| CAMPOS, TOMAS ARIEL                            | 2,864,743 | CHEN, XIAOQI                         | 2,799,972 | COBOS, SYGFREDO                        | 2,884,924 |
| CANADIAN NATURAL UPGRADING LIMITED             | 2,827,861 | CHEN, YIN-PENG                       | 2,840,964 | COCHRAN, RUSSELL W.                    | 2,911,666 |
| CANE, MICHAEL ROGER                            | 2,898,248 | CHEN, YONG QING                      | 2,785,020 | COELUX S.R.L.                          | 2,891,536 |
| CANTIN SANZ, ANGEL                             | 2,947,052 | CHEN, ZHENXIANG                      | 3,000,420 | COFFMAN, KENNETH R.                    | 3,019,319 |
| CAO, GUOZHONG                                  | 2,783,416 | CHENG, CHIEH                         | 2,967,536 | COHEN, ADAM E.                         | 2,787,242 |
| CAPE, SAMUEL M.                                | 2,845,610 | CHENG, MICHAEL TUNG-HAI              | 2,878,323 | COHN, DANIEL                           | 2,842,886 |
| CAPITAL ONE SERVICES, LLC                      | 3,064,122 | CHEREWYK, BORIS (BRUCE) P.           | 2,989,914 |                                        |           |
| CAPOGLU, ILKER R.                              | 3,029,192 | CHERNIK, RYAN A.                     | 2,831,399 |                                        |           |
|                                                |           | CHERRY, MARK A.                      | 3,001,809 |                                        |           |

**Index des brevets canadiens délivrés  
25 août 2020**

|                          |           |                          |           |                          |           |
|--------------------------|-----------|--------------------------|-----------|--------------------------|-----------|
| COLBY, LEIGH E.          | 2,939,815 | CROSS, PAUL C.           | 2,868,776 | DENUTTE, HUGO ROBERT     |           |
| COLBY, LEIGH E.          | 2,939,821 | CROWLEY, SCOTT           | 2,894,851 | GERMAIN                  | 3,008,246 |
| COLE, ERIC V.            | 3,005,852 | CRS HOLDINGS, INC.       | 2,999,946 | DEPOOT, KAREL JOZEF      |           |
| COLEMAN, GARY W.         | 2,911,666 | CRYAN, MARC              | 2,811,330 | MARIA                    | 3,008,246 |
| COLEMAN, JACK            | 3,008,065 | CRYDERMAN, CHRISTOPHER   |           | DEPRAZ DEPLAND, DAVID    | 2,818,681 |
| COLENBRANDER,            |           | RYAN                     | 2,911,776 | DESILVA, DILAN           | 2,917,700 |
| GERHARDUS WILLEM         | 2,827,861 | CRYSTAL BIOSCIENCE INC.  | 2,835,222 | DESJARLAIS, JOHN RUDOLPH | 2,958,185 |
| COLGATE-PALMOLIVE        |           | CUILLERY, PASCAL         | 2,841,678 | DESOUZA, ALANA RAH       | 2,926,275 |
| COMPANY                  | 2,997,306 | CULBERTSON, DEBORAH L.   | 2,874,382 | DESPEN, DANIEL J.        | 2,833,286 |
| COLLINS, ARLAN           | 3,015,813 | CULLY, EDWARD H.         | 3,010,824 | DESPOIS, AUDE            | 2,971,618 |
| COLLINS, MATTHEW R.      | 2,803,313 | CULP, WILLIAM            | 2,829,017 | DESROSIERS, TONI MARIE   | 2,942,317 |
| COLLINS, WILLIAM R.      | 2,981,809 | CUMMING, HUGH            | 2,876,629 | DEUTSCHE TELEKOM AG      | 2,954,464 |
| COLLINSON, SARAH JENNY   | 2,843,133 | CUOMO, GENNARO           | 3,022,251 | DEVITT, ANDREW           | 2,968,755 |
| COLORCULTURE NETWORK,    |           | CURRIN, DAVID BRETT      | 2,942,634 | DEWITT, BRANDON          | 2,934,280 |
| LLC                      | 2,917,700 | CUSTERS, DAVID           | 2,971,618 | DEZARD, SOPHIE           | 2,879,583 |
| COMCAST CABLE            |           | CYR, DOUGLAS ROBERT      | 2,878,323 | DHAESE, PATRICK MARKUS   | 2,850,214 |
| COMMUNICATIONS           |           | CYTEX THERAPEUTICS, INC. | 2,962,223 | DI TRAPANI, PAOLO        | 2,891,536 |
| MANAGEMENT, LLC          | 2,875,845 | CZEKAJ, STEVEN A.        | 3,012,673 | DIACHINA, JOHN WALTER    | 2,953,294 |
| COMMISSARIAT A L'ENERGIE |           | D B INDUSTRIES, LLC      | 2,877,993 | DIAMOND INNOVATIONS,     |           |
| ATOMIQUE ET AUX          |           | D'ASTOLFO, LEROY E.      | 3,012,673 | INC.                     | 3,016,597 |
| ENERGIES                 |           | DACK, KEVIN NEIL         | 3,007,595 | DICKERT, COREY J.        | 2,827,321 |
| ALTERNATIVES             | 2,879,583 | DAHIYAT, BASSIL          | 2,958,185 | DICLAUDIO, KAREN A.      | 3,047,273 |
| COMPAGNIE GENERALE DES   |           | DAHLGREN, ARON D.        | 2,831,399 | DICORPO, PHILLIP         | 2,828,744 |
| ETABLISSEMENTS           |           | DAI, DONGCHENG           | 2,966,466 | DIENST, JOHNATHON R.     | 2,930,111 |
| MICHELIN                 | 2,868,136 | DALGAARD-NIELSEN, IB     |           | DIEPENBROCK, VERA        | 2,983,892 |
| COMPUCAGE                |           | VERNER                   | 3,019,454 | DIETRICH, DANIEL         | 2,748,465 |
| INTERNATIONAL INC.       | 2,847,967 | DALVAND, IZADYAR         | 2,878,323 | DIETRICH, DAVID MICHAEL  | 2,911,666 |
| CONDON, JEFFREY SCOTT    | 2,987,179 | DAMUS, ROBERT S.         | 2,904,675 | DILGARD, TIM             | 2,878,285 |
| CONGRATEL, SEBASTIEN     | 2,898,864 | DANIEL, KENNETH J.       | 2,803,313 | DIMBYLOW, STEPHEN        |           |
| CONNOR, SIDNEY A.        | 2,977,952 | DANIELSSON, FREDRIK      | 2,872,970 | ROBERT                   | 3,011,291 |
| CONNORS, MICHAEL J.      | 2,930,111 | DANISCH, LEE ALLEN       | 2,911,175 | DING, WEIJIANG           | 2,918,484 |
| CONNORS, RICHARD VICTOR  | 2,799,972 | DARCY, STEVEN            | 2,898,782 | DISH NETWORK LLC         | 2,762,374 |
| CONROY, THOMAS A.        | 2,950,592 | DARNELL, CHARLES J.      | 2,559,137 | DISH TECHNOLOGIES L.L.C. | 2,977,516 |
| CONSOLI, LUCIANO         | 2,840,001 | DARVISH, NISSIM          | 2,981,561 | DIVO, FABIEN             | 2,850,212 |
| CONTET, AUDE             | 2,873,522 | DAS, ABHISHEK            | 2,876,629 | DOBI, ALBERT             | 2,719,172 |
| COOKE, NIGEL GRAHAM      | 2,857,302 | DATHE, PAUL              | 2,890,811 | DOCKTER, NATHAN D.       | 3,013,837 |
| COON, JONATHAN           | 2,948,356 | DAVICIONI, ELAI          | 2,753,916 | DODD, MICHAEL            | 2,877,493 |
| COOPER, ROBIN D.         | 2,873,621 | DAVIDSON, BEVERLY L.     | 2,827,380 | DOLBY INTERNATIONAL AB   | 3,009,237 |
| COOPER, RUSSELL EVAN     | 2,872,792 | DAVIS, JAMES             | 3,004,773 | DOLNIKOVA, GALINA        |           |
| COOPER, RUSSELL EVAN     | 2,872,793 | DAVIS, MICHAEL           | 2,911,513 | ALEKSANDROVNA            | 2,957,653 |
| CORBION BIOTECH, INC.    | 2,825,691 | DAYCO IP HOLDINGS, LLC   | 2,872,509 | DOMINGO, JUAN            | 2,827,641 |
| CORCORAN, EDWARD W., JR. | 2,947,052 | DDP SPECIALTY            |           | DOMINION ENGINEERING,    |           |
| CORMA CANOS, AVELINO     | 2,947,052 | ELECTRONIC               |           | INC.                     | 2,879,912 |
| CORONADO, JOSE LUIS      | 2,881,345 | MATERIALS US, INC.       | 2,872,634 | DOMINOWSKI, PAUL JOSEPH  | 2,960,846 |
| CORTEN, CATHRIN          | 3,004,781 | DE VOCHT, MARCEL LEO     | 2,776,461 | DONDERICI, BURKAY        | 3,029,192 |
| COTTONE, SHAUN           | 2,914,258 | DECIPHER BIOSCIENCES,    |           | DONEGAN, JAMES J.        | 3,008,065 |
| COUNCIL OF SCIENTIFIC    |           | INC.                     | 2,753,916 | DONELLO, JOHN E.         | 2,855,390 |
| AND INDUSTRIAL           |           | DECIU, COSMIN            | 2,785,020 | DONG, XIAOQIANG          | 3,015,984 |
| RESEARCH                 | 2,960,455 | DECIU, COSMIN            | 2,874,195 | DORN, JUERGEN            | 2,748,465 |
| COURTNEY, BRIAN MICHAEL  | 3,003,146 | DEDOV, ALEKSEI           |           | DOUGHERTY, DORIS A.      | 2,978,658 |
| COUTURE, PIERRE          | 2,871,950 | GEORGIEVICH              | 2,957,653 | DOURA, MOHAMED MEDHI     | 3,017,158 |
| COVALT, JOHNNY           | 3,022,946 | DEFIEBER, CHRISTIAN      | 2,874,382 | DOW AGROSCIENCES LLC     | 2,861,638 |
| COVIDIEN LP              | 2,918,484 | DEIGNAN, JEFFREY         | 2,799,972 | DOW AGROSCIENCES LLC     | 2,862,907 |
| COVIDIEN LP              | 2,967,728 | DEKALB, SHAWN WAYNE      | 2,995,009 | DOW GLOBAL               |           |
| COX, MICHAEL JOHN HENRI  | 2,852,636 | DEKKERS, JOHANNA         |           | TECHNOLOGIES LLC         | 2,879,804 |
| CRAFTS, JORDAN H.        | 3,003,146 | FLORENTIA                | 2,859,614 | DRAEGE, ANDERS           | 2,882,494 |
| CRANKE, CHRISTOPHER T.   | 2,965,316 | DEL TURCO, PAOLO         | 2,886,300 | DRAGOSTINOFF, NIKOLAUS   | 3,000,570 |
| CRARY, STEVEN F.         | 2,868,813 | DELANGHE, ERNEST J.      | 2,890,811 | DRAKE, DANIEL V.         | 2,973,627 |
| CRAWFORD PACKAGING       |           | DELCHAMBRE, MICHAEL      | 2,925,503 | DRIVER, MICHAEL SEAN     | 2,878,323 |
| INC.                     | 2,952,883 | DEMKO, ZACHARY           | 2,821,906 | DRUMHELLER, PAUL D.      | 3,010,824 |
| CRISI MEDICAL SYSTEMS,   |           | DENARO, CHRISTOPHER R.   | 2,987,192 | DSM IP ASSETS B.V.       | 2,857,467 |
| INC.                     | 2,995,009 | DENSO INTERNATIONAL      |           | DU, XIANTAO              | 2,950,450 |
| CROSBY, KATHERINE        |           | AMERICA, INC.            | 2,919,662 | DUBOIS CHEMICALS, INC.   | 2,868,797 |
| ELEANOR                  | 2,841,900 | DENTON, ROBERT D.        | 3,024,545 | DUBOURDIEU, JEAN MARC    | 2,894,210 |

## Index of Canadian Patents Issued August 25, 2020

|                         |           |                          |           |                         |           |
|-------------------------|-----------|--------------------------|-----------|-------------------------|-----------|
| DUBS, GREGORY ALAN      | 2,877,692 | ELEFThERIOU, ANDREAS     | 2,754,254 | EXXONMOBILE UPSTREAM    |           |
| DUCE, JEFFREY LYNN      | 2,783,416 | ELIS, WINFRIED           | 2,806,637 | RESEARCH COMPANY        | 3,024,545 |
| DUDLEY, TIMOTHY L.      | 2,906,653 | ELLENS, DOUGLAS C.       | 2,869,059 | F. HOFFMANN-LA ROCHE AG | 2,871,389 |
| DUER, MICHAEL J.        | 2,934,752 | ELSYCA N.V.              | 2,801,748 | F. HOFFMANN-LA ROCHE AG | 2,878,435 |
| DUFFAUT, KENNETH        | 2,882,494 | ELWELL, JAMES P.         | 3,004,576 | F. HOFFMANN-LA ROCHE AG | 2,923,706 |
| DUHOVICH, ALEXEI        | 3,048,188 | ELYSIS LIMITED           |           | F. HOFFMANN-LA ROCHE AG | 2,994,601 |
| DUNHAM, BRUCE           | 2,868,797 | PARTNERSHIP              | 3,012,673 | F. HOFFMANN-LA ROCHE AG | 3,008,822 |
| DUPREE, WADE D.         | 2,870,165 | EMBRECHTS, WERNER        |           | FACCHINELLO, JEROME J.  | 3,004,864 |
| DUQUETTE, JASON         | 2,799,972 | CONSTANT JOHAN           | 2,796,204 | FAIRCHILD FASTENERS     |           |
| DURAND-DUBIEF, MICKAEL  | 2,985,163 | EMDE, ULRICH             | 2,856,103 | EUROPE - CAMLOC         |           |
| DURBIN, KRISTINE        | 3,042,041 | EMERSON PROCESS          |           | GMBH                    | 3,030,191 |
| DURRANT, RICHARD C. E.  | 2,912,155 | MANAGEMENT               |           | FALLONE, B. GINO        | 2,827,636 |
| DURSun, SERKAN          | 2,948,321 | REGULATOR                |           | FANNON, JOHN            | 2,867,603 |
| DW TECHNOLOGIES PTY LTD | 2,869,237 | TECHNOLOGIES, INC.       | 2,868,042 | FARINE, MARIE           | 2,898,248 |
| DYSON TECHNOLOGY        |           | EMERSON PROCESS          |           | FARIVAR, REZA           | 3,064,122 |
| LIMITED                 | 3,011,291 | MANAGEMENT               |           | FARKAS, JULIUS          | 2,899,226 |
| E. & J. GALLO WINERY    | 2,890,910 | REGULATOR                |           | FARMER, JEFFREY JAMES   | 2,854,864 |
| E.V. OFFSHORE LIMITED   | 2,821,100 | TECHNOLOGIES, INC.       | 2,885,735 | FAROKHZAD, OMID C.      | 2,740,155 |
| EASTER, C. CLARK        | 2,942,634 | EMPI CORP.               | 2,711,432 | FARRAR, JARED STEVEN    | 2,873,991 |
| EATON INTELLIGENT POWER |           | EMRGE, LLC               | 2,850,521 | FARRITOR, SHANE         | 2,871,149 |
| LIMITED                 | 2,839,812 | ENDL, JOSEF              | 3,008,822 | FARRUGIA, VALERIE M.    | 2,926,275 |
| EATON INTELLIGENT POWER |           | ENDO, NARUHIKO           | 2,944,769 | FARSHCHIAN, SOHEIL      | 3,010,961 |
| LIMITED                 | 2,884,744 | ENE29 S.AR.L.            | 2,925,503 | FATTAL, DAVID A.        | 3,006,560 |
| EATON INTELLIGENT POWER |           | ENGEL, TOBIAS            | 2,979,903 | FAUS GIMENEZ, HORTENSIA | 2,877,786 |
| LIMITED                 | 2,894,561 | ENGLE, RYAN              | 2,948,356 | FAVERO, CEDRICK         | 2,847,680 |
| EATON INTELLIGENT POWER |           | ENKAKU, SHIGEYUKI        | 2,895,591 | FAYADAT-DILMAN,         |           |
| LIMITED                 | 2,998,806 | ENZO LIFE SCIENCES, INC. | 3,008,065 | LAURENCE                | 2,957,275 |
| EAVENSON, JIMMY N., SR. | 2,878,285 | EPIROC ROCK DRILLS       |           | FEI COMPANY             | 2,876,013 |
| EAVES, FELMONT FARRELL, |           | AKTIEBOLAG               | 2,889,508 | FEINSTEIN, ELENA        | 2,851,296 |
| III                     | 2,850,521 | EQUALAIRE SYSTEMS, INC.  | 2,882,648 | FEINSTEIN, ELENA        | 2,962,219 |
| EBELING, THOMAS         | 2,879,293 | EQUINOR ENERGY AS        | 2,882,494 | FEMTONICS KFT.          | 2,931,603 |
| EBERSPACHER CLIMATE     |           | ERA, TOMOHIRO            | 2,878,431 | FENDROCK, CHARLES       | 2,811,330 |
| CONTROL SYSTEMS         |           | ERICKSON, GRANT M.       | 2,916,595 | FENG, YANHONG           | 2,989,360 |
| GMBH & CO. KG           | 3,009,893 | ERNSTAD, BJORN           | 2,907,851 | FENNY, CARLOS           |           |
| EBERT, GREGOR KLAUS-    |           | ESPINOSA, THOMAS M.      | 2,988,406 | ALEXANDER               | 2,967,228 |
| PETER                   | 2,913,189 | ESSILOR INTERNATIONAL    | 2,850,212 | FERNANDES GOMES DOS     |           |
| ECOLAB USA INC.         | 2,831,399 | ESSILOR INTERNATIONAL    | 2,871,056 | SANTOS, PAULO           |           |
| ECOLAB USA INC.         | 2,858,201 | ESSILOR INTERNATIONAL    | 2,873,522 | ANTONIO                 | 2,857,302 |
| ECOLAB USA INC.         | 2,859,172 | ESTES, BRADLEY T.        | 2,962,223 | FERNANDEZ, LUCAS        | 2,827,641 |
| ECOLAB USA INC.         | 2,984,500 | ETALIM INC.              | 2,885,178 | FERREIRA GODINHO,       |           |
| EDDY, JOHN AARON        | 3,077,714 | ETCHES, ROBERT           | 2,835,222 | CARLOS ALBERTO          | 2,917,253 |
| EDGETT, KEITH J.        | 2,881,345 | ETHICON ENDO-SURGERY,    |           | FERREIRA, ILDEFONSO     | 3,007,806 |
| EDWARDS, DAVID          | 3,042,041 | INC.                     | 2,809,988 | FESKE, STEFAN           | 2,636,417 |
| EGAWA, TORU             | 2,811,652 | ETO, KOJI                | 2,774,193 | FEUERBACH, DOMINIK      | 2,852,268 |
| EGER, JOHANNES          | 3,009,893 | ETTENBERG, SETH          | 2,806,637 | FEVOLA, MICHAEL J.      | 2,798,999 |
| EHRICH, MATHIAS         | 2,785,020 | EUROKEG B.V.             | 2,880,150 | FIALLOS, OMAR           | 2,947,863 |
| EIERHOFF, DIRK          | 3,004,781 | EUTILEX CO., LTD.        | 3,039,772 | FICHLER, CHRISTINE      | 2,882,494 |
| EILOS, ISTO             | 2,837,418 | EVERMAN, REBECCA L.      | 2,871,737 | FILDANI, ANDREA         | 2,883,983 |
| EKSTEROWICZ, JOHN       | 2,799,972 | EVERMARK, KENT           | 2,884,417 | FINDEIS, THORSTEN       | 3,009,893 |
| EL-ANEED, ANAS          | 2,849,588 | EVERSON, TERRENCE P.     | 2,859,172 | FINE, ALAN MARC         | 2,953,620 |
| ELC MANAGEMENT LLC      | 2,999,750 | EVONIK FIBRES GMBH       | 2,891,492 | FINISON, JEREMY         | 2,858,201 |
| ELC MANAGEMENT LLC      | 3,012,104 | EXACTECH, INC.           | 2,907,537 | FINKELSTEIN, SERGE      | 3,031,189 |
| ELECTRIC HORSEPOWER     |           | EXNER, MAURICE           | 2,840,964 | FINNAN, BRIAN G.        | 2,871,726 |
| INC.                    | 2,960,052 | EXPONENTIAL              |           | FIORAVANTI, FABIO       | 2,857,602 |
| ELECTRIC POWER          |           | TECHNOLOGIES, INC.       | 3,010,961 | FISHER & PAYKEL         |           |
| RESEARCH INSTITUTE,     |           | EXTANG CORPORATION       | 3,004,864 | HEALTHCARE LIMITED      | 2,785,582 |
| INC.                    | 2,874,665 | EXXONMOBIL CHEMICAL      |           | FISHER & PAYKEL         |           |
| ELECTRIC POWER          |           | PATENTS INC.             | 3,001,494 | HEALTHCARE LIMITED      | 2,852,636 |
| RESEARCH INSTITUTE,     |           | EXXONMOBIL RESEARCH      |           | FISHER CONTROLS         |           |
| INC.                    | 2,915,652 | AND ENGINEERING          |           | INTERNATIONAL LLC       | 2,840,238 |
| ELECTROMED, INC.        | 2,868,776 | COMPANY                  | 2,947,052 | FISHER CONTROLS         |           |
| ELECTRONICS AND         |           | EXXONMOBIL UPSTREAM      |           | INTERNATIONAL LLC       | 2,843,920 |
| TELECOMMUNICATIONS      |           | RESEARCH COMPANY         | 2,868,111 | FISHER, BENJAMIN        | 2,799,972 |
| RESEARCH INSTITUTE      | 2,965,067 |                          |           | FISHER, CHAD ADAM       | 3,030,547 |

**Index des brevets canadiens délivrés  
25 août 2020**

|                                                                            |           |                                                               |           |                                     |           |
|----------------------------------------------------------------------------|-----------|---------------------------------------------------------------|-----------|-------------------------------------|-----------|
| FLAMAR, ANNE-LAURE                                                         | 2,754,743 | GALANAUD, DAMIEN                                              | 2,888,118 | GLEDHILL, ANDREW                    | 3,016,597 |
| FLEISHMAN, JACK                                                            | 2,435,909 | GALANT, STEVE N.                                              | 2,847,967 | GLEZER, ELI N.                      | 2,769,380 |
| FLEMING, GRAHAM C.                                                         | 3,035,552 | GALINDEZ, ALAN DALE                                           | 2,828,744 | GLINSKY, VADIM                      | 2,757,704 |
| FLICK, ANDREW<br>CHRISTOPHER                                               | 2,987,179 | GALLUP, DARRELL LYNN                                          | 2,872,792 | GLYCOMIMETICS, INC.                 | 2,891,514 |
| FLOORING INDUSTRIES<br>LIMITED, SARL                                       | 2,994,639 | GALLUP, DARRELL LYNN                                          | 2,872,793 | GOCKEL, BIRGIT                      | 2,874,382 |
| FLOWSERVE MANAGEMENT<br>COMPANY                                            | 3,048,264 | GAMBRO LUNDIA AB                                              | 2,893,478 | GODA, KOJI                          | 2,999,834 |
| FLUIDIGM CANADA INC.                                                       | 2,852,043 | GANSER, MARTIN                                                | 3,008,452 | GODFREY, GRAHAM                     | 2,981,752 |
| FLORK, ROBERT                                                              | 2,960,052 | GAO, YANG                                                     | 2,952,888 | GODWIN, BRIAN                       | 2,994,601 |
| FONSECA, BENEDITO J., JR.                                                  | 2,903,452 | GARCIA CASTELBLANCO,<br>ROBERTO                               | 2,994,880 | GOETZ, WOLFGANG                     | 2,788,172 |
| FORD, DEAN M.                                                              | 2,876,695 | GARCIA, CESAR G.                                              | 2,894,851 | GOLDHABER, LYNN<br>SHAINDELL        | 2,978,895 |
| FORESIGHT<br>BIOTHERAPEUTICS, INC.                                         | 2,847,364 | GARDNER, ROBERT A.                                            | 3,018,458 | GOMEZ-MANCILLA,<br>BALTAZAR         | 2,852,268 |
| FORSBACK, GUNITA                                                           | 2,893,478 | GARFIELD, JARED                                               | 2,999,123 | GONCALVES LEITE DE<br>ASSUNCAO, ANA | 2,767,957 |
| FORSMAN, MATS                                                              | 2,940,731 | GARLOCK SEALING<br>TECHNOLOGIES LLC                           | 2,875,487 | GONZALEZ BUENROSTRO,<br>ANA         | 2,799,972 |
| FORT HILLS ENERGY L.P.                                                     | 2,848,254 | GARNER, ANDREW PAUL                                           | 2,806,637 | GONZALEZ LOPEZ DE<br>TURISO, FELIX  | 2,799,972 |
| FOSSUM, THERESA W.                                                         | 2,663,547 | GARST, MICHAEL E.                                             | 2,855,390 | GONZALEZ, RICHARD T.                | 3,019,319 |
| FOSTER, KELCY JAKE                                                         | 3,000,679 | GARVEY, PAUL WILLIAM                                          | 2,896,823 | GOODSITT, JEREMY<br>EDWARD          | 3,064,122 |
| FOUCHER, PIERRE-ARNAUD                                                     | 2,870,165 | GASSLER, PAUL D.                                              | 2,956,402 | GOOGLE LLC                          | 2,823,170 |
| FOUILLARD, PHIL                                                            | 2,957,757 | GATENBY, KEVIN MICHAEL                                        | 2,919,662 | GOOGLE LLC                          | 2,916,595 |
| FOWLSTON, STEPHEN                                                          | 2,839,812 | GATES CORPORATION                                             | 3,003,187 | GOPALSAMY, ARIAMALA                 | 2,987,179 |
| FOX, BRIAN MATTHEW                                                         | 2,799,972 | GAURIAN CORPORATION                                           | 3,010,302 | GOSNELL, JONATHAN D.                | 2,845,610 |
| FRANCHET, JEAN-MICHEL                                                      | 2,870,229 | GAUTCHIER, PETER M.                                           | 2,978,658 | GOSSETT, CHRISTOPHER<br>MICHAEL     | 2,799,182 |
| FRANCOTYP-POSTALIA<br>GMBH                                                 | 3,021,464 | GAYDOS, COREY                                                 | 2,907,537 | GOTO, TAKUYA                        | 2,974,790 |
| FRANKLIN, SCOTT                                                            | 2,825,691 | GAYNOR, MELISSA R.                                            | 2,854,864 | GOTTFRIED, KRISTJAN                 | 3,010,961 |
| FRANKOWSKI, SCOTT<br>EDWARD                                                | 2,935,074 | GE OIL & GAS LOGGING<br>SERVICES, INC.                        | 2,886,416 | GOTTFRIED, KRISTJAN TOD             | 2,885,178 |
| FRAYER, MAXIM                                                              | 2,878,354 | GEIGER, JAMES                                                 | 2,873,593 | GOTTSCALK, THOMAS<br>JOHN           | 2,887,280 |
| FREDERICK, THOMAS                                                          | 2,871,149 | GEIGTECH EAST BAY LLC                                         | 2,873,593 | GOVAERTS, TOM CORNELIS<br>HORTENSE  | 2,796,204 |
| FREITAG, NICOLE                                                            | 3,004,781 | GEMELOS, GEORGE                                               | 2,821,906 | GOYAL, MAYANK                       | 2,884,606 |
| FRENCH, JAMES E.                                                           | 2,896,111 | GENDRON, JEAN-PHILIPPE                                        | 2,888,536 | GOZANI, SHAI N.                     | 2,811,330 |
| FRENCH, MAT                                                                | 2,897,041 | GENERAL CABLE<br>TECHNOLOGIES<br>CORPORATION                  | 2,935,074 | GRAHAM, CURT T.                     | 3,013,837 |
| FREUE, GUILLERMO J.<br>COHEN                                               | 2,877,303 | GENIAS VENTURES PTY LTD                                       | 2,898,782 | GRATTON, MAX STEPHEN                | 2,762,374 |
| FREYNE, EDDY JEAN<br>EDGARD                                                | 2,796,204 | GENOMATICA, INC.                                              | 2,874,084 | GRAUX, STEPHANE                     | 2,863,090 |
| FRICKE, WILLIAM BRYCE                                                      | 3,003,146 | GERA, MORAN                                                   | 2,973,812 | GRAVITY PRODUCT<br>DEVELOPMENT, LLC | 3,010,591 |
| FRISZ, WILLIAM                                                             | 2,868,797 | GERHARDT, TOBIAS                                              | 2,979,903 | GREEN CROSS HOLDINGS<br>CORPORATION | 2,941,230 |
| FRITSCH, MARTIN                                                            | 2,877,786 | GERSTER, ECKART                                               | 2,986,638 | GREEN CROSS HOLDINGS<br>CORPORATION | 2,941,232 |
| FU, JIASHENG                                                               | 2,799,972 | GESKE, RALF                                                   | 3,004,953 | GREEN POWER LABS INC.               | 2,933,360 |
| FU, ZICE                                                                   | 2,799,972 | GHAFFARI, ROOZBEH                                             | 2,780,747 | GREENAN, IAIN M.                    | 2,894,851 |
| FUCHSS, THOMAS                                                             | 2,856,103 | GHOSE, ABHISHEK                                               | 2,976,365 | GREGORY, KARL                       | 3,017,775 |
| FUERSTENBERG, ZACK                                                         | 2,435,909 | GHOZEIL, ADAM L.                                              | 2,975,825 | GREIM, OLIVIER                      | 2,861,786 |
| FUJIE, SHUNPEI                                                             | 3,013,564 | GIBLER, ZACHARY S.                                            | 2,559,137 | GRENIER, ERIC A.                    | 2,974,643 |
| FUJISAWA, AKITOSHI                                                         | 3,021,167 | GIBSON, ROBERT A.                                             | 2,987,192 | GRESH, BRIAN M.                     | 3,023,235 |
| FUJITA, MASAKI                                                             | 2,987,236 | GIESECKE+DEVRIENT<br>MOBILE SECURITY<br>GMBH                  | 2,896,808 | GRGIC, HELENA                       | 2,830,305 |
| FUJIWARA, SHINICHI                                                         | 2,881,370 | GILISSEN, RONALDUS<br>ARNODUS HENDRIKA<br>JOSEPH              | 2,796,204 | GRIBBLE, JR., MICHAEL<br>WILLIAM    | 2,799,972 |
| FUJIWARA, TAKAHIRO                                                         | 2,964,394 | GINGRAS, ERIC                                                 | 2,984,500 | GRIFFIN, BRYAN                      | 2,830,305 |
| FUKUDA, ATSUSHI                                                            | 2,964,394 | GIOCONDA, THOMAS<br>GEORGE                                    | 2,799,182 | GRIGORIEV, VLADIMIR                 | 2,859,709 |
| FULTON, DWIGHT D.                                                          | 3,019,319 | GIOVANNITTI-JENSEN, ANN                                       | 2,877,114 | GRIMM, JEFFREY JOHN                 | 2,830,306 |
| FUNCTIONWEAR, LLC                                                          | 2,965,316 | GIRARDOT, JULIEN                                              | 2,891,760 | GROEN, HANS JUERGEN                 | 2,865,182 |
| FUNDACIO INSTITUT<br>D'INVESTIGACIO<br>BIOMEDICA DE<br>BELLVITGE (IDIBELL) | 2,841,994 | GIUDICE, LUKE DANIEL                                          | 2,908,544 | GRONVALL, ERIK                      | 2,869,059 |
| FURET, PASCAL                                                              | 2,857,302 | GIVENS, RAYMOND D.                                            | 2,957,942 | GROPPI, LEOPOLDO                    | 2,918,257 |
| FUSION HOLDINGS LIMITED                                                    | 2,992,214 | GLANBIA NUTRITIONALS<br>(IRELAND) LTD.                        | 2,898,281 | GROSSE, JOSHUA                      | 2,876,684 |
| GABRIEL, SEBASTIEN<br>VINCENT                                              | 2,823,170 | GLAXOSMITHKLINE<br>INTELLECTUAL<br>PROPERTY (NO.2)<br>LIMITED | 2,879,104 | GROSSMAN, JOEL                      | 2,990,536 |
| GADDY, JAMES M.                                                            | 2,978,658 |                                                               |           | GROTSTOLLEN, UWE                    | 3,009,893 |
| GAILLARD, NICOLAS                                                          | 2,847,680 |                                                               |           |                                     |           |

## Index of Canadian Patents Issued August 25, 2020

|                                                                            |           |                                                               |           |                                                 |           |
|----------------------------------------------------------------------------|-----------|---------------------------------------------------------------|-----------|-------------------------------------------------|-----------|
| GROUPE SEB SCHWEIZ<br>GMBH                                                 | 2,878,923 | HANNIGAN, BRIAN                                               | 2,947,863 | HERRENKNECHT AG                                 | 2,979,903 |
| GROVE, FRANS                                                               | 2,891,532 | HANSBRO, KATHRYN LOUISE                                       | 2,873,621 | HERRENKNECHT AG                                 | 3,014,394 |
| GRUMPE, HEINZ-ULRICH                                                       | 3,004,781 | HANSEN, CHRISTINA                                             | 2,877,767 | HERSEL, ULRICH                                  | 2,843,504 |
| GRUNDEN, BRADLEY                                                           | 2,847,404 | HANSEN, CRAIG N.                                              | 2,868,776 | HERTZOG, RUSSEL, JR.                            | 2,886,416 |
| GU, TING-LEI                                                               | 2,841,900 | HANSSSEN, HUBERT JOSEPH<br>FRANS                              | 2,880,150 | HEWLETT-PACKARD<br>DEVELOPMENT<br>COMPANY, L.P. | 2,961,941 |
| GUANGDONG MIDEA<br>KITCHEN APPLIANCES<br>MANUFACTURING CO.,<br>LTD.        | 2,950,450 | HANWHA AZDEL, INC.                                            | 2,879,293 | HEWLETT-PACKARD<br>DEVELOPMENT<br>COMPANY, L.P. | 2,975,825 |
| GUANGZHOU HUAXINKE<br>INTELLIGENT<br>MANUFACTURING<br>TECHNOLOGY CO., LTD. | 2,989,360 | HANWHA SYSTEMS EUROPE,<br>LTD.                                | 2,921,967 | HEXAGON MINING<br>TECNOLOGIA E<br>SISTEMAS S.A. | 3,007,806 |
| GUGLIELMIN, GEORGE                                                         | 2,754,254 | HARDISON, OSBORNE B.                                          | 2,916,595 | HIETANIEMI, MATTI                               | 2,889,747 |
| GUILAK, FARSHID                                                            | 2,962,223 | HARIMA CHEMICALS,<br>INCORPORATED                             | 2,964,394 | HILL, DAVE                                      | 2,807,603 |
| GUJJARU, SUNNY P.                                                          | 2,916,595 | HARNETIAUX, TRAVIS<br>LESTER                                  | 2,957,779 | HILL, MATTHEW                                   | 2,821,906 |
| GULLA, ANDREA<br>FRANCESCO                                                 | 2,885,291 | HARPER, CORAY                                                 | 2,879,293 | HILL, MATTHEW M.                                | 2,877,493 |
| GUNER, BARIS                                                               | 3,029,192 | HARPER, ELAINE                                                | 2,835,285 | HILL, SHAFALI                                   | 2,873,621 |
| GUNJIMA, KOSHI                                                             | 2,874,382 | HARRIMAN, WILLIAM DON                                         | 2,835,222 | HILTUNEN, ILKKA                                 | 2,837,418 |
| GUNSTONE, ADRIAN                                                           | 2,942,317 | HARRIS, CHAD TYLER                                            | 2,992,163 | HIM, AYLAN                                      | 2,888,764 |
| GUO, AILAN                                                                 | 2,841,900 | HARRISON, MICHAEL D.                                          | 2,978,658 | HINATSU, JAMES T.                               | 2,589,979 |
| GUPTA, ALOK                                                                | 2,971,618 | HARTWELL, EDWARD<br>YERBURY                                   | 2,705,898 | HINDS, DOUGLAS                                  | 2,942,317 |
| GUSTIN, DARIN JAMES                                                        | 2,799,972 | HARVEY, GLEN A.                                               | 3,010,712 | HINKS, WILLIAM L.                               | 2,919,405 |
| GUTERRES, SILVIA<br>STANISCUASKI                                           | 2,883,998 | HASHIMOTO, KAZUHIRO                                           | 2,991,844 | HIRAI, MAKOTO                                   | 3,013,175 |
| GUTIERREZ, ANDREA                                                          | 2,866,469 | HASHIMOTO, KOICHIRO                                           | 3,021,167 | HIROTA, KEN                                     | 2,895,591 |
| GWACK, YOUSANG                                                             | 2,636,417 | HATANO, KAZUHIRO                                              | 2,972,351 | HITCH DEMON, LLC                                | 2,865,792 |
| GYLIENE, ONA                                                               | 2,875,323 | HATTORI, SHUNJI                                               | 2,861,027 | HO, WING KEI                                    | 2,792,405 |
| HAACK, HERBERT                                                             | 2,841,900 | HAUBST, NICOLE                                                | 2,806,637 | HOBSON, NICHOLAS<br>ALEXANDER                   | 2,785,582 |
| HACKER, DAVID C.                                                           | 2,860,422 | HAVARD, HAROLD GENE                                           | 2,885,450 | HOCHER, BERTHOLD                                | 2,865,182 |
| HADAL, INC.                                                                | 2,904,675 | HAWKINS, GEOFFREY                                             | 3,012,104 | HODGSON, PHILIP                                 | 2,970,166 |
| HADDAD, MOJGAN                                                             | 2,835,284 | HE, JIAN                                                      | 3,015,984 | HOEFINGHOFF, JORIS                              | 2,851,332 |
| HADEN, EGON                                                                | 2,874,382 | HE, KAI                                                       | 2,963,910 | HOEKSTRA, WILLIAM J.                            | 2,861,339 |
| HAGER, MARTIN                                                              | 2,880,997 | HE, SHUYANG                                                   | 2,734,236 | HOFFMAN, ANDREW J.                              | 2,978,658 |
| HAJE, DETLEF                                                               | 3,026,959 | HE, TOM                                                       | 2,982,550 | HOFFMAN, LAURA                                  | 2,890,910 |
| HAKANSSON, NICLAS                                                          | 2,832,040 | HE, YUNSHENG                                                  | 2,852,268 | HOFFMANN, MARTINA                               | 2,748,465 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 2,831,924 | HEADER, GREGORY A.                                            | 3,035,103 | HOFFMANN, MARTINA                               | 2,748,465 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 2,887,280 | HEARING COMPONENTS,<br>INC.                                   | 3,008,452 | HOGAN, PATRICK                                  | 2,636,417 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 3,009,163 | HEATH, JULIE ANNE                                             | 2,799,972 | HOGENAUER, KLEMENS                              | 2,857,302 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 3,017,486 | HEBACH, CHRISTINA                                             | 2,857,302 | HOHMANN, RONALD P., JR.                         | 2,950,712 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 3,019,319 | HEBBAR, BALAMURALI<br>MANJIL                                  | 2,908,544 | HOKSTAD, KETIL                                  | 2,882,494 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 3,029,192 | HEDELIN, PER                                                  | 3,009,237 | HOLDERLE, ERIC B.                               | 2,922,245 |
| HALLIBURTON ENERGY<br>SERVICES, INC.                                       | 3,030,547 | HEDRICH, HANS CHRISTIAN                                       | 2,851,332 | HOLLINGWORTH, GREGORY                           | 2,857,302 |
| HAM, HYEILIN                                                               | 2,832,443 | HEEZEN, WILLEM<br>FERDINAND                                   | 2,867,675 | HOLT, KELLY L.                                  | 2,854,864 |
| HAMLETT, CHRISTOPHER<br>CHARLES FREDERICK                                  | 2,796,204 | HEIBEIN, KEITH L.                                             | 2,988,837 | HOMSI, KRISTOPHER L.                            | 2,862,214 |
| HAN, ZHENG TAO                                                             | 2,861,459 | HEIJNEN, JOHANNES                                             |           | HONEYWELL<br>INTERNATIONAL INC.                 | 2,847,404 |
| HANCOCK, VIKTORIA                                                          | 2,893,478 | HENDRIKUS MARIE                                               | 2,857,467 | HONG, ANDREW                                    | 3,000,420 |
| HAND, ALEXANDER<br>EDWARD                                                  | 2,908,544 | HEINISH, MARK KENT                                            | 2,911,776 | HONG, LIN                                       | 2,888,764 |
| HANDKE, PAUL E.                                                            | 2,934,752 | HELMHOLTZ ZENTRUM<br>MUNCHEN - DEUTSCHES<br>FORSCHUNGSZENTRUM |           | HONG, SUNG JUN                                  | 2,983,738 |
| HANDLOS, WILLIAM G.                                                        | 2,898,087 | FUR GESUNDHEIT UND<br>UMWELT (GMBH)                           | 2,843,338 | HORTSCH, RALF                                   | 2,958,113 |
| HANGZHOU DAC BIOTECH<br>CO., LTD                                           | 2,921,982 | HELMY, AMR SAHER                                              | 2,971,893 | HOSOE, SHINTARO                                 | 2,878,431 |
| HANN, THOMAS CHARLES                                                       | 2,848,254 | HEMANEXT INC.                                                 | 2,817,106 | HOU, FU J.                                      | 2,892,670 |
|                                                                            |           | HENDERSON, DAVID A.                                           | 2,559,137 | HOUDE, AJAY Y.                                  | 2,881,345 |
|                                                                            |           | HENRY, JAMES W.                                               | 2,903,628 | HOWARD, PHILIP WILSON                           | 2,871,172 |
|                                                                            |           | HENSEL, RENE LUKAS                                            | 3,017,397 | HOWELLS, ANDREW D.                              | 2,919,662 |
|                                                                            |           | HEPBURN, QUINN HARRISON                                       | 3,077,714 | HOYLES, STEPHEN M.                              | 2,879,804 |
|                                                                            |           | HEPWORTH, RICHARD                                             | 2,996,377 | HRITZ, JEFFREY                                  | 2,947,305 |
|                                                                            |           | HERB, GLENN                                                   | 2,811,330 | HSNI, LLC                                       | 2,934,284 |
|                                                                            |           | HERBST, JAN-PATRICK                                           | 3,019,454 | HUANG, HSIEN-LIN                                | 2,783,416 |
|                                                                            |           | HERREN, BRUNO                                                 | 2,878,923 | HUANG, WEIDONG                                  | 2,835,284 |
|                                                                            |           |                                                               |           | HUANG, XIAOYI                                   | 2,997,306 |
|                                                                            |           |                                                               |           | HUANG, XIN                                      | 2,799,972 |
|                                                                            |           |                                                               |           | HUATAN, HIEP                                    | 2,981,752 |
|                                                                            |           |                                                               |           | HUAWEI DEVICE CO., LTD.                         | 2,908,514 |



**Index des brevets canadiens délivrés  
25 août 2020**

|                                       |           |                                             |           |                                                    |           |
|---------------------------------------|-----------|---------------------------------------------|-----------|----------------------------------------------------|-----------|
| HUAWEI TECHNOLOGIES CO., LTD.         | 2,952,888 | INTERNATIONAL BUSINESS MACHINES CORPORATION | 3,022,251 | JITKOFF, JOHN NICHOLAS                             | 2,823,170 |
| HUBBELL INCORPORATED                  | 2,809,057 | INVENTIO AG                                 | 3,028,212 | JLG INDUSTRIES, INC                                | 3,010,648 |
| HUBER, DONALD G.                      | 2,997,150 | IPSEN BIOINNOVATION LIMITED                 | 2,835,285 | JOHANSSON, NICKLAS                                 | 2,953,294 |
| HUBER, DONALD GENE                    | 2,952,977 | ISHIDA, YUKO                                | 2,879,992 | JOHANSSON, SEBASTIAN                               | 2,837,418 |
| HUBER, FLORIAN                        | 2,910,118 | ISHIMARU, AKIKO                             | 3,009,485 | JOHANSSON, THOMAS                                  | 2,889,508 |
| HUDDART, BRETT JOHN                   | 2,785,582 | ISHIZEKI, MASAKI                            | 2,895,591 | JOHNS, DONALD                                      | 2,852,268 |
| HUDSON, JOSEPH                        | 2,955,614 | ISHKOV, ALEKSANDR GAVRILOVICH               | 2,957,653 | JOHNSON & JOHNSON CONSUMER COMPANIES, INC.         | 2,798,999 |
| HUFFER, SCOTT WILLIAM                 | 3,014,343 | ISHTIAQ, FAISAL                             | 2,903,452 | JOHNSON, CHAD M.                                   | 2,927,766 |
| HUGHES NETWORK SYSTEMS, LLC           | 2,983,308 | ISOLATION EQUIPMENT SERVICES INC.           | 2,989,914 | JOHNSON, CHRISTOPHER NORBERT                       | 2,796,204 |
| HUGHES NETWORK SYSTEMS, LLC           | 3,048,188 | IVANOVA, EKATERINA ALEKSANDROVNA            | 2,957,653 | JOHNSON, JUSTIN BRUCE                              | 2,884,744 |
| HUGHEY, RICHARD                       | 2,843,133 | IVECO MAGIRUS AG                            | 2,847,448 | JOHNSON, KARA W.                                   | 2,935,633 |
| HUHTAMAKI, INC.                       | 2,857,851 | IWASAKI, TETSUJI                            | 2,923,910 | JOHNSON, KEITH LEON                                | 2,887,280 |
| HUNDT, KARL B.                        | 2,974,643 | IWATA, KOUSHI                               | 3,009,485 | JOHNSON, MICHAEL                                   | 2,799,972 |
| HUNG, CHENG-HSIANG                    | 3,018,850 | IZAWA, YUSUKE                               | 2,874,084 | JOHNSON, ZACHARY                                   | 2,989,229 |
| HUNG, DER-KAI                         | 2,885,450 | J&J SOLUTIONS, INC. D/B/A CORVIDA MEDICAL   | 2,999,123 | JOHNSTON, SCOTT ROBERT                             | 2,783,416 |
| HUNG, DER-KAI                         | 2,888,764 | JACKY, LUCA                                 | 2,840,964 | JOKELA, PEKKA                                      | 2,866,469 |
| HUNG, WEN-LUNG                        | 2,988,344 | JACOBMEIER, OLAF                            | 2,874,910 | JOLLY, DAVID THOMAS                                | 2,831,924 |
| HUNTING TITAN, INC.                   | 2,981,809 | JACOBS, GREGORY F.                          | 3,012,785 | JONASSON, BRENT THOMAS                             | 2,884,744 |
| HUNTING TITAN, INC.                   | 3,022,946 | JACOBSEN, ULF                               | 3,019,454 | JONES, ASHLEY                                      | 2,922,845 |
| HUNTLEIGH TECHNOLOGY LIMITED          | 2,883,702 | JACOBSSON, JAN                              | 2,832,040 | JONES, BENJAMIN                                    | 2,890,910 |
| HUOTILAINEN, TOMMI                    | 3,053,219 | JADHAV, AJAY                                | 2,865,422 | JONES, GERAINT                                     | 2,855,010 |
| HUR, NAM-HO                           | 2,965,067 | JAESCHKE, GEORG                             | 2,871,389 | JONES, HUW                                         | 2,981,752 |
| HURST, DAVID A.                       | 2,847,404 | JAGASIA, RAVI                               | 2,878,435 | JONES, JERALD EDWARD                               | 2,948,477 |
| HUSMANN, JOSEF                        | 3,028,212 | JAIN, NEHA                                  | 2,983,308 | JONG, RAYMOND                                      | 2,852,043 |
| HUYNH, ELIZABETH                      | 2,849,538 | JAIN, UDAY                                  | 2,857,958 | JONSSON, LEIF                                      | 3,035,054 |
| HUYNH, THANH-HAO                      | 2,896,808 | JAISWAL, SUMESH                             | 2,828,744 | JORDAN, GREGORY R.                                 | 2,845,610 |
| HYDROGENICS CORPORATION               | 2,589,979 | JAKOB-ROETNE, ROLAND                        | 2,878,435 | JORDAN, RICHARD K.                                 | 2,887,601 |
| HYMA, STEVEN W.                       | 2,827,321 | JAKUBOWSKI, WOJCIECH                        | 2,820,052 | JORDAN, ROBERT                                     | 2,966,466 |
| HYMES-VANDERMEULEN, NOAH              | 2,953,620 | JALMAJA HOLDING B.V.                        | 2,890,726 | JORDAN, THOMAS A.                                  | 2,782,015 |
| HYOUNG, DA-HYE                        | 2,924,451 | JAMES HARDIE TECHNOLOGY LIMITED             | 2,795,942 | JORDE, DEAN                                        | 2,821,748 |
| HYOUNG, DA-HYE                        | 2,924,456 | JANOSCHKA, TOBIAS                           | 2,880,997 | JORNADA, DENISE SOLEDADE                           | 2,883,998 |
| IACCINO, LARRY L.                     | 3,001,494 | JANSSEN VACCINES & PREVENTION B.V.          | 2,776,461 | JOSHI, PRASHANT                                    | 2,960,455 |
| IANNACONE, MATTEO                     | 2,740,155 | JANSSENS, FRANCINE                          | 2,850,214 | JOSHI, PRASHANT                                    | 2,976,365 |
| IDIATULOV, RAFET KUTUZOVICH           | 2,957,653 | JAPS, MICHAEL                               | 2,874,084 | JOSHI, PRASHANT                                    | 3,004,344 |
| IHI CORPORATION                       | 3,016,682 | JARRE, GERALD                               | 2,959,214 | JOSHUA, ROBIN                                      | 2,809,689 |
| IJIMA, TOMOO                          | 2,895,591 | JASKA, CORY                                 | 2,884,924 | JOY GLOBAL SURFACE MINING INC                      | 2,803,313 |
| IJAZ, MOHAMMAD KHALID                 | 2,874,502 | JAY, CHRIS                                  | 2,821,100 | JOYCE, DAVID                                       | 2,843,392 |
| ILLINOIS TOOL WORKS INC.              | 2,896,823 | JAYARAM, SHIV                               | 2,831,924 | JRAMCO INC.                                        | 3,054,504 |
| ILLINOIS TOOL WORKS INC.              | 2,948,477 | JEFFREY-COKER, BANDELE                      | 2,769,380 | JRIBI, RAMZI                                       | 2,883,716 |
| ILLUMINA CAMBRIDGE LTD                | 2,902,992 | JENABATTERIES GMBH                          | 2,880,997 | JUAN, ALEJANDRO                                    | 3,010,961 |
| IMAMURA, NORITOSHI                    | 2,923,375 | JENKINS, CAMERON                            | 2,969,620 | JUNG, BORIS                                        | 3,014,394 |
| IMMUNDIAGNOSTIK AG                    | 2,865,182 | JENKINS, ROBERT L.                          | 3,012,785 | JUNG, HEON                                         | 2,983,738 |
| IMPERIAL OIL RESOURCES LIMITED        | 3,036,414 | JENNINGS, MATTHEW J.                        | 2,812,687 | JUSTIN, MICHAEL                                    | 2,922,245 |
| IMPREDITORE PTY LIMITED               | 2,657,565 | JENSEN, EIGIL MOLVIG                        | 3,019,085 | JX NIPPON MINING & METALS CORPORATION              | 2,972,351 |
| INCOZEN THERAPEUTICS PVT. LTD.        | 2,798,080 | JENSEN, HANS                                | 3,009,893 | KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) | 3,021,167 |
| INDENA S.P.A.                         | 2,806,428 | JENSEN, IDA T.                              | 2,935,633 | KADALI, JYOTHI                                     | 2,919,662 |
| INDUCE BIOLOGICS INC.                 | 2,868,992 | JENSEN, MICHAEL                             | 2,861,491 | KADOWAKI, KOJI                                     | 2,987,236 |
| INDUSTRIE DE NORA S.P.A.              | 2,885,291 | JFE STEEL CORPORATION                       | 3,007,073 | KAEDING, MICHAEL RYAN                              | 2,960,550 |
| INFINEUM INTERNATIONAL LIMITED        | 2,820,533 | JIANG, CHONGXUE                             | 3,060,024 | KALINSKI, HAGAR                                    | 2,962,219 |
| INNOVATIVE BUILDING TECHNOLOGIES, LLC | 3,015,813 | JIAO, XIANYUN                               | 2,799,972 | KALIS, CHRISTOPH                                   | 2,857,302 |
| INTELOMED, INC.                       | 2,804,788 | JIN, JOO HO                                 | 3,010,302 | KALLE GMBH                                         | 2,819,687 |
| INTERAC CORP.                         | 2,435,909 | JIN, JUNBIN                                 | 3,015,984 | KALVIG, ANDREA BETH                                | 3,012,617 |
|                                       |           | JIN, XUEGUANG                               | 2,835,284 | KALVIG, ANDREA BETH                                | 3,012,638 |
|                                       |           | JIN, ZHOU XIAO                              | 2,828,660 | KALVIG, ANDREA BETH                                | 3,012,664 |
|                                       |           | JINEDATHA, CHETAN                           | 2,880,536 | KAMAT, RAJEEV G.                                   | 2,971,618 |
|                                       |           |                                             |           | KAMBOJ, RAJENDER KUMAR                             | 2,864,332 |

## Index of Canadian Patents Issued August 25, 2020

|                                            |           |                                                             |           |                                                  |           |
|--------------------------------------------|-----------|-------------------------------------------------------------|-----------|--------------------------------------------------|-----------|
| KAMPF, GUNNAR                              | 2,874,910 | KIM, SUNG K.                                                | 2,874,195 | KULLENBERG, RAGNAR                               | 2,872,970 |
| KAMRUZZAMAN,<br>MOHAMMAD                   | 3,034,141 | KIM, YOUNG HO                                               | 3,039,772 | KUMAR, AJAY                                      | 2,960,455 |
| KANDASAMY, RAVI                            | 2,859,625 | KIMBALL, CORY G.                                            | 2,809,988 | KUMAR, DEEPAK                                    | 3,001,800 |
| KANEKO, TSUYOSHI                           | 2,974,790 | KIMCHI, GUR                                                 | 2,998,207 | KUMAR, SANJEEV                                   | 3,003,146 |
| KANG, CHANG-HWAN                           | 2,924,451 | KINSEY, P. SPENCER                                          | 2,982,550 | KUMIAI CHEMICAL<br>INDUSTRY CO., LTD.            | 2,885,840 |
| KANG, CHANG-HWAN                           | 2,924,456 | KIRINCICH, STEVEN J.                                        | 2,987,179 | KUNAL, KUMAR                                     | 2,879,293 |
| KANG, YONG                                 | 2,941,230 | KIRPICHNIKOV, MIKHAIL<br>PETROICH                           | 2,957,653 | KUNZ, CHRISTIAN CARSTEN<br>SILVESTER             | 2,806,637 |
| KANJI, NAZIM                               | 2,981,752 | KITTL, WOLFGANG                                             | 2,910,118 | KUNZEMAN, BRIAN S.                               | 2,873,621 |
| KANO, RYUICHI                              | 3,069,579 | KLASSEN, RONALD                                             | 2,989,229 | KUNZER, HERMANN<br>(DECEASED)                    | 2,877,786 |
| KARAMZIN, SERGEY<br>SERGEEVICH             | 2,879,601 | KLEIN, GILLES                                               | 2,870,229 | KURKELA, ESA                                     | 2,837,418 |
| KARIOTY, FARID                             | 2,873,522 | KLEIN, RALF                                                 | 2,847,404 | KUSCHER, ALEXANDER<br>FRIEDRICH                  | 2,823,170 |
| KARKI, SHER BAHADUR                        | 2,958,185 | KLINGLMAIR, ERICH                                           | 2,891,532 | KVERNELAND A/S                                   | 2,915,284 |
| KARSTEN MANUFACTURING<br>CORPORATION       | 3,005,852 | KLOPFER, RONALD<br>GREGORY                                  | 2,885,178 | KWOK, WING HEI                                   | 2,872,602 |
| KASAINI, HENRY                             | 2,964,306 | KLYNE, KENNETH M.                                           | 2,970,033 | KWON, BYOUNG S.                                  | 3,039,772 |
| KATO, KEN                                  | 2,879,992 | KMIT, PAUL                                                  | 2,869,059 | KWON, SUN-HYOUNG                                 | 2,965,067 |
| KATONA, GERGELY                            | 2,931,603 | KNABE, STEVEN P.                                            | 2,975,591 | KYLE, DONALD                                     | 3,012,638 |
| KAUFFMAN, SALLY                            | 2,828,744 | KNEBEL, JAMES                                               | 2,866,870 | KYLES, BRUCE W.                                  | 2,892,674 |
| KAUFMAN, DUANE A.                          | 2,996,340 | KNEIFL, KELLY                                               | 3,004,864 | KYOWA KIRIN CO., LTD.                            | 2,878,431 |
| KAUFMANN, THOMAS                           | 3,007,806 | KNODE, GALEN EDGAR                                          | 3,003,146 | KYRKJEBØ, RUNE                                   | 2,882,494 |
| KAUR, RANDEEP                              | 2,821,348 | KOCHAR, MANISH                                              | 2,769,380 | LABORATOIRES<br>EXPANSIONSCIENCE                 | 2,989,041 |
| KAWAMURA, KIYOSHI                          | 2,887,887 | KOEHLER, ERIC P.                                            | 2,887,601 | LABORATORY<br>CORPORATION OF<br>AMERICA HOLDINGS | 2,835,284 |
| KAWAMURA, SHUJI                            | 3,007,073 | KOELLING, BRYAN                                             | 2,992,735 | LABRECQUE, DENIS                                 | 3,010,149 |
| KAY, ALEX                                  | 2,843,392 | KOELLING, FRED                                              | 2,992,735 | LABUDA, SERGEI                                   | 2,925,503 |
| KAY, CHRISTOPHER                           | 2,820,533 | KOHR, SILKE                                                 | 2,877,786 | LACHANCE, ADRIAN                                 | 2,960,052 |
| KAYSER, FRANK                              | 2,799,972 | KOLB, TROY C.                                               | 2,830,306 | LACRAMPE, JEAN FERNAND<br>ARMAND                 | 2,796,204 |
| KCI LICENSING, INC.                        | 2,858,074 | KOLB, TROY C.                                               | 2,830,306 | LACROUTE, PHILIPPE<br>GILBERT                    | 2,877,493 |
| KEECH CASTINGS<br>AUSTRALIA PTY<br>LIMITED | 2,908,544 | KOMATSU LTD.                                                | 2,991,844 | LACY, FRANKLIN R.                                | 2,844,627 |
| KELLY, DANIEL L.                           | 3,016,669 | KONDO, SATOSHI                                              | 2,992,048 | LAI, JOHN TA-YUAN                                | 2,853,948 |
| KELLY, ROSS                                | 2,992,214 | KONDO, SATOSHI                                              | 2,992,058 | LAI, SUJEN                                       | 2,799,972 |
| KEMIRA OYJ                                 | 2,859,709 | KONDOU, YOSHIHISA                                           | 2,811,652 | LAICO, JOSEPH P.                                 | 2,838,059 |
| KEMIRA OYJ                                 | 2,889,747 | KONG, XUAN                                                  | 2,811,330 | LALICKI, JOREL                                   | 2,993,825 |
| KENNEDY, CAROLINE B.                       | 2,845,610 | KONINKLIJKE<br>NEDERLANDSE<br>AKADEMIE VAN<br>WETENSCHAPPEN | 2,859,614 | LAMAISON, OLIVIER                                | 2,894,210 |
| KENNER, JOHN<br>VANDERSTAAY                | 2,887,280 | KONISHI, NORIKAZU                                           | 2,874,084 | LAMOUREUX, RICHARD                               | 2,863,090 |
| KERANEN, OLLI                              | 2,852,172 | KOPACZ, DAN JOEL                                            | 2,835,354 | LAMRAOUI, HAMID                                  | 2,947,782 |
| KERPEZ, KENNETH                            | 2,886,147 | KOPECKY, DAVID JOHN                                         | 2,799,972 | LANDI, GIACOMO                                   | 2,886,300 |
| KERR MACHINE CO.                           | 3,000,679 | KOREA INSTITUTE OF<br>ENERGY RESEARCH                       | 2,983,738 | LANDIS+GYR INNOVATIONS,<br>INC.                  | 3,004,773 |
| KERR, DUANE E.                             | 2,918,484 | KORTUNOV, PAVEL                                             | 2,947,052 | LANDMARK GRAPHICS<br>CORPORATION                 | 2,934,451 |
| KERR, WILLIAM HENRY                        | 3,011,291 | KOVACS, SANDOR                                              | 2,769,380 | LANDMARK GRAPHICS<br>CORPORATION                 | 2,948,321 |
| KEY, JEFFREY P.                            | 3,021,213 | KOWALSKI, JOHN MICHAEL                                      | 2,966,588 | LANDMARK GRAPHICS<br>CORPORATION                 | 2,975,591 |
| KEYSTONE HEART LTD.                        | 2,973,812 | KOYAMA, ATSUNORI                                            | 2,999,834 | LANDMARK GRAPHICS<br>CORPORATION                 | 3,035,552 |
| KHAN, INSHAD ALI                           | 2,960,455 | KOYAMA, TOMOTSUGU                                           | 2,992,048 | LANDSTROM, ERIC                                  | 2,872,970 |
| KHAN, TALHA HUSSAIN                        | 2,864,332 | KOYAMA, TOMOTSUGU                                           | 2,992,058 | LANDWEHR, THOMAS JAY                             | 2,887,644 |
| KIDO, SATOSHI                              | 3,009,485 | KPR U.S., LLC                                               | 2,922,245 | LANE, HEIDI                                      | 2,994,779 |
| KILAMBI, SAI                               | 2,842,006 | KPR U.S., LLC                                               | 2,955,614 | LANGER, ROBERT                                   | 2,740,155 |
| KILL-FRECH, CORNELIA                       | 2,947,690 | KRACHLER, ANNE MARIE                                        | 2,832,443 | LANGEWALD, JURGEN                                | 2,874,382 |
| KIM, CHOM TU I                             | 3,009,625 | KRAEMER, JENS                                               | 2,847,448 | LANGHORST, BENJAMIN R.                           | 3,003,187 |
| KIM, DONG JOON                             | 3,010,302 | KRAMER, DOMINIC                                             | 2,959,214 | LAPIC, JAMES                                     | 3,031,486 |
| KIM, DOO HWAN                              | 3,010,302 | KRANZ, MARK J.                                              | 2,882,648 | LAPOINTE, BLAIR                                  | 2,871,514 |
| KIM, HEUNG-MOOK                            | 2,965,067 | KRAPPMANN, DANIEL                                           | 2,843,338 | LARIO, PAULA I.                                  | 2,781,650 |
| KIM, HYUN SOOK                             | 3,010,302 | KRAUS, MICHAEL ANTHONY                                      | 3,048,264 | LAROSE, ERIK M.                                  | 3,008,682 |
| KIM, JEONG JUN                             | 2,907,060 | KREBS, MICHAEL                                              | 2,910,118 |                                                  |           |
| KIM, JIN-GWAN                              | 2,924,451 | KREBS, RICHARD LEE                                          | 2,960,846 |                                                  |           |
| KIM, JIN-GWAN                              | 2,924,456 | KRIEGSTEIN, STEWART                                         | 3,013,041 |                                                  |           |
| KIM, JOO YEON                              | 2,877,442 | KROLIK, JEFFREY A.                                          | 2,827,641 |                                                  |           |
| KIM, KI-YONG                               | 2,941,230 | KU, LAILING                                                 | 2,638,782 |                                                  |           |
| KIM, KI-YONG                               | 2,941,232 | KUBOYAMA, TAKESHI                                           | 2,878,431 |                                                  |           |
| KIM, SANGWON                               | 3,036,482 | KUDELKA, TIMOTHY L.                                         | 2,873,621 |                                                  |           |
| KIM, SEOKJUNG                              | 3,036,482 | KULKARNI, PALLAVI                                           | 2,899,226 |                                                  |           |
|                                            |           | KULKARNI, SANJEEV ANANT                                     | 2,864,332 |                                                  |           |

**Index des brevets canadiens délivrés  
25 août 2020**

|                        |           |                         |           |                        |           |
|------------------------|-----------|-------------------------|-----------|------------------------|-----------|
| LARSEN, HENRIK         |           | LIEBERMAN, AARON DAVID  | 2,799,182 | LUPIN LIMITED          | 2,864,332 |
| NEUSCHAFER             | 2,871,697 | LIEBERT, SCOTT S.       | 2,896,823 | LUTAS, ANDREI-VLAD     | 2,915,646 |
| LATIMER, SCOTT         | 2,984,500 | LIFECCELL CORPORATION   | 2,854,885 | LUTRON TECHNOLOGY      |           |
| LAUBACH, ADAM          | 3,014,343 | LILLEY, CLIFFORD N.     | 2,995,879 | COMPANY LLC            | 3,003,146 |
| LAUYANS, FRANK M.      | 3,032,161 | LIM, BO-MI              | 2,965,067 | LUTZ, DENNIS           | 2,711,432 |
| LAWRENCE LIVERMORE     |           | LIM, HOU-SEN            | 2,788,172 | LUX, KIRSTEN           | 3,000,570 |
| NATIONAL SECURITY,     |           | LIN, MICHAEL W.         | 3,024,545 | LYCERA CORPORATION     | 2,871,514 |
| LLC                    | 2,921,307 | LIN, MING-SHENG         | 2,983,326 | LYKKEN, TOM            | 2,959,933 |
| LAWSON, BARRY EUGENE   | 2,935,074 | LIN, YONGXUE            | 3,015,984 | LYNCH, MATTHEW         |           |
| LAZAR, GREGORY ALAN    | 2,958,185 | LINDEMANN, LOTHAR       | 2,871,389 | LAWRENCE               | 3,008,246 |
| LE GROUPE DSD INC.     | 2,848,568 | LINDEN, TORBJORN        | 2,893,478 | LYNN, WILLIAM WARREN   | 2,877,303 |
| LE, DT                 | 2,769,380 | LINDO, STEVE JOSEPH     | 2,873,621 | M & L PATENT OY AB     | 2,877,824 |
| LEADLEY, DAVID         | 2,996,377 | LINDSAY, CRAIG W.       | 2,871,737 | MA, BAOQING            | 2,857,958 |
| LEAL, ROSA MARIA       | 2,885,450 | LINKEL, SCOTT ARON      | 2,777,973 | MA, CHUN               | 2,862,606 |
| LEAMY, BRETT           | 2,887,280 | LINTULA, NEA JANETTE    | 3,008,246 | MA, JIE                | 3,035,552 |
| LECONTE, GILBERT       | 2,870,229 | LIRAN, GIORA            | 2,931,628 | MA, XIAOJU MAX         | 2,923,706 |
| LEE, ALEX              | 2,890,910 | LITTLE, DAVID JOHN, II  | 2,860,422 | MA, ZHIHUA             | 2,799,972 |
| LEE, GUN SUL           | 2,941,232 | LITTLE, MICHAEL J.      | 2,879,912 | MAAK, PAL ANDOR        | 2,931,603 |
| LEE, HO TAE            | 2,983,738 | LIU, CHI-LI             | 2,978,658 | MABONDZO, ALOISE       | 2,879,583 |
| LEE, JAE-YOUNG         | 2,965,067 | LIU, DAKAI              | 3,008,065 | MACARTNEY, TERRY       | 2,876,684 |
| LEE, JAEWOOK           | 3,036,482 | LIU, JINGPING           | 2,992,732 | MACAULAY, HERSHEL      | 2,953,620 |
| LEE, JAMES SHING HIN   | 2,969,000 | LIU, JIWEN              | 2,799,972 | MACCHIA, ENZO          | 2,754,254 |
| LEE, JOONG WON         | 3,039,772 | LIU, MINYONG            | 2,950,450 | MACDON INDUSTRIES LTD. | 2,974,643 |
| LEE, JUNG-IK           | 2,924,451 | LIU, XIAOHAI            | 2,902,992 | MACKEY, DAVID          | 2,888,764 |
| LEE, JUNG-IK           | 2,924,456 | LIZAUCKAS, ANTHONY      | 2,929,040 | MADILL, MATT           | 3,000,420 |
| LEE, SAE YEON          | 2,907,060 | LOBAKOVA, ELENA         |           | MAESAKA, MASAYUKI      | 2,868,136 |
| LEE, SEOUNG-JOO        | 3,039,772 | SERGEEVNA               | 2,957,653 | MAGATTI, DAVIDE        | 2,891,536 |
| LEGO A/S               | 2,877,767 | LOCHINVAR, LLC          | 3,017,158 | MAGNA POWERTRAIN INC.  | 2,877,173 |
| LEGRAND, JACQUES       | 2,989,041 | LOCKDOWEL, INC.         | 2,992,735 | MAGNANI, JOHN L.       | 2,891,514 |
| LEHERICY, STEPHANE     | 2,888,118 | LOCKE, CHRISTOPHER      | 2,883,702 | MAGNAUDEIX, DOMINIQUE  | 2,870,229 |
| LEIA INC.              | 3,006,560 | LOCKE, CHRISTOPHER      |           | MAGNI, RICCARDO        | 2,877,987 |
| LEIGHTON, PHIL         | 2,835,222 | BRIAN                   | 2,858,074 | MAGUIRE ABBEY, LLC     | 2,838,059 |
| LEIMKUEHLER, AARON     | 2,769,380 | LOCKERBIE, MICHAEL      |           | MAHER, DAVID W.        | 3,024,545 |
| LEMOINE, ROMAIN O.V.   | 3,001,494 | DAVID                   | 3,002,793 | MAI, HUONG             | 2,840,964 |
| LENNOX INDUSTRIES INC. | 2,878,272 | LOGUE, JAY D.           | 2,916,595 | MAILLEFER INSTRUMENTS  |           |
| LENNOX INDUSTRIES INC. | 2,885,450 | LOHSE, CHRISTIAN        | 3,019,454 | HOLDING SARL           | 2,892,981 |
| LENNOX INDUSTRIES INC. | 2,888,764 | LOMASK, JESSE           | 2,883,983 | MAIRESSE, JULIEN       | 2,888,432 |
| LENZ, JONATHAN T.      | 3,003,146 | LOPEZ, MICHEL           | 2,978,658 | MAKADIA, CHETAN M.     | 2,877,114 |
| LEROY, PASCAL          | 2,888,432 | LOPEZ-LOPEZ, CRISTINA   | 2,852,268 | MALEFYT, RENE DE WAAL  | 2,957,275 |
| LESLIE, SABRINA R.     | 2,787,242 | LORENZZI, JEAN-CARLOS   | 2,883,716 | MALINOSKI, JON MICHAEL | 2,935,074 |
| LESYNA, DAVID          | 2,967,536 | LORIYA, RAJESHKUMAR     |           | MALONEY, JAMES GERARD  | 2,894,561 |
| LETZELTER, NATHALIE    |           | MAGANLAL                | 2,864,332 | MALTAN, JOHANNES       | 2,910,118 |
| SOPHIE                 | 2,975,118 | LOVELL, JONATHAN        | 2,849,538 | MANCA, LAURENT         | 2,861,786 |
| LEVY, EYAL             | 2,931,628 | LOVING PETS CORPORATION | 3,010,591 | MANN, ALFRED           | 2,982,550 |
| LEVY, YVES             | 2,754,743 | LOW, JONATHAN DANTE     | 2,799,972 | MANNAN, RAMASAMY       |           |
| LEWINSON, SHARON       | 2,585,412 | LU, CHEN                | 2,859,709 | MANNAR                 | 2,960,846 |
| LEWINSON, TOM          | 2,585,412 | LU, YU                  | 3,060,024 | MANNKIND CORPORATION   | 2,982,550 |
| LEWIS, ANTHONY K.      | 2,883,956 | LUBBERGER, MICHAEL      | 2,979,903 | MANOHAR, CHITRA        | 2,923,706 |
| LEWIS, IAN             | 2,857,302 | LUBRIZOL ADVANCED       |           | MANTEX IP AB           | 2,872,970 |
| LEWTAS, KENNETH        | 2,820,533 | MATERIALS, INC.         | 2,853,948 | MANUS, LISA            | 2,997,306 |
| LG ELECTRONICS INC.    | 3,036,482 | LUBRIZOL ADVANCED       |           | MARCHILDON, RYAN       |           |
| LI, GANG               | 3,060,024 | MATERIALS, INC.         | 2,877,114 | PHILLIP                | 2,971,893 |
| LI, HAIYING            | 3,060,024 | LUBRIZOL ADVANCED       |           | MARCKMANN, HENNING     | 2,958,113 |
| LI, MEI                | 3,010,824 | MATERIALS, INC.         | 2,899,226 | MARGALIT, RUTH         | 2,862,583 |
| LI, QING               | 2,993,891 | LUCAS, BRIAN STUART     | 2,799,972 | MARGALIT, YEHUDA       | 2,862,583 |
| LI, WEN                | 2,896,111 | LUCAS, BRYAN CHAPMAN    | 3,030,547 | MARIOTTI, GABRIELE     | 2,886,300 |
| LI, WENJENG            | 2,860,422 | LUCAS, RICHARD WILLIAM  | 2,884,744 | MARKVICKA, ERIC        | 2,871,149 |
| LI, YIHONG             | 2,799,972 | LUCKEMEYER, JAMES A.    | 2,883,702 | MARKUEZ, DARKO         | 3,014,343 |
| LI, ZHIHONG            | 2,799,972 | LUDWIG, STEPHEN M., JR. | 3,003,146 | MARSH, BRENDAN         | 2,942,634 |
| LI, ZHOIJUN            | 3,015,984 | LUMASENSE TECHNOLOGIES  |           | MARTIN, ERIC T.        | 2,975,825 |
| LIANG, BO              | 2,847,364 | HOLDINGS, INC.          | 2,998,809 | MARTIN, JIM F.         | 2,914,475 |
| LIANG, LINDA           | 2,957,275 | LUNDIN, LARS INGRAM     | 2,877,824 | MARTIN, PIERRE-YVES    | 2,819,921 |
| LIBERG, OLOF           | 2,975,083 | LUNK, DAVID             | 2,887,280 | MARTINEZ, RUBEN        | 2,870,165 |
| LICHT BOTCHER, RENE    | 2,877,767 | LUO, HUPING             | 2,878,323 | MARUYAMA, SHO          | 3,025,638 |

**Index of Canadian Patents Issued  
August 25, 2020**

|                          |           |                          |           |                          |           |
|--------------------------|-----------|--------------------------|-----------|--------------------------|-----------|
| MASHAL, FADI             | 2,852,636 | MEHNERT, JOHN CLAY       | 3,024,275 | MITSUBISHI HEAVY         |           |
| MASON, CHRISTOPHER       | 2,950,712 | MEIER, IAN ROBERT        | 3,002,793 | INDUSTRIES, LTD.         | 2,987,004 |
| MASON, ISAAC TRISTRAM    |           | MELTZER, DONALD A.       | 2,899,226 | MITSUBISHI HEAVY         |           |
| TANE                     | 2,852,636 | MENCKE, JACOBUS          |           | INDUSTRIES, LTD.         | 3,013,175 |
| MASON, MARK O.           | 2,879,293 | JOHANNES                 | 2,857,467 | MITSUUDA, NOBUTAKA       | 2,992,048 |
| MASSACHUSETTS INSTITUTE  |           | MENG, QI                 | 2,638,782 | MITSUUDA, NOBUTAKA       | 2,992,058 |
| OF TECHNOLOGY            | 2,740,155 | MENNELL, JAMES A.        | 2,833,286 | MITSUKAWA, NORIHIRO      | 2,992,048 |
| MASSUEGER, LARS          | 2,872,634 | MERCIER, EGLANTINE       | 2,989,041 | MITSUKAWA, NORIHIRO      | 2,992,058 |
| MASTER-HALCO, INC.       | 3,015,329 | MERCK PATENT GMBH        | 2,856,103 | MODLIN, IRVIN M.         | 2,828,878 |
| MASUDO, TAKASHI          | 2,875,007 | MERCK SHARP & DOHME      |           | MOFFITT, KYLE W.         | 2,987,192 |
| MASUYAMA, YUZURU         | 2,895,591 | CORP.                    | 2,871,514 | MOHAJER, HASSAN          | 3,001,832 |
| MATHIAS, JOHN PAUL       | 2,987,179 | MERCK SHARP & DOHME      |           | MOHANTY, AMAR            | 2,945,688 |
| MATHIS, MARC             | 2,876,422 | CORP.                    | 2,957,275 | MOHR, DONALD HENRY       | 2,878,323 |
| MATHIS, SHERRY M.        | 2,872,509 | MERETTE, JEAN-SEBASTIEN  | 2,871,950 | MOJACK DISTRIBUTORS, LLC | 2,973,627 |
| MATSUI, KYOKO            | 2,992,048 | MERGENER, MATTHEW J.     | 2,827,321 | MOLINARO, KATHERINE      | 2,858,201 |
| MATSUI, KYOKO            | 2,992,058 | MERTZ, TIMOTHY C.        | 2,978,658 | MONDRY, JACK             | 2,871,149 |
| MATSUI, TSUYOSHI         | 2,999,834 | MESCHINI, ALBERTO        | 2,889,812 | MONSOS, CHRISTOPHER      |           |
| MATSUNOBU, TORU          | 2,806,796 | MESO SCALE               |           | MICHAEL                  | 2,978,895 |
| MATSUO, SOICHIRO         | 3,013,564 | TECHNOLOGIES, LLC        | 2,769,380 | MONTEIRO, GARY           | 2,854,885 |
| MATSUYAMA, HIROAKI       | 2,879,992 | MESSERSI' PACKAGING SRL  | 2,866,684 | MONTES, MONICA           | 2,754,743 |
| MATSUZONO, SHINICHIRO    | 2,874,084 | MESSERSI', MAURIZIO      | 2,866,684 | MONTOYA ASHTON, LAURA    | 3,022,946 |
| MAUCEC, MARKO            | 2,975,591 | MESSINA, ROBERT S.       | 3,010,648 | MOODY, WADE MORGAN       | 2,936,547 |
| MAUCLAIRE, CLAUDE        | 2,831,168 | MESTEK, INC.             | 2,947,863 | MOORE, GARY              | 2,919,641 |
| MAURY MICROWAVE, INC.    | 2,965,538 | METACO INC.              | 2,890,382 | MOORE, STEPHEN TREY      | 2,825,195 |
| MAY, MICHAEL EUGENE      | 3,000,679 | METT, IGOR               | 2,962,219 | MOORE, VICTOR            | 3,022,251 |
| MAYER, KARLHEINZ         | 2,896,808 | MEVELLEC, LAURENCE       |           | MORAZZONI, PAOLO         | 2,806,428 |
| MAYO, RICHARD HAMMOND    | 2,921,967 | ANNE                     | 2,796,204 | MORENO, JASON            | 3,015,329 |
| MC10, INC.               | 2,780,747 | MEVIUS, JASON S.         | 2,885,735 | MORGAN, ANDRE MICHELLE   | 2,997,306 |
| MCALLASTER, STEVEN       | 2,967,536 | MEYER-SCHONBOHM,         |           | MORI, DAISUKE            | 3,009,485 |
| MCALLISTER, KEVIN HALL   | 2,852,268 | HANNES                   | 2,986,638 | MORI, HIROTO             | 2,974,790 |
| MCCAFFERTY, MEGAN ROSE   | 3,008,246 | MEZGER, WILLIAM JEROME   | 2,795,261 | MORITA, MIKIO            | 2,887,887 |
| MCCLOUD, TRAVIS SMITH    | 2,809,530 | MG STROKE ANALYTICS INC. | 2,884,606 | MORITA, YOSHIKAZU        | 2,879,992 |
| MCCONNELL, JEREMY A.     | 2,898,087 | MHETAR, VIJAY            | 2,935,074 | MORRIS, BRAD             | 2,842,006 |
| MCCOVICK, ROBERT E.      | 3,042,041 | MICHAELIS, NICO          | 2,819,687 | MOSELEY, JEFFREY         | 2,825,691 |
| MCCULLOUGH, RON          |           | MICHELIN RECHERCHE ET    |           | MOSEMAN, ELLIOTT ASHLEY  | 2,740,155 |
| MICHAEL                  | 2,785,020 | TECHNIQUE S.A.           | 2,868,136 | MOUNTS, DUSTON           | 2,873,621 |
| MCDEVITT, JOHN           | 2,934,284 | MICKEY, KEITH            | 3,054,504 | MOUTOS, FRANKLIN         |           |
| MCDONALD, ALAN           | 2,868,478 | MIDDELKOOP, KRISTIN      |           | THOMAS                   | 2,962,223 |
| MCDONALD, DEBRA          |           | ELIZABETH                | 2,852,636 | MOYERS, MICHAEL          | 2,967,536 |
| CHRISTINE                | 2,981,809 | MIDEA GROUP CO., LTD.    | 2,950,450 | MTD PRODUCTS INC         | 2,878,285 |
| MCDONOUGH, THOMAS        | 2,754,254 | MIHALIC, JEFFREY THOMAS  | 2,799,972 | MUELLER INTERNATIONAL,   |           |
| MCDOWELL, CHRISTOPHER    |           | MILES, ANDREW FREDERICK  | 2,817,456 | LLC                      | 2,777,973 |
| L.                       | 2,937,732 | MILIDANTRI, THOMAS       |           | MUHE-STURM, FRANK        | 2,847,448 |
| MCGEE, LAWRENCE          | 2,799,972 | HORACE                   | 2,877,692 | MUHL, WOLFGANG           | 3,021,464 |
| MCGOWAN, NEIL            | 2,842,006 | MILLER, BRUCE E.         | 2,876,695 | MUHLER, JORG             | 3,026,959 |
| MCINTOSH, JOEL           | 2,799,972 | MILLER, DAN              | 2,967,536 | MULLER, MATTHEW R.       | 2,873,621 |
| MCLEAN, SCOTT            | 2,982,550 | MILLER, JOSHUA JAMES     | 2,873,621 | MULTI-CHEM GROUP, LLC    | 2,963,910 |
| MCMINN, DUSTIN           | 2,799,972 | MILLER, PHILIP           | 2,871,056 | MULYE, NIRMAL            | 2,898,105 |
| MEAD, WILLIAM J.         | 2,842,658 | MILLER, RICK G.          | 2,877,993 | MUNDIM, MARCUS           | 3,007,806 |
| MEASURAND INSTRUMENTS    |           | MILWAUKEE ELECTRIC       |           | MUNIZ, LUIS              | 2,981,752 |
| INC.                     | 2,911,175 | TOOL CORPORATION         | 2,827,321 | MURALI, SUJITH           | 2,935,074 |
| MEDARD DE CHARDON,       |           | MINERBO, GERALD N.       | 2,868,813 | MURAMOTO, NOBUHIKO       | 2,992,048 |
| BRIAC                    | 2,885,178 | MINKUS, MARC STEVEN      | 2,873,621 | MURAMOTO, NOBUHIKO       | 2,992,058 |
| MEDERSKI, WERNER         | 2,856,103 | MIRANDA, FABRICIO        | 3,007,806 | MURATA MANUFACTURING     |           |
| MEDIMMUNE LIMITED        | 2,871,172 | MISHKIN, GARY JOEL       | 2,877,303 | CO., LTD.                | 2,923,375 |
| MEDINA, JULIO CESAR      | 2,799,972 | MISRA, MANJUSRI          | 2,945,688 | MURATA MANUFACTURING     |           |
| MEDIRATTA, SANGITA       | 2,960,846 | MISTRO, GUY DEL          | 2,785,020 | CO., LTD.                | 2,944,769 |
| MEDLINE INDUSTRIES, INC. | 2,911,695 | MITEK HOLDINGS, INC.     | 2,950,712 | MURPHY, BRIAN            | 2,734,236 |
| MEDTENTIA                |           | MITREV, PANDE            | 2,877,424 | MURPHY, GLEN             | 2,823,170 |
| INTERNATIONAL LTD OY     | 2,852,172 | MITSUBA CORPORATION      | 2,895,591 | MURRAY, ANDREA           | 2,707,025 |
| MEDTRONIC XOMED, INC.    | 2,860,422 | MITSUBISHI ELECTRIC      |           | MURRAY, CHRISTOPHER      |           |
| MEERPOEL, LIEVEN         | 2,796,204 | CORPORATION              | 2,975,369 | WILLIAM                  | 2,796,204 |
| MEGMILK SNOW BRAND CO.,  |           | MITSUBISHI HEAVY         |           | MURRAY, NEAL SCOTT       | 2,874,665 |
| LTD.                     | 2,879,992 | INDUSTRIES, LTD.         | 2,974,790 | MURRAY, NEAL SCOTT       | 2,915,652 |

**Index des brevets canadiens délivrés  
25 août 2020**

|                                                              |           |                                               |           |                                                 |           |
|--------------------------------------------------------------|-----------|-----------------------------------------------|-----------|-------------------------------------------------|-----------|
| MUTHUPPALANIAPPAN,<br>MEYYAPPAN                              | 2,798,080 | NICOVENTURES HOLDINGS<br>LIMITED              | 2,996,380 | OBSCHESTVO S<br>OGRANICHENNOY                   |           |
| MUTIKAINEN, JARI                                             | 2,943,441 | NIELSEN, ULRIK                                | 3,019,085 | OTVETSTVENNOSTYU<br>«GEMATOLOGICHESKAY          |           |
| MUTLU, OVUNC                                                 | 2,929,912 | NIGHT AND DAY FURNITURE<br>LLC                | 2,990,536 | A KORPORATSIYA»                                 | 2,879,601 |
| MX TECHNOLOGIES, INC.                                        | 2,934,280 | NIHON NOHYAKU CO., LTD.                       | 3,013,564 | OCHSE, MARCO                                    | 2,954,464 |
| MYCOVIA<br>PHARMACEUTICALS,<br>INC.                          | 2,861,339 | NIKE INNOVATE C.V.                            | 2,862,214 | ODASHIMA, YOSHIHIRO                             | 2,944,769 |
| NADA, MITSUHIRO                                              | 3,008,299 | NIKE INNOVATE C.V.                            | 3,010,911 | OFFNER, SONJA                                   | 3,008,822 |
| NADJI, SOURENA                                               | 2,862,606 | NIKIFORUK, COLIN                              | 2,868,449 | OGURA, TAKAYUKI                                 | 2,861,027 |
| NAGEL, DANIEL                                                | 2,843,338 | NIPPI, INCORPORATED                           | 2,861,027 | OH, EUN MI                                      | 2,981,539 |
| NAGELI, DOMINIK<br>CHRISTIAN                                 | 2,908,558 | NIPPON FILCON CO., LTD.                       | 2,811,652 | OH, HO-SIK                                      | 3,039,772 |
| NAGURA, KENJI                                                | 3,021,167 | NIPPON PAINT AUTOMOTIVE<br>COATINGS CO., LTD. | 2,881,370 | OH, SOO HYUN                                    | 2,907,060 |
| NAGY, EVA                                                    | 2,830,305 | NIPPON STEEL<br>CORPORATION                   | 2,999,834 | OHBA, YASUHIRO                                  | 2,861,027 |
| NAKAMICHI, TSUBASA                                           | 2,999,834 | NISHI, TAKAHIRO                               | 2,806,796 | OHKAWA, MASATO                                  | 3,069,579 |
| NAKAMURA, KATSUMI                                            | 2,974,790 | NISHI, TAKAHIRO                               | 3,069,579 | OHMACHI, AIKO                                   | 2,879,992 |
| NAKAMURA, SOU                                                | 2,774,193 | NISSAN MOTOR CO., LTD.                        | 2,986,550 | OHRR, KEVIN K.                                  | 2,862,606 |
| NAKANISHI, MEGUMI                                            | 2,987,236 | NISSAN MOTOR CO., LTD.                        | 3,025,638 | OHTO, CHIKARA                                   | 2,992,048 |
| NAKATA, HIKARU                                               | 3,009,485 | NITE IZE, INC.                                | 3,021,495 | OHTO, CHIKARA                                   | 2,992,058 |
| NAKATA, HIROSHI                                              | 3,007,073 | NOGAMI, TOSHIZO                               | 2,966,588 | OILFIELD EQUIPMENT<br>DEVELOPMENT CENTER        |           |
| NAKAUCHI, HIROMITSU                                          | 2,774,193 | NOKIA TECHNOLOGIES OY                         | 2,943,441 | LIMITED                                         | 2,957,757 |
| NAM, HYE YEONG                                               | 3,009,486 | NOMIL LTD.                                    | 2,862,583 | OILFLOW SOLUTIONS INC.                          | 2,884,924 |
| NAM, KI YEAN                                                 | 2,907,060 | NONNIG, MARTIN                                | 3,026,959 | OJKIC, DAVOR                                    | 2,830,305 |
| NAM, SUNG-WOO                                                | 2,924,451 | NORDISCHER<br>MASCHINENBAU RUD.               |           | OKACHI, YASUBUMI                                | 2,890,382 |
| NAM, SUNG-WOO                                                | 2,924,456 | BAADER GMBH + CO. KG                          | 3,017,397 | OLDBURY, ROSS                                   | 2,996,380 |
| NANOBACTERIE                                                 | 2,985,163 | NORDISCHER<br>MASCHINENBAU RUD.               |           | OLIPHANT, ARNOLD                                | 2,807,572 |
| NAOI, TOMOYUKI                                               | 2,878,431 | BAADER GMBH + CO. KG                          | 3,019,085 | OLIVAR MIRO, RUT                                | 2,841,994 |
| NAPIER, LORI                                                 | 2,978,658 | NORDISCHER<br>MASCHINENBAU RUD.               |           | OLOL, MUSSE                                     | 2,917,700 |
| NAPIERALA, CHRISTIAN<br>FRANK                                | 3,034,141 | BAADER GMBH + CO. KG                          | 3,019,085 | OLSEN, GREGORY JAMES                            | 2,785,582 |
| NARA, TAKAYUKI                                               | 2,879,992 | NORDISCHER<br>MASCHINENBAU RUD.               |           | OLSEN, GREGORY JAMES                            | 2,852,636 |
| NARAGHI, ALI                                                 | 2,817,456 | BAADER GMBH + CO. KG                          | 3,019,454 | OLSEN, MARY KATHRYN                             | 2,960,846 |
| NARUSKEVICIUS, LEONAS                                        | 2,875,323 | NOSKE, JOE                                    | 2,937,732 | OLSEN, ROBERT J.                                | 2,859,390 |
| NASCIMENTO, LUDMILA<br>PINHEIRO DO                           | 2,883,998 | NOSKOWICZ, DAVID S.                           | 2,911,695 | OLSEN, ROBERT J.                                | 2,875,007 |
| NASHERY, KHASHAYAR A.                                        | 2,868,042 | NOUSIAINEN, JAAKKO                            | 2,866,469 | OLSEN, ROBERT L.                                | 2,978,658 |
| NATERA, INC.                                                 | 2,821,906 | NOVARTIS AG                                   | 2,806,637 | OLSON, ROHN LEE                                 | 2,967,228 |
| NATERA, INC.                                                 | 2,877,493 | NOVARTIS AG                                   | 2,852,268 | OLSON, STEVEN HOWARD                            | 2,799,972 |
| NATIONAL REFRIGERATION<br>& AIR CONDITIONING<br>CANADA CORP. | 2,842,658 | NOVARTIS AG                                   | 2,857,302 | OLSON, THADDEUS W.                              | 3,008,452 |
| NATIONAL RESEARCH<br>COUNCIL OF CANADA                       | 2,862,907 | NOVARTIS AG                                   | 2,994,779 | OLSZEWSKA-PAZDRAK,<br>BARBARA                   | 2,663,547 |
| NEELEY, MATTHEW G.                                           | 2,916,595 | NOVARTIS AG                                   | 2,857,424 | OMNICELL, INC.                                  | 2,857,602 |
| NELSON, WESLEY M.                                            | 2,831,399 | NOVOTNY, PAUL M.                              | 2,999,946 | ONCIMMUNE LIMITED                               | 2,707,025 |
| NEOMEND, INC.                                                | 2,795,261 | NOWAK, ANDREW P.                              | 2,896,111 | ONQUIERT, GUILLAUME                             | 2,925,503 |
| NEOVASC MEDICAL LTD.                                         | 2,981,561 | NOWELL, MARK S.                               | 3,000,679 | ONTARIO DRIVE & GEAR<br>LIMITED                 | 2,988,837 |
| NESS, ERIK D.                                                | 2,961,941 | NOWZARI, NADER                                | 2,902,917 | ONTARIO POWER<br>GENERATION INC.                | 3,000,420 |
| NESTE OYJ                                                    | 2,837,418 | NR ELECTRIC CO., LTD                          | 3,060,024 | OOSTERMAN, JAMES                                | 2,843,392 |
| NEUROHR, ANSELM JAKOB                                        | 2,871,950 | NR ENGINEERING CO., LTD                       | 3,060,024 | OPULENT ELECTRONICS<br>INTERNATIONAL PTE<br>LTD | 2,918,257 |
| NEUROMETRIX, INC.                                            | 2,811,330 | NUOVO PIGNONE SRL                             | 2,886,300 | ORCHERTON, JIM                                  | 3,054,504 |
| NEW WAY MACHINE<br>COMPONENTS, INC.                          | 2,968,755 | O&M HALYARD<br>INTERNATIONAL                  |           | ORLANDINI, LAURA                                | 3,008,246 |
| NEXANS                                                       | 2,821,400 | UNLIMITED COMPANY                             | 2,854,864 | ORMSBEE, BOWDEN                                 | 3,021,495 |
| NG, CHOON-SUN JAMES                                          | 3,077,714 | O&M HALYARD<br>INTERNATIONAL                  |           | ORTH, JON M.                                    | 3,019,319 |
| NGUYEN, DUY                                                  | 2,877,786 | UNLIMITED COMPANY                             | 2,881,345 | ORTH, KIM                                       | 2,832,443 |
| NGUYEN, TRONG TIN                                            | 2,871,950 | O'BRIEN, TIM                                  | 3,015,329 | ORYNIAK, CARYN                                  | 2,981,752 |
| NGUYEN, TUNG K.                                              | 2,885,735 | O'CONNOR, DENISE E.                           | 2,881,345 | OSBORN INTERNATIONAL<br>AB                      | 2,907,851 |
| NICHOLSON, RYAN MICHAEL                                      | 2,887,280 | O'LEARY, KEVIN                                | 2,795,942 | OSIENSKI, RICHARD                               | 2,947,863 |
| NICOLINI, DEREK                                              | 2,843,133 | O'REAR, DENNIS JOHN                           | 2,872,792 | OSMANSKI, RICHARD                               | 2,950,712 |
| NICOVENTURES HOLDINGS<br>LIMITED                             | 2,996,377 | O'REAR, DENNIS JOHN                           | 2,872,793 | OTSUKA PHARMACEUTICAL<br>FACTORY, INC.          | 3,009,485 |
|                                                              |           | O'REILLY, TERENCE                             | 2,994,779 | OVERFIELD, DENNIS O.                            | 2,982,550 |
|                                                              |           | OBERWELZ, ELGER                               | 2,935,633 | OVERTHUN, THOMAS D.C.                           | 2,935,633 |

## Index of Canadian Patents Issued August 25, 2020

|                          |           |                          |           |                          |           |
|--------------------------|-----------|--------------------------|-----------|--------------------------|-----------|
| OWEN, MICHAEL JAMES      | 2,876,013 | PEEL, SEAN A.F.          | 2,868,992 | POLIDORO, JOHN M.        | 2,982,550 |
| OWEN, ROBERT MCKENZIE    | 3,007,595 | PELLA CORPORATION        | 2,992,360 | POLLICK, RICHARD DUANE   | 2,968,755 |
| OWENS, DYLAN             | 2,904,675 | PELLE, EDWARD            | 2,999,750 | POLWART, NEIL            | 2,857,424 |
| OWENS, GLENN ROBERT, JR. | 3,048,264 | PELLEGRINI, MARC         | 2,913,189 | POLY-AMERICA, L.P.       | 2,936,547 |
| P.C.O.A. DEVICES LTD.    | 2,878,732 | PEPE, GREGORY            | 2,929,040 | POMPA, JONATHAN          | 2,904,675 |
| PACE, CARLA EMILIA       | 2,791,733 | PEREGO, GABRIELE         | 2,917,253 | PONNAM, RAJESH           | 2,864,743 |
| PACHPUTE, VIPUL DILIP    | 2,864,332 | PERERA, TIMOTHY PIETRO   |           | PONOMARENKO, ANNA        |           |
| PADRO, KENNY             | 2,809,057 | SUREN                    | 2,796,204 | DMITRIEVNA               | 2,957,653 |
| PAGANO, SALVATORE        | 2,868,136 | PERFUZIA MEDICAL, INC.   | 2,828,096 | PORTER, HOWARD           | 2,990,536 |
| PAILLE, DAMIEN           | 2,873,522 | PERKINS, JAMES TAYLOR    | 2,883,956 | POSSEMATO, ANTHONY       |           |
| PAINE, JOHN WILLIAM      | 2,881,673 | PERLBARG, VINCENT        | 2,888,118 | PAUL                     | 2,841,900 |
| PAL, AJAI                | 2,734,236 | PERNODET, NADINE         | 2,999,750 | POTANIN, ANDREI          | 2,997,306 |
| PALLE, VENKATA P.        | 2,864,332 | PERSSON, HANS            | 2,832,040 | POTH, TILO               | 2,997,306 |
| PALM, SCOTT K.           | 2,845,610 | PESKAR, JUSTIN C.        | 3,008,452 | POULAIN, ISABELLE        | 2,873,522 |
| PALOMINO ROCA, MIGUEL    | 2,947,052 | PETERSEN, BRENT          | 2,898,281 | POULSTON, STEPHEN        | 2,854,714 |
| PALTI, YORAM             | 2,848,636 | PETERSON, JAMES W.       | 2,993,825 | POWELL, WILLIAM          |           |
| PAN, RAY                 | 2,803,313 | PETROVICS, GYORGY        | 2,719,172 | CAMERON                  | 2,825,195 |
| PANASONIC INTELLECTUAL   |           | PEUTERT, CHANCE          | 2,960,550 | PRATT & WHITNEY CANADA   |           |
| PROPERTY                 |           | PEZOUS, NICOLE           | 2,852,268 | CORP.                    | 2,754,254 |
| CORPORATION OF           |           | PFIZER INC.              | 2,987,179 | PRECISION PLANTING LLC   | 2,844,208 |
| AMERICA                  | 3,069,579 | PFIZER LIMITED           | 3,007,595 | PRENCIPE, MICHAEL        | 2,997,306 |
| PANSENGROUW, BESTER      |           | PHAM, VINCENT            | 3,064,122 | PRESIDENT AND FELLOWS    |           |
| JACOBUS                  | 2,915,569 | PHAN, VAN HUNG           | 2,876,013 | OF HARVARD COLLEGE       | 2,740,155 |
| PANSHIN, STEPHEN D.      | 2,961,941 | PHILIP MORRIS PRODUCTS   |           | PRESIDENT AND FELLOWS    |           |
| PANTELEEVA, MIKHAIL      |           | S.A.                     | 2,861,786 | OF HARVARD COLLEGE       | 2,787,242 |
| ALEKSANDROVICH           | 2,879,601 | PHILIP MORRIS PRODUCTS   |           | PRESTON, SCOTT           | 3,000,420 |
| PANTELLERIA, JOSEPH A.   | 2,857,851 | S.A.                     | 2,877,424 | PRESTRELSKI, STEVEN      | 2,853,942 |
| PAPANIKOS, ALEXANDRA     | 2,796,204 | PHILIP MORRIS PRODUCTS   |           | PREUSS, JOSEF            | 2,930,341 |
| PARK, DONG-HWARN         | 2,941,230 | S.A.                     | 2,898,248 | PRICE, DANIEL W.         | 2,809,988 |
| PARK, DONG-HWARN         | 2,941,232 | PHILLIPS 66 COMPANY      | 3,055,408 | PRICE, LES               | 2,839,812 |
| PARK, JAE-HWAN           | 2,924,451 | PHOENIX CONTACT GMBH &   |           | PRICKEL, MARVIN A.       | 2,959,933 |
| PARK, JAE-HWAN           | 2,924,456 | CO. KG                   | 3,004,953 | PRIEST, DAVID M.         | 2,847,652 |
| PARK, JI CHAN            | 2,983,738 | PICHLER, ANDREAS         | 2,891,532 | PRINCE, MICHAEL          | 2,911,513 |
| PARK, KOO YUN            | 3,010,302 | PIEDER, JOERG            | 2,890,585 | PRODDUTURI, SHIVAKUMAR   | 2,959,933 |
| PARK, SUNG-IK            | 2,965,067 | PIEL, ARTUR              | 2,992,214 | PROGRESS PROFILES SPA    | 2,790,556 |
| PARKER, GARTH R.         | 2,875,007 | PIERCE, GREGORY C.       | 2,859,390 | PRUSKAUER, MARK ALAN     | 2,848,005 |
| PARKINSON, ADAM          | 3,010,911 | PIGOURIER, JEROME        | 2,819,921 | PRYDE, DAVID CAMERON     | 3,007,595 |
| PARKS, BEVIN             | 3,042,041 | PILATTE, ISABELLE NOELLE |           | PRYSMIAN S.P.A.          | 2,917,253 |
| PARMETER, LARRY JAMES    | 2,887,280 | CONSTANCE                | 2,796,204 | PUBLICHNOE               |           |
| PARSONS, THOMAS          | 2,869,059 | PILOT POLYMER            |           | AKTSIONERNOE             |           |
| PART, DARREN             | 2,957,757 | TECHNOLOGIES, INC.       | 2,820,052 | OBSCHESTVO               |           |
| PASON SYSTEMS CORP.      | 3,077,714 | PINAULT, PHILIPPE        | 2,850,212 | "GAZPROM"                | 2,957,653 |
| PASQUIER, ELISABETH      |           | PINCKNEY, GREG           | 2,769,380 | PURDUE, JAMES C.         | 2,978,658 |
| THERESE JEANNE           | 2,796,204 | PIONEER HI-BRED          |           | PUSZKIEWICZ, IGNACY      | 3,010,648 |
| PATEL, ROHEET            | 2,785,582 | INTERNATIONAL, INC.      | 3,012,617 | PUTCO, INC.              | 3,004,576 |
| PATEL, PAYAL PARTH       | 2,862,606 | PIONEER HI-BRED          |           | PUTNAM, BENJAMIN P.      | 3,017,158 |
| PATEL, ROHEET            | 2,852,636 | INTERNATIONAL, INC.      | 3,012,638 | PUYBASSET, LOUIS         | 2,888,118 |
| PATEL, VYOMA             | 2,997,306 | PIONEER HI-BRED          |           | QU, JINPING              | 2,989,360 |
| PATERNOSTER, RUDOLF      | 2,930,341 | INTERNATIONAL, INC.      | 3,012,664 | QU, LIANGWEI             | 2,963,910 |
| PATRICK, HENRY           | 2,842,994 | PITOLAJ, STEFAN          | 2,875,487 | QUARK PHARMACEUTICALS,   |           |
| PATTERSON, CURTIS        | 3,010,961 | PLANK, NICOLE            | 3,000,570 | INC.                     | 2,851,296 |
| PATTERSON, HUBERT A.     | 2,792,405 | PLASAN SASA LTD.         | 2,757,704 | QUARK PHARMACEUTICALS,   |           |
| PATTON, PENELOPE A.      | 2,978,658 | PLATFORM BRIGHTWORKS     |           | INC.                     | 2,962,219 |
| PAULSOHN, CARSTEN        | 3,017,397 | TWO, LTD.                | 2,834,262 | QUEIROZ, ARTHUR          | 3,007,806 |
| PAULSOHN, CARSTEN        | 3,019,085 | PLATZER, JOSEF           | 3,008,822 | QUERALES, MAIQUEL        |           |
| PAUR, CHARANJIT S.       | 2,947,052 | PLOEMEN, INGMAR          |           | MANUEL                   | 2,975,591 |
| PAVAN, RENATO            | 2,967,232 | HUBERTUS JOSEPHINA       | 2,827,861 | QUEROLLE, OLIVIER ALEXIS |           |
| PAVLOVSKI, ALEXANDRE     | 2,933,360 | PLOJOUX, JULIEN          | 2,861,786 | GEORGES                  | 2,796,204 |
| PAWLUS, ALISON           | 3,012,104 | PODA, DANIEL             | 3,017,055 | QUEST DIAGNOSTICS        |           |
| PAZ, ILAN                | 2,878,732 | PODGURSKI, DANIEL M.     | 2,906,500 | INVESTMENTS              |           |
| PECK, SHAUN              | 2,821,100 | POHL, MATTHIAS           | 2,819,687 | INCORPORATED             | 2,840,964 |
| PEDERSEN, PERNILLE       |           | POHLMANN, ADRIANA        |           | QUICK, TRENT             | 3,004,576 |
| DYBENDAL                 | 2,871,697 | RAFFIN                   | 2,883,998 | QURIENT CO., LTD.        | 2,907,060 |
| PEDICINI, CHRISTOPHER S. | 3,014,343 | POLACZEK, KAROL          | 2,987,452 |                          |           |

**Index des brevets canadiens délivrés  
25 août 2020**

|                                                          |           |                                                 |           |                                        |           |
|----------------------------------------------------------|-----------|-------------------------------------------------|-----------|----------------------------------------|-----------|
| RAAMADHURAI, SRIKRISHNA                                  | 3,001,800 | REYNOLDS PRESTO PRODUCTS INC.                   | 2,898,087 | ROTA, GILBERT                          | 2,892,981 |
| RABBANI, ELAZAR                                          | 3,008,065 | RHA, CHAN SU                                    | 2,877,442 | ROTH, HEINZ JUERGEN                    | 2,865,182 |
| RABINOWITZ, MATTHEW                                      | 2,821,906 | RHEINMETALL WAFFE MUNITION GMBH                 | 2,910,118 | ROTH, JOSHUA JOHN                      | 2,861,638 |
| RABIPOUR, RAFI                                           | 2,842,886 | RHIZEN PHARMACEUTICALS S.A.                     | 2,798,080 | ROTH, KRISTIAN                         | 2,769,380 |
| RADTKE, IAN R.                                           | 2,844,208 | RHOADES, VALERIE LISA                           | 2,948,477 | ROULLET, ROMAIN                        | 2,898,864 |
| RADY, PAUL                                               | 3,055,408 | RHODE ISLAND COUNCIL ON POSTSECONDARY EDUCATION | 2,777,126 | ROUSSEAU, BENJAMIN                     | 2,873,522 |
| RAFFERTY, STEPHEN W.                                     | 2,861,339 | RICCI, ALESSIO                                  | 2,983,495 | ROUTMAN, HOWARD D.                     | 2,907,537 |
| RAGHUNATHAN, GOPALAN                                     | 2,957,275 | RICE, PATRICK                                   | 2,657,565 | ROVETO, PHILIP MARLEY                  | 2,799,972 |
| RAGHURAM, SANDEEP MUDABAIL                               | 3,003,146 | RICHARD, ALAIN                                  | 2,871,950 | ROWE, CHRISTOPHER JAMES                | 2,898,248 |
| RAHMAN, KHONDAKER MIRAZUR                                | 2,871,172 | RICHARD, BRUNO                                  | 2,898,864 | ROWSSELL, ELIZABETH                    | 2,854,714 |
| RAJENDRAN, SUNDAR                                        | 2,835,354 | RICHARDS, II, EDMUND BENNETT                    | 2,942,634 | ROY, NORMAND                           | 2,888,536 |
| RAKITSKY, WALT                                           | 2,825,691 | RICHARDS, LEE                                   | 2,895,405 | ROZSA, BALAZS JOZSEF                   | 2,931,603 |
| RAMSAY, JEROME                                           | 3,054,504 | RICHTEROVA, KARLA                               | 2,817,456 | RUAG SCHWEIZ AG, RUAG SPACE            | 2,908,558 |
| RANDHAWA, ASHMITA                                        | 2,975,118 | RIDESHARK CORPORATION                           | 2,585,412 | RUAN, YIMIN                            | 3,012,673 |
| RANGANATHAN, SATHISH KUMAR                               | 2,935,074 | RIGATO, RICCARDO                                | 2,889,812 | RUDENKO, GEORGE                        | 2,825,691 |
| RAO, ANJANA                                              | 2,636,417 | RIGNEY, NICK                                    | 2,967,536 | RUHLAND-BAUER, MICHAEL                 | 2,896,808 |
| RAPID AID CORP.                                          | 2,838,148 | RIKKOLA, MICHAEL J.                             | 2,803,313 | RUIJSSENAARS, ROBERT                   | 2,890,910 |
| RAPTIS, MARK                                             | 2,995,009 | RIKOSKI, RICHARD J.                             | 2,904,675 | RUSCIO, DANI                           | 2,861,786 |
| RAQUALIA PHARMA INC.                                     | 2,887,887 | RIMKUNAS, VICTORIA MCGUINNESS                   | 2,841,900 | RUSSO, AMY                             | 2,997,306 |
| RARE ELEMENT RESOURCES, LTD.                             | 2,964,306 | RIPPEL, ANNA                                    | 2,969,631 | RUSSOTTI, GREGORY                      | 2,734,236 |
| RASCHKE, NIKOLAS                                         | 3,030,191 | RIPPIN, SUSAN R.                                | 2,966,466 | RYAN, ALLISON                          | 2,821,906 |
| RASMUSSEN, NIELS TJORNLY                                 | 3,019,085 | RISING FAST PTY LTD                             | 2,914,258 | RYNEARSON, RODNEY WAYNE                | 3,048,264 |
| RATHEE, SATYAPAL                                         | 2,827,636 | RITESAFETY PRODUCTS INTERNATIONAL, LLC          | 2,887,644 | S.P.C.M. SA                            | 2,847,680 |
| RATZ, ROLAND                                             | 2,983,892 | RITTAL GMBH & CO. KG                            | 3,032,313 | SADAKATA, NOBUYASU                     | 2,895,591 |
| RAVIKOVITCH, PETER I.                                    | 2,947,052 | ROBERTS, MARK F.                                | 2,887,601 | SADATOMI, YOSHITAKA                    | 2,999,834 |
| RAWSON, MARK                                             | 2,947,863 | ROBERTSON, JOHN FORSYTH RUSSELL                 | 2,707,025 | SAFEMINE AG                            | 3,007,806 |
| RAYNER INTRAOCULAR LENSES LIMITED                        | 3,000,570 | ROBEY, RAYMOND J.                               | 2,996,340 | SAGNARD, ALAIN                         | 2,872,634 |
| READER, JOHN CHARLES                                     | 2,941,824 | ROBINSON, JAMES B.                              | 2,881,345 | SAHI, CARL R.                          | 2,982,550 |
| READER, MICHAEL                                          | 2,796,204 | ROBINSON, JEFFREY S.                            | 2,881,345 | SAINT-AUGUSTIN CANADA ELECTRIC INC.    | 2,986,638 |
| REAMER, ERIC M.                                          | 2,978,658 | ROBINSON, KATE ELIZABETH                        | 3,011,291 | SAINT-GOBAIN GLASS FRANCE              | 2,883,716 |
| RECHARGEABLE BATTERY CORPORATION, D/B/A RBC TECHNOLOGIES | 3,014,343 | ROBINSON, TIMOTHY G.                            | 2,873,621 | SAINT-GOBAIN GLASS FRANCE              | 3,019,147 |
| RECKER, KENT M.                                          | 3,013,837 | ROBINSON, TIMOTHY MARK                          | 2,858,074 | SAITO, AKIHIRO                         | 2,987,236 |
| RECKITT BENCKISER LLC                                    | 2,874,502 | ROCHE, CHRISTOPHER P.                           | 2,907,537 | SAITOU, HIDEO                          | 3,069,579 |
| RED VALVE COMPANY, INC.                                  | 2,934,752 | RODGERS, BARRY                                  | 2,842,994 | SAKUTA, ALEXANDER                      | 3,000,420 |
| REDETEC INC.                                             | 2,843,392 | RODINGER, TOMAS                                 | 2,781,650 | SALINAS, ENER                          | 3,058,026 |
| REED, BRYAN W.                                           | 2,921,307 | RODRIGUEZ, SAVIO                                | 3,022,251 | SALINGER, DANIEL                       | 2,874,382 |
| REES, DAVID CHARLES                                      | 2,796,204 | RODRIGUEZ-URIBE, ARTURO                         | 2,945,688 | SALIX PHARMACEUTICALS, INC.            | 2,859,203 |
| REEVES, CYNTHIA                                          | 2,841,900 | ROEGL, HARALD                                   | 2,891,492 | SAMANTA, PRATIP                        | 3,001,800 |
| REILLY, WILLIAM J.                                       | 2,911,513 | ROGALSKI, EARL J.                               | 2,875,487 | SAMSON, C. MICHAEL                     | 2,847,364 |
| REIMER, MARK                                             | 2,928,783 | ROHM AND HAAS COMPANY                           | 2,859,390 | SAMSUNG ELECTRONICS CO., LTD.          | 2,981,539 |
| REINER, HARALD                                           | 2,896,808 | ROHM AND HAAS COMPANY                           | 2,875,007 | SAMUEL, ROBELLO                        | 2,948,321 |
| REISINGER SPRAGUE, ELIZABETH ANNE                        | 2,806,637 | ROJAS-SILVA, OSWALDO EMILIO                     | 2,809,689 | SAMYANG BIOPHARMACEUTICALS CORPORATION | 3,009,486 |
| RELIABLE BIOPHARMACEUTICAL CORPORATION                   | 2,862,606 | ROLLS-ROYCE CORPORATION                         | 2,897,041 | SANDFORD, LISA                         | 2,852,268 |
| REMMERS, JOHN                                            | 2,876,684 | ROMANOSCHI, OVIDIU                              | 2,981,752 | SANDVIK INTELLECTUAL PROPERTY AB       | 2,884,417 |
| REMPEL, GARRETH                                          | 2,928,783 | ROMANOV, NIKOLAI NIKOLAEVICH                    | 2,902,992 | SANDZHIEVA, DELGIR ANDREEVNA           | 2,957,653 |
| REUTER, HARDY                                            | 2,983,892 | RONDA, TROY JACOB                               | 2,876,629 | SANTA CATARINA, MATEUS FROIS           | 2,977,403 |
| REUTER, WOLFGANG                                         | 3,032,313 | ROONEY, KEVIN PATRICK                           | 2,977,682 | SANTANGELO, BRYAN DAVID                | 2,875,845 |
| REVOL, MARC                                              | 2,818,681 | ROSEMAN, DANIEL S.                              | 2,838,746 | SANTHANAGOPALAN, RAM                   | 2,978,658 |
| REW, YOSUP                                               | 2,799,972 | ROSENCRANCE, SCOTT                              | 2,859,709 | SANTOSHAM, PETER                       | 2,876,684 |
| REY GARCIA, FERNANDO                                     | 2,947,052 | ROSMARK, PETER                                  | 2,884,417 | SAPPA, ENRICO                          | 2,840,666 |
| REYBURN, STEVEN T.                                       | 2,876,695 | ROST, ALAN L.                                   | 2,906,653 | SARANPAA, EMMI                         | 2,889,747 |
| REYES, ENRIQUE ANTONIO                                   | 3,009,163 |                                                 |           |                                        |           |

## Index of Canadian Patents Issued August 25, 2020

|                                 |           |                                                          |           |                                                              |           |
|---------------------------------|-----------|----------------------------------------------------------|-----------|--------------------------------------------------------------|-----------|
| SARBASH, VASILII<br>IVANOVICH   | 2,879,601 | SCHWARZ, JORG                                            | 3,004,781 | SHINDLEY, RICHARD PAUL                                       | 2,711,432 |
| SARDE, ANKUSH                   |           | SCHWARZE, HANS-OTTO                                      | 2,947,690 | SHINDO, YOICHI                                               | 2,895,591 |
| GANGARAM                        | 2,864,332 | SCHWENK, MICHELLE                                        | 2,978,658 | SHIODA, TAKAYUKI                                             | 2,885,857 |
| SAREUM LIMITED                  | 2,941,824 | SCOTT, NANCY                                             | 2,853,942 | SHIRE HUMAN GENETIC<br>THERAPIES, INC.                       | 2,838,746 |
| SARKAR, ANINDYA                 | 2,914,475 | SCOTT, PETER                                             | 2,820,533 | SHIVARAM, MADHURA                                            | 3,001,800 |
| SARTO, ANGELO A.                | 2,873,621 | SCOTVOLD, SEAN WILLIAM                                   | 3,077,714 | SHOKRALLA, SHADDY                                            | 3,000,420 |
| SASAI, HISAO                    | 2,806,796 | SCRIMTEC HOLDINGS, LLC                                   | 2,977,682 | SHORR, RYAN                                                  | 2,734,236 |
| SATO, KAZUMI                    | 2,944,769 | SCUILLER, LIONEL                                         | 2,891,760 | SHORT, JERRY                                                 | 3,015,329 |
| SATTI, NARESH                   | 2,960,455 | SEAL, TREVOR                                             | 2,865,792 | SHUDARK, JEFFREY                                             | 3,004,773 |
| SAUDER, DEREK A.                | 2,844,208 | SEALE, ROY DANIEL                                        | 2,977,682 | SHUKLA, MANOJKUMAR<br>RAMPRASAD                              | 2,864,332 |
| SAUNOIS, ALEX                   | 2,989,041 | SEARFOSS, TIMOTHY K.                                     | 3,023,715 | SHULVER, DAVID                                               | 2,995,879 |
| SAVAGE, DANIEL                  | 2,992,735 | SEATTLE CHILDREN'S<br>HOSPITAL D/B/A                     |           | SHVETSOV, KYRYLO                                             | 2,929,040 |
| SAWANT, SHITALKUMAR S.          | 2,828,744 | SEATTLE CHILDREN'S<br>RESEARCH INSTITUTE                 | 2,861,491 | SHYU, SONG-GEN                                               | 2,983,326 |
| SAXTY, GORDON                   | 2,796,204 | SEB S.A.                                                 | 2,841,678 | SIAZON, ROMUALDO SONNY                                       | 2,987,452 |
| SCAROZZA, DAVIDE                | 2,889,812 | SECUREKEY TECHNOLOGIES<br>INC.                           | 2,876,629 | SICA, RODOLFO                                                | 2,917,253 |
| SCEATS, MARK                    | 2,970,166 | SEEGER, DOUGLAS W.                                       | 3,033,341 | SIDDALL, THOMAS LYMAN                                        | 2,861,638 |
| SCENTBRIDGE HOLDINGS,<br>LLC    | 2,950,592 | SEKAB E-TECHNOLOGY AB                                    | 3,035,054 | SIEGEL, THOMAS G.                                            | 2,950,592 |
| SCHAEDLER, AXEL                 | 2,878,285 | SELBY, DAVID A.                                          | 2,827,321 | SIEMENS<br>AKTIENGESELLSCHAFT                                | 3,026,959 |
| SCHAEFER, EKKEHARDT TH.<br>F.   | 2,809,952 | SELMAN AND ASSOCIATES,<br>LTD.                           | 2,812,687 | SIEMENS HEALTHCARE<br>DIAGNOSTICS INC.                       | 2,638,782 |
| SCHAEFFER, JOSEPH M.            | 2,972,878 | SELMAN, THOMAS H.                                        | 2,812,687 | SIEMENS MOBILITY SAS                                         | 2,840,001 |
| SCHAFFNER, AUSTIN CARL          | 3,030,547 | SENSORMATIC                                              |           | SIEWE, BASILE                                                | 3,008,822 |
| SCHANEFELT, ROBERT V.           | 2,978,658 | ELECTRONICS LLC                                          | 2,792,405 | SIGA TECHNOLOGIES, INC.                                      | 2,966,466 |
| SCHEFFLER, DOUGLAS J.           | 2,868,042 | SEO, KANG YUN                                            | 2,941,230 | SIGAL, GEORGE                                                | 2,769,380 |
| SCHENDEL, DOLORES               | 2,843,338 | SEO, KANG YUN                                            | 2,941,232 | SIGURJONSSON, STYRMIR                                        | 2,821,906 |
| SCHIECK, MARTIN J.              | 2,952,883 | SEO, MIN-HYO                                             | 3,009,486 | SILVERS, DAVID                                               | 2,885,968 |
| SCHIERING, DAVID W.             | 2,878,354 | SEQUENOM, INC.                                           | 2,785,020 | SILVERSMITH, INC.                                            | 2,885,968 |
| SCHIMPF, DAVID                  | 2,868,797 | SEQUENOM, INC.                                           | 2,874,195 | SILVESTRINI, PATRICK<br>CHARLES                              | 2,898,248 |
| SCHINDLER, TIMO                 | 3,032,313 | SERIZAWA, ATSUSHI                                        | 2,879,992 | SIMELL, PEKKA                                                | 2,837,418 |
| SCHLIWA-BERTLING, PAUL          | 2,953,294 | SERKH, ALEXANDER                                         | 3,003,187 | SIMOV, VLADIMIR                                              | 2,871,514 |
| SCHLIWA-BERTLING, PAUL          | 2,975,083 | SHAHRI, MOJTABA PORDEL                                   | 2,929,912 | SIMPSON, GARY R.                                             | 2,965,538 |
| SCHLUMBERGER CANADA<br>LIMITED  | 2,855,010 | SHALEV, ILAN                                             | 2,981,561 | SINGH, SAMSHER                                               | 2,960,455 |
| SCHLUMBERGER CANADA<br>LIMITED  | 2,868,813 | SHANGHAI E-BLOT<br>PHOTOELECTRIC<br>TECHNOLOGY CO., LTD. | 2,993,873 | SINOPEC RESEARCH<br>INSTITUTE OF<br>PETROLEUM<br>ENGINEERING | 3,015,984 |
| SCHLUMBERGER CANADA<br>LIMITED  | 2,870,165 | SHANNON, DAVID THOMAS                                    | 3,036,419 | SIRIPURAPU, SRINIVAS                                         | 2,935,074 |
| SCHMITT, MICHAEL                | 2,862,214 | SHAPIRO, JAMES                                           | 2,851,723 | SKINNER, ROBERT                                              | 2,829,017 |
| SCHNEIDER ELECTRIC USA,<br>INC. | 2,842,994 | SHARGOTS, SCOTT J.                                       | 2,870,654 | SLAGER, NETANJA                                              | 2,962,219 |
| SCHNEIDER, CORY S.              | 2,898,087 | SHARONOVA, ANASTASIA<br>NIKOLAEVNA                       | 2,957,653 | SLATER, JERRY                                                | 2,967,536 |
| SCHNEIDER, DEAN                 | 3,003,187 | SHARP KABUSHIKI KAISHA                                   | 2,966,588 | SLAYTON, JOHN                                                | 2,967,064 |
| SCHNEIDER, SCOTT                | 2,827,321 | SHARP, RICHARD E.                                        | 2,896,111 | SMAARDYK, JOHN EDWARD                                        | 2,886,416 |
| SCHNEIDER, ULRICH               | 2,959,214 | SHARP, TIMOTHY JAMES<br>BERESFORD                        | 2,785,582 | SMITH & NEPHEW PLC                                           | 2,705,898 |
| SCHNIEDERS, BRITTA              | 3,004,781 | SHELEF, EITAN                                            | 2,883,983 | SMITH & NEPHEW PLC                                           | 2,843,133 |
| SCHNITZER, MARTIN               | 2,935,633 | SHEMESH, TZEELA<br>MIKOVSKY                              | 2,973,812 | SMITH, ALEXANDER BAXTER                                      | 2,857,302 |
| SCHOCK GMBH                     | 2,930,341 | SHEN, I-YEU                                              | 2,783,416 | SMITH, ANDREW WILLIAM<br>JOHN                                | 2,854,714 |
| SCHOLZ, PHILIPP                 | 3,030,191 | SHEN, XIUCHENG                                           | 2,918,484 | SMITH, DANIEL JOHN                                           | 2,785,582 |
| SCHOTZINGER, ROBERT J.          | 2,861,339 | SHERMAN, DAVID                                           | 2,638,782 | SMITH, IAIN                                                  | 2,959,214 |
| SCHRAMM, DANA                   | 2,999,123 | SHERWIN, JEFFREY                                         | 2,875,845 | SMITH, PAUL L.                                               | 2,937,732 |
| SCHREIBER, DANIEL               | 2,965,316 | SHESHBARADARAN,<br>HOOSHMAND                             | 2,835,885 | SMITH, ROBERT JAMES                                          | 2,881,673 |
| SCHROETER, WOLFGANG             | 2,995,879 | SHI, JINJUN                                              | 2,740,155 | SMITH, RODDIE R.                                             | 2,937,732 |
| SCHUBERT, FRANK                 | 3,019,454 | SHIBAHARA, YOUJI                                         | 2,806,796 | SMITH, TREVOR, D.                                            | 2,869,059 |
| SCHUBERT, MATTHEW               | 2,951,297 | SHIBUTANI, TADAO                                         | 3,009,485 | SMITH, ZACHARY B.                                            | 2,916,595 |
| SCHUBERT, SHAI Y.               | 2,828,096 | SHIBUYA, SHINJI                                          | 2,895,591 | SMITHS DETECTION, INC.                                       | 2,878,354 |
| SCHUBERT, ULRICH SIGMAR         | 2,880,997 | SHIELD AERODYNAMICS LLC                                  | 2,925,038 | SMUTNEY, CHAD C.                                             | 2,982,550 |
| SCHUHMACHER, NATALIE            | 3,008,822 | SHILLINGER, D. HANS                                      | 3,001,809 | SNECMA                                                       | 2,870,229 |
| SCHULTZ, ALFRED K.              | 2,859,390 | SHIMIZU, HIROFUMI                                        | 2,986,550 | SNECMA                                                       | 2,898,864 |
| SCHULTZ, RICHARD J.             | 2,916,595 | SHIMONO, KODAI                                           | 2,987,004 | SNYDER, DENNIS                                               | 2,925,038 |
| SCHUSTER, MATTHIAS              | 2,959,214 |                                                          |           | SOBRERO, GIOVANNI                                            | 2,840,666 |
| SCHUTH, MARCO                   | 2,958,113 |                                                          |           |                                                              |           |
| SCHWARZ, CORINNA                | 2,854,864 |                                                          |           |                                                              |           |



**Index des brevets canadiens délivrés  
25 août 2020**

|                                      |           |                                    |           |                                                        |           |
|--------------------------------------|-----------|------------------------------------|-----------|--------------------------------------------------------|-----------|
| SOKOLOVE, CHRISTOPHER BRIAN          | 3,022,946 | STOLLER, JASON J.                  | 2,844,208 | TAN, CHENGGANG                                         | 2,997,306 |
| SOLDERMANN, NICOLAS                  | 2,857,302 | STONA, ANDREA                      | 2,918,257 | TAN, LYLIEN                                            | 2,859,172 |
| SOLHEIM, JOHN A.                     | 3,005,852 | STONE, JOHN JAMES                  | 3,010,591 | TANAHASHI, KAZUHIRO                                    | 2,987,236 |
| SOLODEX LLC                          | 2,835,354 | STOPAK INDIA PVT. LTD.             | 2,915,569 | TANAKA, KEISUKE                                        | 2,861,027 |
| SOLVAY SA                            | 2,850,214 | STOWASSER, FRANK                   | 2,857,302 | TANAKA, KOTA                                           | 2,874,084 |
| SOMANCHI, ARAVIND                    | 2,825,691 | STOWE WOODWARD LICENSCO, LLC       | 3,010,712 | TANAKA, TOMOKO                                         | 2,992,048 |
| SOMMERLIVING AG                      | 2,876,422 | STRANG, ROSS                       | 2,857,302 | TANAKA, TOMOKO                                         | 2,992,058 |
| SON, KI-HWAN                         | 2,941,230 | STRANICK, MICHAEL A.               | 2,997,306 | TANG, XIANGWEI                                         | 2,950,450 |
| SON, KI-HWAN                         | 2,941,232 | STROHBACH, JOSEPH WALTER           | 2,987,179 | TANIKAWA, KYOKO                                        | 2,806,796 |
| SONG, GANG                           | 2,908,514 | STROUD, GARY ARTHUR                | 3,042,072 | TARAN, FREDERIC                                        | 2,879,583 |
| SONOCO DEVELOPMENT, INC.             | 3,014,343 | STRUBLE, CRAIG                     | 2,807,572 | TARRAND, JEFFREY                                       | 2,834,262 |
| SOREMARTEC S.A.                      | 2,840,666 | STRUHSAKER, PAUL                   | 3,043,928 | TATA, SWATI                                            | 3,001,800 |
| SORGEL, SEBASTIAN                    | 2,874,382 | SUBRAMANIAM, BALA                  | 3,048,188 | TATE & LYLE INGREDIENTS AMERICAS, LLC                  | 2,978,658 |
| SOUCY INTERNATIONAL INC.             | 2,888,536 | SUGENO, NAOYUKI                    | 2,923,375 | TATSUMI, RYOSUKE                                       | 2,972,351 |
| SOUTH CHINA UNIVERSITY OF TECHNOLOGY | 2,989,360 | SUGENO, NAOYUKI                    | 2,944,769 | TAYLOR COMMERCIAL FOODSERVICE INC.                     | 3,016,669 |
| SPANDLEY, LUKE                       | 3,017,775 | SUGIO, TOSHIYASU                   | 2,806,796 | TAYLOR, KENNETH                                        | 3,064,122 |
| SPANSWICK, JAMES                     | 2,820,052 | SUI, SHUNKE                        | 3,060,024 | TDW DELAWARE, INC.                                     | 3,023,235 |
| SPARKS, ANDREW                       | 2,807,572 | SUITOR, MATHEW D.                  | 3,036,414 | TECHNICAL CONSUMER PRODUCTS, INC.                      | 2,908,317 |
| SPENCER, MICHAEL R.                  | 3,004,864 | SULLIVAN, JOHN M.                  | 2,987,192 | TECHNOLOGICAL RESOURCES PTY. LIMITED                   | 2,881,673 |
| SPERINDE, JEFF                       | 2,835,284 | SULLIVAN, ROBERT W.                | 2,988,344 | TEIG, ADAM H.                                          | 2,948,569 |
| SPIELMAN, HAROLD W.                  | 3,010,851 | SULLSTAR TECHNOLOGIES, INC.        | 2,988,344 | TEIG, RANDY S.                                         | 2,948,569 |
| SPIRA, AVRUM                         | 2,528,572 | SUMITOMO CHEMICAL COMPANY, LIMITED | 2,885,857 | TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)                | 2,842,006 |
| SPIVAK, IGOR                         | 2,962,219 | SUN, CHEN                          | 2,719,172 | TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)                | 2,842,886 |
| SPRAGUE, GARY                        | 2,998,171 | SUN, DAQING                        | 2,799,972 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                 | 2,940,731 |
| SPRANGER, STEFANI                    | 2,843,338 | SUN, FRANK C.                      | 2,798,999 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                 | 2,953,294 |
| SPRANKLE, SHAWN E.                   | 2,978,658 | SUN, WENQUAN                       | 2,854,885 | TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)                 | 2,975,083 |
| SQUARE ENIX HOLDINGS CO., LTD.       | 2,923,910 | SUNCOR ENERGY INC.                 | 2,911,776 | TELETZKE, GARY F.                                      | 3,024,545 |
| SREENATH, TADURU                     | 2,719,172 | SUNDBERG, MARTEN                   | 2,953,294 | TEMA - TECHNOLOGIES AND MATERIALS SRL                  | 2,967,232 |
| SRIVASTAVA, SHIV                     | 2,719,172 | SUNDBERG, MARTEN                   | 2,975,083 | TEMPUR WORLD, LLC                                      | 2,935,633 |
| ST. JOHN, BRENT DAVID                | 2,887,280 | SUNG, HO-SANG                      | 2,981,539 | TEN GROTHENHUIS, RAYMOND                               | 3,000,420 |
| STADLER, HEINZ                       | 2,871,389 | SUTRUE LIMITED                     | 2,872,967 | TERAUCHI, MASUMI                                       | 2,923,375 |
| STAMP, CHRISTOPHER                   | 2,809,689 | SUTTER, MARCO                      | 2,959,214 | TERAUCHI, MASUMI                                       | 2,944,769 |
| STANISLAUS, MARIA CHARLES VIJAY      | 2,860,422 | SUWA, AKIYUKI                      | 3,013,564 | TERNOWETSKY, NEIL                                      | 2,928,783 |
| STAPLETON, TERRY M.                  | 2,998,809 | SUZUKI, HIDEYUKI                   | 2,974,790 | TERSIGNI, DONATO                                       | 3,007,794 |
| STAUFFER, FREDERIC                   | 2,857,302 | SUZUKI, TAKAYUKI                   | 2,874,084 | TETRA LAVAL HOLDINGS & FINANCE SA                      | 2,863,090 |
| STAUNER, JOSEPH                      | 2,951,297 | SVANEBJERG, ELO                    | 2,965,087 | TETZLAFF, STEVEN KEITH                                 | 2,831,924 |
| STAVRIANOPOULOS, JANNIS G.           | 3,008,065 | SWEERS, HEINER                     | 3,034,141 | THALES                                                 | 2,818,681 |
| STEFFENS, ALEXANDER                  | 3,019,085 | SYED, SARFRAZ AHAMED               | 2,918,484 | THALES ALENIA SPACE ITALIA S.P.A. CON UNICO SOCIO      | 2,889,812 |
| STEIN, JASON                         | 2,847,364 | SYMANTEC CORPORATION               | 2,828,744 | THALES AUSTRALIA LIMITED                               | 2,922,845 |
| STEIN, KARIN                         | 2,871,514 | SYNAPTIVE MEDICAL (BARBADOS) INC.  | 2,992,163 | THAO, JOHNNY                                           | 2,872,509 |
| STEINER, THOMAS                      | 3,014,394 | T4 SPATIAL LLC                     | 2,942,634 | THAU, LAWRENCE W.                                      | 2,911,513 |
| STEINER, THOMAS WALTER               | 2,885,178 | TABARD-COSSA, VINCENT              | 2,872,602 | THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM | 2,832,443 |
| STEINMAN, DONALD K.                  | 2,886,416 | TABB, MICHELLE M.                  | 2,840,964 | THE BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM   | 2,663,547 |
| STELTER, PATRICIA J.                 | 2,898,087 | TAJIMA, TOSHIO                     | 2,944,769 | THE BOEING COMPANY                                     | 2,783,416 |
| STEM CULTIVATION, INC.               | 2,987,192 | TAKAGI, MASARU                     | 2,992,048 |                                                        |           |
| STEMP, MICHAEL C.                    | 2,589,979 | TAKAGI, MASARU                     | 2,992,058 |                                                        |           |
| STEPHENSON, MATTHEW ROGER            | 2,785,582 | TAKAHAGI, MICHINOBU                | 2,974,790 |                                                        |           |
| STEPHENSON, MATTHEW ROGER            | 2,852,636 | TAKAHAGI, MICHINOBU                | 3,013,175 |                                                        |           |
| STEPHENSON, STANLEY V.               | 3,019,319 | TAKAHASHI, ATSUSHI                 | 2,895,591 |                                                        |           |
| STETTNER, HANSRUEDI                  | 2,997,306 | TAKAYAMA, NAOYA                    | 2,774,193 |                                                        |           |
| STEVENS, J. STEDMAN                  | 2,977,952 | TAKEDA AS                          | 2,871,697 |                                                        |           |
| STEVENS, REX W.                      | 3,021,495 | TAKESHITA, JUNICHI                 | 2,974,790 |                                                        |           |
| STEWART, STANTON HILL                | 2,799,182 | TAKIZAWA, SHUICHI                  | 2,923,375 |                                                        |           |
| STEWART, CRAIG ROBERT                | 2,875,589 | TALBOT, FRANCOIS R.                | 2,974,643 |                                                        |           |
| STEWART, ROBERT                      | 3,054,504 | TALLENT, MARK                      | 2,847,404 |                                                        |           |
| STIEN, BRIAN                         | 2,934,280 | TAM, HUGO                          | 2,876,684 |                                                        |           |
|                                      |           | TAM, THOMAS YIU-TAI                | 2,847,404 |                                                        |           |
|                                      |           | TAMASAUSKAITE                      |           |                                                        |           |
|                                      |           | TAMASIUNAITE, LORETA               | 2,875,323 |                                                        |           |

## Index of Canadian Patents Issued August 25, 2020

|                                                                                   |           |                                       |           |                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|---------------------------------------|-----------|-------------------------------------------------------------------|-----------|
| THE BOEING COMPANY                                                                | 2,896,111 | TIONESTA, LLC                         | 3,043,928 | UNITED PARCEL SERVICE OF AMERICA, INC.                            | 2,967,064 |
| THE BOEING COMPANY                                                                | 2,906,500 | TISCHER, HEIKO                        | 3,026,959 | UNITED PARCEL SERVICE OF AMERICA, INC.                            | 2,978,895 |
| THE BOEING COMPANY                                                                | 2,911,666 | TISCI, DANTE A.                       | 2,911,695 | UNITED WATERS                                                     | 2,764,357 |
| THE BOEING COMPANY                                                                | 2,922,992 | TIWARI, NEIL                          | 2,873,621 | INTERNATIONAL AG                                                  | 2,883,998 |
| THE BOEING COMPANY                                                                | 2,955,831 | TIZZOTTI, MORGAN                      | 2,847,680 | UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS                 | 2,883,998 |
| THE BRIGHAM AND WOMEN'S HOSPITAL, INC.                                            | 2,740,155 | TJART, RICHARD                        | 2,995,879 | UNIVERSITY HEALTH NETWORK                                         | 2,849,538 |
| THE DRAIN COMPANY, LLC                                                            | 2,952,977 | TLHM CO., LTD.                        | 2,983,326 | UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INC.                   | 2,859,406 |
| THE DRAIN COMPANY, LLC                                                            | 2,997,150 | TOETSCHINGER, MARK                    | 2,859,172 | UNIVERSITY OF GUELPH                                              | 2,830,305 |
| THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO                                | 2,971,893 | TOKUTOMI, HIROSHI                     | 2,987,004 | UNIVERSITY OF GUELPH                                              | 2,945,688 |
| THE HENRY M. JACKSON FOUNDATION FOR THE ADVANCEMENT OF MILITARY MEDICINE, INC.    | 2,719,172 | TOMA, TADAMASA                        | 3,069,579 | UNIVERSITY OF IOWA RESEARCH FOUNDATION                            | 2,827,380 |
| THE PROCTER & GAMBLE COMPANY                                                      | 2,975,118 | TOMPKINS, CRAIG J.                    | 3,042,072 | UNIVERSITY OF SASKATCHEWAN                                        | 2,821,348 |
| THE PROCTER & GAMBLE COMPANY                                                      | 3,008,246 | TONGUE LAB EUROPE                     | 2,831,168 | UNIVERSITY OF SASKATCHEWAN                                        | 2,849,588 |
| THE QUAKER OATS COMPANY                                                           | 2,919,641 | TONTI, ELENA                          | 2,740,155 | UNIVERSITY OF UTAH RESEARCH FOUNDATION                            | 2,873,991 |
| THE REGENTS OF THE UNIVERSITY OF MICHIGAN                                         | 2,983,313 | TOOGOOD, PETER                        | 2,871,514 | UNIVERSITY OF WASHINGTON THROUGH ITS CENTER FOR COMMERCIALIZATION | 2,783,416 |
| THE TEXAS A&M UNIVERSITY SYSTEM                                                   | 2,663,547 | TOPOR, ZBIGNIEW LUDWIK                | 2,876,684 | UPM-KYMMENE CORPORATION                                           | 2,866,469 |
| THE TRUSTEES OF BOSTON UNIVERSITY                                                 | 2,528,572 | TOPP, KLAUS-DIETER                    | 2,859,390 | URABE, MOTOHIKO                                                   | 3,007,073 |
| THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS | 2,880,536 | TOPPINEN, SAMI                        | 2,837,418 | URAZONO, HIROSHI                                                  | 2,879,992 |
| THE UNIVERSITY OF OTTAWA                                                          | 2,872,602 | TORAY INDUSTRIES, INC.                | 2,987,236 | UROMEMS                                                           | 2,947,782 |
| THE UNIVERSITY OF TOKYO                                                           | 2,774,193 | TORGRIP, RALF                         | 2,872,970 | USELTON, ROBERT B.                                                | 2,878,272 |
| THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH                           | 2,913,189 | TOTAL RAFFINAGE CHIMIE                | 2,888,432 | UTSUNOMIYA, MASARU                                                | 2,874,084 |
| THEAKER, GILES                                                                    | 2,820,533 | TOUNDAS, PANAYIOTIS                   | 2,869,059 | VACHON, LEANDRE                                                   | 2,848,568 |
| THERMACO, INC.                                                                    | 2,892,674 | TOWHAUL CORPORATION                   | 3,010,851 | VAISH, TUSHAR                                                     | 2,864,743 |
| THOMAS, WILLIAM                                                                   | 2,871,514 | TOYOTA JIDOSHA                        | 2,992,048 | VAKKALANKA, SWAROOP K. V. S.                                      | 2,798,080 |
| THOMAS, WILLIAM ANDERSON                                                          | 2,977,682 | TOYOTA JIDOSHA                        | 2,992,058 | VALDEZ, BENIGNO C.                                                | 2,834,262 |
| THOMPSON, DOUG                                                                    | 2,890,910 | TOYOTA JIDOSHA                        | 3,008,299 | VALENCIA VALENCIA, SUSANA                                         | 2,947,052 |
| THOMPSON, ERIC                                                                    | 2,917,700 | KABUSHIKI KAISHA                      | 3,008,299 | VALENCIA, JAIME A.                                                | 3,024,545 |
| THOMPSON, JAMES RICHARD                                                           | 2,960,846 | KABUSHIKI KAISHA                      | 2,928,783 | VALINGE INNOVATION AB                                             | 2,832,040 |
| THOMPSON, KENT L.                                                                 | 3,013,837 | KABUSHIKI KAISHA                      | 2,928,783 | VALLOTTON, PAUL-HENRI                                             | 2,892,981 |
| THOREY, IRMGARD                                                                   | 3,008,822 | KABUSHIKI KAISHA                      | 2,992,058 | VALLY, CHRISTIAN                                                  | 2,894,210 |
| THORSEN, MITCHEL                                                                  | 3,024,275 | TRAINFO CORP.                         | 2,928,783 | VAN DE VOORT VAN DE KLEY, ANTONIUS                                | 2,915,284 |
| THURSBY, JONATHAN                                                                 | 2,821,100 | TRAN, MY-LINH                         | 2,996,377 | THEODORUS MARIA                                                   | 2,859,614 |
| THURSTON, DAVID                                                                   | 2,871,172 | TRAYLOR, PETER D.                     | 3,010,824 | VAN DER ENT, CORNELIS KORSTIAAN                                   | 2,859,614 |
| THWAITES, DANNY F.                                                                | 2,823,609 | TREJO, JOSE ANTONIO                   | 2,875,007 | VAN DER MERWE, SHAWN                                              | 2,848,254 |
| THYNI, TOMAS                                                                      | 2,940,731 | TRELFOURD, LESTER PAUL                | 2,955,614 | VAN DER MERFF, HARM                                               | 2,857,467 |
| TIAN, JIE                                                                         | 3,060,024 | TRIAGENICS, INC.                      | 2,939,815 | VAN ELSSEN, KATRIEN ANDREA LIEVEN                                 | 3,008,246 |
| TIBBS, ANDY                                                                       | 2,967,064 | TRIAGENICS, INC.                      | 2,939,821 | VAN ESSEN, JESSE                                                  | 2,992,360 |
| TIKOTZENSKI, LEOR                                                                 | 2,757,704 | TROTIER-FAURION, ALEXANDRA            | 2,879,583 | VAN HUIS, CHAD                                                    | 2,871,514 |
| TILTON, FREDERICK T.                                                              | 2,937,732 | TRUONG, ANH                           | 3,064,122 | VAN LANDINGHAM, JR., ALFRED RENEAU                                | 2,984,500 |
| TIM, ROGER CHAN                                                                   | 2,785,020 | TRUXEDO, INC.                         | 3,004,864 | VANDENBUSSCHE, ALAIN                                              | 2,850,214 |
| TIMEDRIGHT INC.                                                                   | 2,807,603 | TSABARI, SHAHAR                       | 2,791,733 | VARLEY, MICHAEL                                                   | 2,876,629 |
| TIMKEN, HYE KYUNG CHO                                                             | 2,878,323 | TSAN, ALISON                          | 2,923,706 | VARRIN, ROBERT D.                                                 | 2,879,912 |
|                                                                                   |           | TSEHORI, JONATHAN                     | 2,981,561 |                                                                   |           |
|                                                                                   |           | TSOTSIS, THOMAS K.                    | 2,955,831 |                                                                   |           |
|                                                                                   |           | TUCKER, MEGHAN ANN                    | 2,841,900 |                                                                   |           |
|                                                                                   |           | TUFILLI, NICOLA                       | 2,857,302 |                                                                   |           |
|                                                                                   |           | TURBOMECA                             | 2,891,760 |                                                                   |           |
|                                                                                   |           | TURBOMECA                             | 2,894,210 |                                                                   |           |
|                                                                                   |           | TURETZKY, DARREN                      | 2,948,356 |                                                                   |           |
|                                                                                   |           | TURNBULL, PHILIP STEWART              | 2,879,104 |                                                                   |           |
|                                                                                   |           | TURNER, JUDY L.                       | 2,978,658 |                                                                   |           |
|                                                                                   |           | TYRIE, GRAHAM                         | 2,857,424 |                                                                   |           |
|                                                                                   |           | UEDA, IKUO                            | 2,811,652 |                                                                   |           |
|                                                                                   |           | UENO, HIROSHI                         | 2,879,992 |                                                                   |           |
|                                                                                   |           | UGRIC, DANIEL                         | 2,957,757 |                                                                   |           |
|                                                                                   |           | ULTRA PREMIUM OILFIELD SERVICES, LTD. | 2,892,670 |                                                                   |           |
|                                                                                   |           | UMC UTRECHT HOLDING B.V.              | 2,859,614 |                                                                   |           |
|                                                                                   |           | UMETSU, KOJI                          | 2,923,375 |                                                                   |           |
|                                                                                   |           | UMETSU, KOJI                          | 2,944,769 |                                                                   |           |
|                                                                                   |           | UNGER, EVAN                           | 2,829,017 |                                                                   |           |
|                                                                                   |           | UNGERANK, MARKUS                      | 2,891,492 |                                                                   |           |
|                                                                                   |           | UNITEC S.P.A.                         | 2,914,143 |                                                                   |           |

**Index des brevets canadiens délivrés  
25 août 2020**

|                         |           |                        |           |                         |           |
|-------------------------|-----------|------------------------|-----------|-------------------------|-----------|
| VEENSTRA, MARLOES       | 2,776,461 | WALSH, RICHARD M., III | 3,003,146 | WEST, MICHAEL D.        | 2,814,860 |
| VELOS MEDIA             |           | WALTERS, AUSTIN        | 3,064,122 | WESTINGHOUSE AIR BRAKE  |           |
| INTERNATIONAL           |           | WALTERS, HAROLD G.     | 3,019,319 | TECHNOLOGIES            |           |
| LIMITED                 | 2,806,796 | WALTERS, JEFF D.       | 2,559,137 | CORPORATION             | 2,947,305 |
| VENTANA MEDICAL         |           | WALTON, FREDDIE GEORGE | 2,831,924 | WHELAN, DARREN JOHN     | 2,869,237 |
| SYSTEMS, INC.           | 2,914,475 | WAN, JIA               | 2,993,873 | WHITE, BOBBY LYN        | 2,977,682 |
| VENUS MEDTECH           |           | WANG, DESHENG          | 2,803,313 | WHITE, CATHERINE        | 2,871,514 |
| (HANGZHOU), INC.        | 2,788,172 | WANG, ERIC             | 2,807,572 | WHITE, JAMES MICHAEL    | 2,977,682 |
| VERIFI LLC              | 2,887,601 | WANG, HAIBO            | 3,015,984 | WHITELY, JEFFREY THOMAS | 2,838,148 |
| VERMEER MANUFACTURING   |           | WANG, JIANLIN          | 3,036,414 | WICHMANN, JUERGEN       | 2,878,435 |
| COMPANY                 | 3,013,837 | WANG, KUAN YU          | 2,988,344 | WICKLUND, RACHEL        | 2,978,658 |
| VERNUCCI, PAUL          | 2,817,106 | WANG, LIN              | 3,015,984 | WICKSTROM, CARL         | 2,917,700 |
| VERRALL, RONALD E.      | 2,821,348 | WANG, NANNAN           | 3,060,024 | WIEBENSON, DEREK        | 2,873,621 |
| VESHLER, MISHEL         | 2,876,104 | WANG, RAN              | 2,983,308 | WIESLANDER, ANDERS      | 2,893,478 |
| VESTAS WIND SYSTEMS A/S | 2,859,625 | WANG, XIAODONG         | 2,799,972 | WIJK, TORGEIR           | 2,882,494 |
| VESTAS WIND SYSTEMS A/S | 3,017,775 | WANG, XIAOLUN          | 2,987,179 | WIKNER, JAKOB           | 2,878,933 |
| VESTAS WIND SYSTEMS A/S | 3,018,102 | WANG, YAZHOU           | 2,998,806 | WILKE, ANDREW P.        | 2,996,340 |
| VESTERGAARD COMPANY     |           | WANG, YINGCAI          | 2,799,972 | WILKERSON, DOUGLAS L.   | 2,873,621 |
| A/S                     | 2,965,087 | WANG, YU               | 2,947,052 | WILLIAMS, DAVID GARETH  | 2,839,812 |
| VESTERGAARD, STEFAN     | 2,965,087 | WANG, ZHONG            | 2,993,891 | WILLIAMS, JAY J.        | 2,903,452 |
| VETTER, DIRK            | 2,843,504 | WARD, DAVID            | 2,894,851 | WILLIAMS, MICHAEL       | 2,811,330 |
| VIALET, STEPHANIE       | 2,873,522 | WARD, JASON            | 2,795,942 | WILLIAMS, MICHAEL RYAN  | 2,799,182 |
| VIALLET, SANDRINE       |           | WARD, JEFFERSON P.     | 2,961,941 | WILLIAMSON, CHRISTOPHER |           |
| ANNETTE HENRIETTE       | 2,975,118 | WARD, LOREN            | 2,898,281 | A.                      | 3,033,341 |
| VICTAULIC COMPANY       | 2,911,513 | WARREN, WESLEY JOHN    | 3,030,547 | WILM, PATRICK           | 3,004,781 |
| VIEIRA, ERIC            | 2,871,389 | WARRENDER, GARRY       | 2,922,845 | WILSON, BUDDY A.        | 3,023,235 |
| VILEN, PER              | 2,884,417 | WARSTONE INNOVATIONS,  |           | WILSON, JOHN            | 2,947,863 |
| VILLEMOS, LARS          | 3,009,237 | LLC                    | 3,013,041 | WILSON, MARK            | 2,866,870 |
| VINEL, DANIEL-JEAN      | 2,819,921 | WASHIO, TAKUYA         | 3,021,167 | WILSON, SCOTT           | 2,872,509 |
| VINSON, THOMAS JOHN     | 2,858,201 | WATANABE, FUMIAKI      | 3,016,682 | WILSON, SHANE MATTHEW   | 2,981,809 |
| VIRTANEN, MIKKO         | 2,889,747 | WATANABE, GWENDOLYN    | 2,827,641 | WINNEN, SINA            | 2,983,892 |
| VISHWAKARMA, RAM        | 2,960,455 | WATANABE, KOHKI        | 2,923,375 | WINSLOW, JOHN WILLIAM   | 2,835,284 |
| VISION RT LIMITED       | 2,967,536 | WATANABE, MAKIKO       | 2,868,136 | WINTER, SHAWN SHLOMO    | 2,878,323 |
| VISSCHER, PETER D.      | 2,988,837 | WATANABE, MITSUHARU    | 2,890,382 | WISE, MATTHEW EDWIN     | 2,934,451 |
| VISUAL PHYSICS, LLC     | 2,845,610 | WATERSON, CARL         | 2,820,533 | WISEMAN, ROBERT WESLEY  | 3,017,158 |
| VISWANADHA, SRIKANT     | 2,798,080 | WATSON, MARK           | 3,064,122 | WISEMAN, SAM MICHAEL    | 2,753,916 |
| VISWANATH, VEENA        | 2,855,390 | WEAST, AARON B.        | 2,862,214 | WITCHELL, DAVID J.      | 2,917,700 |
| VITAL VIO, INC.         | 2,993,825 | WEATHERFORD            |           | WITWER, CARL T.         | 2,873,991 |
| VIVET, THIERRY          | 2,866,870 | TECHNOLOGY             |           | WM. WRIGLEY JR. COMPANY | 2,992,732 |
| VON ANDRIAN, ULRICH     | 2,740,155 | HOLDINGS, LLC          | 2,894,851 | WOBBEN PROPERTIES GMBH  | 3,034,141 |
| VON MATT, ANETTE        | 2,857,302 | WEATHERFORD            |           | WOERMAN, MARK           | 3,015,813 |
| VON RETTBERG, MARC      | 2,883,693 | TECHNOLOGY             |           | WOLF STEEL LTD.         | 2,995,879 |
| VON SCHUCKMANN, ALFRED  | 2,867,978 | HOLDINGS, LLC          | 2,929,912 | WOLF, LESLIE R.         | 2,842,565 |
| VONDERWELL, MARK P.     | 3,033,341 | WEATHERFORD            |           | WOLF, ROMAIN            | 2,857,302 |
| VOSS, PETER             | 2,859,172 | TECHNOLOGY             |           | WOLFSON, ROGER DANIEL   | 2,799,182 |
| VU SYSTEMS, LLC         | 2,977,952 | HOLDINGS, LLC          | 2,937,732 | WON, BETTY              | 2,997,306 |
| VU, THONG               | 2,855,390 | WEBER-STEPHEN PRODUCTS |           | WON, JU-HYUN            | 2,924,451 |
| VUIJK, REMCO DOUWINUS   | 3,011,291 | LLC                    | 2,987,452 | WON, JU-HYUN            | 2,924,456 |
| VULIGONDA, VIDYASAGAR   | 2,855,390 | WEDIN, BRYAN S.        | 2,898,087 | WONG, CHENG CHUEN       |           |
| W.L. GORE & ASSOCIATES, |           | WEE, JANICE            | 2,825,691 | BENEDICT                | 3,000,420 |
| INC.                    | 2,956,402 | WEE, KAI FOOK FRANCIS  | 2,918,257 | WONG, CURT              | 2,943,441 |
| W.L. GORE & ASSOCIATES, |           | WEERATNA, RISINI       |           | WONG, VOON HON          | 2,859,625 |
| INC.                    | 3,008,682 | DHAMMIKA               | 2,960,846 | WOOD, JEANETTE MARJORIE | 2,994,779 |
| W.L. GORE & ASSOCIATES, |           | WEERTS, JOHAN ERWIN    |           | WOOD, JOHN              | 2,803,713 |
| INC.                    | 3,010,824 | EDMOND                 | 2,796,204 | WOOD, JUSTIN CHARLES    | 2,942,634 |
| WABASH NATIONAL, L.P.   | 2,809,530 | WEHNER, SCOTT D.       | 2,828,660 | WOODHEAD, STEVEN JOHN   | 2,796,204 |
| WACHOWICZ, KEITH        | 2,827,636 | WEIDLER, JODI          | 2,835,284 | WORLD PAC               |           |
| WADA, DAISUKE           | 3,021,167 | WEISER, MICHAEL        | 2,847,364 | INTERNATIONAL AG        | 2,809,952 |
| WADA, JIRO              | 2,974,790 | WEISS, MARKUS          | 2,852,268 | WRIGHT, PETER           | 2,820,533 |
| WAGENINGEN UNIVERSITEIT | 2,767,957 | WEISSENBERGER, UWE     | 3,019,147 | WRIGHT, THOMAS W.       | 2,907,537 |
| WALDER, ANTHONY J.      | 2,899,226 | WELIN, ANNIKKI         | 2,940,731 | WROBLOWSKI, BERTHOLD    | 2,796,204 |
| WALKE, NAVNATH BAJIRAO  | 2,864,332 | WELLINGS, ANDERS J.    | 2,873,621 | WU, BINGHUA             | 2,998,806 |
| WALLET, GERALD          | 2,842,658 | WEN, LI                | 2,859,172 | WYNN, BRADLEY S.        | 2,922,992 |
| WALLWEBER, GERALD J.    | 2,835,284 | WESSOL, LLC            | 3,018,458 | XENCOR, INC.            | 2,958,185 |

## Index of Canadian Patents Issued August 25, 2020

|                                |           |                      |           |
|--------------------------------|-----------|----------------------|-----------|
| XERIS PHARMACEUTICALS,<br>INC. | 2,853,942 | ZHANG, FEINA         | 2,950,450 |
| XEROX CORPORATION              | 2,926,275 | ZHANG, HAOMING       | 2,983,313 |
| XIANG, JASON SHAOYUN           | 2,987,179 | ZHANG, JUN Q.        | 2,868,797 |
| XIAO, LIQING                   | 2,983,308 | ZHANG, SHUCHENG      | 2,960,846 |
| XIN, CHAO                      | 2,998,806 | ZHANG, YI            | 2,993,051 |
| XING, LI HUANG                 | 2,987,179 | ZHANG, YI            | 2,993,583 |
| XOLUTION GMBH                  | 2,883,693 | ZHANG, YINGHAO       | 2,993,873 |
| XU, BAOZHOU                    | 3,004,576 | ZHANG, ZHIHAO        | 2,993,873 |
| XU, JIAN                       | 3,036,482 | ZHAO, FUNIAN         | 2,963,910 |
| XU, JINGYU                     | 2,862,907 | ZHAO, ROBERT YONGXIN | 2,921,982 |
| XU, JUNCHENG                   | 2,998,809 | ZHAO, XINHUA         | 2,825,691 |
| XU, LIANG                      | 2,963,910 | ZHENG, GANG          | 2,849,538 |
| YACU, WALEED                   | 2,919,641 | ZHENG, ZHIFU         | 2,862,907 |
| YAGI, KAORI                    | 2,878,431 | ZHONG, XIAOYAN       | 2,868,813 |
| YALE UNIVERSITY                | 2,828,878 | ZHOU, BIAO           | 2,885,735 |
| YAMAGISHI, TATSUYA             | 2,887,887 | ZHOU, CHAOYIN        | 2,896,111 |
| YAMAMOTO, KEN                  | 2,895,591 | ZHOU, XIN            | 2,998,806 |
| YAMAUCHI, TOKIKO               | 2,975,369 | ZHU, JIANG           | 2,799,972 |
| YAN, ELLIS                     | 2,908,317 | ZHU, XU              | 2,998,806 |
| YAN, PENG                      | 2,997,306 | ZHU, YUN-PENG        | 2,874,502 |
| YAN, XUELEI                    | 2,799,972 | ZIMINSKI, PETER      | 2,795,942 |
| YANCEY, ROBERT JOHN, JR.       | 2,960,846 | ZIMMER, INC.         | 2,871,950 |
| YANG, CHUNHUA                  | 2,857,958 | ZIMMERMANN, BERNHARD | 2,877,493 |
| YANG, DAYI                     | 3,041,463 | ZIOLEK, LESZEK       | 2,987,192 |
| YANG, FAN                      | 3,015,984 | ZIPWHIP, INC.        | 3,031,486 |
| YANG, JUNG IL                  | 2,983,738 | ZOETIS SERVICES LLC  | 2,960,846 |
| YANG, MI SUK                   | 2,877,442 | ZOLLI, VINCE         | 2,842,658 |
| YANG, XIAOHUA                  | 3,015,984 | ZOU, JITAO           | 2,862,907 |
| YANG, ZHITAO                   | 2,989,360 | ZOU, PENG            | 2,878,354 |
| YAO, LI                        | 2,858,074 | ZST HOLDINGS, INC.   | 2,876,684 |
| YASUNAGA, NOZOMU               | 2,975,369 | ZURAWSKI, GERARD     | 2,754,743 |
| YEAN, SUJIN                    | 2,872,792 | ZYMEWORKS INC.       | 2,781,650 |
| YEAN, SUJIN                    | 2,872,793 | [24]7.AI, INC.       | 2,976,365 |
| YI, PEIXIONG                   | 2,918,484 | [24]7.AI, INC.       | 3,004,344 |
| YIN, FEI                       | 2,769,380 |                      |           |
| YIN, XIAOCHUN                  | 2,989,360 |                      |           |
| YIN, ZHANPING                  | 2,966,588 |                      |           |
| YOGIBO LLC                     | 2,931,628 |                      |           |
| YOKOYAMA, NOBUAKI              | 2,986,550 |                      |           |
| YONEMURA, IKKI                 | 3,013,564 |                      |           |
| YOO, SE JIN                    | 2,877,442 |                      |           |
| YORK, STACEY E.                | 2,798,999 |                      |           |
| YOSHIDA, TATSURO               | 2,817,106 |                      |           |
| YOSHIMURA, AKIRA               | 2,972,351 |                      |           |
| YOSHIOKA, HIDENORI             | 3,009,485 |                      |           |
| YOUNG, JOHN ARMSTRONG          | 2,847,404 |                      |           |
| YOUNG, JOSEPH D.               | 2,875,487 |                      |           |
| YOUNG, LYMAN ARNOLD            | 2,872,792 |                      |           |
| YOUNG, LYMAN ARNOLD            | 2,872,793 |                      |           |
| YOURHERE INC.                  | 3,017,055 |                      |           |
| YU, MING                       | 2,799,972 |                      |           |
| YU, TAE HYON                   | 3,026,374 |                      |           |
| YU, YIRONG                     | 3,058,236 |                      |           |
| ZACH, DAVID ALLEN              | 2,959,933 |                      |           |
| ZAFEIROPOULOS,<br>GRIGORIOS    | 2,920,751 |                      |           |
| ZAHASKY, ANDREW JAMES          | 2,967,228 |                      |           |
| ZAPLATILEK, NERMINA            | 2,959,214 |                      |           |
| ZECRI, FREDERIC                | 2,857,302 |                      |           |
| ZEITLIN, ANDY                  | 2,734,236 |                      |           |
| ZERKOWSKI, HANS-<br>REINHARD   | 2,852,172 |                      |           |
| ZHAN, KETUAN                   | 2,993,873 |                      |           |

# Index of Canadian Applications Open to Public Inspection

August 9, 2020 to August 15, 2020

## Index des demandes canadiennes mises à la disponibilité du public

9 août 2020 au 15 août 2020

|                         |           |                           |           |                          |           |
|-------------------------|-----------|---------------------------|-----------|--------------------------|-----------|
| ABBASI, VIQAR           | 3,033,612 | BROAN-NUTONE LLC          | 3,071,516 | DICK, BRIAN W.           | 3,072,509 |
| ACKLES, GARY            | 3,072,511 | BROWN, ERIC               | 3,066,817 | DICK, BRIAN W.           | 3,072,513 |
| ALAVI-HARATI, ASHKAN    | 3,033,664 | BULARD, PHILIPPE          | 3,072,238 | DINAN, ESMAEL            | 3,071,984 |
| ALAVI-HARATI, ASHKAN    | 3,033,682 | BURKE, RICHARD L.         | 3,054,912 | DINAN, ESMAEL            | 3,072,491 |
| ALAVI-HARATI, ASHKAN    | 3,033,704 | CAILLAUD, PAULINE         | 3,071,510 | DING, JIAN               | 3,072,637 |
| ALAVI-HARATI, ASHKAN    | 3,038,430 | CANADIAN SPACE AGENCY     | 3,033,612 | DINGMAN, TRENT J.        | 3,071,912 |
| ALKILDE, OLE FREJ       | 3,072,150 | CANADIAN TIRE             |           | DININO, MATTHEW A.       | 3,066,817 |
| ALSAYAR, MAX            | 3,033,404 | CORPORATION, LIMITED      | 3,072,433 | DODDS, CHRISTOPHER M.    | 3,033,415 |
| ALSTOM TRANSPORT        |           | CANOPY GROWTH             |           | DOUGLAS DYNAMICS, L.L.C. | 3,067,997 |
| TECHNOLOGIES            | 3,072,248 | CORPORATION               | 3,072,554 | DOWN-LITE                |           |
| ANAND, ROHAN            | 3,033,664 | CARREL, CATHLEEN RUTH     | 3,033,664 | INTERNATIONAL, INC.      | 3,072,089 |
| ANAND, ROHAN            | 3,033,682 | CARREL, CATHLEEN RUTH     | 3,033,682 | DOWN-LITE                |           |
| ANAND, ROHAN            | 3,033,704 | CARREL, CATHLEEN RUTH     | 3,033,704 | INTERNATIONAL, INC.      | 3,072,090 |
| ANAND, ROHAN            | 3,038,430 | CARREL, CATHLEEN RUTH     | 3,038,430 | DOYON, FRANCOIS          | 3,068,138 |
| ANDERSON, KAARE JOSEF   | 3,062,440 | CHAHAL, JASRAJ            | 3,068,718 | DOYON, MICHEL            | 3,033,612 |
| APPLIED ENERGY LLC      | 3,035,199 | CHAPMAN, SETH H.          | 3,071,912 | DRAKE ASSOCIATES INC.    | 3,071,914 |
| ARAGON, EDWIN R.        | 3,033,774 | CHAREST, ALEXANDRE        | 3,068,718 | DRAKE, CHRISTOPHER       | 3,071,914 |
| ARCTIC CAT INC.         | 3,072,509 | CHARENTE, MARTIN          | 3,033,769 | DROUIN, ALEXANDRE        | 3,081,043 |
| ARCTIC CAT INC.         | 3,072,513 | CHEATHAM, RICHARD         | 3,072,669 | DUCI, STEFANO            | 3,072,678 |
| ARIMATSU, TATSUYA       | 3,072,256 | CIRCSAW LLC               | 3,044,186 | DYBA, CHRISTY ANN        | 3,033,664 |
| ARNOLD, DAVID C.        | 3,072,225 | CIRIK, ALI                | 3,071,984 | DYBA, CHRISTY ANN        | 3,033,682 |
| ARRIVAL OIL TOOLS, INC. | 3,073,434 | CIRIK, ALI                | 3,072,491 | DYBA, CHRISTY ANN        | 3,033,704 |
| ASH, SIMON CHRISTOPHER  | 3,071,733 | CLAIRSON, INC.            | 3,072,730 | DYBA, CHRISTY ANN        | 3,038,430 |
| BABAEI, ALIREZA         | 3,071,984 | CLAIRSON, INC.            | 3,072,775 | EBERSOLE, GARRETT P.     | 3,066,817 |
| BABAEI, ALIREZA         | 3,072,491 | CLAY, JOHN KEVIN          | 3,072,254 | ELEMENT AI INC.          | 3,081,043 |
| BACON, EMMA             | 3,072,254 | CLIFTON, CODY D.          | 3,072,699 | EXACTA-FRAC ENERGY       |           |
| BAILEY, PAUL ROBERT     | 3,067,675 | CLIFTON, CODY D.          | 3,072,705 | SERVICES, INC.           | 3,064,212 |
| BAILLIE, BRENT MARC     | 3,072,433 | COMCAST CABLE             |           | FARAG, HANY              | 3,033,604 |
| BANK OF MONTREAL        | 3,072,637 | COMMUNICATIONS, LLC       | 3,071,984 | FAZIO, VINCENT           | 3,033,649 |
| BARIL, JACOB C.         | 3,066,817 | COMCAST CABLE             |           | FELDKAMP, JONATHAN R.    | 3,071,912 |
| BARNETT, JONATHAN K.    | 3,033,664 | COMMUNICATIONS, LLC       | 3,072,491 | FENG, MICHAEL            | 3,071,912 |
| BARNETT, JONATHAN K.    | 3,033,682 | COMEAU, LAURIER E.        | 3,073,434 | FENG, XINLIANG           | 3,072,142 |
| BARNETT, JONATHAN K.    | 3,033,704 | CONSTANTINE HOMES INC.    | 3,033,775 | FER-PAL CONSTRUCTION     |           |
| BARNETT, JONATHAN K.    | 3,038,430 | CONSUMER LIGHTING (U.S.), |           | LTD.                     | 3,033,915 |
| BARRETT, ROBERT N.      | 3,034,028 | LLC                       | 3,068,496 | FIN GROUP S.R.L.         | 3,072,678 |
| BECKER, ARNE TJARK      | 3,070,119 | CORSETTO, JOHN J.         | 3,072,669 | FISCHER, JOHN            | 3,072,669 |
| BENAROUS, MAAMAR        | 3,065,016 | COVIDIEN LP               | 3,066,817 | FITER, IGNACIO CUGAT     | 3,072,254 |
| BENUM, LESLIE           | 3,033,604 | CROWTHER, MIKE            | 3,073,434 | FORTIN, FREDERIC         | 3,071,738 |
| BERGERON-FILLION, MAX   | 3,068,136 | CURLISS, DAN              | 3,072,437 | FORTIN, FREDERICK        | 3,068,349 |
| BERRY GLOBAL, INC.      | 3,072,225 | CURTIN, EDWARD R.         | 3,072,254 | FOSSETT, RYAN            | 3,067,997 |
| BERT, JEAN-CLAUDE       | 3,072,248 | D'SOUZA, ROY              | 3,033,664 | FRIESEN, HENRY           | 3,033,803 |
| BHADRA, RATNADEEP       | 3,033,649 | D'SOUZA, ROY              | 3,033,682 | FUNG, WONG YUE           | 3,072,433 |
| BILOZ, JOHN L.          | 3,072,211 | D'SOUZA, ROY              | 3,033,704 | G.E.M. INC.              | 3,033,606 |
| BISHOP, MARTIN          | 3,068,230 | D'SOUZA, ROY              | 3,038,430 | GAUCI, JASON             | 3,070,734 |
| BISHOP, RYAN BARCLAY    | 3,072,730 | DE LA FUENTE SANCHEZ,     |           | GIANCOLA, ANTONIO        | 3,071,936 |
| BISHOP, RYAN BARCLAY    | 3,072,775 | ALFONSO F.                | 3,071,629 | GIBBON, PATRICK          | 3,033,664 |
| BISSELL INC.            | 3,072,142 | DE LA FUENTE SANCHEZ,     |           | GIBBON, PATRICK          | 3,033,682 |
| BLAAUW, JACQUES         | 3,071,743 | ALFONSO F.                | 3,071,633 | GIBBON, PATRICK          | 3,033,704 |
| BLERIOT, QUENTIN        | 3,072,248 | DE SMIDT, MARC RYAN       | 3,071,743 | GIBBON, PATRICK          | 3,038,430 |
| BLOEMENDAAL, COLIN J.   | 3,072,142 | DEERE & COMPANY           | 3,072,152 | GIL, MARTIN              | 3,033,926 |
| BOA, STEVE              | 3,071,936 | DELAPORTE, NICOLAS        | 3,033,917 | GILHOOLEY, NEILL         | 3,071,733 |
| BOILS, DANIELLE         | 3,072,142 | DES ROCHEs-DIONNE,        |           | GOODRICH ACTUATION       |           |
| BOLTON, JOSEPH ANDREW   | 3,065,858 | NICOLAS                   | 3,069,356 | SYSTEMS LIMITED          | 3,065,016 |
| BROAN-NUTONE LLC        | 3,071,323 | DESJARDIN, KEVIN          | 3,066,817 | GOODRICH ACTUATION       |           |
| BROAN-NUTONE LLC        | 3,071,515 | DI GUIDA, ROBIN           | 3,071,936 | SYSTEMS SAS              | 3,061,995 |

**Index of Canadian Applications Open to Public Inspection  
August 9, 2020 to August 15, 2020**

|                                                |           |                                      |           |                                         |           |
|------------------------------------------------|-----------|--------------------------------------|-----------|-----------------------------------------|-----------|
| GOODRICH ACTUATION SYSTEMS SAS                 | 3,062,001 | KNUPFER, JAMES FRANCIS               | 3,072,385 | MCALPINE, CHRISTOPHER                   |           |
| GORALSKI, PATRICK ROBERT                       | 3,033,664 | KOGA, JEFFREY                        | 3,072,699 | ARTHUR HOLLAND                          | 3,038,430 |
| GORALSKI, PATRICK ROBERT                       | 3,033,682 | KOMATSUDA, SEIJI                     | 3,055,045 | MCALPINE, ETHAN CHRISTOPHER             | 3,033,664 |
| GORALSKI, PATRICK ROBERT                       | 3,033,704 | KONDRO, GRZEGORZ                     | 3,071,912 | MCALPINE, ETHAN CHRISTOPHER             | 3,033,682 |
| GORALSKI, PATRICK ROBERT                       | 3,038,430 | KOSARA, MARIAN                       | 3,033,926 | MCALPINE, ETHAN CHRISTOPHER             | 3,033,704 |
| GOUEL, SEBASTIEN                               | 3,072,238 | KOSELEK, MICHAEL                     | 3,033,604 | MCALPINE, ETHAN CHRISTOPHER             | 3,038,430 |
| GRADOV, NATASHA                                | 3,033,563 | KOSKINEN, KIMMO                      | 3,069,895 | MCCAY, JAMES E.                         | 3,072,254 |
| GUO, QING                                      | 3,068,231 | KOSSENIUK, VADIM                     | 3,033,915 | MCCRAE, JAMES KENNETH                   | 3,033,649 |
| HAFEZI, ALI                                    | 3,033,664 | KOYA, ABDUL HALEEM AHAMED            | 3,072,433 | MCGRATH, DARRAGH                        | 3,068,718 |
| HAFEZI, ALI                                    | 3,033,682 | KUBRICHT, DAVID                      | 3,072,669 | MCKAIGUE, KENDRICK SHAUN                | 3,033,915 |
| HAFEZI, ALI                                    | 3,033,704 | KUDJA, COLBY DOUGLAS                 | 3,072,730 | MCNEILL, DAVID                          | 3,069,214 |
| HAFEZI, ALI                                    | 3,038,430 | KUPHAL, JOHN                         | 3,072,700 | MEDINA, RAPHAEL                         | 3,061,995 |
| HAIBIN, WANG                                   | 3,072,254 | KUSHKI, AZADEH                       | 3,033,804 | MEDINA, RAPHAEL                         | 3,062,001 |
| HALDOR TOPSOE A/S                              | 3,072,150 | LAGE, JOAN LLABARIA                  | 3,072,254 | MEIGNAT, GREGORY                        | 3,061,995 |
| HENDERKOTT, JOSEPH PETER                       | 3,072,139 | LAMARCHE, DAMIEN                     | 3,072,248 | MEISINGER, MICHAEL                      | 3,068,231 |
| HEXO OPERATIONS INC.                           | 3,033,404 | LANGAAS, BENJAMIN TAYLOR             | 3,072,509 | MENAND, DENIS                           | 3,072,248 |
| HI-CRUSH CANADA INC.                           | 3,033,803 | LANGAAS, BENJAMIN TAYLOR             | 3,072,513 | MENDES, CHRISTOPHE                      | 3,072,238 |
| HIIETIKKO, TONI                                | 3,069,895 | LAPIERRE, NICOLETTE R.               | 3,066,817 | MERGENER, BRADLEY                       | 3,071,515 |
| HINTON, WILLIAM                                | 3,035,199 | LAW, SEAN M.                         | 3,071,931 | MERGENER, BRADLEY                       | 3,071,516 |
| HOFFMAN, STEPHEN                               | 3,072,211 | LAW, SEAN MING-YIN                   | 3,071,981 | MEUNIER, GABRIEL                        | 3,069,356 |
| HOHMANN, RONALD, JR.                           | 3,071,904 | LAW, WILLIAM STEWART JAMES           | 3,033,664 | MILES, ANTHONY WAYNE                    | 3,033,649 |
| HOLLAND BLOORVIEW KIDS REHABILITATION HOSPITAL | 3,033,804 | LAW, WILLIAM STEWART JAMES           | 3,033,682 | MILLER, JONATHAN                        | 3,068,349 |
| HORN, CHRISTOPHER AARON                        | 3,067,997 | LAW, WILLIAM STEWART JAMES           | 3,033,704 | MILLER, JONATHAN                        | 3,071,738 |
| HRUPP, JOZE J.                                 | 3,064,212 | LAW, WILLIAM STEWART JAMES           | 3,038,430 | MILTON, ARUN JOHN                       | 3,072,414 |
| HUHTAMAKI, INC.                                | 3,072,437 | LAWMAN, CHAD                         | 3,072,669 | MISELLF INC.                            | 3,072,385 |
| HUMFELD, KEITH DANIEL                          | 3,065,858 | LEFEBVRE, GUY                        | 3,068,138 | MITEK HOLDINGS, INC.                    | 3,071,904 |
| HUNTER DOUGLAS INC.                            | 3,069,214 | LEGHZAOUNI, OTHMANE                  | 3,068,136 | MIYAKOSHI PRINTING MACHINERY CO., LTD.  | 3,055,045 |
| HUYNH, CUONG THO                               | 3,062,440 | LEI, MING                            | 3,068,496 | MOTZ ENTERPRISES, INC.                  | 3,071,167 |
| HYDRO-QUEBEC                                   | 3,033,769 | LESLIE, AMY M.                       | 3,072,211 | MOTZ ENTERPRISES, INC.                  | 3,071,175 |
| HYDRO-QUEBEC                                   | 3,033,818 | LEVI, RUSSELL                        | 3,072,734 | MOTZ, MATTHEW J.                        | 3,071,175 |
| HYDRO-QUEBEC                                   | 3,033,917 | LI, FENG CHUN                        | 3,072,142 | MOTZ, MATTHEW JAMES                     | 3,071,167 |
| ICG LICENSING LLC                              | 3,072,734 | LI, YAKE                             | 3,072,396 | MURPHY, JOHN DAVID                      | 3,033,418 |
| INVIDX CORP.                                   | 3,081,050 | LIMING, MICHAEL                      | 3,072,437 | NABULSI, ADEL AL                        | 3,072,414 |
| ISHIDA CO., LTD.                               | 3,072,256 | LISIO, CARMINE                       | 3,068,718 | NAKAMURA, KENTA                         | 3,069,479 |
| IWANLUK, MATHIEU                               | 3,072,238 | LORAIN, REGINALD R.                  | 3,033,751 | NAKAMURA, YUICHI                        | 3,072,256 |
| IWASA, TATSUYA                                 | 3,072,256 | LUND MOTION PRODUCTS, INC.           | 3,070,734 | NAN YA PLASTICS CORPORATION             | 3,080,997 |
| IZAWA, HIDEO                                   | 3,055,045 | LUPI, GIUSEPPE                       | 3,072,678 | NATIONAL SERVICE ALLIANCE - HOUSTON LLC | 3,072,669 |
| JAGTIANI, DHEERAJ                              | 3,033,664 | LUSTIK, CARA                         | 3,072,254 | NAVICO HOLDING AS                       | 3,067,675 |
| JAGTIANI, DHEERAJ                              | 3,033,682 | MAGNA EXTERIORS INC.                 | 3,072,675 | NEILSON, GREGORY B.                     | 3,067,997 |
| JAGTIANI, DHEERAJ                              | 3,033,704 | MAILLOUX-LABROUSSE, MARC-ANTOINE     | 3,068,136 | NELSON, GUY C.                          | 3,072,145 |
| JAGTIANI, DHEERAJ                              | 3,038,430 | MAKINEN, TAPIO                       | 3,069,895 | NELSON, JOHN T.                         | 3,072,254 |
| JAMIL, PARAS                                   | 3,072,231 | MALHOTRA, VIKRAM                     | 3,033,649 | NELSON, JOSEPH D.                       | 3,072,700 |
| JANOT, FABRICE                                 | 3,071,510 | MANGOLD, CYNTHIA                     | 3,072,254 | NELSON, SCOTT                           | 3,072,139 |
| JARVO, JAMES                                   | 3,068,349 | MARKETING IMPACT LIMITED             | 3,033,926 | NISHITSUJI, SATOSHI                     | 3,072,256 |
| JARVO, JAMES                                   | 3,071,738 | MARTIN SACRISTAN, JUAN               | 3,072,414 | NOLEN, TYLER                            | 3,072,669 |
| JEON, HYOUNGSUK                                | 3,071,984 | MARTINEZ, KAIDEL                     | 3,073,434 | NORFOLK SOUTHERN CORPORATION            | 3,072,636 |
| JEON, HYOUNGSUK                                | 3,072,491 | MAZZOLENI, ANDREA                    | 3,072,678 | NOVA CHEMICALS CORPORATION              | 3,033,604 |
| JOHNSON, SCOT ARTHUR                           | 3,048,706 | MCALPINE, CHRISTOPHER ARTHUR HOLLAND | 3,033,664 | O'NAN, DAVID Y.                         | 3,072,225 |
| JPMORGAN CHASE BANK, N.A.                      | 3,072,211 | MCALPINE, CHRISTOPHER ARTHUR HOLLAND | 3,033,682 | ONO, KOJI                               | 3,072,256 |
| KAMPHUIS, HENRY                                | 3,033,606 | MCALPINE, CHRISTOPHER ARTHUR HOLLAND | 3,033,682 | ORTIZ, EDISON U.                        | 3,072,414 |
| KARGIANNAKIS, MELISSA                          | 3,072,231 | MCALPINE, CHRISTOPHER ARTHUR HOLLAND | 3,033,704 | OSHKOSH CORPORATION                     | 3,072,207 |
| KARGIANNAKIS, MELISSA                          | 3,072,453 |                                      |           | OSHKOSH CORPORATION                     | 3,072,699 |
| KELLANDER, JOHN T.                             | 3,072,705 |                                      |           | OSHKOSH CORPORATION                     | 3,072,700 |
| KING, RYAN                                     | 3,050,376 |                                      |           |                                         |           |
| KNIGHT, ERIC                                   | 3,044,186 |                                      |           |                                         |           |

**Index des demandes canadiennes mises à la disponibilité du public  
9 août 2020 au 15 août 2020**

|                                         |           |                                       |           |                                            |           |
|-----------------------------------------|-----------|---------------------------------------|-----------|--------------------------------------------|-----------|
| OSHKOSH CORPORATION                     | 3,072,705 | S&C ELECTRIC COMPANY                  | 3,068,230 | VALENTINI, ADRIANO                         | 3,071,936 |
| OTICO                                   | 3,072,234 | S&C ELECTRIC COMPANY                  | 3,068,231 | VALMONT INDUSTRIES, INC.                   | 3,072,145 |
| OVH                                     | 3,070,819 | SAFRAN AEROSYSTEMS                    | 3,072,238 | VAN DYK, ANTONY K.                         | 3,072,250 |
| PADVOISKIS, JULIA                       | 3,072,224 | SALEH, KAVEH                          | 3,033,818 | VASUDEVA, KAILASH C.                       | 3,033,686 |
| PADVOISKIS, JULIA                       | 3,072,230 | SAMSOONDAR, JAMES                     | 3,081,050 | VAWTER, MIKE                               | 3,072,636 |
| PARK KYUNGMIN                           | 3,072,491 | SAN JAMAR, INC.                       | 3,071,506 | VERNA, MARIA                               | 3,033,664 |
| PARK, KYUNGMIN                          | 3,071,984 | SANDVIK MINING AND<br>CONSTRUCTION OY | 3,069,895 | VERNA, MARIA                               | 3,033,682 |
| PARNES, BRIAN                           | 3,072,089 | SAUCY, DANIEL A.                      | 3,072,250 | VERNA, MARIA                               | 3,033,704 |
| PARNES, BRIAN                           | 3,072,090 | SCHWAB, MARK                          | 3,055,741 | VERNA, MARIA                               | 3,038,430 |
| PEREA, ALEXIS                           | 3,033,917 | SEAMATICA AEROSPACE<br>LTD.           | 3,072,396 | VINTILA, IUSTINA-MIRUNA                    | 3,072,414 |
| PHELY, OLIVIER                          | 3,072,234 | SHARON, YOAV                          | 3,068,231 | VOGLER, JAY                                | 3,033,926 |
| PILLETÈRE, ROY J.                       | 3,066,817 | SHEM, LLC                             | 3,071,743 | WALKER, WILLIAM                            | 3,033,401 |
| PINEAU, DANIEL                          | 3,033,769 | SIMANZHENKOV, VASILY                  | 3,033,604 | WAN, TIFFANY ASHLEY                        | 3,072,211 |
| PLONK, DANIEL W.                        | 3,072,636 | SIMILA, JUKKA                         | 3,069,895 | WANG, GUOSHUN                              | 3,072,142 |
| POLLACK, JEFFREY                        | 3,072,669 | SINGH, ESHANK                         | 3,071,323 | WANG, KUEI-YUNG                            | 3,080,997 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,068,136 | SINGH, RAGHVENDRA                     | 3,072,211 | WATERS, RICHARD H.                         | 3,034,028 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,068,138 | SINUR, RICK                           | 3,071,515 | WATERS, THOMAS J.                          | 3,034,028 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,068,349 | SINUR, RICK                           | 3,071,516 | WATTS, HUGH BOYD                           | 3,082,699 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,068,718 | SKRITSWAP INC.                        | 3,072,231 | WEATHERFORD<br>TECHNOLOGY<br>HOLDINGS, LLC | 3,070,119 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,068,356 | SKRITSWAP INC.                        | 3,072,453 | WEI, ZHENYI                                | 3,072,699 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,069,356 | SLAUNWHITE, SHANE                     | 3,033,418 | WHETZEL, JENNIFER                          | 3,072,254 |
| PRATT & WHITNEY CANADA<br>CORP.         | 3,071,738 | SMELTZER, STEVE N.                    | 3,061,797 | WILDGRUBE, GRANT                           | 3,072,699 |
| PRATTEN, A. WARREN                      | 3,033,649 | STALLO, SEAN ROBERT                   | 3,071,167 | WILDGRUBE, GRANT                           | 3,072,705 |
| PRINCINSKY, DANIEL                      | 3,035,199 | STANDARD TEXTILE CO.,<br>INC.         | 3,071,312 | WILLIAMS, STEPHEN                          | 3,068,230 |
| PRYOR, JAMES ZACHARY                    | 3,033,664 | STANGE, JULIE                         | 3,071,323 | WILLS, MATTHEW                             | 3,072,224 |
| PRYOR, JAMES ZACHARY                    | 3,033,682 | STEINER, GEORGE                       | 3,034,022 | WILLS, MATTHEW                             | 3,072,230 |
| PRYOR, JAMES ZACHARY                    | 3,033,704 | STEWART, MARLON H.                    | 3,033,775 | WOOD, KEVIN                                | 3,070,119 |
| PRYOR, JAMES ZACHARY                    | 3,038,430 | STEWART, RICHARD                      | 3,071,312 | WYPORSKI, WOJTEK                           | 3,072,554 |
| PULI, AKSHAY SAINAG<br>REDDY            | 3,033,804 | SYNNOTT, REMY                         | 3,068,138 | XIA, JINCHENG                              | 3,072,142 |
| RABASCO, JOHN J.                        | 3,072,250 | TAKAHASHI, ATSUSHI                    | 3,072,256 | XU, KAI                                    | 3,071,984 |
| RADIALL                                 | 3,071,510 | TAMURA, EIICHI                        | 3,055,045 | XU, KAI                                    | 3,072,491 |
| RADONCIC, SEJDO                         | 3,072,211 | TARAS, ANDRE                          | 3,033,818 | XU, RAYMOND RUIWEN                         | 3,072,139 |
| RAMDASS, RISHI                          | 3,072,433 | TATSUKAWA, SATOSHI                    | 3,072,256 | YAGIELA, PAUL                              | 3,067,997 |
| REDFERN, DARREN                         | 3,072,231 | TECHTRONIC CORDLESS GP                | 3,071,912 | YLI-HANNUKSELA, TERO                       | 3,069,895 |
| REDFERN, DARREN                         | 3,072,453 | TEIXEIRA, LEONEL                      | 3,071,743 | YOUNG, MICHAEL                             | 3,071,506 |
| REEVES WIRELINE<br>TECHNOLOGIES LIMITED | 3,071,733 | TEMPLE, GREG                          | 3,072,636 | YOUSSEF, MICHAEL                           | 3,068,718 |
| REINBOLD, JASON                         | 3,072,254 | THANOU, PINELOPI                      | 3,072,675 | YU, JIANJUN                                | 3,072,142 |
| RETAIL SPACE SOLUTIONS<br>LLC           | 3,072,224 | THE BOEING COMPANY                    | 3,065,858 | ZAGHIB, KARIM                              | 3,033,917 |
| RETAIL SPACE SOLUTIONS<br>LLC           | 3,072,230 | THE TOPPS COMPANY, INC.               | 3,072,254 | ZHANG, XIANG                               | 3,081,043 |
| RETROFIX SCREWS, LLC                    | 3,082,699 | THE TORONTO-DOMINION<br>BANK          | 3,033,649 | ZHANG, XIANG                               | 3,081,043 |
| REVERS, RYAN                            | 3,071,515 | THE TORONTO-DOMINION<br>BANK          | 3,033,664 | ZHANG, XIANG                               | 3,081,043 |
| REVERS, RYAN                            | 3,071,516 | THE TORONTO-DOMINION<br>BANK          | 3,033,682 | ZHANG, XIANG                               | 3,081,043 |
| REYNAUD, LIONEL                         | 3,033,769 | THE TORONTO-DOMINION<br>BANK          | 3,033,704 | ZHANG, XIANG                               | 3,081,043 |
| RICHARD, MAXIME                         | 3,072,775 | THE TORONTO-DOMINION<br>BANK          | 3,038,430 | ZHANG, XIANG                               | 3,081,043 |
| ROCHOLL, JOSHUA D.                      | 3,072,705 | THE TORONTO-DOMINION<br>BANK          | 3,071,931 | ZHANG, XIANG                               | 3,081,043 |
| ROHM AND HAAS COMPANY                   | 3,072,250 | THE TORONTO-DOMINION<br>BANK          | 3,071,981 | ZHANG, XIANG                               | 3,081,043 |
| ROLLS-ROYCE<br>CORPORATION              | 3,072,139 | THIBAUT, CHRISTOPHE<br>MAURICE        | 3,070,819 | ZHANG, XIANG                               | 3,081,043 |
| ROSEMOUNT AEROSPACE<br>INC.             | 3,062,440 | THOMAS, JUSTIN                        | 3,066,817 | ZHANG, XIANG                               | 3,081,043 |
| ROTOLE, DAVID V.                        | 3,072,152 | TODD, DAVID                           | 3,072,669 | ZHANG, XIANG                               | 3,081,043 |
| ROUSSEL, YVES                           | 3,068,136 | TRANI, ANTHONY                        | 3,072,254 | ZHANG, XIANG                               | 3,081,043 |
| ROYAL BANK OF CANADA                    | 3,072,414 | UNKNOWN                               | 3,033,401 | ZHANG, XIANG                               | 3,081,043 |
| RUSSELL, JAYSON                         | 3,073,434 | UNKNOWN                               | 3,033,415 | ZHANG, XIANG                               | 3,081,043 |
| RYAN, ROBERT                            | 3,072,207 | UNKNOWN                               | 3,061,797 | ZHANG, XIANG                               | 3,081,043 |
|                                         |           |                                       |           | ZHANG, XIANG                               | 3,081,043 |

# Index of PCT Applications Entering the National Phase

## Index des demandes PCT entrant en phase nationale

|                           |           |                          |           |                          |           |
|---------------------------|-----------|--------------------------|-----------|--------------------------|-----------|
| 2A PHARMA AB              | 3,089,790 | ALBRECHT, JIM            | 3,089,189 | AQUA ROBOTICS AS         | 3,089,570 |
| AAMODT, HARALD            | 3,089,570 | ALBRECHT, WOLFGANG       | 3,089,678 | ARAI, HISASHI            | 3,089,304 |
| AASE, JONATHAN SARJEANT   | 3,089,571 | ALDEN ADVANCED           |           | ARAI, YUJI               | 3,089,461 |
| AASEN, TERJE              | 3,089,542 | TECHNOLOGIES, INC.       | 3,089,309 | ARANDT, THOMAS           | 3,089,585 |
| AB INITIO TECHNOLOGY LLC  | 3,089,465 | ALDEN, DMITRI            | 3,089,309 | ARBANTANI, SIAMAK        | 3,089,354 |
| ABB POWER GRIDS           |           | ALIANE, ABDELKADER       | 3,089,599 | ARCELORMITTAL            | 3,085,250 |
| SWITZERLAND AG            | 3,089,157 | ALIANE, ABDELKADER       | 3,089,611 | ARCHAMBAULT, JEAN-LUC    | 3,089,139 |
| ABBAS, JAMES              | 3,089,579 | ALIBABA GROUP HOLDING    |           | ARENAS LATORRE, JESUS    | 3,089,420 |
| ABBOTT DIABETES CARE      |           | LIMITED                  | 3,089,153 | ARFAJ, MOHAMMED K.       | 3,089,631 |
| INC.                      | 3,089,356 | ALIBABA GROUP HOLDING    |           | ARIZONA BOARD OF         |           |
| ABBOTT DIABETES CARE      |           | LIMITED                  | 3,089,162 | REGENTS ON BEHALF OF     |           |
| INC.                      | 3,089,729 | ALIBABA GROUP HOLDING    |           | ARIZONA STATE            |           |
| ABDUL-HADI, LOUAY         | 3,089,718 | LIMITED                  | 3,089,269 | UNIVERSITY               | 3,089,579 |
| ABHARI, KAMYAR            | 3,089,345 | ALINSKI, JENS            | 3,089,321 | ARMSTRONG WORLD          |           |
| ABLYNX NV                 | 3,089,211 | ALINSKI, JENS            | 3,089,326 | INDUSTRIES, INC.         | 3,089,232 |
| ABRAHAM, SUNNY            | 3,089,746 | ALLEN, KENNETH           | 3,089,255 | ARORA, NIDHI             | 3,089,639 |
| ABT, RONALD               | 3,089,387 | ALLEN, KRAIG H.          | 3,089,197 | ARROWHEAD                |           |
| ACCESS CLOSURE, INC.      | 3,089,740 | ALLES, ERWIN             | 3,089,265 | PHARMACEUTICALS,         |           |
| ACTEGA DS GMBH            | 3,089,683 | ALRUWAILI, KHALID        |           | INC.                     | 3,089,276 |
| ADAGENE INC.              | 3,089,795 | MOHAMMED M.              | 3,089,466 | ARUR, DEEPAK             | 3,089,109 |
| ADAMA MAKHTESHIM, LTD.    | 3,089,436 | ALSUBAIE, TURKI          | 3,089,631 | ASAHI GLASS COMPANY      | 3,089,182 |
| ADAMEK, DANIEL E.         | 3,089,207 | ALTENHOFER, ERICH        | 3,089,276 | ASANO, SATOSHI           | 3,089,549 |
| ADAMEK, DANIEL E.         | 3,089,266 | ALTOR BIOSCIENCE LLC     | 3,089,333 | ASCHOFF, STEFAN          | 3,089,275 |
| ADISSEO FRANCE S.A.S.     | 3,089,337 | ALY, KAREEM M. A.        | 3,089,165 | ASHLEY, CHRISTOPHER      |           |
| ADLER, ROBERT             | 3,089,191 | ALY, KAREEM M. A.        | 3,089,169 | REDELL                   | 3,089,595 |
| AEROVIRONMENT, INC.       | 3,089,606 | AMANULLAH, MD            | 3,089,631 | ASHLEY, MATILDA ELVIRA   |           |
| AEROVIRONMENT, INC.       | 3,089,626 | AMANULLAH, SHABBIR       | 3,089,750 | FILIPPA                  | 3,089,427 |
| AEROVIRONMENT, INC.       | 3,089,627 | AMDOCS DEVELOPMENT       |           | ASLAN, DERYA             | 3,089,261 |
| AEROVIRONMENT, INC.       | 3,089,628 | LIMITED                  | 3,089,145 | ASMAR, DANIEL H.         | 3,089,851 |
| AEROVIRONMENT, INC.       | 3,089,638 | AMERICAN UNIVERSITY OF   |           | ASMUS, ELISABETH         | 3,089,286 |
| AFILAL, LISSAN            | 3,089,452 | BEIRUT                   | 3,089,851 | ASSA ABLOY               |           |
| AFL IG LLC                | 3,089,471 | AMSTED RAIL COMPANY,     |           | SICHERHEITSTECHNIK       |           |
| AFRIMZON, ELENA           | 3,089,430 | INC.                     | 3,089,133 | GMBH                     | 3,089,397 |
| AGAJEVA, LALE             | 3,089,259 | AMSTED RAIL COMPANY,     |           | ASSISTANCE PUBLIQUE      |           |
| AGAR, BILL T              | 3,089,340 | INC.                     | 3,089,591 | HOPITAUX DE PARIS        | 3,089,406 |
| AGARWAL, ANIL KUMAR       | 3,089,592 | ANDERSON, JAMES L.       | 3,089,828 | ASTETE, CARLOS           | 3,089,264 |
| AGC FLAT GLASS NORTH      |           | ANDO, TAKASHI            | 3,089,553 | ATOLLA SKIN HEALTH, INC. | 3,089,831 |
| AMERICA INC.              | 3,089,182 | ANDREWS, DAVID           | 3,089,583 | ATTALA, MOHAMED NAGUIB   | 3,088,872 |
| AGC GLASS EUROPE          | 3,089,182 | ANDRITZ HYDRO CANADA     |           | ATTALI, BERNARD          | 3,077,659 |
| AGC VIDROS DO BRASIL      |           | INC.                     | 3,089,086 | ATTIYEH, EDWARD F.       | 3,089,174 |
| LTD A                     | 3,089,182 | ANGIOCRINE BIOSCIENCE,   |           | AUBIN-WALKER, SHEILA     | 3,089,277 |
| AHMED, SEEMIN SEHER       | 3,089,824 | INC.                     | 3,089,324 | AUBREY, BRUCE            | 3,089,858 |
| AHO, DAVID ALLAN          | 3,089,669 | ANGULO ARAGON,           |           | AUTISSIER, CHRISTOPHE    | 3,089,665 |
| AINGE, STEPHEN CHARLES    | 3,089,514 | GUILLERMO                | 3,089,420 | AUTISSIER, CHRISTOPHE    | 3,089,668 |
| AK STEEL PROPERTIES, INC. | 3,089,283 | ANRAM HOLDINGS           | 3,089,235 | AUYEUNG, RAYMOND C.Y.    | 3,089,491 |
| AKABANE, KAZUNORI         | 3,089,696 | ANTEAU, MARK R.          | 3,089,586 | AVANTIUM KNOWLEDGE       |           |
| AKAO, TAKESHI             | 3,089,460 | APNIMED, INC. (DELAWARE) | 3,089,712 | CENTRE B.V.              | 3,089,777 |
| AKAO, TAKESHI             | 3,089,502 | APOGEE ENTERPRISES, INC. | 3,088,421 | AVEROUS, LUC             | 3,089,173 |
| AKER BIOMARINE            |           | APPBIND INC.             | 3,089,640 | AVIDOV, AMIT             | 3,089,128 |
| ANTARCTIC AS              | 3,089,673 | APPLIED GRAPHENE         |           | AVISI TECHNOLOGIES, LLC  | 3,089,342 |
| AKIMOTO, HARUO            | 3,089,515 | MATERIALS UK LIMITED     | 3,089,679 | AVUTHU, SRAVANTHI        | 3,089,740 |
| AKZENTA PANELEE +         |           | APPLIED GRAPHENE         |           | AXON ENTERPRISE, INC.    | 3,089,303 |
| PROFILE GMBH              | 3,084,654 | MATERIALS UK LIMITED     | 3,089,685 | AXON THERAPIES, INC.     | 3,089,217 |
| AL-ALI, MUSTAFA           | 3,089,467 | APRASOFF, JONATHAN       | 3,089,720 | AYAIDA, MARWANE          | 3,089,452 |
| ALAR PHARMACEUTICALS      |           | APTINYX INC.             | 3,089,559 |                          |           |
| INC.                      | 3,089,256 | APTINYX INC.             | 3,089,561 |                          |           |



## Index des demandes PCT entrant en phase nationale

|                          |           |                        |           |                          |           |
|--------------------------|-----------|------------------------|-----------|--------------------------|-----------|
| AZIENDE CHIMICHE RIUNITE |           | BAYLY, ANDREW          | 3,089,762 | BINDSCHENDLER, PIERRE    |           |
| ANGELINI FRANCESCO       |           | BAZIRGAN, COLETTE      | 3,089,497 | ETIENNE                  | 3,089,173 |
| A.C.R.A.F. S.P.A.        | 3,089,552 | BECHTHOLD, ALEX        | 3,089,275 | BING INNOVATIONS, L.L.C. | 3,089,618 |
| B&R INDUSTRIAL           |           | BECKER, DIETER         | 3,089,434 | BINNENDIJK, MARTEN       | 3,089,669 |
| AUTOMATION GMBH          | 3,089,413 | BECKER, ERNST          | 3,089,528 | BIOLECTRICS LLC          | 3,089,241 |
| BACHMANN, MICHAEL        | 3,089,300 | BECTON, DICKINSON AND  |           | BIONTECH RNA             |           |
| BACKHAUS, CHRISTOF       | 3,089,282 | COMPANY                | 3,089,577 | PHARMACEUTICALS          |           |
| BADRUDDIN, AAMIR         | 3,089,132 | BECTON, DICKINSON AND  |           | GMBH                     | 3,089,784 |
| BAE, KYOUNGHWA           | 3,089,174 | COMPANY                | 3,089,736 | BIOURGE, VINCENT         | 3,089,817 |
| BAGGER, CHRISTIAN        |           | BECTON, DICKINSON AND  |           | BIOXODES                 | 3,089,358 |
| LORENTZ                  | 3,089,673 | COMPANY                | 3,089,836 | BISHOP, JOHN             | 3,089,677 |
| BAGULAYAN, AMAL          | 3,089,221 | BECTON, DICKINSON AND  |           | BITTAR, MICHAEL          | 3,089,262 |
| BAGULAYAN, AMAL          | 3,089,335 | COMPANY                | 3,089,837 | BLACKBERRY LIMITED       | 3,089,363 |
| BAILEY, STEVEN           | 3,089,387 | BEDFORD, EDWARD        |           | BLACKWELL, JENNIFER      | 3,089,642 |
| BAKER, ELIAS LEE         | 3,089,474 | ALEXANDER              | 3,089,415 | BLAINE, DAVID            | 3,089,858 |
| BAKER, ETHAN CHAD        | 3,089,337 | BEDFORD, EDWARD        |           | BLAIR, MARTIN            | 3,089,479 |
| BAKER, JEFF              | 3,089,571 | ALEXANDER              | 3,089,418 | BLEICH, MATTHEW          | 3,089,762 |
| BALAKRISHNAN, SATISH     | 3,089,744 | BEDSOLE, ROBERT        | 3,089,364 | BLEICH, MATTHEW          | 3,089,769 |
| BALASI, SZABOLCS         | 3,089,664 | BELL, CHARLES          | 3,089,443 | BLEICHER, KONRAD         | 3,089,688 |
| BALDWIN, IAN T.          | 3,089,378 | BELL, KEVAN            | 3,089,693 | BLELOCH, ANDREW L.       | 3,089,863 |
| BALDWIN, MICAH           | 3,089,338 | BELLIVEAU, SCOTT M.    | 3,089,642 | BLOCK, JOSEPH M.         | 3,089,207 |
| BALLU, ARNAUD            | 3,089,680 | BELMOND, MATHIEU       | 3,089,362 | BLOCK, JOSEPH M.         | 3,089,252 |
| BAMPIS, CHRISTOS         | 3,089,584 | BEN TRAD, ABDERRAZEK   | 3,089,182 | BLOCK, JOSEPH M.         | 3,089,266 |
| BANDYOPADHYAY, ANISH     | 3,089,666 | BENAMMAR, NASSIR       | 3,089,109 | BLOKLAND, KORSTIAAN      |           |
| BANFIELD, STEPHEN        | 3,089,084 | BENDTSEN, THOMAS       |           | CORNELIS                 | 3,089,734 |
| BAO, RUDI                | 3,089,246 | FICHTNER               | 3,089,531 | BOARD OF SUPERVISORS OF  |           |
| BAR-ILAN UNIVERSITY      | 3,089,430 | BENENATO, KERRY        | 3,089,117 | LOUISIANA STATE          |           |
| BARAZANI, AVNER          | 3,089,128 | BENHELAL, EMAD         | 3,089,658 | UNIVERSITY AND           |           |
| BARBULESCU, STEFAN       | 3,089,841 | BENITO ALTAMIRANO,     |           | AGRICULTURAL AND         |           |
| BARNES, GAVIN A.         | 3,089,716 | ISMAEL                 | 3,089,330 | MECHANICAL COLLEGE       | 3,089,264 |
| BARNETT, CHARLES         | 3,089,109 | BENJAMIN, EDWARD       | 3,089,497 | BOBADILLA LARIOS,        |           |
| BARNETT, MITCHELL        | 3,089,338 | BENNETT, JESSE WILLIAM | 3,089,363 | MANUEL ALFONSO           | 3,089,221 |
| BARRANCO ZAFRA, JOSE     |           | BENTON, JAMES M.       | 3,089,385 | BOBER, WIESLAW           | 3,089,636 |
| MARIA                    | 3,089,420 | BENZ, JOERG            | 3,089,443 | BOBINSKI, THOMAS P.      | 3,089,639 |
| BARRETT, STEPHEN JOHN    | 3,089,363 | BERG, RYAN ARTHUR      | 3,089,615 | BODET, HERVE             | 3,089,451 |
| BARTKO, KIRK             | 3,089,131 | BERGE, TORE            | 3,089,635 | BOGRAN, JON              | 3,089,863 |
| BARTLEY, G., KEITH       | 3,089,597 | BERGER, KATHARINA      | 3,089,282 | BOHL, MICHAEL A.         | 3,089,126 |
| BASF SE                  | 3,088,722 | BERGER, MARKUS         | 3,089,754 | BOHM, SEBASTIAN          | 3,089,212 |
| BASF SE                  | 3,089,374 | BERGERS, MATTHEW       | 3,088,421 | BOHNKE, NIELS            | 3,089,754 |
| BASF SE                  | 3,089,381 | BERGMAN, JOHAN         | 3,089,142 | BOJACK, GUIDO            | 3,089,286 |
| BASF SE                  | 3,089,585 | BERGQVIST, MATTIAS     | 3,089,674 | BOLL, JAMES              | 3,089,137 |
| BASF SE                  | 3,089,623 | BERLINGUETTE, CURTIS   | 3,089,508 | BONANO, SAMANTHA         | 3,089,844 |
| BASF SE                  | 3,089,800 | BERTOLOTTI, UMBERTO    | 3,089,546 | BOOIJ, WILFRED EDWIN     | 3,089,542 |
| BATARSEH, SAMEEH ISSA    | 3,089,710 | BESIN, GILLES          | 3,089,117 | BOONZAIR, JAMES          | 3,089,251 |
| BATES, AARON             | 3,089,724 | BETCHER, SCOTT A.      | 3,089,207 | BOONZAIR, JAMES          | 3,089,253 |
| BATTU, ADARSH NARAYAN    | 3,089,342 | BETCHER, SCOTT A.      | 3,089,266 | BOONZAIR, JAMES          | 3,089,274 |
| BAUBEAU, EMMANUEL        | 3,089,446 | BEYONDSRING            |           | BOONZAIR, JAMES          | 3,089,292 |
| BAUER, MARTIN            | 3,089,399 | PHARMACEUTICALS,       |           | BOREALIS AG              | 3,089,674 |
| BAUMANN, MARKUS          | 3,089,164 | INC.                   | 3,089,226 | BOREL, BERNARD           | 3,089,451 |
| BAUMHARDT, RICH          | 3,089,189 | BEYONDSRING            |           | BOREN, BRANT CLAYTON     | 3,089,746 |
| BAUR, PETER              | 3,089,399 | PHARMACEUTICALS,       |           | BORRAS, LEONARDO         | 3,089,230 |
| BAYER                    |           | INC.                   | 3,089,391 | BORSHEIM, EIRIK          | 3,089,635 |
| AKTIENGESELLSCHAFT       | 3,089,286 | BHANDARI, ASHOK        | 3,089,868 | BOTANIX                  |           |
| BAYER                    |           | BHARATHKUMAR,          |           | PHARMACEUTICALS LTD      | 3,089,346 |
| AKTIENGESELLSCHAFT       | 3,089,339 | PADAVALACHANDU         | 3,089,388 | BOTANIX                  |           |
| BAYER                    |           | BHARDWAJ, NEERAJ S.    | 3,089,863 | PHARMACEUTICALS LTD      | 3,089,360 |
| AKTIENGESELLSCHAFT       | 3,089,754 | BHATT, BHAWANA         | 3,089,592 | BOTHMER, ANNE, HELEN     | 3,089,843 |
| BAYER BUSINESS SERVICES  |           | BHAVARAJU, NARESH      | 3,089,212 | BOULAROT, NICOLAS        | 3,089,449 |
| GMBH                     | 3,089,282 | BHAVARAJU, NARESH C.   | 3,089,642 | BOULDIN, BRETT           | 3,089,131 |
| BAYER PHARMA             |           | BHOOPATHI, PRAVEEN     | 3,089,231 | BOURNE, GREGORY THOMAS   | 3,089,868 |
| AKTIENGESELLSCHAFT       | 3,089,754 | BIANCHI, ELISABETTA    | 3,089,657 | BOUSQUET, JOSHUA         | 3,089,277 |
| BAYER, STEFAN            | 3,089,550 | BIEBER, MARTIN         | 3,089,841 | BOUTHEON, ALEXANDRE      | 3,089,550 |
| BAYLOR COLLEGE OF        |           | BIN ZAHID, ABDULLAH    | 3,089,124 | BOWEN, ALEXANDER B.      | 3,089,214 |
| MEDICINE                 | 3,089,667 |                        |           | BOYCE, GREGORY R.        | 3,089,581 |

## Index of PCT Applications Entering the National Phase

|                          |           |                        |           |                          |           |
|--------------------------|-----------|------------------------|-----------|--------------------------|-----------|
| BOYD, RICHARD            | 3,089,151 | CAMPANA, DARIO         | 3,089,167 | CHAKRAVARTY, SARVAJIT    | 3,089,592 |
| BOYLE, LOUISE HELEN      | 3,089,154 | CAMPANA, DARIO         | 3,089,170 | CHAN, EDWARD K.W.        | 3,089,613 |
| BOYLESS, NATHANIEL       |           | CAMPBELL, STEWART      | 3,089,201 | CHANG, IN-KOOK           | 3,089,543 |
| DAVID                    | 3,089,619 | CANALES, EDA           | 3,089,590 | CHANPURA, REENA          |           |
| BRADLEY, RICHARD         | 3,089,817 | CANCEL-TASSIN,         |           | AGARWAL                  | 3,089,808 |
| BRADLEY, RICHARD WAYNE   | 3,089,125 | GERALDINE              | 3,089,406 | CHAO, RUOBING            | 3,089,268 |
| BRADLEY, RYAN            | 3,089,125 | CANNTRUST INC.         | 3,089,225 | CHAPMAN, JUSTIN          | 3,089,478 |
| BRADY, SEAN F.           | 3,089,236 | CAO, DONGMING          | 3,089,494 | CHARLTON, DOUGLAS W.     | 3,089,138 |
| BRAINLAB AG              | 3,089,744 | CAO, GUOQING           | 3,089,260 | CHARRIER, JEAN-DAMIEN    | 3,089,762 |
| BRANDENBURG, BOERRIES    | 3,089,177 | CAO, HUA               | 3,089,540 | CHARRIER, JEAN-DAMIEN    | 3,089,769 |
| BRENNER, CATHERINE       | 3,089,140 | CAO, RENXIAN           | 3,075,055 | CHASKO, BRYAN J.         | 3,089,312 |
| BRENT, GEOFFREY          |           | CAO, RENXIAN           | 3,075,059 | CHASSOT, JULIEN          | 3,089,681 |
| FREDERICK                | 3,089,658 | CAO, SONG              | 3,089,139 | CHEANG, DANIELLA         | 3,089,688 |
| BRIDGEMAN, JOHN STEPHEN  | 3,089,294 | CAPASSO, FEDERICO      | 3,089,373 | CHEN, BO                 | 3,089,276 |
| BRIGGS, NIGEL            | 3,089,084 | CAPTECH, LLC           | 3,089,714 | CHEN, CUIJUAN            | 3,089,254 |
| BRIGGS, SONYA ANNETTE    | 3,089,302 | CAPULUS THERAPEUTICS,  |           | CHEN, HAO                | 3,089,644 |
| BRIN, GAVIN              | 3,089,838 | LLC                    | 3,089,134 | CHEN, JIANGSHENG         | 3,089,157 |
| BRINGMANN, PETER         | 3,087,253 | CAPUTO, FRANCESCO      | 3,080,012 | CHEN, JING               | 3,089,717 |
| BRITO, LUIS              | 3,089,117 | CARACCIOLLO            |           | CHEN, JIYUN              | 3,089,592 |
| BRITO-SANCHEZ, YOAN      | 3,089,485 | TORCHIAROLO,           |           | CHEN, RUI                | 3,089,443 |
| BRITTLES, GREG           | 3,089,806 | GIULIANO               | 3,089,552 | CHEN, XI                 | 3,089,150 |
| BRIZGYS, GEDIMINAS       | 3,089,590 | CARBAGAS               | 3,089,355 | CHEN, YANG               | 3,089,660 |
| BRODIE, T., FURMAN       | 3,089,828 | CAREFUSION 303, INC.   | 3,089,829 | CHEN, YINGJIANG          | 3,089,529 |
| BROLIS SENSOR            |           | CARGILL, INCORPORATED  | 3,089,367 | CHENEY, WILLIAM J.       | 3,088,423 |
| TECHNOLOGY, UAB          | 3,089,801 | CARGILL, INCORPORATED  | 3,089,369 | CHENG, YI JACK           | 3,089,865 |
| BROMBACH, JOHANNES       | 3,089,179 | CARL ZEISS VISION      |           | CHEPLIKA, OLEKSII        | 3,089,352 |
| BROOKS, DANIEL R.        | 3,089,482 | INTERNATIONAL GMBH     | 3,088,829 | CHEUNG, BRANDON          | 3,089,613 |
| BROSE, SIMON             | 3,089,166 | CARLSON, JEFFREY       | 3,089,276 | CHEUNG, MUI              | 3,089,666 |
| BROSE, SIMON             | 3,089,171 | CARLSSON, RICHARD      | 3,089,136 | CHEUNG, NGAI             | 3,089,663 |
| BROWN, JONATHAN          | 3,089,131 | CARRASCAL, MYLENE      |           | CHILDREN'S MEDICAL       |           |
| BRUCE, SAMUEL            | 3,089,137 | ADELAIDE DO ROSARIO    | 3,089,300 | CENTER CORPORATION       | 3,089,834 |
| BRUGGEMANN, NICOLE       | 3,089,671 | CARREAU, GABRIEL       | 3,089,655 | CHILDREN'S RESEARCH      |           |
| BRUGGEMANN, NICOLE       | 3,089,675 | CARTER, JAMES          | 3,089,858 | INSTITUTE, CHILDREN'S    |           |
| BRUNO, MARCO             | 3,089,458 | CARTHERICS PTY. LTD.   | 3,089,151 | NATIONAL MEDICAL         |           |
| BRUSE, FALK              | 3,089,367 | CASALS GUILLEN, OLGA   | 3,089,330 | CENTER                   | 3,089,704 |
| BRUSE, FALK              | 3,089,369 | CASSAGNE, LOICK        | 3,089,676 | CHIVERS, MICHAEL         | 3,089,158 |
| BRYANT, MORGAN           | 3,089,677 | CASSAGNE, LOICK        | 3,089,684 | CHO, BO-RAM              | 3,089,187 |
| BUCHALTER, NEAL JOSEPH   | 3,089,531 | CASTRO, GRACE          | 3,087,253 | CHOI, YONGBIN            | 3,089,187 |
| BUCK, DANIEL             | 3,089,428 | CATALENT U.K. SWINDON  |           | CHOU, CHIENHUNG          | 3,089,590 |
| BUER, KENNETH V          | 3,089,340 | ZYDIS LIMITED          | 3,089,172 | CHOU, CHUAN-CHU          | 3,089,512 |
| BUFFALO FILTER LLC       | 3,089,844 | CATLETT, MICHAEL GLENN | 3,089,135 | CHRIST, CHARLES S.       | 3,089,207 |
| BUNKER, KEVIN DUANE      | 3,089,746 | CATTIN, PHILIPPE       | 3,089,198 | CHRIST, CHARLES S.       | 3,089,252 |
| BUREACOV, ARTUR          | 3,089,471 | CAVARISCHIA, CLAUDIA   | 3,089,552 | CHRIST, CHARLES S.       | 3,089,266 |
| BURNS, AARON CRAIG       | 3,089,639 | CAVE, ETOSHA           | 3,089,119 | CHRISTENSEN, JAMES GAIL  | 3,089,639 |
| BUSTOS ROBLEDO, JUAN     |           | CDR-LIFE AG            | 3,089,230 | CHRISTIAN, JOHN          | 3,089,568 |
| PABLO                    | 3,089,016 | CENTNER, ROBERT J.     | 3,089,852 | CHU, HAIYAN              | 3,089,051 |
| BUTTERWORTH, PETER J.    | 3,089,296 | CENTNER, ROBERT J.     | 3,089,857 | CHU, HAIYAN              | 3,089,319 |
| BWXT CANADA LTD.         | 3,089,165 | CENTOGENE GMBH         | 3,089,802 | CHURCH, DANIEL           | 3,087,253 |
| BWXT CANADA LTD.         | 3,089,169 | CENTRE HOSPITALIER     |           | CIENA CORPORATION        | 3,089,138 |
| BYRNE, DAVID             | 3,089,510 | REGIONAL               |           | CIENA CORPORATION        | 3,089,139 |
| BYRNE, JEANETTE          | 3,089,510 | UNIVERSITAIRE DE       |           | CINTRAT, JEAN-CHRISTOPHE | 3,089,140 |
| BYRNE, RYAN              | 3,089,086 | TOURS                  | 3,089,406 | CIRIELLO, GIUSEPPE       | 3,089,376 |
| CABONI, MICHELE          | 3,089,780 | CENTRE NATIONAL DE LA  |           | CITRIX SYSTEMS, INC.     | 3,089,234 |
| CABRERA, ERIC, ESCOBAR   | 3,089,721 | RECHERCHE              |           | CITRIX SYSTEMS, INC.     | 3,089,644 |
| CAIN, DAVID              | 3,089,317 | SCIENTIFIQUE (CNRS)    | 3,089,173 | CITYLIFT PARKING, LLC    | 3,089,865 |
| CALIK DENIM TEKSTIL SAN. |           | CENTRE NATIONAL DE LA  |           | CLAERHOUT, MIKE          | 3,082,227 |
| VE TIC. A.S.             | 3,089,261 | RECHERCHE              |           | CLAES, KATRIEN           | 3,089,682 |
| CALLAHAN, MATTHEW        | 3,089,346 | SCIENTIFIQUE (CNRS)    | 3,089,598 | CLARIANT INTERNATIONAL   |           |
| CALLAHAN, MATTHEW        | 3,089,360 | CERUS CORPORATION      | 3,087,253 | LTD                      | 3,089,399 |
| CALLEWAERT, FILIP        | 3,089,211 | CHABBERT, CHRISTIAN    | 3,089,598 | CLARK, BECKY L.          | 3,089,212 |
| CAMBREX PROFARMACO       |           | CHABERT, ANNE MARIE    | 3,089,158 | CLARK, JAMES P.          | 3,089,838 |
| MILANO S.R.L.            | 3,080,012 | CHAI, REBECCA WAN      | 3,089,454 | CLARKSON, ANDREW NEIL    | 3,089,161 |
| CAMBRIDGE ENTERPRISE     |           | CHAI, WENGANG          | 3,089,300 | CLAUS, BRIAN             | 3,089,176 |
| LIMITED                  | 3,089,154 | CHAKRAVARTHY, BALU     | 3,089,816 | CLAUS, JONAS             | 3,089,164 |

## Index des demandes PCT entrant en phase nationale

|                                                         |           |                                       |           |                               |           |
|---------------------------------------------------------|-----------|---------------------------------------|-----------|-------------------------------|-----------|
| CLAUSEN, RASMUS<br>PRAETORIUS                           | 3,089,161 | CULHANE, MICHAEL<br>PATRICK           | 3,089,669 | DELMOTTE, SEBASTIEN           | 3,089,817 |
| COBLE, AMANDA WORLEY                                    | 3,089,232 | CUNNINGHAM, ALLAN F.                  | 3,089,374 | DEMERS-CARPENTIER,<br>VINCENT | 3,089,556 |
| COBO, ANTONIO GODINO                                    | 3,089,200 | CUNNINGHAM, ALLAN<br>FRANCIS          | 3,089,381 | DEMOULIN, STEPHANIE           | 3,089,358 |
| CODESTREAM, INC.                                        | 3,089,714 | CUSSENOT, OLIVIER                     | 3,089,406 | DENGLER, JOACHIM              | 3,089,457 |
| COFFIN, MAXIME PM                                       | 3,089,730 | CYBER DEFENCE QCD<br>CORPORATION      | 3,089,761 | DENKEWICZ, RAY                | 3,089,858 |
| COHEN, ERIC                                             | 3,089,642 | CYNOSURE, INC.                        | 3,089,137 | DENNIS, JOSEPH K.             | 3,089,640 |
| COLDHAM, ANDREW                                         | 3,089,833 | CYTODYN INC.                          | 3,089,848 | DERENZY, DAVID                | 3,089,212 |
| COLDHAM, ANDREW                                         | 3,089,871 | CYZIO, MAREK LUDOMIR                  | 3,089,248 | DEROCHETTE, SANDRINE          | 3,089,358 |
| COLE, JEAN-PIERRE                                       | 3,089,356 | DACOSTA, RALPH                        | 3,089,345 | DESJARDINS, ADRIEN            | 3,089,265 |
| COLLINS, WILLIAM R.                                     | 3,089,125 | DAILEY, JAMES S.                      | 3,089,623 | DESJARDINS, GENEVIEVE         | 3,089,721 |
| COMER, SEAN MICHAEL                                     | 3,089,316 | DALHOUSIE UNIVERSITY                  | 3,082,229 | DEUTSCH, ERIC                 | 3,089,140 |
| COMMISSARIAT A L'ENERGIE<br>ATOMIQUE ET AUX<br>ENERGIES |           | DALLAS, ANDREW J.                     | 3,089,207 | DEUTSCH, MORDECHAI            | 3,089,430 |
| ALTERNATIVES                                            | 3,089,599 | DALLAS, ANDREW J.                     | 3,089,252 | DEVENPORT, MARTIN             | 3,089,704 |
| COMMISSARIAT A L'ENERGIE<br>ATOMIQUE ET AUX<br>ENERGIES |           | DALLAS, ANDREW J.                     | 3,089,266 | DEVENPORT, MARTIN             | 3,089,768 |
| ALTERNATIVES                                            | 3,089,611 | DALMIA, AVINASH                       | 3,089,347 | DEVILLARD, ESTELLE            | 3,089,337 |
| CONDUCTIX, INC.                                         | 3,089,479 | DAMJANOVIC, SRDJAN                    | 3,089,363 | DEVINE, CONNOR                | 3,089,292 |
| CONNELL, TALIA                                          | 3,089,328 | DAMMANN, WARREN E.                    | 3,089,252 | DEVINE, CONOR                 | 3,089,251 |
| CONOCOPHILLIPS COMPANY                                  | 3,089,214 | DANA-FARBER CANCER<br>INSTITUTE, INC. | 3,089,279 | DEVINE, CONOR                 | 3,089,253 |
| CONOCOPHILLIPS COMPANY                                  | 3,089,719 | DANA-FARBER CANCER<br>INSTITUTE, INC. | 3,089,588 | DEVINE, CONOR                 | 3,089,274 |
| CONSTANTIN, ALEXANDRA<br>ELENA                          | 3,089,642 | DANBY PRODUCTS LIMITED                | 3,089,659 | DEXCOM, INC.                  | 3,089,212 |
| CONTEMPO CARD COMPANY                                   | 3,089,497 | DANNEMAN, MICHAEL W.                  | 3,089,117 | DEXCOM, INC.                  | 3,089,642 |
| COOPER, FRANCIS                                         | 3,089,591 | DARAPU, RAMANAMURTHY<br>V             | 3,089,340 | DHILLON, MANJINDER<br>SINGH   | 3,089,235 |
| COOTE, JOANNA M.                                        | 3,089,265 | DAS, SWADESH K.                       | 3,089,231 | DI GIORGIO, PATRICK           | 3,089,688 |
| CORBO, MARK                                             | 3,089,306 | DATTARAY, BASAB                       | 3,089,642 | DI GIROLAMO, STEFANO          | 3,089,426 |
| CORN, DAVID                                             | 3,089,241 | DAVIES, JAMES                         | 3,089,251 | DIAGNOSTICA STAGO             | 3,089,163 |
| CORNEBISE, MARK                                         | 3,089,117 | DAVIES, JAMES                         | 3,089,253 | DIBBLE, GREGORY JAMES         | 3,089,282 |
| CORNELIUS, STEVEN                                       | 3,089,241 | DAVIES, JAMES                         | 3,089,274 | DICESARE, PAUL                | 3,089,618 |
| CORRIGAN, JOHN                                          | 3,089,109 | DAVIES, JAMES                         | 3,089,292 | DICKERSON, TODD EVAN          | 3,089,475 |
| CORWIN, ALEX D                                          | 3,089,788 | DAVIS, ANNA LEIGH                     | 3,089,642 | DIERKS, MICHAEL ANDREW        | 3,089,479 |
| COSMED PHARMACEUTICAL<br>CO., LTD.                      | 3,089,513 | DAVIS, BRIAN MICHAEL                  | 3,089,788 | DIETRICH, HANSJORG            | 3,089,286 |
| COTTA-RAMUSINO, CECILIA                                 | 3,089,843 | DAVIS, CLARK C.                       | 3,089,737 | DIGNITY HEALTH                | 3,089,126 |
| COTTER, JENNIFER                                        | 3,089,123 | DAVIS, GREGORY D.                     | 3,089,323 | DIGNITY HEALTH                | 3,089,579 |
| COULANGE, VINCENT                                       | 3,089,708 | DAXENBERGER, GEORG                    | 3,089,457 | DIKEN, MUSTAFA                | 3,089,784 |
| COURTADE-JOUANICQ,<br>CELINE                            | 3,089,708 | DAYNES, TODD                          | 3,089,345 | DILL, SCOTT LEONARD           | 3,089,363 |
| COUSSEAU, SIMON JEAN-<br>MARIE BERNARD                  | 3,089,160 | DE BIJL, MARIO JOSEPHUS               | 3,089,205 | DILUVIO, LAURA                | 3,089,426 |
| COUTURE, PIERRE                                         | 3,089,218 | DE BRITO ESTRELA, RUI                 | 3,089,700 | DIPETRILLO, KEITH             | 3,089,240 |
| COYLE, MICHAEL ROBERT                                   | 3,089,210 | DE GROOTE, ANDREAS                    | 3,089,801 | DISTALMOTION SA               | 3,089,681 |
| COZMA, CLAUDIA                                          | 3,089,802 | DE JESUS, TIAGO ALVES                 | 3,089,761 | DMF, INC.                     | 3,089,368 |
| CRABTREE, VINCENT P.                                    | 3,089,212 | DE KRUIF, CORNELIS<br>ADRIAAN         | 3,089,722 | DODD, JAMES                   | 3,089,762 |
| CRAVEN, RICHARD                                         | 3,089,677 | DE LA CRUZ JR., VIDAL<br>FELIX        | 3,089,731 | DOHRMANN, ANTHONY             | 3,089,312 |
| CREECH, NATHAN                                          | 3,089,838 | DE REYNIES, AURELIEN                  | 3,089,406 | DOHLMANN, ANTHONY             | 3,089,312 |
| CREO MEDICAL LIMITED                                    | 3,089,677 | DE WINTER, HILDE                      | 3,089,211 | DOLBY INTERNATIONAL AB        | 3,089,632 |
| CRESCENDO BIOLOGICS<br>LIMITED                          | 3,089,419 | DEAN ULTRA THIN<br>RETAINER, LLC      | 3,089,739 | DOLLIVE, SERENA NICOLE        | 3,089,824 |
| CROCI, ALBERTO MURAT                                    | 3,089,731 | DEBNATH, SMITA                        | 3,089,742 | DONALD, CRAIG                 | 3,089,176 |
| CRONIN, MICHAEL J.                                      | 3,089,252 | DEBRUIN, JASON                        | 3,089,858 | DONALDSON COMPANY, INC.       | 3,089,207 |
| CROP MICROCLIMATE<br>MANAGEMENT INC.                    | 3,089,258 | DECARLO, VANESSA                      | 3,089,492 | DONALDSON COMPANY, INC.       | 3,089,252 |
| CRRC QIQIHAR ROLLING<br>STOCK CO., LTD.                 | 3,089,797 | DECIPHERA<br>PHARMACEUTICALS,<br>LLC  | 3,089,566 | DONALDSON COMPANY, INC.       | 3,089,266 |
| CTRE RECHERCHE<br>PATHOLOGIES                           |           | DECIPHERA<br>PHARMACEUTICALS,<br>LLC  | 3,089,630 | DONG, HUIJUN                  | 3,089,769 |
| PROSTATIQUES                                            | 3,089,406 | DECOCK, THIERRY                       | 3,089,785 | DONG, MIN                     | 3,089,834 |
| CUESTA ALVAREZ, JOSE                                    | 3,089,237 | DEKELVER, RUSSELL                     | 3,089,587 | DONG, QING                    | 3,089,527 |
| CUI, YINGJUN                                            | 3,089,797 | DELGADO ACARRETA, RAUL                | 3,089,237 | DORMAKABA CANADA INC.         | 3,089,770 |

## Index of PCT Applications Entering the National Phase

|                                     |           |                                                                        |           |                                                                                    |           |
|-------------------------------------|-----------|------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|-----------|
| DUCLOS, OLIVIER                     | 3,089,657 | EQSTATS PTY LTD                                                        | 3,089,375 | FEUGIER, ALEXANDRE                                                                 | 3,089,817 |
| DUGAS, TAMMY RENEE                  | 3,089,264 | EQUIFAX INC.                                                           | 3,089,248 | FIALKOW, RONI                                                                      | 3,089,178 |
| DUKE UNIVERSITY &<br>MEDICAL CENTER | 3,089,593 | EQUIFAX INC.                                                           | 3,089,255 | FIECHTER, ALEXIS                                                                   | 3,089,364 |
| DUNHAM, DANIELLE C.                 | 3,089,345 | ERTEK AVCI, MUNEVVVER                                                  | 3,089,261 | FIEGLEIN, HENRY                                                                    | 3,089,136 |
| DUNSTAN, BRETT                      | 3,089,486 | ESCHER, DOMINIK                                                        | 3,089,230 | FIEKENS, RALF                                                                      | 3,089,671 |
| DUROCHER, YVES                      | 3,089,816 | ESCORS MURUGARREN,<br>DAVID                                            | 3,089,419 | FIEKENS, RALF                                                                      | 3,089,675 |
| DURRANT, STEVEN                     | 3,089,762 | ESCRIBANO CUESTA, ANA                                                  | 3,088,722 | FIETZEK, REINER                                                                    | 3,089,671 |
| DURRANT, STEVEN                     | 3,089,769 | ESSERT, STEFFEN                                                        | 3,089,275 | FIETZEK, REINER                                                                    | 3,089,675 |
| DURSEN, FRANK                       | 3,089,444 | ESTETRA SPRL                                                           | 3,089,804 | FILOSI, ANDREAS                                                                    | 3,089,771 |
| DUSSEAU, MATHILDE<br>BRUNNHILDE     | 3,089,318 | ESTILL, JIM                                                            | 3,089,659 | FILOSI, ANDREAS                                                                    | 3,089,798 |
| DUTTON, PETER                       | 3,089,454 | ETXEBARRIA I JARDI,<br>GORKA                                           | 3,089,762 | FINLAY, MALCOLM                                                                    | 3,089,265 |
| DVASHI, ZEEV                        | 3,089,175 | ETXEBARRIA I JARDI,<br>GORKA                                           | 3,089,769 | FISHER, PAUL B.                                                                    | 3,089,231 |
| DYESS, ADAM                         | 3,089,125 | EUSTRALIS<br>PHARMACEUTICALS<br>LIMITED (TRADING AS<br>PRESSURA NEURO) | 3,089,656 | FISSELL, MARK J.                                                                   | 3,089,719 |
| EARGO, INC.                         | 3,089,571 | EVANS, THOMAS G.                                                       | 3,089,385 | FLANDERS, NICHOLAS                                                                 | 3,089,119 |
| EASTON, JOHN                        | 3,089,756 | EVERITT, SIMON                                                         | 3,089,762 | FLEISCHER-TREBES,<br>CHRISTOPH                                                     | 3,089,339 |
| EATON INTELLIGENT POWER<br>LIMITED  | 3,089,669 | EVERITT, SIMON                                                         | 3,089,769 | FLIES, DALLAS BENJAMIN                                                             | 3,089,469 |
| EBBUTT, JULIAN MARK                 | 3,089,677 | EVERYTONE LIMITED                                                      | 3,089,807 | FLUEGEL, SCOTT                                                                     | 3,089,850 |
| EBERTS, DENNIS JOHN                 | 3,089,558 | EVONIK OPERATIONS GMBH                                                 | 3,089,149 | FLUIDX MEDICAL<br>TECHNOLOGY, LLC                                                  | 3,089,480 |
| ECKHARDT, ERIK                      | 3,089,337 | EVTIMOV, VERA                                                          | 3,089,151 | FLYNN, DANIEL L.                                                                   | 3,089,566 |
| ECKSTEIN, HARALD                    | 3,089,776 | EXCELMAB INC.                                                          | 3,089,254 | FLYNN, DANIEL L.                                                                   | 3,089,630 |
| ECOFUEL TECHNOLOGIES<br>LTD         | 3,089,509 | EXNER, DANA                                                            | 3,089,724 | FNV IP B.V.                                                                        | 3,089,199 |
| ECOLAB USA INC.                     | 3,089,557 | F. HOFFMANN-LA ROCHE AG                                                | 3,089,443 | FNV IP B.V.                                                                        | 3,089,205 |
| ECOLAB USA INC.                     | 3,089,623 | F. HOFFMANN-LA ROCHE AG                                                | 3,089,688 | FOILES, DOUGLAS L.                                                                 | 3,089,325 |
| ECOLAB USA INC.                     | 3,089,624 | FABIAN, JOHANNA                                                        | 3,089,438 | FOJTIK, SHAWN PATRICK                                                              | 3,089,480 |
| ECOLAB USA INC.                     | 3,089,629 | FABREGA GALLEGO,<br>CRISTIAN                                           | 3,089,330 | FORD, MICHAEL H.                                                                   | 3,089,317 |
| EDDYFI NDT INC.                     | 3,089,556 | FAHRTHOFER, GEORG                                                      | 3,089,191 | FOREVER LABS, INC.                                                                 | 3,089,825 |
| EDELHAUSER, ADAM                    | 3,089,577 | FAIRCLOTH, MATTHEW<br>CALEB                                            | 3,089,615 | FORHUBER, FRIEDRICH                                                                | 3,089,413 |
| EDITAS MEDICINE, INC.               | 3,089,843 | FAN, SHIGANG                                                           | 3,089,819 | FORTRESS CYBER SECURITY,<br>LLC                                                    | 3,089,745 |
| EDWARDS, CAROLYN                    | 3,089,419 | FANDEL, JOSEPH J.                                                      | 3,089,245 | FOSS, JOSEPH                                                                       | 3,088,872 |
| EDWARDS, CATHRINA H.                | 3,089,296 | FANG, LAN                                                              | 3,089,243 | FOURNIE ZALUSKI, MARIE<br>CLAUDE                                                   | 3,089,350 |
| EHRBRECHT, BERND                    | 3,088,990 | FARRAR, REBEKAH L                                                      | 3,089,488 | FOURNIER, GREGORY                                                                  | 3,089,858 |
| EIDAM, HILARY SCHENCK               | 3,089,666 | FAUTEUX, PHILIPPE                                                      | 3,089,155 | FOWLER-WATTERS,<br>MATTHEW                                                         | 3,089,276 |
| EKSER, BURCIN                       | 3,089,840 | FAYADAT-DILMAN,<br>LAURENCE                                            | 3,089,721 | FRANKEL, MICHAEL Y.                                                                | 3,089,138 |
| EKSTRAND, PER                       | 3,089,632 | FEAVER, AARON                                                          | 3,089,585 | FRAUNHOFER<br>GESELLSCHAFT ZUR<br>FOERDERUNG DER<br>ANGEWANDTEN<br>FOERSCHUNG E.V. | 3,089,184 |
| EL-KADY, MAHER F.                   | 3,089,753 | FEHR, MARCUS                                                           | 3,088,722 | FRAUNHOFER-<br>GESELLSCHAFT ZUR<br>FORDERUNG DER<br>ANGEWANDTEN<br>FORSCHUNG E.V.  | 3,089,550 |
| EL-KARZAZI, NADIA                   | 3,089,434 | FEINSON, ROY                                                           | 3,089,830 | FRAYSSE, DAMIEN                                                                    | 3,089,762 |
| ELAHI, SARMA                        | 3,089,086 | FELSTAIN, EYAL                                                         | 3,089,145 | FRAYSSE, DAMIEN                                                                    | 3,089,769 |
| ELECTRICSANDS LTD                   | 3,089,297 | FENG, YUZHEN                                                           | 3,089,243 | FRAZIER, W. LYNN                                                                   | 3,089,387 |
| ELECTRONIC CAREGIVER,<br>INC.       | 3,089,312 | FEREIDOUNI, FARZAD                                                     | 3,089,228 | FREDERICK, BRIAN TROY                                                              | 3,089,868 |
| ELGAMAL, HAYTHAM                    | 3,089,194 | FERGUSON, DANA                                                         | 3,089,760 | FRIEBE, MICHAEL                                                                    | 3,089,744 |
| ELHAJJ, IMAD H.                     | 3,089,851 | FERGUSON, TODD R.                                                      | 3,089,573 | FRIEDRICH, MICHAEL                                                                 | 3,089,681 |
| ELLEGARD, KATRINE HVID              | 3,089,673 | FERMANIUK, BRENT D.                                                    | 3,082,227 | FRISCHMANN, LUTZ                                                                   | 3,089,376 |
| ELLERMAN, DIEGO                     | 3,089,287 | FERNANDEZ, CARLOS                                                      | 3,089,240 | FRTSCHI, STEFAN                                                                    | 3,089,306 |
| ELLIOT, SARAH SCHULTHEIS            | 3,089,135 | FERNANDEZ, JAVIER DEL<br>RIO                                           | 3,089,200 | FROHNER, JORG                                                                      | 3,089,164 |
| ELLIS, JONATHAN D.                  | 3,089,482 | FERNANDEZ-MONTALVAN,<br>ERNESTO AMAURY                                 | 3,089,754 | FROLUND, BENTE                                                                     | 3,089,161 |
| ELLIS, PETER R.                     | 3,089,296 | FERRARA, NAPOLEONE                                                     | 3,089,481 | FROMONT-HANKARD,<br>GAELLE                                                         | 3,089,406 |
| ELSAYED, YEHYA A.                   | 3,089,266 | FERRERA, NAPOLEONE                                                     | 3,089,481 | FRONTERA U.S.<br>PHARMACEUTICALS LLC                                               | 3,089,527 |
| EMDAD, LUNI                         | 3,089,231 | FERRERA, NAPOLEONE                                                     | 3,089,481 | FROSELL, THOMAS JULES                                                              | 3,089,730 |
| EMERGEX, LLC                        | 3,089,830 | FERRERA, NAPOLEONE                                                     | 3,089,481 | FU, QILIN                                                                          | 3,089,305 |
| EMERSON ELECTRIC CO.                | 3,089,615 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| EMMERSON, GORDON                    | 3,089,811 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENDOCYTE, INC.                      | 3,089,051 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENERG2 TECHNOLOGIES,<br>INC.        | 3,089,585 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENERGY WALL LLC                     | 3,089,216 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENGELMAN, ZOAR JACOB                | 3,089,217 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENO, MEREDITH SUZANNE               | 3,089,762 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| ENO, MEREDITH SUZANNE               | 3,089,769 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |
| EPLLEE, DUSTIN                      | 3,089,216 | FERRERA, NAPOLEONE                                                     | 3,089,481 |                                                                                    |           |

## Index des demandes PCT entrant en phase nationale

|                        |           |                         |           |                          |           |
|------------------------|-----------|-------------------------|-----------|--------------------------|-----------|
| FUCHS, GUILLAUME       | 3,089,550 | GIULIANO, CLAUDIO       | 3,089,440 | GREINER BIO-ONE GMBH     | 3,089,519 |
| FUENTES, ANTONIO       | 3,089,325 | GK8 LTD                 | 3,089,206 | GRETHER, UWE             | 3,089,443 |
| FUGRO N.V.             | 3,089,158 | GLAXOSMITHKLINE         |           | GREVEN, SIMONE           | 3,089,754 |
| FUJIFILM CORPORATION   | 3,089,728 | INTELLECTUAL            |           | GRIFFIN, WESTON BLAINE   | 3,089,788 |
| FUJIMOTO CO., LTD.     | 3,089,553 | PROPERTY                |           | GRIFFING, MATTHEW CHASE  | 3,089,262 |
| FUJINO, YOSUKE         | 3,089,696 | DEVELOPMENT LIMITED     | 3,089,666 | GRILLET, AUGUSTIN VICTOR |           |
| FUJITA, HAJIME         | 3,089,460 | GLENCAL TECHNOLOGY CO., |           | LOUIS                    | 3,089,311 |
| FUJITA, HAJIME         | 3,089,502 | LTD.                    | 3,089,521 | GRINSTED, GARY A.        | 3,089,232 |
| FUKUMOTO, HIROYUKI     | 3,089,696 | GLISMANN, KLAUS         | 3,089,282 | GRODY, CHARLES DYLAN     | 3,089,208 |
| FUNG, LARRY SIU-KUEN   | 3,089,578 | GLOBAL LIFE SCIENCES    |           | GROEBKE ZBINDEN, KATRIN  | 3,089,443 |
| FURLOTTI, GUIDO        | 3,089,552 | SOLUTIONS USA LLC       | 3,089,788 | GROTE, THOMAS            | 3,088,722 |
| FURNISS, JUSTIN        | 3,089,765 | GLUE TEC                |           | GROTH, SAKINA            | 3,089,646 |
| FURNISS, JUSTIN        | 3,089,766 | INDUSTRIEKLEBSTOFFE     |           | GRUBER, MATHIEU SIMON    |           |
| FURTWENGLER, PIERRE    | 3,089,173 | GMBH & CO. KG           | 3,089,353 | PAUL                     | 3,089,694 |
| FUSE, SHINSAKU         | 3,089,183 | GOBBI, LUCA             | 3,089,443 | GRUBER, SARAH            | 3,089,191 |
| G.C. HOYLE COMPANY LLC | 3,089,468 | GODELU, MARINE          | 3,089,708 | GRUNDL, LENA-MARIA       | 3,089,434 |
| G.C. HOYLE COMPANY LLC | 3,089,812 | GODFROID, EDMOND        | 3,089,358 | GRUTER, GERARDUS         |           |
| GABRIEL, MICHAEL       |           | GOERTZ, MATTHEW P.      | 3,089,207 | JOHANNES MARIA           | 3,089,777 |
| RICHARD                | 3,089,270 | GOERTZ, MATTHEW P.      | 3,089,252 | GS ELEKTROMEDIZINISCHE   |           |
| GAGNON, RENEE          | 3,089,760 | GOERTZ, MATTHEW P.      | 3,089,266 | GERAETE G. STEMPEL       |           |
| GAHROOSI, AMIR BAHADOR | 3,089,818 | GOLCHERT, URSULA        | 3,089,528 | GMBH                     | 3,088,990 |
| GAHTORI, AVIJIT        | 3,089,234 | GOLDSMITH, JOEL         | 3,089,729 | GU, FENG                 | 3,089,703 |
| GALAXY THERAPEUTICS    |           | GONG, GUOCHUN           | 3,089,331 | GUAINAZZI, ANGELO        | 3,089,440 |
| INC.                   | 3,089,132 | GONZALEZ-PENA, VERONICA | 3,089,756 | GUANGDONG HUARUN         |           |
| GALETTO, ROMAN ARIEL   | 3,089,318 | GOODDOCTOR              |           | PAINTS CO., LTD          | 3,089,819 |
| GALLOTTO, RAFFAELLO    | 3,089,699 | PHARMACEUTICAL          |           | GUANGDONG OPPO MOBILE    |           |
| GAO, SHENGFU           | 3,089,524 | GROUP CO., LTD.         | 3,089,268 | TELECOMMUNICATIONS       |           |
| GARCIA RUBIO, SILVINA  | 3,089,440 | GOOSE, STUART           | 3,089,306 | CORP., LTD.              | 3,089,382 |
| GARCIA, ARTURO         | 3,089,642 | GOPALAKRISHNAN,         |           | GUANGDONG OPPO MOBILE    |           |
| GARGAC, SHAWN M.       | 3,089,708 | MURALIDHARAN            | 3,088,395 | TELECOMMUNICATIONS       |           |
| GATZWEILER, ELMAR      | 3,089,286 | GOTTE, HUBERT           | 3,089,744 | CORP., LTD.              | 3,089,503 |
| GAWAD, CHARLES         | 3,089,756 | GOUDON, VALERIE         | 3,089,599 | GUENTHER, THOMAS         |           |
| GEA AGUILERA, FERNANDO | 3,089,694 | GOUDON, VALERIE         | 3,089,611 | ANDREAS                  | 3,089,509 |
| GEHRIG, UWE            | 3,089,457 | GOULD, JOEL             | 3,089,465 | GUGGULOTU, KRISHNA       | 3,089,209 |
| GEIGER, GUNNAR         | 3,089,444 | GOULD, MATTHEW V.       | 3,089,818 | GUI, BIN                 | 3,089,159 |
| GELANYI, LASZLO        | 3,089,424 | GOYAL, MAYANK           | 3,089,759 | GUILLEMETTE, JONATHAN    | 3,089,752 |
| GELFAND, MARK          | 3,089,217 | GOYENECHÉ, SERGIO F.    | 3,089,193 | GUILLEMIN, KAREN         | 3,089,707 |
| GEMMITI, CLAUDIO       | 3,089,225 | GOZZI, CHRISTIAN        | 3,089,539 | GUNTHER, DIETMAR         | 3,089,339 |
| GEN-PROBE INCORPORATED | 3,089,277 | GRACE BREEDING          |           | GUNTHER, HOPPE           | 3,089,532 |
| GENC, AYSE             | 3,089,261 | NITROGEN FIXATION       |           | GUNTHER, JUDITH          | 3,089,754 |
| GENENTECH, INC.        | 3,089,287 | TECHNOLOGIES LTD.       | 3,089,128 | GUPTA, ANU               | 3,089,566 |
| GENG, FUNENG           | 3,089,268 | GRAHAM, JAMES           | 3,089,682 | GUPTA, ANU               | 3,089,630 |
| GENG, YUEFEI           | 3,089,268 | GRAINCHAIN, INC.        | 3,089,144 | GURIN, ELIZABETH         | 3,089,836 |
| GENTALÉN, ERIK         | 3,089,842 | GRAINSENSE OY           | 3,089,690 | GURIN, ELIZABETH         | 3,089,837 |
| GENZYME CORPORATION    | 3,089,602 | GRAMMENOS, WASSILIOS    | 3,088,722 | GUYAUX, MICHEL           | 3,089,358 |
| GEOMNI, INC.           | 3,089,200 | GRANN, ERIC             | 3,089,850 | GUYER, CURT D.           | 3,089,740 |
| GEORGE, JOSEPH         | 3,089,723 | GRANT, PETER            | 3,089,833 | GUYVORONSKIY, VALERIY    | 3,089,215 |
| GEORGE, PAUL HUBERT    |           | GRANT, PETER            | 3,089,871 | HAAF, KLAUS BERNHARD     | 3,089,286 |
| ANDRE                  | 3,089,311 | GRAPHIC PACKAGING       |           | HAAK, ANDREW J.          | 3,089,864 |
| GEOX S.P.A.            | 3,089,458 | INTERNATIONAL, LLC      | 3,089,724 | HAERLE, STEPHAN          | 3,089,198 |
| GERASHCHENKO, IGOR     | 3,089,352 | GRASSET, FABIEN         | 3,089,442 | HAGEMANN, MICHAEL        | 3,089,149 |
| GERLETT, CATHY ANN     | 3,088,420 | GRASSLANZ TECHNOLOGY    |           | HAGHIGHI, NAVA           | 3,089,831 |
| GEUZE, MARIJN JESPER   | 3,089,735 | LIMITED                 | 3,089,560 | HAGIHARA, MASAHIKO       | 3,089,183 |
| GHANI, SANA            | 3,089,492 | GRASSLANZ TECHNOLOGY    |           | HAGMAN, WADE JOSEPH      | 3,076,936 |
| GHIDO, FLORIN          | 3,089,550 | LIMITED                 | 3,089,565 | HAHN-SCHICKARD-          |           |
| GIANETTI, GIUSEPPE     | 3,089,376 | GRAUPE, MICHAEL         | 3,089,590 | GESELLSCHAFT FUER        |           |
| GIBSON, JARETT         | 3,089,838 | GRAY, JOHN MICHAEL      | 3,089,642 | ANGEWANDTE               |           |
| GIBSON, NEIL           | 3,089,478 | GRAY, NATHANAEL S.      | 3,089,588 | FORSCHUNG E.V.           | 3,088,990 |
| GIL SENA REGO, PEDRO   | 3,089,700 | GREEN SPACE CO., LTD.   | 3,089,551 | HAINAN XUANZHU PHARMA    |           |
| GILBERT, NEIL          | 3,089,760 | GREEN, MICHAEL JOHN     | 3,089,134 | CO., LTD.                | 3,089,243 |
| GILEAD SCIENCES, INC.  | 3,089,590 | GREENBERG, ADAM PHILLIP |           | HAJI REZA, PARSIN        | 3,089,693 |
| GILL, AMRINDER SINGH   | 3,089,283 | TAKLA                   | 3,089,725 | HALDOR TOPSOE A/S        | 3,089,417 |
| GIMERSKY, MARTIN       | 3,089,340 | GREENFIELD, MATTHEW     | 3,089,863 | HALE, MEAGAN             | 3,089,337 |
| GIROTTO, CLAUDIO       | 3,089,271 | GREGER, JAMES G.        | 3,089,174 | HALITSCHKE, RAYKO        | 3,089,378 |

## Index of PCT Applications Entering the National Phase

|                                   |           |                                                                                         |           |                                                        |           |
|-----------------------------------|-----------|-----------------------------------------------------------------------------------------|-----------|--------------------------------------------------------|-----------|
| HALLIBURTON ENERGY SERVICES, INC. | 3,089,143 | HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF - INSTITUTE OF RADIOPHARMACEUTICAL CANCER RESEARCH | 3,089,300 | HOWARD, JUSTIN                                         | 3,089,595 |
| HALLIBURTON ENERGY SERVICES, INC. | 3,089,262 | HELFINN HEALTHCARE SA                                                                   | 3,089,440 | HOYLE, GARY C.                                         | 3,089,468 |
| HALLIBURTON ENERGY SERVICES, INC. | 3,089,730 | HENDRIKS, ROB JACOB                                                                     | 3,088,725 | HOYLE, GARY C.                                         | 3,089,812 |
| HALLIBURTON ENERGY SERVICES, INC. | 3,089,808 | HENEGHAN, PAUL                                                                          | 3,089,782 | HOZESKA-SOLGOT, ANN                                    | 3,089,825 |
| HAMMER, STEFANIE                  | 3,089,754 | HENNEPIN HEALTHCARE SYSTEM, INC.                                                        | 3,089,124 | HSU, JOHN                                              | 3,089,073 |
| HAMPAPURAM, HARI                  | 3,089,642 | HENNESSY, EDWARD                                                                        | 3,089,117 | HU, TAISHAN                                            | 3,089,688 |
| HAN, JIN WOO                      | 3,089,727 | HENNING, ROBERT K.                                                                      | 3,089,643 | HU, YONGHAN                                            | 3,089,150 |
| HAN, NAM SOO                      | 3,089,551 | HENNING, RYAN G.                                                                        | 3,089,643 | HUA, HAIQING                                           | 3,089,246 |
| HANCOCK, CHRISTOPHER PAUL         | 3,089,677 | HENRY, BRENT DAVID                                                                      | 3,089,669 | HUA, XUANDONG T.                                       | 3,089,356 |
| HANCOCK, ROBERT                   | 3,089,485 | HEPAREGENIX GMBH                                                                        | 3,089,678 | HUANG, CAIHONG                                         | 3,089,344 |
| HANEY, EVAN                       | 3,089,485 | HERCE, HENRY D.                                                                         | 3,089,279 | HUANG, DANIEL                                          | 3,089,439 |
| HANNIG, HANS-JURGEN               | 3,084,654 | HERMONI, OFER                                                                           | 3,089,145 | HUANG, HAO                                             | 3,089,260 |
| HANSEN, DENNIS JUL                | 3,089,443 | HERR, QUENTIN P.                                                                        | 3,088,950 | HUANG, HUA                                             | 3,089,524 |
| HANSEN, JON D.                    | 3,089,557 | HERRE, JURGEN                                                                           | 3,089,550 | HUANG, LAN                                             | 3,089,226 |
| HANSEN, JON D.                    | 3,089,623 | HERRICK, ROBERT                                                                         | 3,089,585 | HUANG, LAN                                             | 3,089,391 |
| HANSEN, JON D.                    | 3,089,624 | HESSE, KERSTIN                                                                          | 3,089,275 | HUANG, PETER QINHUA                                    | 3,089,746 |
| HANSEN, JON D.                    | 3,089,629 | HEXCEL CORPORATION                                                                      | 3,089,811 | HUANG, SHAOPENG                                        | 3,089,721 |
| HANZLIK, JASON                    | 3,089,189 | HEYDARSHAHY, SEYED ALI                                                                  | 3,089,514 | HUANG, SHAOQIANG                                       | 3,089,150 |
| HARADA, TAKASHI                   | 3,089,183 | HIGUCHI, MINE                                                                           | 3,089,180 | HUBERGROUP ITALIA                                      | 3,089,376 |
| HARD METALS AUSTRALIA PTY LIMITED | 3,089,514 | HIJAZI, ABD ALRAUF                                                                      | 3,089,175 | HUGHES NETWORK SYSTEMS, LLC                            | 3,089,109 |
| HARDT IP B.V.                     | 3,089,735 | HILCHIE, ASHLEY                                                                         | 3,089,485 | HULLENKREMER, FELIX                                    | 3,084,654 |
| HARI, RAVI                        | 3,089,327 | HILL, CHARLES                                                                           | 3,089,364 | HUME, DAVID EDWARD                                     | 3,089,560 |
| HARLEY-TROCHIMCZYK, ANNA CLAIRE   | 3,089,212 | HILL, SANDRA                                                                            | 3,089,296 | HUNDT, MATTHEW                                         | 3,089,489 |
| HARMENING, THOMAS                 | 3,089,438 | HILTI AKTIENGESSELLSCHAFT                                                               | 3,089,793 | HUNG, GENE                                             | 3,089,527 |
| HARRIS, PAUL VINCENT              | 3,089,135 | HIMMELSTEIN, RENE                                                                       | 3,089,191 | HUNT, CHARLEEN                                         | 3,089,331 |
| HARRIS, WILLIAM                   | 3,089,251 | HINDALEKAR, SHIRANG                                                                     | 3,089,381 | HUNTING TITAN, INC.                                    | 3,089,125 |
| HARRIS, WILLIAM                   | 3,089,253 | HINDALEKAR, SHIRANG                                                                     | 3,089,374 | HUSOY, ODDGEIR                                         | 3,089,437 |
| HARRIS, WILLIAM                   | 3,089,274 | HINES, PAUL STEVEN                                                                      | 3,089,201 | HUXLIN, KRISTEL R.                                     | 3,089,482 |
| HARRIS, WILLIAM                   | 3,089,292 | HITCHING, AMI                                                                           | 3,089,172 | HYDRAZE, INC.                                          | 3,089,208 |
| HARROLD, JONATHAN                 | 3,089,476 | HITCHINGS, WILLIAM                                                                      | 3,089,583 | HYDROSIDE SYSTEMS LLC                                  | 3,089,846 |
| HARROLD, JONATHAN                 | 3,089,477 | HOANG, CHUONG                                                                           | 3,089,396 | I.V.A.R. S.P.A.                                        | 3,089,546 |
| HART, BARRY PATRICK               | 3,089,134 | HOCHFIELD, BARRY                                                                        | 3,089,807 | IACOANGELI, TOMMASO                                    | 3,089,552 |
| HART, JAMES PATRICK               | 3,089,765 | HOFFMANN, HELLA-FRANZISKA                                                               | 3,089,692 | IBBETSON, JAMES                                        | 3,089,271 |
| HART, JAMES PATRICK               | 3,089,766 | HOFSTETTER, ELAD                                                                        | 3,089,720 | IBEX BIOSCIENCES, LLC                                  | 3,089,731 |
| HARTFORD, SUZANNE                 | 3,089,331 | HOGUE, STEPHEN G.                                                                       | 3,089,117 | ICON BIOSCIENCE, INC.                                  | 3,088,420 |
| HATCHER, JOHN                     | 3,089,588 | HOGLUND, ANDREAS                                                                        | 3,089,142 | ICS INNOVATION LLC                                     | 3,089,636 |
| HAUFF, JOHN W.                    | 3,089,637 | HOLLAND, DAVID                                                                          | 3,089,158 | IDEAL INDUSTRIES LIGHTING LLC                          | 3,089,271 |
| HAUSER, BRADLY G.                 | 3,089,207 | HOLLAND, RACHEL MARIE                                                                   | 3,089,385 | IHDE, JEFFREY R.                                       | 3,089,810 |
| HAUSER, BRADLY G.                 | 3,089,252 | HOLLIS, HARBY CARTER                                                                    | 3,089,615 | IHI CORPORATION                                        | 3,089,738 |
| HAUSER, BRADLY G.                 | 3,089,266 | HOLST, MARCO                                                                            | 3,089,353 | IKEDA, RYOSUKE                                         | 3,089,738 |
| HAVANSI, HANNELE                  | 3,089,794 | HOMAN, ERIC                                                                             | 3,089,723 | ILCA, FLORIN TUDOR                                     | 3,089,154 |
| HAYMAN, LIRON                     | 3,089,285 | HOME DEPOT INTERNATIONAL, INC.                                                          | 3,089,209 | ILLANES MANRIQUEZ, ALFREDO GUILLERMO                   | 3,089,744 |
| HAYWARD INDUSTRIES, INC.          | 3,089,858 | HOMOLOGY MEDICINES, INC.                                                                | 3,089,824 | ILLES CSOK ES TARSA KFT                                | 3,089,425 |
| HBV PRODUCTION BV                 | 3,089,141 | HONEYWELL INTERNATIONAL INC.                                                            | 3,089,233 | ILLES CSOK, ANNA                                       | 3,089,425 |
| HE, FENG                          | 3,089,159 | HONG, CHAO                                                                              | 3,089,529 | ILLIANO, STEPHANE                                      | 3,089,657 |
| HEAGERTY, DAVID                   | 3,089,591 | HOOPER, DOUGLAS CRAIG                                                                   | 3,089,583 | ILLINOIS TOOL WORKS INC.                               | 3,089,201 |
| HEDRICH, FRANK                    | 3,088,990 | HOOVER, KATHRYN                                                                         | 3,089,501 | ILLINOIS TOOL WORKS INC.                               | 3,089,242 |
| HEGDE, SAYEE GAJANAN              | 3,089,746 | HOPKINS, CHAD DANIEL                                                                    | 3,089,746 | ILLINOIS TOOL WORKS INC.                               | 3,089,810 |
| HEILING, SVEN                     | 3,089,378 | HORI, RYUJI                                                                             | 3,089,304 | ILLINOIS TOOL WORKS INC.                               | 3,089,852 |
| HEIM, EBERHARD                    | 3,089,202 | HORIGUCHI, TOMOYUKI                                                                     | 3,089,185 | ILLINOIS TOOL WORKS INC.                               | 3,089,857 |
| HEINTZMAN, NATHANIEL DAVID        | 3,089,642 | HORNSPERGER, BENOIT                                                                     | 3,089,443 | ILLUMINONICS INC.                                      | 3,089,693 |
| HELLSTROM, STEFAN                 | 3,089,674 | HORROCKS, CRAIG                                                                         | 3,089,858 | IMAO, TAKAKO                                           | 3,089,706 |
|                                   |           | HOSOKOSHIYAMA, HIROSHI                                                                  | 3,089,544 | IMAO, TAKAKO                                           | 3,089,741 |
|                                   |           | HOULTON, JOSHUA MACDONALD                                                               | 3,089,161 | IMAX CORPORATION                                       | 3,089,103 |
|                                   |           |                                                                                         |           | IMPACT SOLUTIONS AS                                    | 3,089,437 |
|                                   |           |                                                                                         |           | IMVAX, INC.                                            | 3,089,583 |
|                                   |           |                                                                                         |           | INCYTE CORPORATION                                     | 3,089,832 |
|                                   |           |                                                                                         |           | INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION | 3,089,840 |

## Index des demandes PCT entrant en phase nationale

|                                                           |           |                                                    |           |                            |           |
|-----------------------------------------------------------|-----------|----------------------------------------------------|-----------|----------------------------|-----------|
| INDIGO TECHNOLOGIES, INC.                                 | 3,089,620 | JEONG, WOONG KI                                    | 3,089,563 | KALESSIOS, KONSTANTINOS    | 3,089,434 |
| INGENITO, RAFFAELE                                        | 3,089,657 | JEPSON, LAUREN HRUBY                               | 3,089,642 | KALIDINDI, SANYASI         | 3,089,695 |
| INGEVITY SOUTH                                            |           | JESSOP, ISRAEL JAMES                               | 3,089,328 | KAMATH, APURV ULLAS        | 3,089,642 |
| CAROLINA, LLC                                             | 3,089,245 | JI, QINGZHOU                                       | 3,089,323 | KAMITANI, HIROKI           | 3,089,461 |
| INNEOS, LLC                                               | 3,089,850 | JIA, HAIQUN                                        | 3,089,653 | KAMIYAMA, FUMIO            | 3,089,513 |
| INNOTECH ALBERTA INC.                                     | 3,076,936 | JIANG, JIAHUA                                      | 3,089,260 | KAMOUN, AURELIE            | 3,089,406 |
| INOVIO PHARMACEUTICALS, INC.                              | 3,089,717 | JIANG, RUI JING                                    | 3,089,342 | KANAOKA, DAIKI             | 3,089,553 |
| INSERM (INSTITUT DE LA SANTE ET DE LA RECHERCHE MEDICALE) | 3,089,406 | JIANG, TIANGUI                                     | 3,089,494 | KANDIL, MUSTAPHA           | 3,089,742 |
| INSMED INCORPORATED                                       | 3,089,240 | JIANG, YAN                                         | 3,089,797 | KANER, RICHARD B.          | 3,089,753 |
| INSTIL BIO (UK) LIMITED                                   | 3,089,294 | JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.      | 3,089,246 | KANKANALA, JAYAKANTH       | 3,089,592 |
| INSTITUT GUSTAVE-ROUSSY                                   | 3,089,140 | JIANGSU HENGRUI MEDICINE CO., LTD.                 | 3,089,159 | KANNAR, DAVID              | 3,089,823 |
| INSTITUTO PORTUGUES DE ONCOLOGIA DO PORTO FG, EPE         | 3,089,300 | JIANGSU HENGRUI MEDICINE CO., LTD.                 | 3,089,260 | KAO, BRANDON WEI-HSIANG    | 3,089,342 |
| INSULCLOUD, S.L.                                          | 3,089,420 | JIFFY INTERNATIONAL AS                             | 3,089,582 | KAPOOR, VIJAY K.           | 3,089,207 |
| INTABIO, INC.                                             | 3,089,842 | JIMENEZ QUINTANA, ESTHER ANTONIA                   | 3,089,366 | KAPOOR, VIJAY K.           | 3,089,252 |
| INTELLISPORTS INC.                                        | 3,089,752 | JIN, BOHAN                                         | 3,089,527 | KAPOOR, VIJAY K.           | 3,089,266 |
| INTUIT INC.                                               | 3,087,964 | JIN, PENGDI                                        | 3,089,797 | KARADUMAN, AHMET SERHAT    | 3,089,261 |
| INTUIT INC.                                               | 3,089,223 | JOCKSCH, ADAM PAUL                                 | 3,089,363 | KARLIN, MICHAEL JOSEPH     | 3,089,731 |
| INTUIT INC.                                               | 3,089,270 | JODI, WIJADI                                       | 3,089,207 | KARLIN, MICHAEL JOSEPH     | 3,089,830 |
| INTUIT INC.                                               | 3,089,285 | JODI, WIJADI                                       | 3,089,266 | KARPOVA, TATJANA           | 3,089,794 |
| INTUIT INC.                                               | 3,089,325 | JOE, WESLEY CHUNG                                  | 3,089,740 | KASHEF, MOJTABA            | 3,089,836 |
| INTUIT INC.                                               | 3,089,327 | JOHNSON III, ARTHUR W.                             | 3,089,858 | KASHEF, MOJTABA            | 3,089,837 |
| IONOGEN INC.                                              | 3,089,249 | JOHNSON, GAVEN                                     | 3,089,679 | KASSABOV, ROUMEN           | 3,089,745 |
| IOTECHA CORP.                                             | 3,089,472 | JOHNSON, GAVEN                                     | 3,089,685 | KATAKOWSKI, MARK           | 3,089,825 |
| IRIE, KOJI                                                | 3,089,521 | JOHNSON, JAMES R.                                  | 3,089,232 | KATOH, KENJI               | 3,089,738 |
| ISCHEMICURE LTD.                                          | 3,089,554 | JOHNSON, MATTHEW LAWRENCE                          | 3,089,642 | KATSUDA, HAJIME            | 3,089,696 |
| ISHAM, STEPHEN                                            | 3,089,603 | JOHNSON, RICHARD                                   | 3,089,613 | KATTINGER, GERHARD         | 3,088,990 |
| ISHII, TAKAFUMI                                           | 3,089,553 | JOHNSON, RICHARD DAVID                             | 3,089,560 | KATZ, ARIEL MIKHAEL        | 3,089,830 |
| ISKANDAR, JOSEPH                                          | 3,089,836 | JOHNSON, RICHARD DAVID                             | 3,089,565 | KEELEY, DAVID W.           | 3,089,312 |
| ISKANDAR, JOSEPH                                          | 3,089,837 | JOHNSON, TIM                                       | 3,089,329 | KELCH, GERHARD             | 3,088,829 |
| ISO, YOSHIYUKI                                            | 3,089,738 | JOHNSON, TIM                                       | 3,089,354 | KELLER, BERND P.           | 3,089,271 |
| IUNU, INC.                                                | 3,089,725 | JOHNSTON, JOSHUA                                   | 3,089,595 | KELLER, DAVID A.           | 3,089,212 |
| IZAWA, SHINYA                                             | 3,089,732 | JONES, DEREK O.                                    | 3,089,266 | KELLER, RANDY              | 3,089,042 |
| J-OIL MILLS, INC.                                         | 3,089,304 | JONES, GREGORY DEAN                                | 3,089,248 | KELLOGG COMPANY            | 3,089,723 |
| J. D. NEUHAUS HOLDING GMBH & CO. KG                       | 3,089,166 | JONGENELEN, MANDY ANTONIA CATHARINA                | 3,089,177 | KELLOGG, HOWARD D.         | 3,089,726 |
| J. D. NEUHAUS HOLDING GMBH & CO. KG                       | 3,089,171 | JONGSMA, ARNOUD MARC                               | 3,089,199 | KELLY, BRIAN               | 3,089,579 |
| JACKSON, JEFFREY J.                                       | 3,089,380 | JONGSMA, ARNOUD MARC                               | 3,089,205 | KELLY, SHAZIA              | 3,089,762 |
| JACOBSON, BENJAMIN A.                                     | 3,089,271 | JOSHI, HEMANT                                      | 3,089,666 | KEMIRA OYJ                 | 3,089,794 |
| JAEGERS, WOLFGANG                                         | 3,089,550 | JOST, MAUD                                         | 3,089,804 | KENNEDY, BRIAN GEORGE      | 3,089,415 |
| JAFFEL, HAMOUNDA                                          | 3,089,457 | JOZWIAK, SYLWIA                                    | 3,089,682 | KENNEDY, BRIAN GEORGE      | 3,089,418 |
| JANAVICIUS, PAUL VALDAS                                   | 3,089,283 | JUAN, VERONICA                                     | 3,089,721 | KENNEDY, ERIC MILES        | 3,089,658 |
| JANKU, FILIP                                              | 3,089,728 | JUDKINS, PAUL                                      | 3,089,103 | KENT, JOSEPH               | 3,089,129 |
| JANSSEN BIOTECH, INC.                                     | 3,089,174 | JUNG, JAE SEOB                                     | 3,089,853 | KENT, JOSEPH               | 3,089,758 |
| JANSSEN VACCINES & PREVENTION B.V.                        | 3,089,177 | JUNGNICKEL, UWE                                    | 3,089,321 | KENT, TREVOR               | 3,089,428 |
| JANTZI, JASON WAYNE                                       | 3,089,363 | JUNGNICKEL, UWE                                    | 3,089,326 | KERANOVA                   | 3,089,446 |
| JAPAN CASH MACHINE CO., LTD.                              | 3,089,732 | JUNTILLA, TEEMU T.                                 | 3,089,287 | KERANOVA                   | 3,089,449 |
| JAPAN TOBACCO INC.                                        | 3,089,460 | JURIST, DANA M.                                    | 3,089,719 | KERSBULCK, MARTIJN         | 3,089,777 |
| JAPAN TOBACCO INC.                                        | 3,089,502 | JUSTEL, REBECCA                                    | 3,089,149 | KESKAR, VANDANA            | 3,089,788 |
| JAUNET, LAURENT                                           | 3,089,158 | JUUL LABS, INC.                                    | 3,089,613 | KESKINIVA, MARKKU          | 3,089,247 |
| JEANFILS, JULIEN                                          | 3,089,182 | KAARTO, JOHN KALEVI                                | 3,089,703 | KETCHAM, JOHN MICHAEL      | 3,089,380 |
| JEFFERIS, RYAN                                            | 3,089,603 | KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) | 3,089,506 | KETCHAM, JOHN MICHAEL      | 3,089,639 |
| JEFFERYS, KIRSTEN                                         | 3,089,579 | KAINOS MEDICINE INC.                               | 3,089,310 | KEYS, ROBERT G.            | 3,089,719 |
| JENNY, CHRISTIAN                                          | 3,089,688 | KAJITA, MARCOS SUGURU                              | 3,089,221 | KHAN, M. AMIN              | 3,089,559 |
| JENSEN, MICHAEL C.                                        | 3,089,051 | KAJITA, MARCOS SUGURU                              | 3,089,335 | KHAN, M. AMIN              | 3,089,561 |
| JENSEN, MICHAEL C.                                        | 3,089,319 | KALANTARI, MASOUD                                  | 3,089,329 | KHAN, MIRAJUDDIN RIAZUDDIN | 3,089,466 |
| JEONG, JAE HAK                                            | 3,089,563 | KALANTARI, MASOUD                                  | 3,089,354 | KHAN, SHIREEN              | 3,089,721 |
|                                                           |           |                                                    |           | KHOMAMI ABADI, MOJTABA     | 3,089,818 |
|                                                           |           |                                                    |           | KHOSROWPOUR, ARDALAN       | 3,089,307 |
|                                                           |           |                                                    |           | KIDMAN, BEAU               | 3,089,603 |
|                                                           |           |                                                    |           | KILJUNEN, SAMANTHA         | 3,089,794 |
|                                                           |           |                                                    |           | KIM, JI WON                | 3,089,563 |
|                                                           |           |                                                    |           | KIM, JISOO                 | 3,089,187 |
|                                                           |           |                                                    |           | KIM, JUN-HYEONG            | 3,089,187 |

## Index of PCT Applications Entering the National Phase

|                        |           |                          |                         |           |
|------------------------|-----------|--------------------------|-------------------------|-----------|
| KIM, NA YOUNG          | 3,089,139 | L'AIR LIQUIDE, SOCIETE   | LEONARD, GEORGE         | 3,089,119 |
| KIM, YONG MAN          | 3,089,853 | ANONYME POUR             | LEONARD, JACQUES        | 3,089,598 |
| KING'S COLLEGE LONDON  | 3,089,296 | L'ETUDE ET               | LEONG, MAN YEE          | 3,089,730 |
| KING, CHRISTOPHER      |           | L'EXPLOITATION DES       | LEUNG, MARK S.          | 3,089,217 |
| HAROLD                 | 3,089,249 | PROCEDES GEORGES         | LEUNG, MICHAEL          | 3,089,271 |
| KING, MATTHEW CHARLES  | 3,089,725 | CLAUDE                   | LEURS, ULRIKE           | 3,089,161 |
| KITCHEL, ERIC          | 3,089,870 | L'AIR LIQUIDE, SOCIETE   | LEVENSON, RICHARD M.    | 3,089,228 |
| KITOU, SATORU          | 3,089,820 | ANONYME POUR             | LEVINE, SHERRI          | 3,089,827 |
| KIZIAK, CHRISTOPH      | 3,089,682 | L'ETUDE ET               | LI, CHUN                | 3,089,157 |
| KJOERLING, KRISTOFER   | 3,089,632 | L'EXPLOITATION DES       | LI, DAPENG              | 3,089,378 |
| KLAUSNITZER, SYLVIA    | 3,089,376 | PROCEDES GEORGES         | LI, HAIYING             | 3,089,494 |
| KLEIN, ANDERS BUE      | 3,089,161 | CLAUDE                   | LI, JIAYAO              | 3,089,590 |
| KLICHE, KURT           | 3,088,990 | L'OREAL                  | LI, JINYAN              | 3,089,837 |
| KLIMANIS, GINTS        | 3,089,571 | L2W LIMITED              | LI, QIONGZHEN           | 3,089,333 |
| KLOOSTER, RINSE        | 3,089,722 | LACE                     | LI, YAMIN               | 3,089,826 |
| KLOVEKORN, PHILIP      | 3,089,678 | LACE                     | LI, YAO                 | 3,089,527 |
| KNAPP, DANTE LEE       | 3,089,619 | LAFATA, GREGORY A.       | LI, YONGWU              | 3,089,650 |
| KNAUER, WILLIAM        | 3,089,488 | LAI, NORMAN ZHENNAN      | LI, ZHEN                | 3,089,276 |
| KNEGTEL, RONALD        | 3,089,762 | LAIRD, MICHAEL           | LI, ZHI                 | 3,089,584 |
| KNEGTEL, RONALD        | 3,089,769 | LALIENA IRANZO, CARLOS   | LIANG, JUI-WEI          | 3,089,256 |
| KNOX, WAYNE            | 3,089,482 | LAMBERTH, JACOB T.       | LIBERG, OLOF            | 3,089,142 |
| KNUDSEN, LARS          | 3,089,531 | LAMESH, LIOR             | LIDGETT, JUSTIN MERRILL | 3,089,133 |
| KO, GWANG PYO          | 3,089,187 | LAMME, SASCHA            | LIFECCELL CORPORATION   | 3,089,328 |
| KOBAYASHI, HIROSHI     | 3,089,549 | LANDIS+GYR INNOVATIONS,  | LIGONESCHE, RENAUD      | 3,089,487 |
| KOBENHAVNS UNIVERSITET | 3,089,161 | INC.                     | LIGUE NATIONALE CONTRE  |           |
| KOBIOLABS, INC         | 3,089,187 | LANE, MICHAEL ARON       | LE CANCER               | 3,089,406 |
| KOCER, BUELENT         | 3,089,443 | LANG, JENNA MORGAN       | LIMA, LUIS CARLOS       |           |
| KOEHLER, KATHERINE     |           | LANG, WILLIAMS           | OLIVEIRA                | 3,089,300 |
| YERRE                  | 3,089,642 | LANGEDIJK, JOHANNES      | LIN, TONG-HO            | 3,089,256 |
| KOGLER, RENE           | 3,089,528 | PETRUS MARIA             | LINDAL FRANCE SAS       | 3,089,451 |
| KOGURE, MASAKO         | 3,089,534 | LANGENBACH, WILLIAM      | LINDSEY, QUENTIN        | 3,089,606 |
| KONDO, DAI             | 3,089,185 | LANGERMANN, SOLOMON      | LINDSEY, QUENTIN        | 3,089,627 |
| KONECRANES GLOBAL      |           | LANGFORD, DALE           | LINDSEY, QUENTIN        | 3,089,628 |
| CORPORATION            | 3,089,448 | LANT, NEIL JOSEPH        | LIPPERT, JOHN A.        | 3,089,737 |
| KOOGER, BAUKE JAN      | 3,089,735 | LANT, NEIL JOSEPH        | LISNR, INC.             | 3,089,488 |
| KOSTELECKY, THOMAS     |           | LASANG, PONGSAK          | LISNYAK, GENNADIY       | 3,089,215 |
| MICKAEL                | 3,089,558 | LAST, SARAH              | LIU, DAVID              | 3,089,868 |
| KOWALCZYK, MATTHEW     | 3,089,176 | LATIMER, ANTHONY         | LIU, GUIZHONG           | 3,089,795 |
| KOWALCZYK, PETER       | 3,089,176 | LAU, NOLAN Y T           | LIU, HAILING            | 3,089,454 |
| KOYAMA, TATSUYA        | 3,089,181 | LAUFER, STEFAN           | LIU, HONGWEI            | 3,089,467 |
| KRAMB, KEVAN           | 3,089,317 | LAUN, LYLE               | LIU, HUI                | 3,089,746 |
| KRANZ, LENA            | 3,089,784 | LAURENZI, BRENDAN        | LIU, LEI                | 3,089,524 |
| KRAUS, JULIAN          | 3,089,164 | LAVERACK, JOHN R.        | LIU, LINDA              | 3,089,469 |
| KREITER, SEBASTIAN     | 3,089,784 | LAVERACK, JOHN R.        | LIU, MINGYUE            | 3,089,704 |
| KRISHNA MURTHY,        |           | LAVIN, ALBERT            | LIU, MINGYUE            | 3,089,768 |
| BHAVANASI              | 3,089,537 | LAW, KATHERINE ROSE      | LIU, PINGLI             | 3,089,832 |
| KRISHNAMURTHY, SAIRAM  | 3,089,695 | LAWRENCE, DAVID CHAD     | LIU, SUXIA              | 3,089,246 |
| KRIVEGA, IVAN          | 3,089,587 | LAWSON, RICHARD          | LIU, XIAO               | 3,089,150 |
| KROLL, CARSTEN         | 3,089,443 | LAWSON, ROLAND           | LIU, YAN                | 3,089,344 |
| KRON, BENJAMIN         | 3,089,585 | LEAMON, CHRISTOPHER P.   | LIU, YAN-FEI            | 3,089,660 |
| KRUIP, MARCEL          | 3,089,806 | LEAMON, CHRISTOPHER      | LIU, YANG               | 3,089,704 |
| KRUPNIK, PIOTR         | 3,089,166 | PAUL                     | LIU, YANG               | 3,089,768 |
| KRÆMER, JON            | 3,089,195 | LEE, JAE MOON            | LIU, ZHEN               | 3,089,788 |
| KUCH, FABIAN           | 3,089,550 | LEE, JUNE-CHUL           | LIU, ZUGUO              | 3,089,344 |
| KUGLER, MICHAEL        | 3,089,444 | LEE, MATTHEW RANDOLPH    | LK INNOVATIONS, LLC     | 3,089,641 |
| KUHL, KENDRA           | 3,089,119 | LEESE, MARK JOHN         | LLANEZA, PEDRO P.       | 3,089,641 |
| KUHN, BERND            | 3,089,443 | LEGG, JAMES              | LLOYD, GEORGE KENNETH   | 3,089,226 |
| KULTANEN, TERO         | 3,089,448 | LEI, MAOYI               | LLOYD, GEORGE KENNETH   | 3,089,391 |
| KUMAR, ASHWIN          | 3,089,729 | LEIMKUEHLER, WILLIAM J., | LML LIMITED             | 3,089,332 |
| KUPATT, CHARLES        |           | JR.                      | LO, WENDY               | 3,089,557 |
| CHRISTIAN              | 3,089,258 | LEISNER, CHRISTIAN       | LO, WENDY               | 3,089,623 |
| KUSHNIR, ALON          | 3,089,713 | VALDEMAR VINGE           | LO, WENDY               | 3,089,624 |
| KUSHNIR, IGAL          | 3,089,713 | LEKISPORT AG             | LO, WENDY               | 3,089,629 |
| KUTZER, HANS PETER     | 3,089,194 | LELY PATENT N.V.         | LOCAL MOTORS IP, LLC    | 3,089,364 |



## Index des demandes PCT entrant en phase nationale

|                                      |           |                                                               |           |                                                    |           |
|--------------------------------------|-----------|---------------------------------------------------------------|-----------|----------------------------------------------------|-----------|
| LOCKHEED MARTIN CORPORATION          | 3,089,716 | MAHADESHWAR, ANAND RAMACHANDRA                                | 3,089,492 | MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH | 3,089,864 |
| LOEBIG, SCOTT                        | 3,089,829 | MAHLERT, CHRISTOPH                                            | 3,089,754 | MAYOU, PHIL                                        | 3,089,642 |
| LOGVINOV, OLEG                       | 3,089,472 | MAI, JASON HOANG                                              | 3,089,125 | MCBRIDE, PATRICK WILE                              | 3,089,642 |
| LOHMANN, JAN KLAAS                   | 3,088,722 | MAIER, ANNA                                                   | 3,089,683 | MCCARTHY, ROBERT D.                                | 3,089,137 |
| LOKAWAY PTY LTD                      | 3,089,486 | MAJLESSI, MEHRDAD R.                                          | 3,089,277 | MCCORMACK, DAMIEN                                  | 3,089,084 |
| LOMBANA, TWYLA NOELLE                | 3,089,287 | MAJUMDER, POULAMI                                             | 3,089,396 | MCDONALD, CONOR                                    | 3,089,838 |
| LOMELI, KEVIN                        | 3,089,613 | MAK, GENEVIEVE                                                | 3,089,646 | MCFADDEN, STEVEN                                   | 3,089,345 |
| LONZA LTD                            | 3,089,682 | MAKER, GARETH THOMAS                                          | 3,089,698 | MCGALE, ERICA                                      | 3,089,378 |
| LOPEZ SANCHEZ PASCUALA, JOSE LUIS    | 3,089,420 | MAKITA, NARUTO                                                | 3,089,304 | MCKAY, BENJAMIN                                    | 3,089,777 |
| LORBERBAUM, MARK                     | 3,089,618 | MALCOLM, GRAEME PETER ALEXANDER                               | 3,089,698 | MCKINNEY, JOSEPH                                   | 3,089,221 |
| LORD CORPORATION                     | 3,089,841 | MALLART, SERGIO                                               | 3,089,657 | MEANEY, TODD E.                                    | 3,089,345 |
| LORENTE ALGORA, DIEGO                | 3,089,237 | MALYSHEV, DENIS                                               | 3,089,267 | MELLENDEZ, ANGEL GUIJARRO                          | 3,089,200 |
| LOTO LABS, INC.                      | 3,089,863 | MANDEL, DAVID                                                 | 3,089,241 | MENEZES, MITCHELL E.                               | 3,089,231 |
| LOTT, WILIAM ARDEN                   | 3,089,638 | MANILOFF, ERIC                                                | 3,089,138 | MENG, DELUN                                        | 3,089,157 |
| LOUREIRO, LILIANA RAQUEL RODRIGUES   | 3,089,300 | MAQ AB                                                        | 3,089,305 | MENG, QINGMIN                                      | 3,089,797 |
| LOW, PHILIP S.                       | 3,089,319 | MARAINI, DANIEL                                               | 3,089,591 | MENKE, CHRISTOPH                                   | 3,088,829 |
| LOW, PHILIP STEWART                  | 3,089,051 | MARBACH, RALF                                                 | 3,089,690 | MENSINGER, MICHAEL ROBERT                          | 3,089,642 |
| LOWES, THEODORE D.                   | 3,089,271 | MARCHERAS, DIMITRI                                            | 3,089,452 | MENTZEL, TOBIAS                                    | 3,088,722 |
| LOWRIE, JEFFREY                      | 3,089,484 | MARCKS, COLTER A.                                             | 3,089,207 | MERCK PATENT GMBH                                  | 3,089,762 |
| LSI SOLUTIONS, INC.                  | 3,089,814 | MARCKS, COLTER A.                                             | 3,089,266 | MERCK PATENT GMBH                                  | 3,089,769 |
| LU, BIAO                             | 3,089,159 | MARCON, CHRISTIAN                                             | 3,089,458 | MERCK SHARP & DOHME CORP.                          | 3,089,721 |
| LU, DONGBIN                          | 3,089,524 | MARKARIAN, MICHAEL                                            | 3,089,497 | MERRON, MATTHEW JAMES                              | 3,089,143 |
| LU, THEA                             | 3,087,253 | MARKERT, MARY LOUISE                                          | 3,089,593 | MESSAI, NADHIR                                     | 3,089,452 |
| LU, YINGJUAN J.                      | 3,089,319 | MARS, INCORPORATED                                            | 3,089,817 | MESSINA, LOUIS M.                                  | 3,089,562 |
| LU, YINGJUAN JUNE                    | 3,089,051 | MARSH-SACHS, EMMANUEL H.                                      | 3,089,470 | METCALF ARCHAEOLOGICAL CONSULTANTS, INC.           | 3,089,619 |
| LUCHAU, JEREMY                       | 3,089,325 | MARSON, ALAN                                                  | 3,089,296 | METER, TJITZE                                      | 3,089,384 |
| LUCIER, MICHAEL J.                   | 3,089,197 | MARTIN, ANDREW H.                                             | 3,089,133 | METZGER, ANDREW                                    | 3,089,862 |
| LUNSMANN, WALTER J.                  | 3,089,712 | MARTINEZ ESPIN, JUAN SALVADOR                                 | 3,089,417 | MEYER, DAVID M.                                    | 3,088,423 |
| LUO, PETER PEIZHI                    | 3,089,795 | MARTINEZ GARCIA, MIGUEL                                       | 3,089,220 | MEYNIEL, GUILLAUME                                 | 3,089,665 |
| LUO, TONGHUI                         | 3,089,254 | MARTINEZ-LOI, MARIELLE                                        | 3,089,440 | MEYNIEL, GUILLAUME                                 | 3,089,668 |
| LUO, YUNFU                           | 3,089,414 | MARX, MATTHEW ARNOLD                                          | 3,089,639 | MG STROKE ANALYTICS INC.                           | 3,089,759 |
| LYNRED                               | 3,089,379 | MASILAMANI, ASHOK PRABHU                                      | 3,089,818 | MI, BAO                                            | 3,089,221 |
| M SQUARED LASERS LIMITED             | 3,089,698 | MASON, ANDREW FELIX                                           | 3,089,595 | MI, BAO                                            | 3,089,335 |
| MA, JIN                              | 3,089,262 | MASSE, DANIEL                                                 | 3,089,137 | MICHOS, DEMETRIUS                                  | 3,089,703 |
| MA, RUI                              | 3,089,212 | MASUDA, KOJI                                                  | 3,089,498 | MICROBIOGEN PTY. LTD.                              | 3,089,135 |
| MA, SICHAO                           | 3,089,119 | MATHISEN, CARL GUNNAR HORN                                    | 3,089,422 | MICUCCI, MAURILIO                                  | 3,089,188 |
| MA, XIUYING                          | 3,089,268 | MATSCHKE, STEFFEN                                             | 3,089,397 | MIDY, CHRISTOPHE                                   | 3,089,280 |
| MACALUSO, MICHAEL J.                 | 3,089,472 | MATSUBAYASHI, AKIHIRO                                         | 3,089,183 | MIDY, OLIVIER JOEL                                 | 3,089,280 |
| MACDONALD, DOUGLAS BRUCE             | 3,089,615 | MATSUSHITA, KENYA                                             | 3,089,553 | MIHARA, TAKA AKI                                   | 3,089,185 |
| MACDONALD, ROBERT JOHN CUMMINGS      | 3,089,646 | MATTEI, PATRIZIO                                              | 3,089,688 | MIKAMI, SUMITAKA                                   | 3,089,642 |
| MACDONALD, ROBERT LEE                | 3,082,229 | MATTES, BENJAMIN F.                                           | 3,089,752 | MILDER, FERDINAND JACOBUS                          | 3,089,177 |
| MACHETTIRA, ANU BHEEMAI AH           | 3,089,286 | MATTHAEI, JAMES                                               | 3,089,051 | MILLER, CHRIS                                      | 3,089,298 |
| MACIAS, LUIS                         | 3,089,144 | MATTHAEI, JAMES                                               | 3,089,319 | MILLER, DANFORTH                                   | 3,089,439 |
| MACK, SCOTT                          | 3,089,842 | MATTHEWS, JAMES                                               | 3,089,221 | MILLER, JEFFREY C.                                 | 3,089,587 |
| MACKNESS, BRIAN                      | 3,089,602 | MATTHEWS, JAMES                                               | 3,089,335 | MILLER, LAWRENCE G.                                | 3,089,712 |
| MACPHAIL, WARREN                     | 3,089,354 | MAUL KONSTRUKTIONEN GMBH                                      | 3,089,805 | MILLER, MICHAEL                                    | 3,089,844 |
| MADDON, PAUL                         | 3,089,848 | MAUL, HANS-ERICH                                              | 3,089,805 | MIMICTEC PTY LTD                                   | 3,089,661 |
| MADSEN, MIKE J.                      | 3,089,252 | MAUPIN, MEGHAN                                                | 3,089,831 | MINCON NORDIC OY                                   | 3,089,247 |
| MAGHRABI, SHADAAB S.                 | 3,089,245 | MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V. | 3,089,378 | MINERAL CARBONATION INTERNATIONAL PTY LTD          | 3,089,658 |
| MAGIC LEAP, INC.                     | 3,089,316 | MAXIMATOR GMBH                                                | 3,089,191 | MINOLETTI-HOCHEPIED, CLAIRE                        | 3,089,657 |
| MAGIC LEAP, INC.                     | 3,089,645 | MAYER, CHRISTINA                                              | 3,089,174 | MIRATI THERAPEUTICS, INC.                          | 3,089,639 |
| MAGIC LEAP, INC.                     | 3,089,646 | MAYER, MARGIT                                                 | 3,089,539 | MISSION PRODUCT HOLDINGS, INC.                     | 3,089,483 |
| MAGNAN, PATRICE                      | 3,089,770 |                                                               |           |                                                    |           |
| MAGNUM OIL TOOLS INTERNATIONAL, LTD. | 3,089,387 |                                                               |           |                                                    |           |
| MAGOTTI, PAOLA                       | 3,089,657 |                                                               |           |                                                    |           |

## Index of PCT Applications Entering the National Phase

|                                        |           |                                            |           |                                                  |           |
|----------------------------------------|-----------|--------------------------------------------|-----------|--------------------------------------------------|-----------|
| MIT ENTWICKLUNGS GMBH                  | 3,089,429 | MYHREN, FINN                               | 3,089,673 | NICOLIN, ADRIANO                                 | 3,089,376 |
| MITSUBISHI HITEC PAPER<br>EUROPE GMBH  | 3,089,434 | MYLES, COLIN KELLY                         | 3,089,042 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,251 |
| MIZUGUCHI, KAZUMA                      | 3,089,460 | MYLES, J. SCOTT                            | 3,089,042 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,253 |
| MIZUGUCHI, KAZUMA                      | 3,089,502 | MYLONAS, JIM                               | 3,089,751 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,274 |
| MIZUTANI, YASUHIKO                     | 3,089,553 | NADAL ROURA, XAVIER                        | 3,089,490 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,292 |
| MJ STEWART INVESTMENTS,<br>LLC         | 3,089,315 | NADOLNY, SYLVIE                            | 3,089,446 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,292 |
| MOCHALKIN, IGOR                        | 3,089,762 | NAG, ABHIKESH                              | 3,089,829 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,457 |
| MOCHALKIN, IGOR                        | 3,089,769 | NAGAI, NOBUHIKO                            | 3,089,820 | NICOVENTURES TRADING<br>LIMITED                  | 3,089,339 |
| MOCHEV, STEFAN                         | 3,089,800 | NAGARAJAN, NIRANJANA<br>ADITI              | 3,089,318 | NIEDERMAIR, FABIAN                               | 3,089,456 |
| MODERNATX, INC.                        | 3,089,117 | NAGL, CHRISTOPH                            | 3,089,191 | NIEMEN, MIKE                                     | 3,088,138 |
| MODERNPACK HOPPE GMBH                  | 3,089,532 | NAHUM, URI                                 | 3,089,198 | NIKANDROV, KONSTANTIN                            | 3,089,461 |
| MODOSCRIPTE LLC                        | 3,089,541 | NAKAGAMI, HIROYUKI                         | 3,089,515 | NIMMAGADDA, SRIDHAR                              | 3,089,461 |
| MOHANLAL, RAMON                        | 3,089,226 | NAKAISHI, MASAHITO                         | 3,089,521 | NIPPON STEEL<br>CORPORATION                      | 3,089,461 |
| MOHANLAL, RAMON                        | 3,089,391 | NAKARMI, PRAJWOL KUMAR                     | 3,089,100 | NIPPON TELEGRAPH AND<br>TELEPHONE<br>CORPORATION | 3,089,696 |
| MOHR, DANA CLIFFORD                    | 3,089,846 | NALL, NICOLE M.                            | 3,089,655 | NIPRO CORPORATION                                | 3,089,515 |
| MOHR, SHARON ELIZABETH                 | 3,089,846 | NAM, TAE-WOOK                              | 3,089,187 | NISBET, IAN                                      | 3,089,151 |
| MOLAUG, ANDERS                         | 3,089,570 | NANJING LEGEND BIOTECH<br>CO., LTD.        | 3,089,512 | NKMAX CO., LTD.                                  | 3,089,853 |
| MOLAUG, KNUT                           | 3,089,570 | NANODROPPER, INC.                          | 3,089,474 | NOIMARK, SACHA                                   | 3,089,265 |
| MOLAUG, OLE                            | 3,089,570 | NARDI S.P.A.                               | 3,089,699 | NOLAN, DANIEL JOSEPH                             | 3,089,324 |
| MOLECULIGHT INC.                       | 3,089,345 | NARDI, GIAMPIETRO                          | 3,089,699 | NOREV DPK, LLC                                   | 3,089,828 |
| MOLINARO, KATHERINE J.                 | 3,089,557 | NATCO PHARMA LIMITED                       | 3,089,537 | NORRIS, MARK                                     | 3,089,841 |
| MOLINARO, KATHERINE J.                 | 3,089,623 | NATIONAL RESEARCH<br>COUNCIL OF CANADA     | 3,089,816 | NORTH, KIRI                                      | 3,089,762 |
| MOLINARO, KATHERINE J.                 | 3,089,624 | NATIONAL UNIVERSITY<br>CORPORATION TOTTORI | 3,089,565 | NORTH, KIRI                                      | 3,089,769 |
| MOLINARO, KATHERINE J.                 | 3,089,629 | NATIONAL UNIVERSITY<br>UNIVERSITY          | 3,089,565 | NORTHROP GRUMMAN<br>SYSTEMS CORPORATION          | 3,088,950 |
| MONACO, LUIGI                          | 3,089,776 | NATIONAL UNIVERSITY OF<br>SINGAPORE        | 3,089,167 | NORTON (WATERFORD)<br>LIMITED                    | 3,089,428 |
| MONSEES, JAMES                         | 3,089,613 | NATIONAL UNIVERSITY OF<br>SINGAPORE        | 3,089,170 | NOUI-MEHIDI, MOHAMED<br>NABIL                    | 3,089,710 |
| MONTEMURRO, MICHAEL<br>PETER           | 3,089,363 | NATREON, INC.                              | 3,089,695 | NOVARTIS AG                                      | 3,089,439 |
| MONTOYA, ANDREA ISABEL                 | 3,089,646 | NAU, STEFAN                                | 3,089,528 | NOVEK, ETHAN J.                                  | 3,089,610 |
| MONTOYA-GONI, AMAIA                    | 3,089,703 | NAVE, BARBARA                              | 3,089,374 | NOVIKOV, TIMOFEI                                 | 3,089,364 |
| MOORE, MICHAEL L.                      | 3,089,212 | NAVE, BARBARA                              | 3,089,381 | NOVO, CARLOS MANUEL<br>MENDES                    | 3,089,300 |
| MORAVEC, DAVIS B.                      | 3,089,207 | NAVEEN KRISHNA,<br>YALAMANCHALLI           | 3,089,537 | NOVOZYMES A/S                                    | 3,089,135 |
| MORAVEC, DAVIS B.                      | 3,089,252 | NCC NANO, LLC                              | 3,088,725 | NOVOZYMES A/S                                    | 3,089,337 |
| MORAVEC, DAVIS B.                      | 3,089,266 | NCS MULTISTAGE INC.                        | 3,089,329 | NR ELECTRIC CO., LTD                             | 3,089,524 |
| MORIEUX, PIERRE                        | 3,089,484 | NCS MULTISTAGE INC.                        | 3,089,354 | NR ELECTRIC CO., LTD.                            | 3,089,494 |
| MORO, LEONARDO MARIO                   | 3,089,552 | NE INNOVATIONS LIMITED                     | 3,089,415 | NR ENGINEERING CO., LTD                          | 3,089,524 |
| MORRIS, ERIC L.                        | 3,089,314 | NE INNOVATIONS LIMITED                     | 3,089,418 | NR ENGINEERING CO., LTD.                         | 3,089,494 |
| MORTIMORE, MICHAEL                     | 3,089,762 | NEERINCX, ANDREAS<br>HEINRICH              | 3,089,154 | NUTRAE, LLC                                      | 3,089,763 |
| MOSER, PASCAL                          | 3,089,654 | NELSON, ADAM                               | 3,089,337 | NUTRITION SCIENCE DESIGN<br>PTE. LTD             | 3,089,823 |
| MOSHKOV, SERGEI                        | 3,089,430 | NELSON, SEAN A.                            | 3,089,716 | NUVATION BIO INC.                                | 3,089,592 |
| MOSSE, CHARLES<br>ALEXANDER            | 3,089,265 | NEMEH, ISSAM                               | 3,089,241 | NYLACAST LTD                                     | 3,089,084 |
| MOTUS X, PLLC                          | 3,089,302 | NEMERA LA VERPILLIERE                      | 3,089,672 | NYSEN, PETER                                     | 3,089,863 |
| MOURRE, CHRISTIANE                     | 3,089,598 | NEMERA LA VERPILLIERE                      | 3,089,676 | NZEADIBE, IHI                                    | 3,089,850 |
| MOURTADA, RIDA                         | 3,089,279 | NEMERA LA VERPILLIERE                      | 3,089,684 | O'KEEFFE, LUCY                                   | 3,089,782 |
| MOUSAVI, MIR FAZLOLLAH                 | 3,089,753 | NEMERA LA VERPILLIERE                      | 3,089,785 | O'NEILL, WILLIAM                                 | 3,089,585 |
| MU, NAN                                | 3,089,221 | NENOV, DEJAN                               | 3,089,745 | OAKES, BRYCE                                     | 3,089,739 |
| MU, NAN                                | 3,089,335 | NESS, DANIEL                               | 3,089,149 | OAKS, JOSHUA                                     | 3,089,649 |
| MUELLER, BERND                         | 3,088,722 | NESVADBA, PETER                            | 3,089,374 | OBUCHOWICZ, JACEK                                | 3,089,296 |
| MUHAMMAD-TAHIR, ZARINI                 | 3,089,723 | NESVADBA, PETER                            | 3,089,381 | OCEAN FLOOR GEOPHYSICS<br>INC.                   | 3,089,176 |
| MULHAUSER, PAUL                        | 3,089,309 | NETFLIX, INC.                              | 3,089,584 | OETIKER SCHWEIZ AG                               | 3,089,654 |
| MULTI-FAMILY BUILDING<br>PRODUCTS INC. | 3,089,558 | NEW-FOOD INNOVATION<br>LTD                 | 3,089,296 | OGAWA, TOSHIYA                                   | 3,089,272 |
| MULTRUS, MARKUS                        | 3,089,550 | NEWCOMB, ANNA                              | 3,089,579 | OGGENFUSS, CHRISTIAN                             | 3,089,386 |
| MUNOZ, IVIS                            | 3,089,328 | NEXTCURE, INC.                             | 3,089,469 | OHARA, HIDEKI                                    | 3,089,549 |
| MURATORE, AGNES                        | 3,089,442 | NICHOLS, MATTHEW<br>TAYLOR                 | 3,089,143 | OKADA, MEGUMI                                    | 3,089,706 |
| MURDOCK, JAMES                         | 3,089,858 | NICOLESCU, CORNEL-MIHAI                    | 3,089,305 | OKADA, MEGUMI                                    | 3,089,741 |
| MURPHY, BRUCE                          | 3,089,782 |                                            |           |                                                  |           |
| MURRAY & POOLE<br>ENTERPRISES, LTD     | 3,089,781 |                                            |           |                                                  |           |
| MUTHUMANI, KAR                         | 3,089,717 |                                            |           |                                                  |           |
| MUTORU, JANE W.                        | 3,089,719 |                                            |           |                                                  |           |

## Index des demandes PCT entrant en phase nationale

|                                                                 |           |                                         |           |                                             |           |
|-----------------------------------------------------------------|-----------|-----------------------------------------|-----------|---------------------------------------------|-----------|
| OKANO, AKINORI                                                  | 3,089,380 | PAVAN, BHAT                             | 3,089,537 | POPUGAEV, ALEXANDER                         | 3,089,184 |
| OKSENDAL, ATLE                                                  | 3,089,422 | PAVLINA, ERIK JAMES                     | 3,089,283 | PORAS, HERVE                                | 3,089,350 |
| OLDCASTLE                                                       |           | PDI THERAPEUTICS, INC.                  | 3,089,478 | PORICHIS, FILIPPOS                          | 3,089,762 |
| BUILDINGENVELOPE,<br>INC.                                       | 3,089,838 | PEDERSEN, SKOU FINN                     | 3,089,371 | PORICHIS, FILIPPOS                          | 3,089,769 |
| OLIPHANT, ARNOLD                                                | 3,089,267 | PEEK, JAMES                             | 3,089,236 | POTHI, TEJAS                                | 3,089,374 |
| OLSON, ERIK C.                                                  | 3,089,557 | PELENC, DENIS                           | 3,089,599 | POTHI, TEJAS                                | 3,089,381 |
| OLSON, ERIK C.                                                  | 3,089,623 | PELENC, DENIS                           | 3,089,611 | POTTER, MARK                                | 3,089,251 |
| OLSON, ERIK C.                                                  | 3,089,624 | PELLEGRIN, LAURENT                      | 3,089,156 | POTTER, MARK                                | 3,089,253 |
| OLSON, ERIK C.                                                  | 3,089,629 | PEOPLE CO., LTD.                        | 3,089,534 | POTTER, MARK                                | 3,089,274 |
| OLSON, WILLIAM                                                  | 3,088,194 | PEPE, GREGORY                           | 3,089,844 | POTTER, MARK                                | 3,089,292 |
| OMNIOME, INC.                                                   | 3,089,267 | PERDON, ALICIA ANTONIO                  | 3,089,723 | POTUCEK, KEVIN                              | 3,089,858 |
| ONCOIMMUNE, INC.                                                | 3,089,704 | PEREIRA, EDGARD LUIS<br>RAMOS           | 3,089,132 | POUDEL, PRABAL                              | 3,089,744 |
| ONCOIMMUNE, INC.                                                | 3,089,768 | PERETZ, ASHER                           | 3,077,659 | POURHASSAN, NADER                           | 3,089,848 |
| ONLYDETAILS, S.L.                                               | 3,089,280 | PEREZ RODRIGUEZ, MARCOS                 | 3,085,250 | PRADES GARCIA, JUAN<br>DANIEL               | 3,089,330 |
| ONO PHARMACEUTICAL CO.,<br>LTD.                                 | 3,089,722 | PERFETTINI, JEAN LUC                    | 3,089,140 | PRADHAN, ANJAN K.                           | 3,089,231 |
| OPERR TECHNOLOGIES, INC.                                        | 3,089,748 | PERICAT, DAVID                          | 3,089,598 | PRAEFKE, BENT                               | 3,089,678 |
| OPUS-12 INCORPORATED                                            | 3,089,119 | PERKINELMER HEALTH<br>SCIENCES, INC.    | 3,089,347 | PRANGSGAARD, JEANETTE                       | 3,089,790 |
| ORTHOSOFT ULC                                                   | 3,089,218 | PERKINELMER<br>INFORMATICS, INC.        | 3,089,484 | PRASAD, MAHENDRA<br>FULESHWAR               | 3,089,363 |
| OSOFSKY, MICHAEL S.                                             | 3,089,491 | PERKINS, GREG                           | 3,089,870 | PRC-DESOTO<br>INTERNATIONAL, INC.           | 3,089,314 |
| OSUCH, ISOBEL                                                   | 3,089,419 | PERRIN, REMI                            | 3,089,173 | PRENDERGAST, PAUL                           | 3,089,428 |
| OTAGO INNOVATION LTD                                            | 3,089,161 | PETIGNY, ROGER                          | 3,089,379 | PRESIDENT AND FELLOWS<br>OF HARVARD COLLEGE | 3,089,373 |
| OUEIDAT, GHASSAN                                                | 3,089,851 | PETROVIC, ALEKSANDER                    | 3,089,303 | PRESTEL, SEBASTIEN JEAN<br>LAURENT          | 3,089,160 |
| OUIMET, TANJA                                                   | 3,089,350 | PETTIT, DAVID E                         | 3,089,340 | PRESTIGIACOMO, JOSEPH C.                    | 3,089,491 |
| OVERLY, TIMOTHY G. S.                                           | 3,089,317 | PETTY, SCOTT                            | 3,089,858 | PRICE, NICOLA KAYE                          | 3,089,294 |
| O'HARA, FIONN                                                   | 3,089,443 | PEYER, HEINZ                            | 3,089,355 | PRINCE, DANIEL PAUL                         | 3,089,488 |
| P.V. FLOOD CONTROL CORP.                                        | 3,089,813 | PEZARIS, PETER                          | 3,089,714 | PRINCE, MILES                               | 3,089,151 |
| PAGES, ALICE                                                    | 3,089,160 | PEZOLD, SIMON                           | 3,089,198 | PRINOTH S.P.A.                              | 3,089,301 |
| PAI, SUBRAI GIRISH                                              | 3,089,642 | PFIZER INC.                             | 3,089,318 | PROBISEARCH, S.L.U                          | 3,089,366 |
| PAINE, MICHELLE NI                                              | 3,089,703 | PHAM VAN, DUNG                          | 3,089,142 | PROCON ANALYTICS, LLC                       | 3,088,423 |
| PAL, ANDREW ATTILA                                              | 3,089,642 | PHAM, JIMMYKIM                          | 3,089,277 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,123 |
| PALIWAL, SUNIL                                                  | 3,089,746 | PHAM, SON, MINH                         | 3,089,592 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,129 |
| PALMA, MARIA ANGELINA<br>DE SA                                  | 3,089,300 | PHANES THERAPEUTICS,<br>INC.            | 3,089,649 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,758 |
| PALMISANO, MARILENA                                             | 3,089,803 | PHANES THERAPEUTICS,<br>INC.            | 3,089,653 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,799 |
| PAN, WEIMING                                                    | 3,089,524 | PHARMALEADS                             | 3,089,350 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,868 |
| PAN, ZHONGZONG                                                  | 3,089,795 | PHARMASCIENCE INC.                      | 3,089,742 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,815 |
| PANASONIC INTELLECTUAL<br>PROPERTY<br>CORPORATION OF<br>AMERICA | 3,089,181 | PHILLIPS, JEFFREY JAMES                 | 3,089,838 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,703 |
| PANESCU, DORIN                                                  | 3,089,217 | PHOENIX INNOVATION KFT.                 | 3,089,424 | PROGRESSIVE<br>INTERNATIONAL<br>CORPORATION | 3,089,592 |
| PANOV, VILI                                                     | 3,089,224 | PHOTON TECHNOLOGY<br>(KUNSHAN) CO., LTD | 3,089,650 | PULLIN, ROBERT                              | 3,089,762 |
| PANOV, VILI                                                     | 3,089,687 | PHYTOPLANT RESEARCH S.L                 | 3,089,490 | PULLIN, ROBERT                              | 3,089,769 |
| PANOWSKI, SILER                                                 | 3,089,318 | PICCOLO, ORESTE                         | 3,080,012 | PULSIFER, ELI                               | 3,089,136 |
| PAPAKONSTANTINO, IOANNIS                                        | 3,089,265 | PICMONKEY, LLC                          | 3,089,833 | PUPA, PHILIP THOMAS                         | 3,089,642 |
| PAPAPETRIDIS, IOANNIS                                           | 3,089,799 | PICMONKEY, LLC                          | 3,089,871 | PURCELL, LISA                               | 3,089,377 |
| PARAMESWARAN,<br>POORNIMA                                       | 3,089,608 | PIETRA, CLAUDIO                         | 3,089,440 | PURCELL, LISA A.                            | 3,088,194 |
| PARCELL, JASON                                                  | 3,089,858 | PIGOTT, KARA                            | 3,089,583 | PURDUE RESEARCH<br>FOUNDATION               | 3,089,051 |
| PARISH-MORRIS, JULIA                                            | 3,089,597 | PINTUS, PIERRE                          | 3,089,676 | PURNHAGEN, HEIKO                            | 3,089,632 |
| PARK, SANG WOO                                                  | 3,089,853 | PINTUS, PIERRE                          | 3,089,684 | QIAN, CHEN                                  | 3,089,192 |
| PARK, YOON                                                      | 3,089,318 | PIREAU, VALERIE                         | 3,089,358 | QIANG, LIANG                                | 3,089,324 |
| PARLADI, FATMA<br>MUZEYYEN                                      | 3,089,261 | PLACELLA, SARAH                         | 3,089,608 | QIU, HUAWEI                                 | 3,089,602 |
| PASCAL, JEAN-PHILIPPE                                           | 3,089,362 | PLAS-FREE LTD.                          | 3,089,175 | QIU, HUI                                    | 3,089,769 |
| PASIERB, MICHAEL                                                | 3,089,528 | PLATT, ILANA DEBORAH                    | 3,089,225 | QUAN, YING-SHU                              | 3,089,513 |
| PASZICSNYEK, THOMAS                                             | 3,089,429 | POLEGATO MORETTI, MARIO                 | 3,089,458 | QUANTUM IMPACT, LLC                         | 3,089,042 |
| PATAT, OLIVIER                                                  | 3,089,362 | POLINSKE, BEAU                          | 3,089,571 |                                             |           |
| PATHELEN HEALTH CARE<br>AG                                      | 3,089,352 | POLLARD, LEVI ANDERSON                  | 3,089,828 |                                             |           |
| PATIL, RAHUL                                                    | 3,089,388 | POLYMEROPOULOS, MIHAEL<br>H.            | 3,089,238 |                                             |           |
|                                                                 |           | POLYTARIDIS, NICHOLAS                   | 3,089,642 |                                             |           |
|                                                                 |           | POMERLEAU, MING F.                      | 3,089,328 |                                             |           |
|                                                                 |           | POMPER, MARTIN G.                       | 3,088,138 |                                             |           |

## Index of PCT Applications Entering the National Phase

|                                   |           |                                                      |           |                                                  |           |
|-----------------------------------|-----------|------------------------------------------------------|-----------|--------------------------------------------------|-----------|
| QUE, XUCHU                        | 3,089,709 | REGENERON                                            |           | ROSENTHAL, COREY                                 | 3,089,624 |
| QUEEN'S UNIVERSITY AT KINGSTON    | 3,089,660 | PHARMACEUTICALS, INC.                                | 3,089,331 | ROSENTHAL, COREY                                 | 3,089,629 |
| QUINN, CONOR                      | 3,089,782 | REGENERON                                            |           | ROSINGER, CHRISTOPHER HUGH                       | 3,089,286 |
| QUINN, MARTIN                     | 3,089,782 | PHARMACEUTICALS, INC.                                | 3,089,377 | ROSSITER, WILLIAM S.                             | 3,089,207 |
| QUITMANN, ECKARD                  | 3,089,179 | REGENERON                                            |           | ROSSITER, WILLIAM S.                             | 3,089,266 |
| R2 MANUFACTURING LLC              | 3,089,643 | PHARMACEUTICALS, INC.                                | 3,089,655 | ROTH, MICHAEL                                    | 3,089,800 |
| RADE TECNOLOGIAS, S.L.            | 3,089,237 | REGO, JOSE M.                                        | 3,089,703 | ROTHSCHILD, PETER J.                             | 3,089,726 |
| RADIUS PHARMACEUTICALS, INC.      | 3,089,298 | REICHENBACH, ANITA                                   | 3,089,683 | ROUSSEAU, ALAIN                                  | 3,089,163 |
| RADZI, NOR FADILAH AHMAD          | 3,089,431 | REID, JOHN ANTHONY                                   | 3,089,822 | ROWE, CHRISTOPHER                                | 3,089,251 |
| RAHMATHULLAH, AFLAL               | 3,089,207 | REIERSSEN, HERALD                                    | 3,089,582 | ROWE, CHRISTOPHER                                | 3,089,253 |
| RAHMATHULLAH, AFLAL               | 3,089,252 | REIF, MENAHEM                                        | 3,089,720 | ROWE, CHRISTOPHER                                | 3,089,274 |
| RAHMATHULLAH, AFLAL               | 3,089,266 | REIHMAN, ELI                                         | 3,089,212 | ROWE, CHRISTOPHER                                | 3,089,292 |
| RAI U, SANKAPPA                   | 3,089,388 | REIHMAN, ELI                                         | 3,089,642 | ROWE, KYLE                                       | 3,089,364 |
| RAJGARHIA, STUTI S.               | 3,089,207 | REILLY, MAUREEN KAY                                  | 3,089,380 | ROWE, STEVEN                                     | 3,088,138 |
| RAJGARHIA, STUTI S.               | 3,089,252 | REINHARDT, ANDREW M.                                 | 3,089,212 | RUBIN, HILLARD                                   | 3,089,824 |
| RAJGARHIA, STUTI S.               | 3,089,266 | REINHARDT, SHELBY                                    | 3,087,253 | RUBIN, NOAH A.                                   | 3,089,373 |
| RAMAMURTHY, HARI                  | 3,089,209 | RENFREW, BRUCE                                       | 3,089,415 | RUBINOV, BORIS                                   | 3,089,436 |
| RAMAN, VINAY                      | 3,089,573 | RENFREW, BRUCE                                       | 3,089,418 | RUDOLF, GEORG CHRISTOPH RUEHLEN, NEVADA LORRAINE | 3,088,722 |
| RAMANAND, PRAKASH VALENTINO       | 3,089,235 | REPP, RICHARD                                        | 3,089,740 |                                                  | 3,089,595 |
| RAMJIT, AVINASH L.                | 3,089,214 | RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL | 3,089,080 | RUGGIERI, GIOVANNI                               | 3,089,188 |
| RAMOS, CARLOS A.                  | 3,089,667 | RGL RESERVOIR MANAGEMENT INC.                        | 3,082,227 | RUGGIERO, MARTINO                                | 3,089,664 |
| RAMOS-TIRADO, MARIA CRISTABEL     | 3,089,501 | RHEE, YONG-HEE                                       | 3,089,853 | RUHS, CHRISTOPH                                  | 3,089,275 |
| RAMOT AT TEL-AVIV UNIVERSITY LTD. | 3,077,659 | RICHARDSON, BRANDON MICHAEL                          | 3,089,865 | RUIZ-VALDEPENAS MARTIN DE ALMAGRO, LUIS          | 3,089,420 |
| RAMPF HOLDING GMBH & CO. KG       | 3,089,444 | RICHTER, PHILIPP ROBERT                              | 3,089,230 | RUTHERFORD, ALISTAIR                             | 3,089,762 |
| RAMPIN, MICHELE                   | 3,089,458 | RICHTER, HANS                                        | 3,089,443 | RYBICKI, STEVE                                   | 3,089,465 |
| RAMSEY, ROBERT A.                 | 3,089,476 | RIEDIGER, RALF                                       | 3,089,528 | S&C ELECTRIC COMPANY                             | 3,089,648 |
| RANALLI, GIUSEPPE                 | 3,089,188 | RIEDIGER, NADINE                                     | 3,088,722 | SAARINEN, PASI                                   | 3,089,100 |
| RAPP, SEBASTIAN                   | 3,089,301 | RIEHLMAN, TIMOTHY                                    | 3,089,655 | SABLIOV, CRISTINA                                | 3,089,264 |
| RAPT THERAPEUTICS, INC.           | 3,089,380 | RIEHM, GEORGE EDWARD                                 | 3,089,415 | SABNIS, STACI                                    | 3,089,117 |
| RASCH, MARKUS                     | 3,089,191 | RIEHM, GEORGE EDWARD                                 | 3,089,418 | SACHE, LAURENT                                   | 3,089,386 |
| RASHID, AMIR                      | 3,089,305 | RIEL, MICHAEL                                        | 3,089,781 | SAFRAN AIRCRAFT ENGINES                          | 3,089,160 |
| RATLIFF, MICHAEL                  | 3,089,317 | RIHA, DAVID                                          | 3,089,364 | SAFRAN AIRCRAFT ENGINES                          | 3,089,694 |
| RAUSIN, GLWADYS                   | 3,089,804 | RIMCHALA, THARATHORN                                 | 3,089,223 | SAHIN, UGUR                                      | 3,089,784 |
| RAVEN, ASHER LEONG                | 3,089,471 | RINGROSE, ALEXANDER                                  | 3,089,613 | SAI, TAO                                         | 3,089,318 |
| RAVENSBERGEN, JOHN                | 3,089,354 | RIOU, GEORGES JEAN XAVIER                            | 3,089,694 | SAINT-GOBAIN GLASS FRANCE                        | 3,089,727 |
| RAVID-HERMESH, ORIT               | 3,089,430 | RISUN OILFLOW SOLUTIONS INC.                         | 3,089,343 | SAINT-GOBAIN PLACO                               | 3,089,457 |
| RAVISHANKAR, CHANNASANDRA         | 3,089,109 | RITSCHER, TINA                                       | 3,089,177 | SAITO, ROLAND D.                                 | 3,089,590 |
| RAVNER, GIDON                     | 3,089,720 | ROBERT, MARTIN                                       | 3,089,443 | SAKAINO, MASAYOSHI                               | 3,089,304 |
| RAYSON, MARK STUART               | 3,089,658 | ROBERT, PATRICK                                      | 3,089,379 | SAKAMOTO, SHINGO                                 | 3,089,515 |
| RAYTHEON COMPANY                  | 3,089,637 | ROBINSON, MICHAEL G.                                 | 3,089,476 | SALEH, MAHDI                                     | 3,089,851 |
| REALD SPARK, LLC                  | 3,089,476 | ROBLES PEREZ, RUBEN                                  | 3,089,237 | SALISBURY, LUKE                                  | 3,089,303 |
| REALD SPARK, LLC                  | 3,089,477 | ROBLES-RESENDIZ, OMAR                                | 3,089,380 | SALM, JACQUELINE I.                              | 3,089,763 |
| REAUME, MARK EDWARD               | 3,089,363 | RODINO-KLAPAC, LOUISE R.                             | 3,089,080 | SALVERMOSER, MANFRED                             | 3,089,671 |
| RECKTENWALD, MICHAEL              | 3,089,794 | RODRIGUEZ GOMEZ, JUAN MIGUEL                         | 3,089,366 | SALVERMOSER, MANFRED                             | 3,089,675 |
| RECURIUM IP HOLDINGS, LLC         | 3,089,746 | RODRIGUEZ, ANDREA                                    | 3,089,375 | SALVI, SID                                       | 3,089,831 |
| REDDRESS LTD.                     | 3,089,713 | ROEHM AMERICA LLC                                    | 3,089,528 | SALYER, ALEX                                     | 3,089,667 |
| REDDY, B. RAGHAVA                 | 3,089,567 | ROHM GMBH                                            | 3,089,528 | SALZWEDEL, TIM                                   | 3,089,376 |
| REDDY, B. RAGHAVA                 | 3,089,575 | ROLIG, ANNAH                                         | 3,089,707 | SAMADANI, MOHSEN                                 | 3,089,591 |
| REDL, ANDREAS                     | 3,089,173 | ROMANO, FABRIZIO                                     | 3,089,449 | SAMADANI, UZMA                                   | 3,089,124 |
| REED, STEPHANIE                   | 3,089,862 | ROONEY, CLIONA M.                                    | 3,089,667 | SAMSUNG ELECTRONICS CO., LTD.                    | 3,089,192 |
| REGENERON PHARMACEUTICALS, INC.   | 3,088,194 | ROQUES, BERNARD                                      | 3,089,350 | SANDER, ANDREA                                   | 3,089,444 |
|                                   |           | ROSCAM ABBING, ERNST ARNOU                           | 3,089,734 | SANDLERMAN, NIMROD                               | 3,089,145 |
|                                   |           | ROSENTHAL, COREY                                     | 3,089,557 | SANDNES, GEIR KVALSUND                           | 3,089,437 |
|                                   |           |                                                      |           | SANDWICK, TODD                                   | 3,089,739 |
|                                   |           |                                                      |           | SANGAMO THERAPEUTICS, INC.                       | 3,089,587 |
|                                   |           |                                                      |           | SANJO, SHOTA                                     | 3,089,549 |
|                                   |           |                                                      |           | SANKARAN, VENKATARAMAN                           | 3,089,808 |

## Index des demandes PCT entrant en phase nationale

|                          |           |                         |           |                          |           |
|--------------------------|-----------|-------------------------|-----------|--------------------------|-----------|
| SANOFI                   | 3,089,657 | SCHONEBORN, MARCOS      | 3,089,438 | SHETH, DISHA B.          | 3,089,212 |
| SANTA MARIA, FELICIA     | 3,087,253 | SCHROEDER, SCOTT D.     | 3,089,590 | SHI, MINGLIAN            | 3,089,212 |
| SANTOPRETE, ALESSIA      | 3,089,657 | SCHROEDER, STUART       |           | SHIBAYAMA, SHIRO         | 3,089,722 |
| SANTOS, LUCIO LARA       | 3,089,300 | GARTH                   | 3,076,936 | SHIJIAZHANG SAGACITY     |           |
| SARBU, ALEXANDRU         | 3,089,173 | SCHULTHEIS, KATHERINE   | 3,089,717 | NEW DRUG                 |           |
| SARIYANIDI, EVANGELOS    | 3,089,597 | SCHULTZ, ROBERT         | 3,089,597 | DEVELOPMENT              |           |
| SARKAR, DEVANAND         | 3,089,231 | SCHULZE, WILLIAM        | 3,089,317 | COMPANY, LTD.            | 3,089,414 |
| SARKER, ABUL BASHER      | 3,089,754 | SCHWARZ, JACOB BRADLEY  | 3,089,380 | SHIMBO, TAKUYA           | 3,089,722 |
| SASARMAN, ANDREEA        | 3,089,656 | SCHWEINITZER, GERD      | 3,089,399 | SHIN, BENJAMIN HYUN JOON | 3,089,667 |
| SASARMAN, ANDREEA        | 3,089,662 | SCIENTIA VASCULAR, LLC  | 3,089,737 | SHIN, SANG CHUL          | 3,089,563 |
| SASOL GERMANY GMBH       | 3,089,438 | SCOTT, GLENN CARTER     | 3,089,270 | SHIN, SUNMI              | 3,089,310 |
| SASSEN, WOUTER           | 3,089,431 | SCOTT, TIMOTHY JAMES    | 3,089,743 | SHINER, ANDREW D.        | 3,089,138 |
| SASU, BARBRA JOHNSON     | 3,089,318 | SEATTLE CHILDREN'S      |           | SHIONOGI & CO., LTD.     | 3,089,498 |
| SATYANARAYANA,           |           | HOSPITAL (DBA           |           | SHIRKHANI, KHOJASTEH     | 3,089,172 |
| VATTIKUTI                | 3,089,537 | SEATTLE CHILDREN'S      |           | SHOEMAKER, DARRYL        | 3,089,332 |
| SAUDI ARABIAN OIL        |           | RESEARCH INSTITUTE)     | 3,089,051 | SHVETSOV, KYRYLO         | 3,089,844 |
| COMPANY                  | 3,089,131 | SEATTLE CHILDREN'S      |           | SICHUAN INLU WEITE       |           |
| SAUDI ARABIAN OIL        |           | HOSPITAL (DBA           |           | PHARMACEUTICAL           |           |
| COMPANY                  | 3,089,466 | SEATTLE CHILDREN'S      |           | TECHNOLOGY CO., LTD.     | 3,089,522 |
| SAUDI ARABIAN OIL        |           | RESEARCH INSTITUTE)     | 3,089,319 | SIDDIQUI, UZAIR          | 3,089,836 |
| COMPANY                  | 3,089,467 | SEET, MICHAEL           | 3,088,722 | SIDDIQUI, UZAIR          | 3,089,837 |
| SAUDI ARABIAN OIL        |           | SEIBERT, JOACHIM ULRICH | 3,089,199 | SIEMENS                  |           |
| COMPANY                  | 3,089,567 | SEIBERT, JOACHIM ULRICH | 3,089,205 | AKTIENGESELLSCHAFT       | 3,089,164 |
| SAUDI ARABIAN OIL        |           | SEIDEL, ANDREW          | 3,089,591 | SIEMENS                  |           |
| COMPANY                  | 3,089,573 | SEIKAGAKU CORPORATION   | 3,089,180 | AKTIENGESELLSCHAFT       | 3,089,220 |
| SAUDI ARABIAN OIL        |           | SEINDA PHARMACEUTICAL   |           | SIEMENS                  |           |
| COMPANY                  | 3,089,575 | CORPORATION             | 3,089,344 | AKTIENGESELLSCHAFT       | 3,089,224 |
| SAUDI ARABIAN OIL        |           | SELANE PRODUCTS, INC.   | 3,089,568 | SIEMENS                  |           |
| COMPANY                  | 3,089,578 | SELEGGT GMBH            | 3,089,384 | AKTIENGESELLSCHAFT       | 3,089,635 |
| SAUDI ARABIAN OIL        |           | SELIG, ROLAND           | 3,089,678 | SIEMENS                  |           |
| COMPANY                  | 3,089,631 | SELNIHHN, DENIS         | 3,089,371 | AKTIENGESELLSCHAFT       | 3,089,687 |
| SAUDI ARABIAN OIL        |           | SENSUS SPECTRUM, LLC    | 3,089,203 | SIEMENS MOBILITY, INC.   | 3,089,306 |
| COMPANY                  | 3,089,710 | SEOUL VIOSYS CO., LTD.  | 3,089,563 | SIENKIEL, DOMINIK        |           |
| SAUER, JUDE S.           | 3,089,814 | SEOW, SEE YOON          | 3,089,170 | STANISLAW                | 3,089,636 |
| SAULX OFFSHORE           | 3,089,168 | SEPPI, CARLO            | 3,089,198 | SIENKIEL, KAMIL          | 3,089,636 |
| SAUNDERS, ANDREW         |           | SETHI, ANKIT            | 3,089,233 | SIERRA, RAFAEL ARMANDO   | 3,089,137 |
| MICHAEL                  | 3,089,295 | SETTE, ANGELICA         | 3,089,419 | SIGMA-ALDRICH CO. LLC    | 3,089,323 |
| SAVINO, TREVOR           | 3,089,765 | SEW-EURODRIVE GMBH &    |           | SILVESTRE DUARTE,        |           |
| SAVINO, TREVOR           | 3,089,766 | CO. KG                  | 3,089,275 | ANDREA FILIPA            | 3,089,700 |
| SAWARAGI, YOSUKE         | 3,089,304 | SEYMOUR, ALBERT BARNES  | 3,089,824 | SIMON, JEFFREY           | 3,089,137 |
| SAWITZKI, EWALD          | 3,089,171 | SHAFRAN, YANA           | 3,089,430 | SIMON, SEBASTIAN         | 3,089,793 |
| SAWYER JR., DOUGLAS      | 3,089,858 | SHAH, MRINAL            | 3,089,328 | SIMONSEN, BAEK JENS      | 3,089,371 |
| SAYED, KHURSID           | 3,089,456 | SHAH, SUNIR             | 3,089,640 | SIMPSON STRONG-TIE       |           |
| SCHAFFER, MARTIN         | 3,089,378 | SHAHAR, SHIMON          | 3,089,285 | COMPANY INC.             | 3,089,385 |
| SCHEIFELE, FABIAN        | 3,089,230 | SHAIKH, KASHAN          | 3,089,788 | SIMPSON, PETER C.        | 3,089,642 |
| SCHENKEL, UWE            | 3,089,282 | SHAJII, ALI             | 3,089,137 | SIMPSON, WAYNE ROYDON    | 3,089,560 |
| SCHIAVONE, JOSEPH        | 3,089,838 | SHANAHAN, JOHN PATRICK  | 3,089,249 | SIMPSON, WAYNE ROYDON    | 3,089,565 |
| SCHLEGEL, JOCHEN         | 3,089,434 | SHANGHAI GINSOME        |           | SINGH, ANAND             | 3,089,396 |
| SCHLEIER, THOMAS         | 3,089,230 | PHARMATECH CO., LTD.    | 3,089,529 | SINGLE BUOY MOORINGS     |           |
| SCHLEITH, JOHANNES       | 3,089,692 | SHANGHAI HANSOH         |           | INC.                     | 3,089,431 |
| SCHLUMBERGER CANADA      |           | BIOMEDICAL CO., LTD.    | 3,089,246 | SINGLE DOSE SOLUTIONS    |           |
| LIMITED                  | 3,089,221 | SHANGHAI HENGRUI        |           | INC.                     | 3,089,225 |
| SCHLUMBERGER CANADA      |           | PHARMACEUTICAL CO.,     |           | SINGLETON, LEO C., IV    | 3,089,234 |
| LIMITED                  | 3,089,335 | LTD                     | 3,089,159 | SIRAK, SOFIA             | 3,089,149 |
| SCHMALSTIEG, LUTZ        | 3,089,353 | SHANKER, P. SATHAY      | 3,089,388 | SISTO, MARCO MICHELE     | 3,089,556 |
| SCHMIDT, JURGEN          | 3,089,282 | SHARMA, SANDHYA         | 3,089,667 | SIXTY AS                 | 3,089,422 |
| SCHMIDT, YOANN           | 3,089,665 | SHARON, YOAV            | 3,089,648 | SKARDAL, ALEKSANDER      | 3,089,127 |
| SCHMIDT, YOANN           | 3,089,668 | SHARP, MATTHEW DAVID    | 3,089,679 | SKJETNE, ARVE            | 3,089,635 |
| SCHMITT, GUNTER          | 3,089,149 | SHARP, MATTHEW DAVID    | 3,089,685 | SLADE, ROBERT            | 3,089,806 |
| SCHMITZ, PETRA           | 3,089,688 | SHENG, GUANGJI          | 3,089,393 | SLAGA, DIONYSOS          | 3,089,287 |
| SCHNEIDER, JOEL          | 3,089,396 | SHENG, GUANGJI          | 3,089,402 | SLANIA, STEPHANIE        | 3,088,138 |
| SCHNEIDER, PIERRE        | 3,089,182 | SHENG, GUANGJI          | 3,089,411 | SLEPPY, CHRISTINE        | 3,089,716 |
| SCHNEIDERHEINZE, JEFFREY | 3,089,655 | SHERBO, REBECCA         | 3,089,508 | SLOTH, ERIC              | 3,089,531 |
| SCHNITZER, MARTIN        | 3,089,740 | SHETE, AMIT             | 3,089,592 | SLYDER TRAY LLC          | 3,089,197 |

## Index of PCT Applications Entering the National Phase

|                                                            |           |                                                 |           |                                                                                                            |           |
|------------------------------------------------------------|-----------|-------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------|-----------|
| SMARTFREEZ, LDA                                            | 3,089,700 | STELTEN-LUDWIG, BEATRIX                         | 3,089,754 | TANG, FEI                                                                                                  | 3,089,704 |
| SMITH, BRYAN D.                                            | 3,089,566 | STEPHAN, MARKUS                                 | 3,089,191 | TANG, FEI                                                                                                  | 3,089,768 |
| SMITH, BRYAN D.                                            | 3,089,630 | STEPHENSON, ADAM                                | 3,089,868 | TANG, GUO                                                                                                  | 3,089,344 |
| SMITH, REGINALD<br>DONOVAN                                 | 3,089,788 | STEWART, CHRISTOPHER E.                         | 3,089,828 | TANG, SAI CHUN                                                                                             | 3,089,620 |
| SMITH, TREVOR                                              | 3,089,717 | STEWART, JEFFREY D.                             | 3,089,315 | TANGUAY, SOPHIE                                                                                            | 3,089,742 |
| SMOKE, WILLIAM SHAYNE                                      | 3,089,828 | STEWART, RUSSELL                                | 3,089,480 | TANUWIDJAJA, JESSICA                                                                                       | 3,089,272 |
| SMOOT, CARISSA                                             | 3,089,862 | STEWART, SARAH                                  | 3,089,172 | TANWANI, NIKHIL                                                                                            | 3,089,718 |
| SMYTHE, MARK LESLIE                                        | 3,089,868 | STOBER, MARTIN                                  | 3,089,275 | TAO, LIANG                                                                                                 | 3,089,834 |
| SNIPER (BEIJING) MEDICAL<br>TECHNOLOGIES CO., LTD          | 3,089,393 | STOCKENHUBER, MICHAEL                           | 3,089,658 | TAO, WEIKANG                                                                                               | 3,089,159 |
| SNIPER (BEIJING) MEDICAL<br>TECHNOLOGIES CO., LTD          | 3,089,402 | STOKKEVAG, TERJE                                | 3,089,437 | TARAN, FREDERIC                                                                                            | 3,089,140 |
| SNIPER (BEIJING) MEDICAL<br>TECHNOLOGIES CO., LTD          | 3,089,411 | STOLL, THEODOR                                  | 3,089,688 | TARANATH, ROOPA                                                                                            | 3,089,868 |
| SNYDER, EDWARD J.                                          | 3,089,737 | STORAGE ENGINE, INC.                            | 3,089,765 | TARSA, ERIC                                                                                                | 3,089,271 |
| SOBOLEV, MARIA                                             | 3,089,430 | STORAGE ENGINE, INC.                            | 3,089,766 | TASSIGNON, JOEL                                                                                            | 3,089,358 |
| SOCIETE DES PRODUITS<br>NESTLE S.A.                        | 3,089,386 | STORCK, PIERRE-HENRI                            | 3,089,762 | TAYLOR, ALEXANDER<br>TANNER                                                                                | 3,089,221 |
| SOCIETE DES PRODUITS<br>NESTLE S.A.                        | 3,089,664 | STORCK, PIERRE-HENRI                            | 3,089,769 | TAYLOR, ALEXANDER<br>TANNER                                                                                | 3,089,335 |
| SOKOLOVE, CHRISTOPHER<br>BRIAN                             | 3,089,125 | STORZ, MARKUS                                   | 3,089,282 | TCHERKASOV, ARTEM                                                                                          | 3,089,485 |
| SOLANTECH INC.                                             | 3,089,750 | STRATUSCENT INC.                                | 3,089,818 | TCS JOHN HUXLEY EUROPE<br>LIMITED                                                                          | 3,089,295 |
| SOLAR, MATTHEW S.                                          | 3,089,641 | STRIX (U.K.) LIMITED                            | 3,089,595 | TE CONNECTIVITY<br>CORPORATION                                                                             | 3,089,454 |
| SOLVAY SA                                                  | 3,089,362 | STRIX (USA), INC.                               | 3,089,595 | TECHNICAL UNIVERSITY OF<br>DENMARK                                                                         | 3,089,371 |
| SOLYSTIC                                                   | 3,089,156 | STRYKER CORPORATION                             | 3,089,603 | TECHTRONIC CORDLESS GP                                                                                     | 3,089,663 |
| SOMA, ATSUSHI                                              | 3,089,461 | SU, DAI-SHI                                     | 3,089,666 | TECNOMATIC S.P.A.                                                                                          | 3,089,188 |
| SOMMER, ANETTE                                             | 3,089,754 | SU, ZHETONG                                     | 3,089,522 | TEENE, LIS                                                                                                 | 3,089,345 |
| SON, YOEN-JU                                               | 3,089,439 | SUDELL, STEVEN                                  | 3,089,308 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                                  | 3,089,100 |
| SONG, ALLISA JUNGHA                                        | 3,089,474 | SUGIO, TOSHIYASU                                | 3,089,181 | TELEFONAKTIEBOLAGET LM<br>ERICSSON (PUBL)                                                                  | 3,089,142 |
| SONI, SANJEEV                                              | 3,089,592 | SUI, YUTAO                                      | 3,089,142 | TENG, YUMIN                                                                                                | 3,089,419 |
| SONITOR TECHNOLOGIES AS                                    | 3,089,542 | SULEIMAN, AZIZA KHADER                          | 3,089,492 | TEREOS STARCH &<br>SWEETENERS BELGIUM                                                                      | 3,089,173 |
| SONNENSHEIN, DAVID                                         | 3,089,137 | SUMITOMO METAL MINING<br>CO., LTD.              | 3,089,549 | TERRACUBE<br>INTERNATIONAL INC.                                                                            | 3,089,760 |
| SONTAG, STEPHEN K.                                         | 3,089,207 | SUN BIOPHARMA, INC.                             | 3,089,388 | TERTERYAN-SEISER,<br>VIOLETA                                                                               | 3,088,722 |
| SONTAG, STEPHEN K.                                         | 3,089,252 | SUN, ERGANG                                     | 3,089,325 | TESSEMA, MENGISTU                                                                                          | 3,089,184 |
| SONTAG, STEPHEN K.                                         | 3,089,266 | SUN, KEPEI                                      | 3,089,837 | TETAZ-RECEVEUR, PATRICK                                                                                    | 3,089,156 |
| SOPREMA                                                    | 3,089,173 | SUN, YONGMEI                                    | 3,089,823 | TEZUKA, TOMOYA                                                                                             | 3,089,722 |
| SORBONNE UNIVERSITE                                        | 3,089,406 | SUNGROW POWER SUPPLY<br>CO., LTD.               | 3,075,055 | THE BRAUN CORPORATION                                                                                      | 3,089,870 |
| SOTOMAYOR VAZQUEZ,<br>ANGEL                                | 3,089,420 | SUNGROW POWER SUPPLY<br>CO., LTD.               | 3,075,059 | THE CHILDREN'S HOSPITAL<br>OF PHILADELPHIA                                                                 | 3,089,597 |
| SOUTER, PHILIP FRANK                                       | 3,089,281 | SUNTORY HOLDINGS<br>LIMITED                     | 3,089,706 | THE CLEVELAND CLINIC<br>FOUNDATION                                                                         | 3,088,872 |
| SOUTER, PHILIP FRANK                                       | 3,089,284 | SUNTORY HOLDINGS<br>LIMITED                     | 3,089,741 | THE GILLETTE COMPANY<br>LLC                                                                                | 3,089,321 |
| SPAIN, CHRISTOPHER                                         | 3,089,528 | SUZHOU SINOVENT<br>PHARMACEUTICALS CO.,<br>LTD. | 3,089,150 | THE GILLETTE COMPANY<br>LLC                                                                                | 3,089,326 |
| SPENCE, PAUL A.                                            | 3,089,554 | SWAIN, SANDRA                                   | 3,089,677 | THE GOOSEBUMPS FACTORY<br>BVBA                                                                             | 3,089,311 |
| SPETH, WALTER                                              | 3,089,282 | SWEENEY, EMILY                                  | 3,089,707 | THE GOVERNMENT OF THE<br>UNITED STATES OF<br>AMERICA, AS<br>REPRESENTED BY THE<br>SECRETARY OF THE<br>NAVY | 3,089,491 |
| SPIDAWEB LLC                                               | 3,089,317 | SYME, ALASDAIR                                  | 3,082,229 | THE GRAINS RESEARCH AND<br>DEVELOPMENT<br>CORPORATION                                                      | 3,089,560 |
| SPIESS, CHRISTOPH                                          | 3,089,287 | SYNGENTA PARTICIPATIONS<br>AG                   | 3,089,803 | THE GRAINS RESEARCH AND<br>DEVELOPMENT<br>CORPORATION                                                      | 3,089,565 |
| SPRAY, ORVILLE                                             | 3,089,273 | T., UMAKANTHAN                                  | 3,085,268 |                                                                                                            |           |
| SRIVATSA SRINIVASAN,<br>SURABHI                            | 3,089,318 | TAARNING, ESBEN                                 | 3,089,417 |                                                                                                            |           |
| ST. JUDE CHILDREN'S<br>RESEARCH HOSPITAL,<br>INC.          | 3,089,756 | TAGHIYEV, ELDAR                                 | 3,089,259 |                                                                                                            |           |
| STACKPOLE<br>INTERNATIONAL<br>ENGINEERED<br>PRODUCTS, LTD. | 3,089,194 | TAGIJEV, ELSAD                                  | 3,089,259 |                                                                                                            |           |
| STAEMMLER, LUTZ                                            | 3,089,519 | TAGKOPOULOS, LLIAS                              | 3,089,817 |                                                                                                            |           |
| STANIMIROVIC, DANICA                                       | 3,089,816 | TAIT, MICHAEL                                   | 3,089,754 |                                                                                                            |           |
| STANLEY MOTORS INC.                                        | 3,089,594 | TAKAHASHI, JUN                                  | 3,089,553 |                                                                                                            |           |
| STASSINOPOULOS, ADONIS                                     | 3,087,253 | TAKAMATSU, YOHEI                                | 3,089,506 |                                                                                                            |           |
| STAUFFER, TIMOTHY M.                                       | 3,089,385 | TAKANO, KENJI                                   | 3,089,738 |                                                                                                            |           |
| STEIN, ERIC                                                | 3,088,421 | TAKANO, MASATOSHI                               | 3,089,549 |                                                                                                            |           |
|                                                            |           | TAKEHARU, HITOSHI                               | 3,089,820 |                                                                                                            |           |
|                                                            |           | TAKEUCHI, KOSAKU                                | 3,089,185 |                                                                                                            |           |
|                                                            |           | TAKEUCHI, SHIGEO                                | 3,089,304 |                                                                                                            |           |
|                                                            |           | TAN, YUEBIN                                     | 3,089,731 |                                                                                                            |           |
|                                                            |           | TANAKA, KENTARO                                 | 3,089,185 |                                                                                                            |           |
|                                                            |           | TANCREDI, SERGIO                                | 3,089,188 |                                                                                                            |           |

## Index des demandes PCT entrant en phase nationale

|                                                                                                                                                                                       |           |                                                                                                                   |                                     |                                                                             |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------|
| THE JOAN AND IRWIN<br>JACOBS TECHNION-<br>CORNELL INSTITUTE                                                                                                                           | 3,089,307 | THOMPSON, NIALL<br>THOMSON REUTERS<br>ENTERPRISE CENTRE<br>GMBH                                                   | 3,089,428<br>3,089,692              | U, UMADEVI<br>UBE INDUSTRIES, LTD.<br>UCHMAN, SEBASTIAN<br>UCL BUSINESS LTD | 3,085,268<br>3,089,183<br>3,089,372<br>3,089,265 |
| THE JOHNS HOPKINS<br>UNIVERSITY                                                                                                                                                       | 3,088,138 | THOR SPA                                                                                                          | 3,089,016                           | UEDA, YASUYUKI                                                              | 3,089,553                                        |
| THE NECK HAMMOCK, INC.                                                                                                                                                                | 3,089,308 | THROSBY, MARK                                                                                                     | 3,089,722                           | ULRICH, JAMES FRANK                                                         | 3,089,242                                        |
| THE PROCTER & GAMBLE<br>COMPANY                                                                                                                                                       | 3,089,281 | THUMM, ANDREAS                                                                                                    | 3,089,519                           | UNIVERSIDADE NOVA DE<br>LISBOA                                              | 3,089,300                                        |
| THE PROCTER & GAMBLE<br>COMPANY                                                                                                                                                       | 3,089,284 | THURN, MICHAEL                                                                                                    | 3,089,360                           | UNIVERSITAT BASEL<br>UNIVERSITAT DE<br>BARCELONA                            | 3,089,198<br>3,089,330                           |
| THE PROVOST, FELLOWS,<br>FOUNDATION<br>SCHOLARS, AND THE<br>OTHER MEMBERS OF<br>BOARD, OF THE<br>COLLEGE OF THE HOLY<br>AND UNDIVIDED<br>TRINITY OF QUEEN<br>ELIZABETH NEAR<br>DUBLIN | 3,089,782 | TIGHILET, BRAHIM<br>TILLMANN, BODO<br>TINSLEY, DOUGLAS<br>MONROE                                                  | 3,089,598<br>3,089,784<br>3,089,828 | UNIVERSITE D'AIX-<br>MARSEILLE (AMU)                                        | 3,089,598                                        |
| THE REGENTS OF THE<br>UNIVERSITY OF<br>CALIFORNIA                                                                                                                                     | 3,089,228 | TIPTON, WADE                                                                                                      | 3,089,251                           | UNIVERSITE DE REIMS<br>CHAMPAGNE-ARDENNE                                    | 3,089,452                                        |
| THE REGENTS OF THE<br>UNIVERSITY OF<br>CALIFORNIA                                                                                                                                     | 3,089,481 | TIPTON, WADE                                                                                                      | 3,089,274                           | UNIVERSITE DE<br>STRASBOURG                                                 | 3,089,173                                        |
| THE REGENTS OF THE<br>UNIVERSITY OF<br>CALIFORNIA                                                                                                                                     | 3,089,709 | TIPTON, WADE                                                                                                      | 3,089,292                           | UNIVERSITE DE TOURS                                                         | 3,089,406                                        |
| THE REGENTS OF THE<br>UNIVERSITY OF<br>CALIFORNIA                                                                                                                                     | 3,089,753 | TIRONEN, TUOMAS<br>TIVITMAHAISON,<br>PARCHAREE                                                                    | 3,089,142<br>3,089,380              | UNIVERSITY OF MARYLAND,<br>BALTIMORE                                        | 3,089,768                                        |
| THE REGENTS OF THE<br>UNIVERSITY OF<br>MICHIGAN                                                                                                                                       | 3,089,861 | TOBINAGA, HIROYUKI                                                                                                | 3,089,498                           | UNIVERSITY OF<br>MASSACHUSETTS                                              | 3,089,562                                        |
| THE ROCKEFELLER<br>UNIVERSITY                                                                                                                                                         | 3,089,236 | TOGANO, KEIICHI                                                                                                   | 3,089,732                           | UNIVERSITY OF OREGON                                                        | 3,089,707                                        |
| THE SECANT GROUP, LLC                                                                                                                                                                 | 3,089,862 | TOKAMAK ENERGY LTD                                                                                                | 3,089,806                           | UNIVERSITY OF ROCHESTER                                                     | 3,089,482                                        |
| THE UNITED STATES OF<br>AMERICA, AS<br>REPRESENTED BY THE<br>SECRETARY,<br>DEPARTMENT OF<br>HEALTH AND HUMAN<br>SERVICES                                                              | 3,089,396 | TOKUMARU, PHILLIP T.<br>TOLBORG, SOREN                                                                            | 3,089,626<br>3,089,417              | UNIVERSITY PUBLIC<br>CORPORATION OSAKA                                      | 3,089,738                                        |
| THE UNIVERSITY OF BRITISH<br>COLUMBIA                                                                                                                                                 | 3,089,485 | TONIK SOUND LIMITED                                                                                               | 3,089,210                           | UNNI, ADITYA KRISHNAN                                                       | 3,089,746                                        |
| THE UNIVERSITY OF BRITISH<br>COLUMBIA                                                                                                                                                 | 3,089,508 | TORAY INDUSTRIES, INC.                                                                                            | 3,089,185                           | URABE, KAZUNORI                                                             | 3,089,553                                        |
| THE WISTAR INSTITUTE OF<br>ANATOMY AND<br>BIOLOGY                                                                                                                                     | 3,089,717 | TORNIER, INC.                                                                                                     | 3,089,708                           | US ENOVACOR APS                                                             | 3,089,531                                        |
| THEKEYIL, RAGEESH                                                                                                                                                                     | 3,089,209 | TORPY, KEITH                                                                                                      | 3,089,718                           | V. MANE FILS                                                                | 3,089,442                                        |
| THIERGART, OLIVER                                                                                                                                                                     | 3,089,550 | TORRES, TERRENCE J.                                                                                               | 3,087,964                           | VALENT U.S.A. LLC                                                           | 3,089,272                                        |
| THIERRY, DECOCK                                                                                                                                                                       | 3,089,672 | TOYO SEIKAN CO., LTD.                                                                                             | 3,089,820                           | VALENTIN, FREDERIC                                                          | 3,089,452                                        |
| THIERRY, DECOCK                                                                                                                                                                       | 3,089,676 | TRACE GENOMICS, INC.                                                                                              | 3,089,608                           | VAN ALMSICK, ANDREAS                                                        | 3,089,286                                        |
| THIERRY, DECOCK                                                                                                                                                                       | 3,089,684 | TRON-TRANSLATIONALE<br>ONKOLOGIE AN DER<br>UNIVERSITATSMEDIZIN<br>DER JOHANNES<br>GUTENBERG-<br>UNIVERSITAT MAINZ |                                     | VAN BLARCOM, THOMAS<br>JOHN                                                 | 3,089,318                                        |
| THINAIR SURFACES LLC                                                                                                                                                                  | 3,089,189 | GEMEINNUTZIGE GMBH                                                                                                | 3,089,784                           | VAN DEN BERG, KAREL                                                         | 3,089,734                                        |
| THIRD WAVE BIOACTIVES,<br>LLC                                                                                                                                                         | 3,089,489 | TROPICANA PRODUCTS, INC.                                                                                          | 3,089,501                           | VAN DEN BERG, MAARTEN                                                       | 3,089,734                                        |
| THOMAS JEFFERSON<br>UNIVERSITY                                                                                                                                                        | 3,089,583 | TROUNSON, ALAN                                                                                                    | 3,089,151                           | VAN DER MEIJS, MARINUS<br>WILHELMUS ELIZA                                   | 3,089,735                                        |
| THOMAS, CHRISTOPHER G.                                                                                                                                                                | 3,082,229 | TRUAN, DAPHNE                                                                                                     | 3,089,177                           | VAN LEEUWEN, MARK<br>RUDOLF                                                 | 3,089,168                                        |
| THOMPSON, BRETT                                                                                                                                                                       | 3,089,489 | TRUMA GERATETECHNIK<br>GMBH & CO. KG                                                                              | 3,089,372                           | VAN LOO, PIETER FOKKO                                                       | 3,089,722                                        |
|                                                                                                                                                                                       |           | TRUSTEES OF TUFTS<br>COLLEGE                                                                                      | 3,089,826                           | VAN MARIS, ANTONIUS<br>JEROEN ADRIAAN                                       | 3,089,799                                        |
|                                                                                                                                                                                       |           | TSCHUMPERLIN, DANIEL J.                                                                                           | 3,089,864                           | VAN NUGTEREN, BAS                                                           | 3,089,806                                        |
|                                                                                                                                                                                       |           | TSE, WINSTON C.                                                                                                   | 3,089,590                           | VAN SCHIE, PETRUS<br>JOHANNES                                               | 3,089,734                                        |
|                                                                                                                                                                                       |           | TSIMIKAS, SOTIRIOS                                                                                                | 3,089,709                           | VAN WEEREN, DENNIS                                                          | 3,089,199                                        |
|                                                                                                                                                                                       |           | TSUCHIYA, SATOSHI                                                                                                 | 3,089,443                           | VAN WEEREN, DENNIS                                                          | 3,089,205                                        |
|                                                                                                                                                                                       |           | TSUJI, MASAYUKI                                                                                                   | 3,089,460                           | VANDA PHARMACEUTICALS<br>INC.                                               | 3,089,238                                        |
|                                                                                                                                                                                       |           | TSUJI, MASAYUKI                                                                                                   | 3,089,502                           | VANDAMME, WIM ALOIS                                                         | 3,089,311                                        |
|                                                                                                                                                                                       |           | TSUJIMOTO, HISASHI                                                                                                | 3,089,565                           | VANDENBOS, BENJAMIN                                                         | 3,089,833                                        |
|                                                                                                                                                                                       |           | TUCKER, BRIAN R.                                                                                                  | 3,089,207                           | VANDENBOS, BENJAMIN                                                         | 3,089,871                                        |
|                                                                                                                                                                                       |           | TUCKER, BRIAN R.                                                                                                  | 3,089,266                           | VANKAN, PIERRE                                                              | 3,089,656                                        |
|                                                                                                                                                                                       |           | TUMA, DANIEL L.                                                                                                   | 3,089,252                           | VANKAN, PIERRE                                                              | 3,089,662                                        |
|                                                                                                                                                                                       |           | TUMIALAN, LUIS MANUEL                                                                                             | 3,089,579                           | VASQUEZ VALDIVIESO,<br>MONTSERRAT                                           |                                                  |
|                                                                                                                                                                                       |           | TURKSOY, KAMURAN                                                                                                  | 3,089,212                           | GUADALUPE                                                                   | 3,089,281                                        |
|                                                                                                                                                                                       |           | TURNER, LOUIS                                                                                                     | 3,089,677                           | VASQUEZ VALDIVIESO,<br>MONTSERRAT                                           |                                                  |
|                                                                                                                                                                                       |           | TURNLUND, TODD                                                                                                    | 3,089,737                           | GUADALUPE                                                                   | 3,089,284                                        |
|                                                                                                                                                                                       |           | TUTUNARU, CATALIN                                                                                                 | 3,089,594                           | VECTIS DRIVE INC.                                                           | 3,089,155                                        |
|                                                                                                                                                                                       |           | TWIN, HEATHER CLARE                                                                                               | 3,089,762                           | VEIS, ROBIN                                                                 | 3,089,568                                        |
|                                                                                                                                                                                       |           | TWIT, HEATHER CLARE                                                                                               | 3,089,769                           |                                                                             |                                                  |
|                                                                                                                                                                                       |           | TWITO, ISRAEL                                                                                                     | 3,089,146                           |                                                                             |                                                  |

## Index of PCT Applications Entering the National Phase

|                                           |           |                                     |           |                               |           |
|-------------------------------------------|-----------|-------------------------------------|-----------|-------------------------------|-----------|
| VENGATESAN, SELVAM                        | 3,089,388 | WANG, LEI                           | 3,089,454 | WILSON, MICHAEL               | 3,089,484 |
| VENGHATRAGHAVAN,<br>MURALI                | 3,089,388 | WANG, LIANG                         | 3,089,212 | WILSON, SHANE MATTHEW         | 3,089,125 |
| VENKAIAH CHOWDARY,<br>NANNAPANENI         | 3,089,537 | WANG, MING                          | 3,089,378 | WINNER, SETH A.               | 3,089,862 |
| VENKATESH, CHANDAN                        | 3,089,209 | WANG, MINGHAN                       | 3,089,649 | WINTER, CHRISTIAN<br>HARALD   | 3,088,722 |
| VENTURA, DOMINIC                          | 3,089,583 | WANG, MINGHAN                       | 3,089,653 | WINTERS, TIMOTHY O.           | 3,089,207 |
| VENTURE CORPORATION                       | 3,089,273 | WANG, TING                          | 3,089,246 | WINTERS, TIMOTHY O.           | 3,089,266 |
| VERBRUGGE, CYRIL                          | 3,089,160 | WANG, XIANG-YANG                    | 3,089,231 | WISEMAN, KRISTOPHER<br>ROBERT | 3,089,858 |
| VERHOEVEN, MAARTEN<br>DIRK                | 3,089,799 | WANG, YAN                           | 3,089,797 | WISSEMEIER, ALEXANDER         | 3,089,374 |
| VERMEY, GARRETT R.                        | 3,089,345 | WANG, YEN-SEINE                     | 3,089,811 | WISSEMEIER, ALEXANDER         | 3,089,381 |
| VERSCHUREN, MARK                          | 3,089,141 | WANSCH, RAINER                      | 3,089,184 | WITOWSKI, CHRISTOPHER G.      | 3,089,763 |
| VERTEX PHARMACEUTICALS<br>INCORPORATED    | 3,089,762 | WARD, JOHN                          | 3,089,582 | WITZTUM, JOSEPH L.            | 3,089,709 |
| VERTEX PHARMACEUTICALS<br>INCORPORATED    | 3,089,769 | WATANABE, MAYUMI                    | 3,089,553 | WIX.COM LTD.                  | 3,089,178 |
| VI LABS LTD                               | 3,089,720 | WATSON, GARY ALEXANDER              | 3,089,297 | WOBBEN PROPERTIES GMBH        | 3,089,179 |
| VIALLE, CLAIRE                            | 3,089,599 | WAY, PAUL A.                        | 3,089,207 | WODOSLAWSKY, ANDREW           | 3,089,086 |
| VIALLE, CLAIRE                            | 3,089,611 | WAY, PAUL A.                        | 3,089,266 | WOHL, BARRY                   | 3,089,712 |
| VIASAT, INC.                              | 3,089,340 | WAYNE FUELING SYSTEMS<br>LLC        | 3,089,136 | WOHLER, CHRISTIAN             | 3,089,803 |
| VIAU, JONATHAN                            | 3,088,194 | WEAVER, DANIEL S.                   | 3,089,608 | WOLF, ANTJE                   | 3,088,722 |
| VICKERS, PAUL                             | 3,089,813 | WEAVER, WILLIAM                     | 3,089,679 | WOLFE, THOMAS J.              | 3,089,132 |
| VIDEIRA, PAULA<br>ALEXANDRA QUINTELA      | 3,089,300 | WEAVER, WILLIAM                     | 3,089,685 | WON, HENRY THOME              | 3,089,627 |
| VIGO, DANIELE                             | 3,080,012 | WEBER, AMANDA                       | 3,089,862 | WON, HENRY THOME              | 3,089,628 |
| VIKEN DETECTION<br>CORPORATION            | 3,089,726 | WEBSTER, STEPHEN                    | 3,089,698 | WONG, HING C.                 | 3,089,333 |
| VILLEMOES, LARS                           | 3,089,632 | WEDGEROCK LLC                       | 3,089,470 | WONG, YIK TENG                | 3,089,172 |
| VIRGINIA COMMONWEALTH<br>UNIVERSITY       | 3,089,231 | WEDGEROCK LLC                       | 3,089,473 | WOO, MENG WAI                 | 3,089,823 |
| VITACHEM LLC                              | 3,089,581 | WEDIG, GEOFFREY                     | 3,089,645 | WOODGATE, GRAHAM J.           | 3,089,476 |
| VIZBARAS, AUGUSTINAS                      | 3,089,801 | WEERS, JEFFRY                       | 3,089,439 | WOODGATE, GRAHAM J.           | 3,089,477 |
| VIZBARAS, KRISTIJONAS                     | 3,089,801 | WEI, XUEMEI                         | 3,089,254 | WOOLARD, DAVID GLENN          | 3,089,669 |
| VOGEL, MATT                               | 3,089,212 | WEIDEBACK, DANIEL JUSTIN            | 3,089,642 | WORRELL, AMY MICHELLE         | 3,089,248 |
| VOGEL, MATTHEW T.                         | 3,089,642 | WEINER, DAVID                       | 3,089,717 | WOZNAK, KAITLIN T.            | 3,089,482 |
| VON NIEDERHAUSERN,<br>PETER               | 3,089,198 | WELCHES, RICHARD SHAUN              | 3,089,137 | WRIGHT, ANDREW                | 3,089,343 |
| VORMEHR, MATHIAS                          | 3,089,784 | WELLENDORPH, PETRINE                | 3,089,161 | WRIGHT, JASON BOKE            | 3,089,824 |
| VOSS, STEPHAN                             | 3,089,164 | WELLTEC OILFIELD<br>SOLUTIONS AG    | 3,089,195 | WRONA, MATTHEW R.             | 3,089,814 |
| VOTANOPOULOS,<br>KONSTANTINOS             | 3,089,127 | WEN, YUNG-SHUN                      | 3,089,256 | WU, ANDREW                    | 3,089,217 |
| W.R. GRACE & CO.-CONN                     | 3,089,703 | WENDT, ARNE                         | 3,089,282 | WU, DI                        | 3,089,608 |
| WAAG, ANDREAS HANS<br>WILHELM             | 3,089,330 | WENTWORTH, JEREMY                   | 3,089,317 | WU, QIAOYIN                   | 3,089,590 |
| WACYK, ROXOLANA                           | 3,089,613 | WESEMAN, KURT RAYMOND               | 3,089,415 | WU, SHU                       | 3,089,512 |
| WAGNER, SEBASTIAN                         | 3,089,800 | WESEMAN, KURT RAYMOND               | 3,089,418 | WU, YANG                      | 3,089,344 |
| WAKE FOREST UNIVERSITY<br>HEALTH SCIENCES | 3,089,127 | WEST, RICKY                         | 3,089,203 | WU, YIFAN                     | 3,089,203 |
| WAKIMOTO, TATSURO                         | 3,089,738 | WEST, ROBERT                        | 3,089,736 | WU, YONGZHONG                 | 3,089,832 |
| WALE, SHAWN                               | 3,089,086 | WEST, THOMAS C.                     | 3,089,470 | WU, YUCHUAN                   | 3,089,150 |
| WALENSKY, LOREN D.                        | 3,089,279 | WEST, THOMAS C.                     | 3,089,473 | WURM, MICHEL                  | 3,089,350 |
| WALKER, TOMAS C.                          | 3,089,642 | WHEELER, LEROY W. II                | 3,089,051 | WUSTROW, DAVID JUERGEN        | 3,089,380 |
| WALLQUIST, OLOF                           | 3,089,374 | WHEELER, LEROY W., II               | 3,089,319 | XIA, JIAXUAN                  | 3,089,529 |
| WALLQUIST, OLOF                           | 3,089,381 | WHEELER, THOMAS J.                  | 3,089,719 | XIAO, YUFANG                  | 3,089,762 |
| WALMART APOLLO, LLC                       | 3,089,338 | WIDGREN, HEATHER                    | 3,089,585 | XIAO, YUFANG                  | 3,089,769 |
| WALSH, DECLAN                             | 3,089,428 | WIEBE, CHRISTINE                    | 3,088,722 | XIE, HAN                      | 3,089,819 |
| WANG, CHANGCHUN                           | 3,089,797 | WIEBER, STEPHAN                     | 3,089,149 | XIE, HONG                     | 3,089,174 |
| WANG, CHI                                 | 3,089,181 | WIETH, FRANZ                        | 3,089,771 | XIE, YEYUAN                   | 3,089,494 |
| WANG, DAN                                 | 3,089,529 | WIETH, FRANZ                        | 3,089,798 | XIONG, QI                     | 3,089,192 |
| WANG, DENGJIN                             | 3,089,832 | WIETSCHORKE, HELMUT                 | 3,088,829 | XU, DIANWU                    | 3,089,663 |
| WANG, JIANXIN                             | 3,089,529 | WIKLUND, ERIK DIGMAN                | 3,089,673 | XU, JING                      | 3,089,503 |
| WANG, JIE DONG                            | 3,089,368 | WILKENS, ROLAND                     | 3,089,149 | XU, PENGXIANG                 | 3,089,344 |
| WANG, KEVIN SUNLIN                        | 3,089,748 | WILKINSON, BRADLEY M.               | 3,089,577 | XU, QIAOBING                  | 3,089,826 |
|                                           |           | WILLIAMSON, JAMES                   | 3,089,415 | XU, YU                        | 3,089,414 |
|                                           |           | WILLIAMSON, JAMES                   | 3,089,418 | XYLEM EUROPE GMBH             | 3,089,671 |
|                                           |           | WILLIG, HENNING                     | 3,089,191 | XYLEM EUROPE GMBH             | 3,089,675 |
|                                           |           | WILLIS, VANCE                       | 3,089,858 | YAGO LOSCOS, ANDRES           | 3,089,237 |
|                                           |           | WILLITT, BRETT                      | 3,089,317 | YAMADA, KIKUO                 | 3,089,652 |
|                                           |           | WILLMBRINK, GRASIELA<br>BOURSCHHEIT | 3,089,656 | YAMADA, MANABU                | 3,089,460 |
|                                           |           | WILLMBRINK, GRASIELA<br>BOURSCHHEIT | 3,089,662 | YAMADA, MANABU                | 3,089,502 |
|                                           |           | WILLMS, ERIC                        | 3,089,282 | YAMADA, MITSUO                | 3,089,553 |
|                                           |           |                                     |           | YAMAGA, CYNTHIA               | 3,089,829 |
|                                           |           |                                     |           | YAMASHITA, YUKI               | 3,089,185 |



## Index des demandes PCT entrant en phase nationale

|                               |           |                          |           |
|-------------------------------|-----------|--------------------------|-----------|
| YAN, SHUDE                    | 3,089,260 | ZHENG, PAN               | 3,089,768 |
| YANA MOTTA, SAMUEL F.         | 3,089,233 | ZHOLUDEVA, LYANDYSHA     |           |
| YANG, FAN                     | 3,089,524 | VIKTOROVNA               | 3,089,324 |
| YANG, SHILIN                  | 3,089,522 | ZHOU, JIACHENG           | 3,089,832 |
| YANG, SHUAI                   | 3,089,512 | ZHOU, KE                 | 3,089,272 |
| YANG, XING                    | 3,088,138 | ZHOU, SAMUEL ZIHENG      | 3,089,103 |
| YANG, XINYING                 | 3,089,153 | ZHU, DA                  | 3,082,227 |
| YANG, XINYING                 | 3,089,162 | ZHU, MINGLIAN            | 3,089,494 |
| YANG, XINYING                 | 3,089,269 | ZHU, XIAOYUN             | 3,089,333 |
| YANG, ZONGJUN                 | 3,075,055 | ZHU, YANSONG             | 3,089,167 |
| YANG, ZONGJUN                 | 3,075,059 | ZHU, YING                | 3,089,529 |
| YAOI, ETSUKO                  | 3,089,820 | ZIBINSKY, MIKHAIL        | 3,089,380 |
| YAVUZ, EMRE                   | 3,089,142 | ZILLANTE, DANIEL ANTONIO | 3,089,390 |
| YAZDI, HAMID RISMANI          | 3,089,135 | ZILLANTE, ROBERTO        |           |
| YENICI, HAMIT                 | 3,089,261 | ANTONIO                  | 3,089,390 |
| YING, HUA                     | 3,089,721 | ZILPER TRENCHLESS, INC.  | 3,089,390 |
| YOKOYAMA, HIRONORI            | 3,089,553 | ZOU, HUI                 | 3,089,649 |
| YOO, SUNGEUN                  | 3,089,310 | ZOU, HUI                 | 3,089,653 |
| YOSHIDA, MASAKI               | 3,089,506 | ZOU, YANG                | 3,089,233 |
| YOSHIDA, SHINJI               | 3,089,461 | ZUBEIDAT, ABDALHAMEED    | 3,089,194 |
| YOSHINO KOGYOSYO CO.,<br>LTD. | 3,089,544 | ZUCCHI, XAVIER           | 3,089,599 |
| YOSHINO, CHIAKI               | 3,089,820 | ZUCCHI, XAVIER           | 3,089,611 |
| YOSKOWITZ, DAVID              | 3,089,106 | ZULETA, DAVID            | 3,089,541 |
| YOU, XIN                      | 3,089,382 | ZURGIL, NAOMI            | 3,089,430 |
| YOUNAI, ASHKAAN               | 3,089,380 | ZURMOEHLE, TIM           | 3,089,646 |
| YU, BIN                       | 3,089,192 | ZWETTLER, CHRIS JAMES    | 3,089,189 |
| ZAIDAT, OSAMA O.              | 3,089,132 | ZYMEWORKS INC.           | 3,089,721 |
| ZAMADAR, MATIBUR<br>RAHAMAN   | 3,089,809 | □IMONYTE, IEVA           | 3,089,801 |
| ZAMBROWICZ, BRIAN             | 3,089,331 |                          |           |
| ZANGRILLI, ARIANNA            | 3,089,426 |                          |           |
| ZEILKHA, MOR                  | 3,089,128 |                          |           |
| ZELL, THOMAS                  | 3,089,436 |                          |           |
| ZEMP, ROGER                   | 3,089,693 |                          |           |
| ZENG, QUN                     | 3,089,119 |                          |           |
| ZHAN, HUAXING                 | 3,089,529 |                          |           |
| ZHANG, CHENGKUN               | 3,089,788 |                          |           |
| ZHANG, EMILY                  | 3,089,337 |                          |           |
| ZHANG, FUJUN                  | 3,089,246 |                          |           |
| ZHANG, HAOMING                | 3,089,861 |                          |           |
| ZHANG, HUIHUI                 | 3,089,512 |                          |           |
| ZHANG, JENNIFER R.            | 3,089,590 |                          |           |
| ZHANG, JIE                    | 3,089,868 |                          |           |
| ZHANG, JIMIN                  | 3,089,240 |                          |           |
| ZHANG, JUNZHEN                | 3,089,159 |                          |           |
| ZHANG, LEI                    | 3,089,587 |                          |           |
| ZHANG, LIANSHAN               | 3,089,260 |                          |           |
| ZHANG, NING                   | 3,089,103 |                          |           |
| ZHANG, WEI                    | 3,089,650 |                          |           |
| ZHANG, WENJUN                 | 3,089,254 |                          |           |
| ZHANG, XIAOHUA                | 3,089,788 |                          |           |
| ZHANG, YAN                    | 3,089,704 |                          |           |
| ZHANG, YAN                    | 3,089,768 |                          |           |
| ZHANG, YIBO                   | 3,089,157 |                          |           |
| ZHANG, YU                     | 3,089,220 |                          |           |
| ZHANG, YUN                    | 3,089,512 |                          |           |
| ZHANG, ZHONGFENG              | 3,089,494 |                          |           |
| ZHAO, TAO                     | 3,089,512 |                          |           |
| ZHAO, XI                      | 3,089,819 |                          |           |
| ZHAO, YUFEN                   | 3,089,344 |                          |           |
| ZHENG, LING                   | 3,089,836 |                          |           |
| ZHENG, LING                   | 3,089,837 |                          |           |
| ZHENG, PAN                    | 3,089,704 |                          |           |

# Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

## Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

|                                         |           |                                          |           |                                                                                                                                           |           |
|-----------------------------------------|-----------|------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| A. O. SMITH CORPORATION                 | 3,088,104 | KAPOLNEK, DAVID J.                       | 3,088,354 | TAKAHASHI, JUN                                                                                                                            | 3,088,270 |
| A.R.E. ACCESSORIES, LLC                 | 3,088,765 | KAPOLNEK, DAVID J.                       | 3,088,385 | TAL, MICHAEL                                                                                                                              | 3,088,281 |
| ABRAXIS BIOSCIENCE, LLC                 | 3,087,813 | KATZ, BOB H.                             | 3,088,281 | TANSLEY, GEOFF                                                                                                                            | 3,088,022 |
| ACOSTA-RAMIREZ, HUGO                    | 3,088,468 | KESTER, ROBERT T.                        | 3,088,289 | TARCAU, BENONE                                                                                                                            | 3,087,783 |
| AGIOS PHARMACEUTICALS,<br>INC.          | 3,088,328 | KIM, JAEHO                               | 3,088,255 | THE BOEING COMPANY                                                                                                                        | 3,087,901 |
| ALLTEMP PRODUCTS<br>COMPANY LIMITED     | 3,088,192 | KNAPP, KEITH, II                         | 3,088,434 | THE CHEMOURS COMPANY<br>FC, LLC                                                                                                           | 3,088,186 |
| APPLER, PAUL                            | 3,088,192 | KOPIETZ, MICHAEL                         | 3,087,809 | TRON - TRANSLATIONALE<br>ONKOLOGIE AN DER<br>UNIVERSITÄTSMEDIZIN<br>DER JOHANNES<br>GUTENBERG-<br>UNIVERSITÄT MAINZ<br>GGMBH              | 3,088,393 |
| AVENT, INC.                             | 3,087,783 | KRANZ, LENA MAREEN                       | 3,088,428 | TRON - TRANSLATIONALE<br>ONKOLOGIE AN DER<br>UNIVERSITÄTSMEDIZIN<br>DER JOHANNES<br>GUTENBERG-<br>UNIVERSITÄT MAINZ<br>GEMEINNUTZIGE GMBH | 3,088,428 |
| BAGWELL, ALISON S.                      | 3,087,783 | KREITER, SEBASTIAN                       | 3,088,428 | TSAI, ANDY Y.                                                                                                                             | 3,088,255 |
| BECKER, NEIL M.                         | 3,087,783 | KROESCH, DONALD F.                       | 3,088,430 | TTX COMPANY                                                                                                                               | 3,088,430 |
| BECTON, DICKINSON AND<br>COMPANY        | 3,088,434 | LARSEN, CHRISTOPHER<br>GEORGE (DECEASED) | 3,088,354 | TURECI, OZLEM                                                                                                                             | 3,088,393 |
| BIONTECH CELL & GENE<br>THERAPIES GMBH  | 3,088,393 | LARSEN, CHRISTOPHER<br>GEORGE (DECEASED) | 3,088,385 | TWEEDT, DANIEL<br>LAWRENCE                                                                                                                | 3,088,247 |
| BIONTECH RNA<br>PHARMACEUTICALS<br>GMBH | 3,088,428 | LI, WEN                                  | 3,087,901 | UNIVERSITY OF LEICESTER                                                                                                                   | 3,087,933 |
| BRANECKY, BRIAN T.                      | 3,088,104 | LI, XIAOLONG                             | 3,088,255 | VARSAVSKY, ANDREA                                                                                                                         | 3,088,255 |
| BRUECKERT, RICHARD A.                   | 3,088,430 | LIANG, BRADLEY C.                        | 3,088,255 | WILSON, PETE                                                                                                                              | 3,088,281 |
| CONTRAMED, LLC                          | 3,088,281 | LIU, MIKE C.                             | 3,088,255 | WOODARD, STEVE                                                                                                                            | 3,088,022 |
| COULTER, CAL                            | 3,088,468 | LOREE, HOWARD M., II                     | 3,088,022 | YU, FEI                                                                                                                                   | 3,088,255 |
| CRANTON, GEORGE A.                      | 3,088,192 | MCMICHAEL, DONALD J.                     | 3,087,783 | ZENIMAX MEDIA INC.                                                                                                                        | 3,087,809 |
| CUNNINGHAM, TIMOTHY J.                  | 3,088,354 | MEDTRONIC MINIMED, INC.                  | 3,088,255 | ZHOU, CHAOYIN                                                                                                                             | 3,087,901 |
| CUNNINGHAM, TIMOTHY J.                  | 3,088,385 | MENG, MARTIN                             | 3,088,428 |                                                                                                                                           |           |
| DEBISSCHOP, MARK JAMES                  | 3,088,281 | MICRO MOTION, INC.                       | 3,088,354 |                                                                                                                                           |           |
| DEMOPULOS, GREGORY A.                   | 3,087,933 | MICRO MOTION, INC.                       | 3,088,385 |                                                                                                                                           |           |
| DIKEN, MUSTAFA                          | 3,088,428 | NAPPA, MARIO JOSEPH                      | 3,088,186 |                                                                                                                                           |           |
| ENGEL, TALY G.                          | 3,088,255 | NISHIDA, JEFFREY                         | 3,088,255 |                                                                                                                                           |           |
| ENGLEMAN, RUSS                          | 3,088,468 | NOGUEIRA, KEITH                          | 3,088,255 |                                                                                                                                           |           |
| FITZGERALD, JANICE<br>ARLINE            | 3,088,104 | NOWAK, ANDREW P.                         | 3,087,901 |                                                                                                                                           |           |
| FLOW FORWARD MEDICAL,<br>INC.           | 3,088,022 | OMEROS CORPORATION                       | 3,087,933 |                                                                                                                                           |           |
| FRANANO, F. NICHOLAS                    | 3,088,022 | OMOKOKO, TANA                            | 3,088,393 |                                                                                                                                           |           |
| FRENCH, JAMES E.                        | 3,087,901 | RAVENSTIJN, PAULIEN<br>GERADA MARIA      | 3,088,401 |                                                                                                                                           |           |
| FRITZ, DANIEL                           | 3,088,428 | REBELLION PHOTONICS, INC.                | 3,088,289 |                                                                                                                                           |           |
| GAUTHAM,<br>RAGHAVENDHAR                | 3,088,255 | RENSING, MATTHEW J.                      | 3,088,354 |                                                                                                                                           |           |
| GENERAL ELECTRIC<br>COMPANY             | 3,088,247 | RENSING, MATTHEW J.                      | 3,088,385 |                                                                                                                                           |           |
| GOPAL, SRIHARI                          | 3,088,401 | REUTER, KERSTIN                          | 3,088,428 |                                                                                                                                           |           |
| GPCP IP HOLDINGS LLC                    | 3,087,879 | ROHR, ANDREW N.                          | 3,088,765 |                                                                                                                                           |           |
| GPCP IP HOLDINGS LLC                    | 3,087,882 | RUSSU, ALBERTO                           | 3,088,401 |                                                                                                                                           |           |
| GUERRERO, ADRIANA                       | 3,088,468 | SAHIN, UGUR                              | 3,088,393 |                                                                                                                                           |           |
| GUESS, WILLIAM A.                       | 3,088,430 | SAHIN, UGUR                              | 3,088,428 |                                                                                                                                           |           |
| HAAS, HEINRICH                          | 3,088,428 | SAMTANI, MAHESH NARAIN                   | 3,088,401 |                                                                                                                                           |           |
| HAGAN, NATHAN A.                        | 3,088,289 | SCHWAEBLE, HANS-<br>WILHELM              | 3,087,933 |                                                                                                                                           |           |
| HILL, ROBERT E., JR.                    | 3,088,765 | SHAH, RAJIV                              | 3,088,255 |                                                                                                                                           |           |
| HORVATH, JOSHUA                         | 3,088,434 | SHARP, RICHARD E.                        | 3,087,901 |                                                                                                                                           |           |
| HUTTO, BARRETT                          | 3,088,022 | SHIKHMAN, OLEG                           | 3,088,281 |                                                                                                                                           |           |
| JANSSEN<br>PHARMACEUTICALS<br>INC.      | 3,088,401 | SIMON, PETRA                             | 3,088,393 |                                                                                                                                           |           |
|                                         |           | SOON-SHIONG, PATRICK                     | 3,087,813 |                                                                                                                                           |           |
|                                         |           | SU, SHIN-SAN MICHAEL                     | 3,088,328 |                                                                                                                                           |           |
|                                         |           | SUMITOMO DAINIPPON<br>PHARMA CO., LTD.   | 3,088,270 |                                                                                                                                           |           |
|                                         |           | SUNCOR ENERGY INC.                       | 3,088,468 |                                                                                                                                           |           |
|                                         |           | SZE, DANIEL H.                           | 3,087,879 |                                                                                                                                           |           |
|                                         |           | SZE, DANIEL H.                           | 3,087,882 |                                                                                                                                           |           |
|                                         |           | TAI, KOK-MING                            | 3,087,783 |                                                                                                                                           |           |