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# The Patent

Office Record

# La Gazette

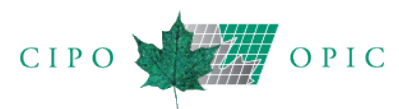
du Bureau des brevets



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Canada



# THE CANADIAN PATENT OFFICE RECORD

## LA GAZETTE DU BUREAU DES 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.

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## 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:

2,874,371

## 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 :

2,874,371

## 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 June 3, 2020

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1961*
For each additional sheet over 30	\$22
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 3 juin 2020

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1961 \$*
Pour chaque feuille au delà de 30	22 \$
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

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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)) \$295

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

\* International fees will be reduced by:

- \$295 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$442 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) 295 \$

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

\* Les frais seront réduits de:

- 295 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- 442 \$ 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

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(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>

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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

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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

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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

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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,

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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.

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### 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



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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.

## Avis

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.

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 February 2, 2021 contains applications open to public inspection from January 17, 2021 to January 23, 2021.

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

La *Gazette du bureau des brevets* du 2 février 2021 contient les demandes disponibles au public pour consultation pour la période du 17 janvier 2021 au 23 janvier 2021.

## Notices

### 16. Erratum

All information respecting patent application number 3,095,430 referred to under the section *PCT Applications Entering the National Phase* contained in the October 27, 2020 issue of the *Canadian Patent Office Record* was erroneously published and should be disregarded.

### 16. Erratum

Toutes les informations relatives à la demande de brevet 3, 095, 430 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro 27 octobre 2020 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

## 17. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2435907**  
Issued: 2012-09-18  
Present Owner: VISIOGEN, INC.

Title: **ACCOMMODATING INTRAOCULAR LENS SYSTEM**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2435907**, entitled "**ACCOMMODATING INTRAOCULAR LENS SYSTEM**" (inventor Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Erica J. Rogers, Albert C. Ting, Gholam-Reza Zadno-Azizi) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2435907** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2435907** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2435907** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2435907**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

## 17. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2435907**  
Delivré: 2012-09-18  
Titulaire actuel : VISIOGEN, INC.

Titre : **SYSTEME DE LENTILLE INTRAOCULAIRE A POUVOIR D'ACCOMMODATION**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2435907**, intitulé «**SYSTEME DE LENTILLE INTRAOCULAIRE A POUVOIR D'ACCOMMODATION**» (inventeur Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Erica J. Rogers, Albert C. Ting, Gholam-Reza Zadno-Azizi) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2435907** pour toute la durée du brevet.

La présente cession du brevet canadien no **2435907** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2435907** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2435907**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6ème jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

## Notices

### 18. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No. 2493673**  
Issued: 2012-04-10  
Present Owner: VISIOGEN, INC.

Title: **METHOD OF PREPARING AN INTRAOCULAR LENS FOR IMPLANTATION**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. 2493673, entitled "METHOD OF PREPARING AN INTRAOCULAR LENS FOR IMPLANTATION" (inventor Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2493673 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2493673 is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2493673 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2493673.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

### 18. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no: 2493673**  
Delivré: 2012-04-10  
Titulaire actuel : VISIOGEN, INC.

Titre : **PROCEDE DE PREPARATION DE LENTILLES INTRAOCULAIRES POUR IMPLANTATION**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no 2493673, intitulé «PROCEDE DE PREPARATION DE LENTILLES INTRAOCULAIRES POUR IMPLANTATION» (inventeur Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2493673 pour toute la durée du brevet.

La présente cession du brevet canadien no 2493673 se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2493673 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2493673.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6<sup>ème</sup> jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

## 19. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2515909**  
Issued: 2012-03-20  
Present Owner: VISIOGEN, INC.

Title: **METHOD AND DEVICE FOR COMPACTING AN INTRAOCULAR LENS**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2515909**, entitled "**METHOD AND DEVICE FOR COMPACTING AN INTRAOCULAR LENS**" (inventor Ian Ayton, Scott Evans, Tuan Nguyen) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2515909** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2515909** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2515909** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2515909**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

## 19. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2515909**  
Delivré: 2012-03-20  
Titulaire actuel : VISIOGEN, INC.

Titre : **PROCEDE ET DISPOSITIF PERMETTANT DE COMPACTER UN CRISTALLIN ARTIFICIEL**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2515909**, intitulé «**PROCEDE ET DISPOSITIF PERMETTANT DE COMPACTER UN CRISTALLIN ARTIFICIEL**» (inventeur Ian Ayton, Scott Evans, Tuan Nguyen) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2515909** pour toute la durée du brevet.

La présente cession du brevet canadien no **2515909** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2515909** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2515909**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6<sup>ème</sup> jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

## Notices

### 20. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2618021**  
Issued: 2014-08-05  
Present Owner: VISIOGEN, INC.

Title: **ACCOMMODATING DIFFRACTIVE  
INTRAOCULAR LENS**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2618021**, entitled "**ACCOMMODATING DIFFRACTIVE INTRAOCULAR LENS**" (inventor Valdemar Portney) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2618021** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2618021** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2618021** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2618021**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

### 20. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2618021**  
Delivré: 2014-08-05  
Titulaire actuel : VISIOGEN, INC.

Titre : **LENTILLE INTRAOCULAIRE DIFFRACTIVE  
A ACCOMMODATION**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2618021**, intitulé «**LENTILLE INTRAOCULAIRE DIFFRACTIVE A ACCOMMODATION**» (inventeur Valdemar Portney) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2618021** pour toute la durée du brevet.

La présente cession du brevet canadien no **2618021** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2618021** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2618021**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6<sup>ème</sup> jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.



## 21. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2718420**  
Issued: 2016-10-11  
Present Owner: VISIOGEN, INC.

Title: **METHOD AND DEVICE FOR INSERTING AN INTRAOCULAR LENS**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2718420**, entitled "**METHOD AND DEVICE FOR INSERTING AN INTRAOCULAR LENS**" (inventor Scott Evans, Phu H. Nguyen, Tuan Anh Nguyen, George Tsai) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2718420** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2718420** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2718420** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2718420**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

## 21. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2849167**  
Delivré: 2016-10-11  
Titulaire actuel : VISIOGEN, INC.

Titre : **PROCEDE ET DISPOSITIF D'INSERTION D'UNE LENTILLE INTRA-OCULAIRE**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2718420**, intitulé «**PROCEDE ET DISPOSITIF D'INSERTION D'UNE LENTILLE INTRA-OCULAIRE**» (inventeur Scott Evans, Phu H. Nguyen, Tuan Anh Nguyen, George Tsai) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2718420** pour toute la durée du brevet.

La présente cession du brevet canadien no **2718420** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2718420** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2718420**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6<sup>ème</sup> jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

## Notices

### 22. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2767318**  
Issued: 2014-07-22  
Present Owner: VISIOGEN, INC.

Title: **ACCOMMODATING INTRAOCULAR LENS SYSTEM WITH SEPARATION MEMBER**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2767318**, entitled "**ACCOMMODATING INTRAOCULAR LENS SYSTEM WITH SEPARATION MEMBER**" (inventor Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2767318** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2767318** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2767318** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2767318**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

### 22. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2767318**  
Delivré: 2014-07-22  
Titulaire actuel : VISIOGEN, INC.

Titre : **SYSTEME DE LENTILLE INTRAOCULAIRE D'ACCOMMODATION A ELEMENT DE SEPARATION**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2767318**, intitulé «**SYSTEME DE LENTILLE INTRAOCULAIRE D'ACCOMMODATION A ELEMENT DE SEPARATION**» (inventeur Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2767318** pour toute la durée du brevet. La présente cession du brevet canadien no **2767318** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2767318** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2767318**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6<sup>ème</sup> jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

## 23. Dedication to the Public

The Commissioner of Patents  
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2849167**  
Issued: 2016-06-28  
Present Owner: VISIOGEN, INC.

Title: **INTRAOCULAR LENSES AND METHODS OF PREPARING OR MAKING SAME**

Subject to the terms of this document, VISIOGEN, INC., as the owner of Canadian Patent No. **2849167**, entitled "**INTRAOCULAR LENSES AND METHODS OF PREPARING OR MAKING SAME**" (inventor Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. **2849167** for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. **2849167** is made without any prejudice to the rights of VISIOGEN, INC. in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. **2849167** and to all persons who now or in the future may hold any rights under Canadian Patent No. **2849167**.

The patentee, VISIOGEN, INC., also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Costa Mesa, California, United States of America, this 6<sup>th</sup> day of December, 2019.

[signature]

Name: Andrew Pang

Title: Assistant Secretary, VISIOGEN, INC.

## 23. Cession au Domaine Public

Le Commissaire des brevets  
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2849167**  
Delivré: 2016-06-28  
Titulaire actuel : VISIOGEN, INC.

Titre : **LENTILLES INTRAOCULAIRES ET PROCEDES DE PREPARATION OU DE FABRICATION DE CELLES-CI**

Par la présente et sous réserve des dispositions du présent document, VISIOGEN, INC., à titre de propriétaire du brevet canadien no **2849167**, intitulé «**LENTILLES INTRAOCULAIRES ET PROCEDES DE PREPARATION OU DE FABRICATION DE CELLES-CI**» (inventeur Tuan Anh Nguyen, Hai-Minh Pham, Valdemar Portney, Albert C. Ting, Gholam-Reza Zadno-Azizi) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no **2849167** pour toute la durée du brevet.

La présente cession du brevet canadien no **2849167** se fait sans préjudice des droits VISIOGEN, INC. sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no **2849167** et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no **2849167**.

Le breveté, VISIOGEN, INC. demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Costa Mesa, California, United States of America, ce 6ème jour de décembre 2019.

[signature]

Nom; : Andrew Pang

Titre: Assistant Secretary, VISIOGEN, INC.

# Canadian Patents Issued

February 2, 2021

## Brevets canadiens délivrés

2 février 2021

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[11] **2,696,319**  
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHOD FOR ASSAYING SEPSIS IN HUMANS**

[54] **PROCEDE D'ANALYSE POUR PREVISION D'UNE SEPTICEMIE CHEZ LES HUMAINS**

[72] GRAF, ROLF, CH  
[72] BIMMLER, DANIEL, CH  
[72] KEEL, MARIUS, CH  
[73] UNIVERSITAET ZUERICH, CH  
[85] 2010-02-11  
[86] 2008-09-02 (PCT/EP2008/007158)  
[87] (WO2009/030456)  
[30] EP (07017539.3) 2007-09-07

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[11] **2,698,052**  
[13] C

[51] **Int.Cl. G16Z 99/00 (2019.01) B41J 29/393 (2006.01) B41M 3/12 (2006.01) B44F 11/00 (2006.01) G06Q 30/00 (2012.01) H04L 12/16 (2006.01)**

[25] EN  
[54] **INTERNET-BASED METHOD AND SYSTEM FOR MAKING USER-CUSTOMIZED STICKERS**

[54] **PROCEDE ET SYSTEME DE FABRICATION D'AUTOCOLLANTS PERSONNALISES PAR L'UTILISATEUR SUR LE WEB**

[72] WITKIN, ANDREW, CA  
[72] EL SHAZLI, TAMER, CA  
[73] STICKERYOU, INC., CA  
[86] (2698052)  
[87] (2698052)  
[22] 2010-03-29  
[30] US (61/164,746) 2009-03-30  
[30] US (61/300,288) 2010-02-01

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[11] **2,700,364**  
[13] C

[51] **Int.Cl. C12M 3/00 (2006.01) C12N 5/071 (2010.01) C12M 3/04 (2006.01) C12N 11/00 (2006.01)**

[25] EN  
[54] **METHOD FOR CREATING PERFUSABLE MICROVESSEL SYSTEMS**

[54] **PROCEDE DE CREATION DE SYSTEMES DE MICROVAISSEAUX PERFUSABLES**

[72] NEUMANN, THOMAS, US  
[73] NORTIS, INC., US  
[85] 2010-03-22  
[86] 2008-09-11 (PCT/US2008/076042)  
[87] (WO2009/042418)  
[30] US (11/860,471) 2007-09-24

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[11] **2,715,042**  
[13] C

[51] **Int.Cl. C12N 15/62 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 39/44 (2006.01) A61P 37/04 (2006.01) C07K 1/22 (2006.01) C07K 14/33 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01)**

[25] EN  
[54] **MULTIVARIABLE ANTIGENS COMPLEXED WITH TARGETING HUMANIZED MONOCLONAL ANTIBODY**

[54] **COMPLEXES D'ANTIGENES MULTIVARIABLES ET D'UN ANTICORPS MONOCLONAL HUMANISE CIBLE**

[72] ZURAWSKI, GERARD, US  
[73] BAYLOR RESEARCH INSTITUTE, US  
[85] 2010-08-02  
[86] 2008-01-31 (PCT/US2008/052714)  
[87] (WO2008/097817)  
[30] US (60/888,029) 2007-02-02

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[11] **2,766,849**  
[13] C

[51] **Int.Cl. E21B 43/22 (2006.01) E21B 43/20 (2006.01) E21B 43/40 (2006.01)**

[25] EN  
[54] **RECOVERY FROM A HYDROCARBON RESERVOIR UTILIZING A MIXTURE OF STEAM AND A VOLATILE SOLVENT**

[54] **RECUPERATION D'UN RESERVOIR D'HYDROCARBURES UTILISANT UN MELANGE DE VAPEUR ET UN SOLVANT VOLATIL**

[72] SCOTT, GEORGE R., CA  
[73] IMPERIAL OIL RESOURCES LIMITED, CA  
[86] (2766849)  
[87] (2766849)  
[22] 2012-02-06

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[11] **2,804,843**  
[13] C

[51] **Int.Cl. G01N 35/00 (2006.01)**

[25] EN  
[54] **MULTIPLE TIME WINDOWS FOR EXTENDING THE RANGE OF AN ASSAY**

[54] **FENETRES TEMPORELLES MULTIPLES PERMETTANT D'ETENDRE LA PLAGE DANS UN DOSAGE**

[72] DIMAGNO, THEODORE J., US  
[73] ORTHO-CLINICAL DIAGNOSTICS, INC., US  
[86] (2804843)  
[87] (2804843)  
[22] 2013-01-30  
[30] US (61/595,408) 2012-02-06

**Brevets canadiens délivrés  
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[11] **2,820,659**  
[13] C

[51] **Int.Cl. A61J 7/00 (2006.01) A61J 7/04 (2006.01) B65B 1/04 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR AUTOMATED FILLING OF PACKAGINGS WITH MEDICATIONS**

[54] **PROCEDES ET APPAREIL POUR REMPLISSAGE AUTOMATIQUE D'EMBALLAGES AVEC DES MEDICAMENTS**

[72] CARSON, BRADLEY E., US  
[72] STOCKER, THOMAS L., US  
[72] DEDEO, JOSEPH T., US  
[72] HOFFMAN, KURTIS J., US  
[72] SZESKO, MICHAEL J., US  
[72] DOWNING, PATRICK D., US  
[73] OMNICARE, INC., US  
[86] (2820659)  
[87] (2820659)  
[22] 2013-06-20  
[30] US (13/529,554) 2012-06-21

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[11] **2,821,080**  
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/4188 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **UNIVERSAL ANTI-TAG CHIMERIC ANTIGEN RECEPTOR-EXPRESSING T CELLS AND METHODS OF TREATING CANCER**

[54] **LYMPHOCYTES T EXPRIMANT UN RECEPTEUR D'ANTIGENE CHIMERIQUE ANTI-ETIQUETTE UNIVERSEL ET METHODES DE TRAITEMENT DU CANCER**

[72] DAVILA, EDUARDO, US  
[72] TAMADA, KOJI, US  
[73] UNIVERSITY OF MARYLAND, BALTIMORE, US  
[85] 2013-06-10  
[86] 2011-12-14 (PCT/US2011/064808)  
[87] (WO2012/082841)  
[30] US (61/422,681) 2010-12-14

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[11] **2,822,422**  
[13] C

[51] **Int.Cl. C12N 9/14 (2006.01) A61K 8/37 (2006.01) A61K 8/38 (2006.01) A61K 8/66 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01) C07K 7/08 (2006.01) C07K 14/00 (2006.01) C07K 19/00 (2006.01) C12N 9/16 (2006.01) C12N 9/48 (2006.01) C12P 7/40 (2006.01)**

[25] EN

[54] **ENZYMATIC PERACID GENERATION FOR USE IN ORAL CARE PRODUCTS**

[54] **GENERATION ENZYMATIQUE DE PERACIDE POUR UNE UTILISATION DANS DES PRODUITS DE SOINS BUCCAUX**

[72] BUTTERICK, LISA A., US  
[72] CUNNINGHAM, SCOTT D., US  
[72] DICOSIMO, ROBERT, US  
[72] FOSSER, KARI A., US  
[72] GRUBER, TANJA MARIA, US  
[72] HAYNIE, SHARON L., US  
[72] PAYNE, MARK S., US  
[72] ROUVIERE, PIERRE E., US  
[72] WANG, HONG, US  
[73] NUTRITION & BIOSCIENCES USA 4, INC., US  
[85] 2013-06-19  
[86] 2011-12-19 (PCT/US2011/065912)  
[87] (WO2012/087970)  
[30] US (61/424,903) 2010-12-20

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[11] **2,824,067**  
[13] C

[51] **Int.Cl. C12Q 1/02 (2006.01) A23L 27/00 (2016.01) A23L 27/30 (2016.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PROVIDING OR MODULATING SWEET TASTE AND METHODS OF SCREENING THEREFOR**

[54] **COMPOSITIONS ET PROCEDES POUR APPORTER OU MODULER LE GOUT SUCRE, ET PROCEDES DE RECHERCHE SYSTEMATIQUE S'Y RAPPORTANT**

[72] MARGOLSKEE, ROBERT FRANKLIN, US  
[73] MONELL CHEMICAL SENSES CENTER, US  
[85] 2013-07-05  
[86] 2012-01-17 (PCT/US2012/021498)  
[87] (WO2012/102900)  
[30] US (61/435,904) 2011-01-25

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[11] **2,826,380**  
[13] C

[51] **Int.Cl. H04L 12/58 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR UNIFIED MANAGEMENT OF COMMUNICATION EVENTS**

[54] **PROCEDE ET SYSTEME DE GESTION UNIFIEE D'EVENEMENTS DE COMMUNICATION**

[72] ARORA, NEHAR, US  
[72] GRISINGER, DANIEL, US  
[72] KADAKIA, NIRAV, US  
[73] VONAGE AMERICA LLC, US  
[85] 2013-08-01  
[86] 2012-01-19 (PCT/US2012/021816)  
[87] (WO2012/106126)  
[30] US (13/019,757) 2011-02-02

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[11] **2,828,649**  
[13] C

[51] **Int.Cl. C12N 15/62 (2006.01) C12N 9/12 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **KINASE SUBSTRATE SENSOR**

[54] **SONDE DE DETECTION DE SUBSTRAT DE KINASE**

[72] TAVERNIER, JAN, BE  
[72] LIEVENS, SAMUEL, BE  
[73] VIB VZW, BE  
[73] UNIVERSITEIT GENT, BE  
[85] 2013-08-29  
[86] 2012-02-29 (PCT/EP2012/053463)  
[87] (WO2012/117031)  
[30] GB (1103453.5) 2011-03-01  
[30] US (61/464,285) 2011-03-01

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[11] **2,830,674**  
[13] C

[51] **Int.Cl. B65D 5/50 (2006.01)**

[25] EN

[54] **CARD PRODUCT PACKAGE ASSEMBLY HAVING ENHANCED SECURITY**

[54] **ENSEMBLE D'EMBALLAGE DE PRODUITS DE CARTON A SECURITE AMELIOREE**

[72] BEYER, DARREN, US  
[72] BOSTWICK, CASEY, US  
[73] BLACKHAWK NETWORK, INC., US  
[86] (2830674)  
[87] (2830674)  
[22] 2013-10-21  
[30] US (13/719,689) 2012-12-19  
[30] US (61/718,622) 2012-10-25

**Canadian Patents Issued  
February 2, 2021**

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[11] **2,832,190**  
[13] C

[51] **Int.Cl. A01B 29/04 (2006.01) B60C 3/00 (2006.01)**  
[25] FR  
[54] **SEMI-HOLLOW TIRE WITH IMPROVED PROFILE AND ROLLING STOCK EQUIPPED WITH SUCH TIRES**  
[54] **PNEUMATIQUE SEMI-CREUX A PROFIL AMELIORE ET ORGANE ROULANT EQUIPE DE TELS PNEUMATIQUES**  
[72] PHELY, OLIVIER, FR  
[72] PIOU, DENIS, FR  
[73] OTICO, FR  
[86] (2832190)  
[87] (2832190)  
[22] 2013-11-01  
[30] FR (12/02979) 2012-11-07

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[11] **2,832,913**  
[13] C

[51] **Int.Cl. C11B 1/10 (2006.01) A23D 9/04 (2006.01) A23J 1/04 (2006.01) A23J 7/00 (2006.01) C11B 3/00 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR THE ISOLATION OF A PHOSPHOLIPID**  
[54] **PROCEDE POUR L'ISOLEMENT D'UN PHOSPHOLIPIDE**  
[72] SOERENSEN, HANS OTTO, DK  
[72] JENSEN, NILS CHRISTIAN, DK  
[73] POLAR OMEGA A/S, DK  
[85] 2013-10-10  
[86] 2012-04-13 (PCT/DK2012/050124)  
[87] (WO2012/139588)  
[30] EP (11162366.6) 2011-04-14

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[11] **2,833,831**  
[13] C

[51] **Int.Cl. A63F 3/06 (2006.01)**  
[25] EN  
[54] **METHODS FOR SECURING VARIABLE INDICIA ON INSTANT (SCRATCH-OFF) TICKETS**  
[54] **PROCEDES POUR FIXER DES INDICES VARIABLES SUR DES TICKETS INSTANTANES (A GRATTER)**  
[72] BEHM, WILLIAM F., US  
[72] IRWIN, KENNETH EARL, JR., US  
[73] SCIENTIFIC GAMES HOLDINGS LIMITED, IE  
[85] 2013-10-21  
[86] 2012-04-19 (PCT/IB2012/051978)  
[87] (WO2012/143889)  
[30] US (13/092,263) 2011-04-22

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[11] **2,835,372**  
[13] C

[51] **Int.Cl. A01M 1/04 (2006.01) A01M 1/00 (2006.01) A01M 1/02 (2006.01)**  
[25] EN  
[54] **FLYING INSECT ATTRACTION STATION**  
[54] **STATION D'ATTRACTION D'INSECTES VOLANTS**  
[72] JOHNSTON, STACI J., US  
[72] GARDNER, DOUGLAS B., US  
[72] NELSON, THOMAS D., US  
[73] ECOLAB USA INC., US  
[85] 2013-11-07  
[86] 2012-04-26 (PCT/IB2012/052097)  
[87] (WO2012/172441)  
[30] US (13/160,921) 2011-06-15

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[11] **2,842,487**  
[13] C

[51] **Int.Cl. A61K 38/42 (2006.01) A61K 33/00 (2006.01) A61P 17/02 (2006.01)**  
[25] EN  
[54] **WOUND SPRAY**  
[54] **PULVERISATION POUR PLAIES**  
[72] SANDER, MICHAEL, DE  
[72] POTZSCHKE, HARALD, DE  
[73] MOLNLYCKE HEALTH CARE AB, SE  
[85] 2014-01-20  
[86] 2012-07-23 (PCT/EP2012/003086)  
[87] (WO2013/013799)  
[30] EP (11006057.1) 2011-07-23

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[11] **2,844,181**  
[13] C

[51] **Int.Cl. A01G 23/093 (2006.01)**  
[25] EN  
[54] **A TIMBER-WORKING HEAD AND METHOD OF OPERATION**  
[54] **TETE DE TRAVAIL DU BOIS ET PROCEDE DE FONCTIONNEMENT**  
[72] KAYE, BRETT JAMES, NZ  
[73] WARATAH NZ LIMITED, NZ  
[86] (2844181)  
[87] (2844181)  
[22] 2014-02-28  
[30] NZ (607713) 2013-02-28

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[11] **2,844,871**  
[13] C

[51] **Int.Cl. H04L 12/16 (2006.01) H04W 4/00 (2018.01)**  
[25] EN  
[54] **NON-INVASIVE REMOTE ACCESS TO AN APPLICATION PROGRAM**  
[54] **ACCES DISTANT NON INVASIF VERS UN PROGRAMME APPLICATIF**  
[72] THOMAS, MONROE M., CA  
[72] LEHMANN, GLEN, CA  
[72] STEPHURE, MATTHEW, CA  
[72] MCFADZEAN, DAVID B., CA  
[72] LEMIRE, PIERRE JOSEPH, CA  
[72] TAERUM, TORIN ARNI, CA  
[73] CALGARY SCIENTIFIC INC., CA  
[85] 2014-02-11  
[86] 2012-08-15 (PCT/IB2012/001590)  
[87] (WO2013/024343)  
[30] US (61/523,632) 2011-08-15  
[30] US (61/523,644) 2011-08-15

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[11] **2,845,046**  
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/068 (2006.01) A61B 17/295 (2006.01) A61B 17/94 (2006.01)**  
[25] EN  
[54] **ARTICULATION JOINT FOR APPARATUS FOR ENDOSCOPIC PROCEDURES**  
[54] **JOINT D'ARTICULATION POUR APPAREIL POUR PROCEDURES ENDOSCOPIQUES**  
[72] FISCHVOGT, GREGORY, US  
[72] SNIFFIN, KEVIN, US  
[72] RUSSO, MARK, US  
[72] BREINDEL, JAY, US  
[73] COVIDIEN LP, US  
[86] (2845046)  
[87] (2845046)  
[22] 2014-03-06  
[30] US (61/783,559) 2013-03-14  
[30] US (14/172,101) 2014-02-04

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**Brevets canadiens délivrés  
2 février 2021**

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[11] **2,847,761**  
[13] C

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 40/20 (2018.01) A61J 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR FACILITATING PHARMACEUTICAL PATIENT ASSESSMENTS**

[54] **SYSTEMES ET METHODES DE FACILITATION D'EVALUATIONS PHARMACEUTIQUES DE PATIENT**

[72] SCHOCK, SHERI-LYN, CA  
[72] DIMOVSKI, STEPHANIE, CA  
[72] COLVIN, KATHY, CA  
[72] GRANT, JEFF, CA  
[72] LEGER, RICKY, CA  
[72] AKESTER, BARRY, CA  
[72] POPLEY, CARLISLE, CA  
[72] CHIH, JENNY, CA  
[73] MCKESSON CANADA CORPORATION, US

[86] (2847761)  
[87] (2847761)  
[22] 2014-03-31

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[11] **2,848,060**  
[13] C

[51] **Int.Cl. E21B 23/04 (2006.01) E21B 4/14 (2006.01)**

[25] EN

[54] **DEVICES AND RELATED METHODS FOR ACTUATING WELLBORE TOOLS WITH A PRESSURIZED GAS**

[54] **DISPOSITIFS ET METHODES ASSOCIEES D'ACTIONNEMENT D'OUTILS DE PUIITS DE FORAGE A GAZ SOUS PRESSION**

[72] WOOD, JEFFREY D., US  
[72] BAKER, KEVIN L., US  
[72] CLAY, MATTHEW C., US  
[73] OWEN OIL TOOLS LP, US

[86] (2848060)  
[87] (2848060)  
[22] 2014-04-04

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[11] **2,850,964**  
[13] C

[51] **Int.Cl. A61K 31/4174 (2006.01) A61P 25/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING FOOT OR HAND PAIN**

[54] **PROCEDES ET COMPOSITIONS POUR TRAITER UNE DOULEUR DU PIED OU DE LA MAIN**

[72] SANDERS, JENNIFER L., US  
[73] SANDERS, JENNIFER L., US

[85] 2014-04-02  
[86] 2012-10-05 (PCT/US2012/058907)  
[87] (WO2013/052770)  
[30] US (61/543,445) 2011-10-05

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[11] **2,852,119**  
[13] C

[51] **Int.Cl. E21C 35/00 (2006.01) F15B 19/00 (2006.01) F15B 20/00 (2006.01) F16N 29/04 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING A FLUID SYSTEM OF A MINING MACHINE**

[54] **SYSTEMES ET METHODES DE SURVEILLANCE D'UN SYSTEME DE FLUIDE D'UNE MACHINE D'EXTRACTION MINIERE**

[72] HAISLER, MICHAEL, US  
[72] GUDUR, SHASHI, US  
[72] BHUSHAN, ANUBHAW, US  
[73] JOY GLOBAL SURFACE MINING INC, US

[85] 2014-05-22  
[86] 2014-02-18 (PCT/US2014/016946)  
[87] (WO2014/127368)  
[30] US (61/766,080) 2013-02-18

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[11] **2,858,882**  
[13] C

[51] **Int.Cl. A61K 31/435 (2006.01) A61K 31/34 (2006.01) A61K 31/35 (2006.01) A61K 31/353 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **AUTOIMMUNE DISORDER TREATMENT USING RXR AGONISTS**

[54] **TRAITEMENT DE TROUBLE AUTO-IMMUN A L'AIDE D'AGONISTES RXR**

[72] CHANDRARATNA, ROSHANTHA A., US  
[72] DMITROVSKY, ETHAN, US  
[72] NOWAK, ELIZABETH, US  
[72] NOELLE, RANDOLPH, US  
[73] TRUSTEES OF DARTMOUTH COLLEGE, US

[73] IO THERAPEUTICS, INC., US

[85] 2014-06-10  
[86] 2012-12-13 (PCT/US2012/069566)  
[87] (WO2013/090616)  
[30] US (61/570,182) 2011-12-13

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[11] **2,859,144**  
[13] C

[51] **Int.Cl. A61F 13/42 (2006.01) G08B 21/04 (2006.01) H04M 11/04 (2006.01)**

[25] EN

[54] **METHOD AND COMPUTER PROGRAM FOR MONITORING USE OF AN ABSORBENT PRODUCT**

[54] **PROCEDE ET PROGRAMME INFORMATIQUE POUR SURVEILLER L'UTILISATION D'UN PRODUIT ABSORBANT**

[72] CARNEY, JOSHUA, SE  
[72] CARLEN, HENRIK, SE  
[73] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE

[85] 2014-06-12  
[86] 2011-12-21 (PCT/SE2011/051566)  
[87] (WO2013/095231)

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[13] C

[51] **Int.Cl. H01R 13/447 (2006.01)**  
[25] EN  
[54] **TAMPER-RESISTANT ASSEMBLY WITH WEAR-RESISTANT SHUTTERS**  
[54] **ENSEMBLE INVOLABLE AVEC VOLETS RESISTANTS A L'USURE**  
[72] SCANZILLO, THOMAS L., US  
[72] BAZAYEV, EDWARD, US  
[73] HUBBELL INCORPORATED, US  
[86] (2860722)  
[87] (2860722)  
[22] 2014-08-27  
[30] US (61/871,723) 2013-08-29  
[30] US (14/466,393) 2014-08-22

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[11] **2,862,039**  
[13] C

[51] **Int.Cl. C10G 65/02 (2006.01) C10G 65/04 (2006.01)**  
[25] EN  
[54] **PROCESS FOR HYDROTREATING A HYDROCARBON OIL**  
[54] **PROCEDE D'HYDROTRAITEMENT D'UNE HUILE HYDROCARBONEE**  
[72] VAN DOESBURG, EDMUNDO STEVEN, NL  
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL  
[85] 2014-06-27  
[86] 2012-12-27 (PCT/EP2012/076966)  
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[30] EP (11195994.6) 2011-12-29

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[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) B81B 7/02 (2006.01)**  
[25] EN  
[54] **CONNECTION METHOD FOR MEMS NAVIGATION UNIT FOR COMPUTER-ASSISTED SURGERY**  
[54] **PROCEDE DE RACCORDEMENT POUR UNE UNITE DE NAVIGATION MEMS POUR CHIRURGIE ASSISTEE PAR ORDINATEUR**  
[72] NGUYEN, TIN, CA  
[72] LEONE, YVAN, CA  
[72] PELLETIER, BENOIT, CA  
[73] ORTHOSOFT ULC, CA  
[85] 2014-06-20  
[86] 2012-12-21 (PCT/CA2012/050935)  
[87] (WO2013/091112)  
[30] US (61/579,783) 2011-12-23

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[11] **2,863,158**  
[13] C

[51] **Int.Cl. C12N 15/09 (2006.01) A01H 5/00 (2018.01) C07H 17/06 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 9/10 (2006.01) C12N 15/54 (2006.01) C12N 15/82 (2006.01) C12P 19/18 (2006.01) C12P 19/60 (2006.01)**  
[25] EN  
[54] **GLYCOSYLTRANSFERASE GENE AND USE THEREOF**  
[54] **GENE DE GLYCOSYLTRANSFERASE ET SON UTILISATION**  
[72] TANAKA, YOSHIKAZU, JP  
[72] OKITSU, NAOKO, JP  
[72] MATSUI, KEISUKE, JP  
[73] SUNTORY HOLDINGS LIMITED, JP  
[85] 2014-07-09  
[86] 2013-01-16 (PCT/JP2013/050689)  
[87] (WO2013/108794)  
[30] JP (2012-007105) 2012-01-17

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[13] C

[51] **Int.Cl. B60B 27/02 (2006.01) B62B 1/00 (2006.01) B65F 1/00 (2006.01)**  
[25] EN  
[54] **WHEEL AND HUB ASSEMBLIES REMOVABLE WITHOUT TOOLS**  
[54] **ENSEMBLES ROUE ET MOYEU POUVANT ETRE RETIRES SANS OUTIL**  
[72] PALLEVA, WILLIAM MICHAEL, US  
[72] MORRIS, MICHAEL ABRAHAM, US  
[73] GEO PLASTICS, US  
[85] 2014-08-06  
[86] 2013-02-06 (PCT/US2013/024990)  
[87] (WO2013/119709)  
[30] US (61/596,112) 2012-02-07  
[30] US (61/680,861) 2012-08-08  
[30] US (13/652,273) 2012-10-15

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[11] **2,864,151**  
[13] C

[51] **Int.Cl. H04L 9/30 (2006.01) G06F 21/45 (2013.01) G06F 7/00 (2006.01)**  
[25] EN  
[54] **KEY MANAGEMENT ON DEVICE FOR PERIMETERS**  
[54] **GESTION DE CLE SUR UN DISPOSITIF POUR DES PERIMETRES**  
[72] NAGARAJAN, SIVAKUMAR, CA  
[72] DIKIC, SRDAN, CA  
[72] MCCONNAUGHAY, MARK A., CA  
[72] BENDER, CHRISTOPHER LYLE, CA  
[72] BOZSITZ, MARIUS, CA  
[73] BLACKBERRY LIMITED, CA  
[73] BLACKBERRY LIMITED, CA  
[85] 2014-08-08  
[86] 2013-01-30 (PCT/CA2013/000074)  
[87] (WO2013/120169)  
[30] EP (12155659.1) 2012-02-15

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[11] **2,864,346**  
[13] C

[51] **Int.Cl. A47K 11/10 (2006.01) E03D 9/10 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DISPOSAL OF MUTAGEN WASTE**  
[54] **SYSTEME ET PROCEDE D'ELIMINATION DE DECHETS MUTAGENES**  
[72] MULLOWNEY, JAMES T., JR., US  
[72] O'KEEFE, THERESA L., US  
[73] PHARMA-CYCLE, LLC, US  
[85] 2014-08-11  
[86] 2012-12-24 (PCT/US2012/071590)  
[87] (WO2013/122676)  
[30] US (61/598,317) 2012-02-13



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[13] C

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[25] EN  
[54] **USE OF PURE CELLULOSE IN INCREASING THE ENERGY CONTENT OF FODDER**  
[54] **UTILISATION DE CELLULOSE PURE POUR AUGMENTER LA TENEUR ENERGETIQUE DU FOURRAGE**  
[72] VANHATALO, KARI, FI  
[72] DAHL, OLLI, FI  
[72] PARVIAINEN, KARI, FI  
[73] AALTO UNIVERSITY FOUNDATION SR, FI  
[85] 2014-08-19  
[86] 2013-03-07 (PCT/FI2013/050250)  
[87] (WO2013/132159)  
[30] US (61/607,603) 2012-03-07

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[11] **2,866,097**  
[13] C

[51] **Int.Cl. C12N 15/10 (2006.01) C07K 14/00 (2006.01)**  
[25] EN  
[54] **MEMBRANE SPAN-KINASE FUSION PROTEIN AND THE USES THEREOF**  
[54] **PROTEINE DE FUSION TRANSMEMBRANAIRE-KINASE ET LES UTILISATIONS DE CELLE-CI**  
[72] TAVERNIER, JAN, BE  
[72] LIEVENS, SAMUEL, BE  
[73] VIB VZW, BE  
[73] UNIVERSITEIT GENT, BE  
[85] 2014-09-02  
[86] 2013-03-06 (PCT/EP2013/054507)  
[87] (WO2013/131957)  
[30] EP (12158276.1) 2012-03-06

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[11] **2,867,487**  
[13] C

[51] **Int.Cl. A61K 35/26 (2015.01) C12N 5/078 (2010.01) A61P 37/06 (2006.01) C12N 5/077 (2010.01)**  
[25] EN  
[54] **ISOLATION AND USE OF HUMAN LYMPHOID ORGAN-DERIVED SUPPRESSIVE STROMAL CELLS**  
[54] **ISOLEMENT ET UTILISATION DE CELLULES STROMALES SUPPRESSIVES DERIVEES D'UN ORGAN LYMPHOIDE HUMAIN**  
[72] FLETCHER, ANNE, AU  
[72] TURLEY, SHANNON J., US  
[72] PAREKKADAN, BIJU, US  
[73] DANA-FARBER CANCER INSTITUTE, INC., US  
[73] THE GENERAL HOSPITAL CORPORATION D/B/A MASSACHUSETTS GENERAL HOSPITAL, US  
[85] 2014-09-15  
[86] 2013-03-13 (PCT/US2013/030802)  
[87] (WO2013/142186)  
[30] US (61/613,697) 2012-03-21

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[11] **2,868,972**  
[13] C

[51] **Int.Cl. F16L 15/06 (2006.01)**  
[25] EN  
[54] **TRAPEZOIDIAL THREAD FORM HAVING A WEAR INDICATOR AND HIGH PRESSURE CONNECTION FITTING COMPRISING SAME**  
[54] **FORME DE FILETAGE TRAPEZOIDALE A INDICATEUR D'USURE ET ACCESSOIRE DE RACCORDEMENT A HAUTE PRESSION LE COMPRENANT**  
[72] NASHERY, KHASHAYAR A., US  
[72] SCHEFFLER, DOUGLAS J., US  
[73] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US  
[85] 2014-09-29  
[86] 2013-03-27 (PCT/US2013/034065)  
[87] (WO2013/148814)  
[30] US (61/618,382) 2012-03-30

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[11] **2,869,408**  
[13] C

[51] **Int.Cl. A61N 7/00 (2006.01) A61F 9/00 (2006.01)**  
[25] EN  
[54] **METHOD, SYSTEM AND USE FOR THERAPEUTIC ULTRASOUND**  
[54] **PROCEDE, SYSTEME ET UTILISATION D'ULTRASON THERAPEUTIQUE**  
[72] BUJAK, MATTHEW, CA  
[73] BUJAK, MATTHEW, CA  
[85] 2014-10-02  
[86] 2013-03-15 (PCT/CA2013/000225)  
[87] (WO2013/149318)  
[30] US (61/620,723) 2012-04-05

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[11] **2,870,087**  
[13] C

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 217/24 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 495/04 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED ISOQUINOLIN-1(2H)-ONE COMPOUNDS AND THEIR USE AS PHOSPHOINOSITIDE 3-KINASE (PI3K) INHIBITORS**  
[54] **COMPOSES ISOQUINOLEINE-1(2H)-ONE SUBSTITUES ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE PHOSPHOINOSITIDE 3-KINASE (PI3K)**  
[72] CASTRO, ALFREDO C., US  
[72] CHAN, KATRINA, US  
[72] EVANS, CATHERINE A., US  
[72] JANARDANANNAIR, SOMARAJANNAIR, US  
[72] LESCARBEAU, ANDRE, US  
[72] LI, LIANSHENG, US  
[72] LIU, TAO, US  
[72] LIU, YI, US  
[72] REN, PINGDA, US  
[72] SNYDER, DANIEL A., US  
[72] TREMBLAY, MARTIN R., US  
[73] INFINITY PHARMACEUTICALS, INC., US  
[85] 2014-10-09  
[86] 2013-04-03 (PCT/US2013/035069)  
[87] (WO2013/154878)  
[30] US (61/622,259) 2012-04-10  
[30] US (61/713,404) 2012-10-12

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[13] C

[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/11 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **T CELL RECEPTOR-DEFICIENT T CELL COMPOSITIONS**

[54] **COMPOSITIONS DE LYMPHOCYTES T DEFICIENTS EN RECEPTEUR DE LYMPHOCYTE T**

[72] SENTMAN, CHARLES L., US

[73] THE TRUSTEES OF DARTMOUTH COLLEGE, US

[85] 2014-10-29

[86] 2013-04-30 (PCT/US2013/038921)

[87] (WO2013/166051)

[30] US (13/459,664) 2012-04-30

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[11] **2,873,580**  
[13] C

[51] **Int.Cl. A61K 31/202 (2006.01) A61K 31/232 (2006.01) A61P 7/12 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) G01N 30/88 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **CARDIOVASCULAR DISEASE PRIMARY PREVENTION AGENT FOR PATIENTS HAVING HIGH BLOOD LEVELS OF HIGH-SENSITIVITY C-REACTIVE PROTEIN**

[54] **AGENT DE PREVENTION PRIMAIRE DE MALADIE CARDIOVASCULAIRE POUR DES PATIENTS AYANT DES CONCENTRATIONS SANGUINES ELEVEES DE PROTEINE C REACTIVE A HAUTE SENSIBILITE**

[72] KIYOHARA, YUTAKA, JP

[72] NINOMIYA, TOSHIHARU, JP

[72] YANO, TAKASHI, JP

[73] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP

[73] MOCHIDA PHARMACEUTICAL CO., LTD., JP

[85] 2014-11-12

[86] 2013-05-14 (PCT/JP2013/063419)

[87] (WO2013/172344)

[30] JP (2012-111900) 2012-05-15

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[11] **\*2,874,371**  
[13] C

[51] **Int.Cl. A61B 5/1172 (2016.01) A61B 5/145 (2006.01) A61B 5/157 (2006.01) B60K 28/06 (2006.01) G06K 9/00 (2006.01)**

[25] EN

[54] **PROVIDING AN ID-VERIFIED BLOOD TEST**

[54] **FOURNITURE DE TEST SANGUIN A ID VERIFIEE**

[72] BAUGHMAN, AARON K., US

[72] MALKIN, PETER K., US

[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2014-11-20

[86] 2013-04-16 (PCT/US2013/036681)

[87] (WO2014/003873)

[30] US (13/538,423) 2012-06-29

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[11] **2,874,574**  
[13] C

[51] **Int.Cl. C12P 21/00 (2006.01) C12N 9/24 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING AN ENZYME COCKTAIL USING THE LIQUID RESIDUE FROM A METHOD FOR BIOCHEMICALLY CONVERTING LIGNOCELLULOSIC MATERIALS**

[54] **PROCEDE DE PRODUCTION D'UN COCKTAIL ENZYMATIQUE UTILISANT LES RESIDUS LIQUIDES D'UN PROCEDE DE CONVERSION BIOCHIMIQUE DE MATERIAUX LIGNO-CELLULOSIQUES**

[72] BEN CHAABANE, FADHEL, FR

[72] LOURET, SYLVAIN, FR

[73] IFP ENERGIES NOUVELLES, FR

[85] 2014-11-24

[86] 2013-06-10 (PCT/FR2013/051340)

[87] (WO2013/190214)

[30] FR (12/01730) 2012-06-18

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[11] **2,875,636**  
[13] C

[51] **Int.Cl. C04B 22/14 (2006.01) C01F 11/46 (2006.01) C04B 28/14 (2006.01) C04B 40/00 (2006.01)**

[25] EN

[54] **SYNTHESIS AND USE OF GYPSUM SEEDING MATERIAL**

[54] **SYNTHESE ET UTILISATION DE SUBSTANCE D'ENSEMENCEMENT DE GYPSE**

[72] LOGES, NIKLAS, DE

[72] GEHRIG, UWE, DE

[72] SCHINABECK, MICHAEL, DE

[72] DIERSCHKE, FRANK, DE

[72] BRAU, MICHAEL, DE

[72] NICOLEAU, LUC, DE

[73] BASF CONSTRUCTION SOLUTIONS GMBH, DE

[85] 2014-12-03

[86] 2013-06-14 (PCT/EP2013/062328)

[87] (WO2014/012720)

[30] EP (12177315.4) 2012-07-20

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[11] **2,875,841**  
[13] C

[51] **Int.Cl. A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61P 19/08 (2006.01) C12N 1/20 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **SELECTION AND USE OF LACTIC ACID BACTERIA PREVENTING BONE LOSS IN MAMMALS**

[54] **SELECTION ET UTILISATION DE BACTERIES LACTIQUES PREVENANT LA PERTE OSSEUSE CHEZ DES MAMMIFERES**

[72] CONNOLLY, EAMONN, SE

[72] BRITTON, ROBERT ALLEN, II, US

[72] MCCABE, LAURA RAE, US

[73] MICHIGAN STATE UNIVERSITY, US

[73] BIOGAIA AB, SE

[85] 2014-12-04

[86] 2013-06-04 (PCT/SE2013/050646)

[87] (WO2013/184064)

[30] US (61/689,338) 2012-06-04

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[13] C

[51] **Int.Cl. C25B 11/02 (2021.01) H01M 8/0656 (2016.01)**  
[25] EN  
[54] **BIPOLAR ELECTRODE AND METHOD FOR PRODUCING SAME**  
[54] **ELECTRODE BIPOLAIRE ET PROCEDE DE PRODUCTION DE CELLE-CI**  
[72] VANDENBORRE, HUGO JAN BAPTIST, BE  
[72] DUBOIS, ERIC, BE  
[72] ZANDONA, NICOLA, BE  
[73] SOLVAY SA, BE  
[85] 2014-12-09  
[86] 2013-06-20 (PCT/EP2013/062938)  
[87] (WO2013/190066)  
[30] EP (12172835.6) 2012-06-20

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[11] **2,877,285**  
[13] C

[51] **Int.Cl. G01N 21/75 (2006.01) G01N 33/02 (2006.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **SAMPLE COLLECTION AND BIOLUMINESCENT ANALYSIS SYSTEM**  
[54] **SYSTEME DE COLLECTE D'ECHANTILLON ET D'ANALYSE BIOLUMINESCENTE**  
[72] GORDON, MARC WARREN, US  
[72] PERRIN, JON KEITH, US  
[72] DIENER, ALEXANDER MICHAEL, US  
[72] IVERSON, DAVID OSCAR, US  
[72] JOHNSON, KYLE STUART, US  
[72] NENNINGER, GARET GLENN, US  
[72] MURKOWSKI, JOHN RUSSELL, US  
[72] WILL, KRISTIN MARIE, US  
[72] BRINCKERHOFF, CHAD AUSTIN, US  
[72] FELDSINE, PHILLIP T., US  
[72] KELLY, TIM ALLEN, US  
[73] BIOCONTROL SYSTEMS, INC., US  
[85] 2014-12-18  
[86] 2013-03-05 (PCT/US2013/029105)  
[87] (WO2014/003832)  
[30] US (61/666,637) 2012-06-29  
[30] US (13/645,183) 2012-10-04

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[11] **2,877,990**  
[13] C

[51] **Int.Cl. B66C 23/74 (2006.01)**  
[25] EN  
[54] **WEIGHT ASSEMBLY ENSEMBLE POIDS**  
[72] YUSTUS, JOSEPH A., US  
[73] KONECRANES GLOBAL CORPORATION, FI  
[85] 2014-12-29  
[86] 2013-06-28 (PCT/IB2013/001387)  
[87] (WO2014/001895)  
[30] US (61/666,387) 2012-06-29

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[11] **2,879,589**  
[13] C

[51] **Int.Cl. C07D 451/02 (2006.01) A61K 31/196 (2006.01) A61K 31/47 (2006.01) A61P 19/02 (2006.01) A61P 25/02 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C07C 229/50 (2006.01) C07D 215/16 (2006.01)**  
[25] EN  
[54] **COMPOUNDS THAT ARE SIP MODULATING AGENTS AND/OR ATX MODULATING AGENTS**  
[54] **COMPOSES ETANT DES AGENTS DE MODULATION DE SIP ET/OU DES AGENTS DE MODULATION D'ATX**  
[72] GUCKIAN, KEVIN, US  
[72] KUMARAVEL, GNANASAMBANDAM, US  
[72] MA, BIN, US  
[72] MI, SHA, US  
[72] PENG, HAIRUO, US  
[72] SHAO, ZHAOHUI, US  
[72] SUN, LIHONG, US  
[72] TAVERAS, ARTHUR, US  
[72] XIN, ZHILI, US  
[72] ZHANG, LEI, US  
[73] BIOGEN MA INC., US  
[85] 2015-01-19  
[86] 2013-07-26 (PCT/US2013/052329)  
[87] (WO2014/018891)  
[30] US (61/676,692) 2012-07-27

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[11] **2,880,068**  
[13] C

[51] **Int.Cl. A23L 3/3517 (2006.01) A23K 20/00 (2016.01) A23K 20/195 (2016.01) A23K 30/00 (2016.01) A23L 3/3463 (2006.01) A23L 3/3508 (2006.01) A23L 3/3571 (2006.01)**  
[25] EN  
[54] **BACTERIOPHAGE COATED FOOD PRODUCTS**  
[54] **PRODUITS ALIMENTAIRES REVETUS DE BACTERIOPHAGE**  
[72] TER HAAR, ROBBERT H., US  
[72] HANNA, LEIGH, US  
[73] MARS, INCORPORATED, US  
[85] 2015-01-23  
[86] 2013-07-17 (PCT/US2013/050829)  
[87] (WO2014/018327)  
[30] US (13/557,828) 2012-07-25

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[11] **2,880,068**  
[13] C

[51] **Int.Cl. B67D 1/04 (2006.01) B29B 11/00 (2006.01) B29C 49/00 (2006.01) B65D 23/00 (2006.01) B65D 83/00 (2006.01) B67D 1/08 (2006.01)**  
[25] EN  
[54] **CONTAINER AND SET OF PREFORMS FOR FORMING A CONTAINER.**  
[54] **CONTENANT ET ENSEMBLE DE PREFORMES POUR FORMER UN CONTENANT.**  
[72] WITTE, PIETER GERARD, NL  
[72] PAAUWE, ARIE MAARTEN, NL  
[72] BAX, BART JAN, NL  
[72] BLOM, HAROLD MARCEL, NL  
[73] HEINEKEN SUPPLY CHAIN B.V., NL  
[85] 2015-01-23  
[86] 2013-07-26 (PCT/NL2013/050555)  
[87] (WO2014/017908)  
[30] NL (2009235) 2012-07-26

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[11] **2,880,086**  
[13] C

[51] **Int.Cl. A23L 3/3517 (2006.01) A23K 20/00 (2016.01) A23K 20/195 (2016.01) A23K 30/00 (2016.01) A23L 3/3463 (2006.01) A23L 3/3508 (2006.01) A23L 3/3571 (2006.01)**  
[25] EN  
[54] **BACTERIOPHAGE COATED FOOD PRODUCTS**  
[54] **PRODUITS ALIMENTAIRES REVETUS DE BACTERIOPHAGE**  
[72] TER HAAR, ROBBERT H., US  
[72] HANNA, LEIGH, US  
[73] MARS, INCORPORATED, US  
[85] 2015-01-23  
[86] 2013-07-17 (PCT/US2013/050829)  
[87] (WO2014/018327)  
[30] US (13/557,828) 2012-07-25

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[11] **2,880,261**  
[13] C

[51] **Int.Cl. A61K 38/46 (2006.01) A61P 15/08 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **CELL-FREE DNA AS A THERAPEUTIC TARGET FOR FEMALE INFERTILITY AND DIAGNOSTIC MARKER**  
[54] **ADN ACELLULAIRE EN TANT QUE CIBLE THERAPEUTIQUE POUR LA STERILITE FEMININE ET MARQUEUR DE DIAGNOSTIC**  
[72] HAZOUT, ANDRE, FR  
[73] FERRING B.V., NL  
[85] 2015-01-26  
[86] 2013-08-01 (PCT/IB2013/056321)  
[87] (WO2014/020564)  
[30] EP (12179265.9) 2012-08-03  
[30] EP (13156626.7) 2013-02-25

[11] **2,882,784**  
[13] C

[51] **Int.Cl. G02B 21/06 (2006.01) G01B 9/04 (2006.01) G01J 3/447 (2006.01) G02B 21/02 (2006.01) G02B 21/26 (2006.01) G02B 21/34 (2006.01) G02B 21/36 (2006.01)**  
[25] EN  
[54] **THREE-DIMENSIONAL OPTICAL COHERENCE TOMOGRAPHY APPARATUS AND ITS APPLICATION**  
[54] **APPAREIL DE TOMOGRAPHIE PAR COHERENCE OPTIQUE EN TROIS DIMENSIONS ET SON APPLICATION**  
[72] HUANG, SHENG-LUNG, TW  
[72] HO, TUAN-SHU, TW  
[72] TSAI, CHIEN-CHUNG, TW  
[73] NATIONAL TAIWAN UNIVERSITY, CN  
[86] (2882784)  
[87] (2882784)  
[22] 2015-02-23  
[30] TW (103138372) 2014-11-05  
[30] TW (104104362) 2015-02-09

[11] **2,882,875**  
[13] C

[51] **Int.Cl. A61K 31/58 (2006.01) A01K 67/00 (2006.01) A61P 15/00 (2006.01)**  
[25] EN  
[54] **REDUCING THE REPRODUCTIVE CAPACITY OF MAMMALS**  
[54] **COMPOSITIONS ET METHODES POUR REDUIRE LA CAPACITE DE REPRODUCTION DE MAMMIFERES**  
[72] MAYER, LORRETTA P., US  
[72] DYER, CHERYL A., US  
[73] SENESTECH, INC., US  
[85] 2015-02-23  
[86] 2013-08-23 (PCT/US2013/056428)  
[87] (WO2014/031979)  
[30] US (61/692,624) 2012-08-23

[11] **2,887,945**  
[13] C

[51] **Int.Cl. E04B 1/04 (2006.01) E04B 1/76 (2006.01)**  
[25] EN  
[54] **BUILDING SYSTEMS AND METHODS WITH PANEL SUBASSEMBLIES**  
[54] **SYSTEMES ET PROCEDES DE CONSTRUCTION**  
[72] LUBBERTS, MATTHEW JOHN, CA  
[73] LUBBERTS, MATTHEW JOHN, CA  
[85] 2015-04-10  
[86] 2013-10-17 (PCT/CA2013/050786)  
[87] (WO2014/059546)  
[30] US (61/714,833) 2012-10-17

[11] **2,888,247**  
[13] C

[51] **Int.Cl. A61M 5/48 (2006.01) A61M 5/168 (2006.01) A61M 5/178 (2006.01)**  
[25] EN  
[54] **FLUID DELIVERY SYSTEM WITH HIGH AND LOW PRESSURE HAND MANIFOLD**  
[54] **SYSTEME DE DISTRIBUTION DE FLUIDE AYANT UN COLLECTEUR PORTABLE A HAUTE ET BASSE PRESSIONS**  
[72] SPOHN, MICHAEL A., US  
[72] SWANTNER, MICHAEL JAMES, US  
[72] MCDANIEL, BARRY L., US  
[73] BAYER HEALTHCARE LLC, US  
[85] 2015-04-16  
[86] 2013-10-15 (PCT/US2013/064938)  
[87] (WO2014/062614)  
[30] US (61/714,872) 2012-10-17  
[30] US (13/755,883) 2013-01-31

[11] **2,888,377**  
[13] C

[51] **Int.Cl. A61K 31/57 (2006.01) A61K 45/06 (2006.01) A61P 15/00 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR TREATING PROGESTERONE-DEPENDENT CONDITIONS**  
[54] **METHODES ET COMPOSITIONS DE TRAITEMENT D'AFFECTIONS DEPENDANT DE LA PROGESTERONE**  
[72] PODOLSKI, JOSEPH S., US  
[72] WIEHLE, RONALD D., US  
[73] ALLERGAN PHARMACEUTICALS INTERNATIONAL LIMITED, IE  
[85] 2015-04-14  
[86] 2013-10-22 (PCT/US2013/066095)  
[87] (WO2014/070517)  
[30] US (61/722,095) 2012-11-02

[11] **2,888,824**  
[13] C

[51] **Int.Cl. B01D 15/38 (2006.01) C07K 1/16 (2006.01)**  
[25] EN  
[54] **ELUTION OF BIOMOLECULES FROM MULTI-MODAL RESINS USING MES AS MOBILE PHASE MODIFIER**  
[54] **ELUTION DE BIOMOLECULES A PARTIR DE RESINES MULTIMODALES AU MOYEN DE L'ACIDE 2-(N-MORPHOLINO)ETHANOSULFONIQUE (MES) EN TANT QUE MODIFICATEUR DE PHASE MOBILE**  
[72] GODAWAT, RAHUL, US  
[72] CUMMINGS, DANIEL, US  
[72] WARIKOO, VEENA, US  
[73] GENZYME CORPORATION, US  
[85] 2015-04-20  
[86] 2013-10-23 (PCT/US2013/066319)  
[87] (WO2014/066471)  
[30] US (61/717,880) 2012-10-24

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[11] **2,888,870**  
[13] C

[51] **Int.Cl. B02C 2/00 (2006.01) B02C 2/04 (2006.01)**

[25] EN

[54] **A METHOD FOR LIFTING AN INNER WEAR PART OF A GYRATORY OR CONE CRUSHER, AN INNER WEAR PART, A GYRATORY OR CONE CRUSHER AND AN INNER WEAR PART LIFTING TOOL**

[54] **PROCEDE DE LEVAGE DE PARTIE D'USURE INTERIEURE DE CONCASSEUR GIRATOIRE OU A CONE, PARTIE D'USURE INTERIEURE, CONCASSEUR GIRATOIRE OU A CONE ET OUTIL DE LEVAGE DE PARTIE D'USURE INTERIEURE**

[72] KUVAJA, KARI, FI  
[72] LAUTALA, AKI, FI  
[73] METSO MINERALS, INC., FI  
[85] 2015-04-21  
[86] 2013-10-09 (PCT/FI2013/050976)  
[87] (WO2014/064329)  
[30] FI (20126109) 2012-10-26

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[11] **2,889,389**  
[13] C

[51] **Int.Cl. C07D 277/46 (2006.01) A61K 31/426 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **BENZENE SULFONAMIDE THIAZOLE COMPOUNDS**

[54] **COMPOSES DE BENZENESULFONAMIDE-THIAZOLE**

[72] ROCCHI, STEPHANE, FR  
[72] BALLOTTI, ROBERT, FR  
[72] BENHIDA, RACHID, FR  
[72] CEREZO, MICHAEL, FR  
[72] DUCA, MARIA, FR  
[72] JOLY, JEAN-PATRICK, FR  
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR  
[73] UNIVERSITE COTE D'AZUR, FR  
[85] 2015-04-24  
[86] 2013-11-08 (PCT/EP2013/073439)  
[87] (WO2014/072486)  
[30] EP (12306391.9) 2012-11-09

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[11] **2,889,622**  
[13] C

[51] **Int.Cl. C10G 29/20 (2006.01) E21B 43/22 (2006.01)**

[25] EN

[54] **FUNCTIONALIZED HYDROGEN SULFIDE SCAVENGERS**

[54] **FIXATEURS DE SULFURE D'HYDROGENE FONCTIONNALISES**

[72] MARTINEZ, AARON D., US  
[72] ACOSTA OTERO, ERICK J., US  
[72] SILVESTRI, MAXIMILIAN A., US  
[72] BAILEY, JOSEPH P., VE  
[72] MACIAS, JOSE M., US  
[73] NALCO COMPANY, US  
[85] 2015-04-24  
[86] 2013-12-17 (PCT/US2013/075888)  
[87] (WO2014/100054)  
[30] US (61/739,401) 2012-12-19

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[11] **2,890,210**  
[13] C

[51] **Int.Cl. B01J 23/72 (2006.01) B01J 37/02 (2006.01)**

[25] EN

[54] **CATALYST FOR THE OXYCHLORINATION OF ETHYLENE TO 1,2-DICHLOROETHANE**

[54] **CATALYSEUR POUR L'OXYCHLORATION D'ETHYLENE EN 1,2-DICHLOROETHANE**

[72] TOMPERS, ROLF, DE  
[72] KRAMER, KEITH, US  
[73] BASF CORPORATION, US  
[85] 2015-05-04  
[86] 2013-11-06 (PCT/US2013/068705)  
[87] (WO2014/071423)  
[30] US (61/723,009) 2012-11-06

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[11] **2,890,437**  
[13] C

[51] **Int.Cl. G01J 3/44 (2006.01) G01N 21/63 (2006.01) G01N 21/65 (2006.01) G01N 33/48 (2006.01) G01N 33/487 (2006.01) G01N 33/49 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SERUM BASED CANCER DETECTION**

[54] **SYSTEME ET PROCEDE DE DETECTION DU CANCER BASEE SUR DU SERUM**

[72] TREADO, PATRICK, US  
[72] STEWART, SHONA, US  
[72] KIRSCHNER, HEATHER, US  
[72] PRIORE, RYAN, US  
[72] WILSON, ALAN, US  
[73] CHEMIMAGE CORPORATION, US  
[85] 2015-05-06  
[86] 2013-11-06 (PCT/US2013/068671)  
[87] (WO2014/074569)  
[30] US (61/796,268) 2012-11-06  
[30] US (61/797,686) 2012-12-13  
[30] US (61/848,242) 2012-12-28  
[30] US (61/765,524) 2013-02-15

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[11] **2,891,537**  
[13] C

[51] **Int.Cl. B32B 5/08 (2006.01) B29C 70/22 (2006.01) B32B 5/06 (2006.01) B32B 5/12 (2006.01)**

[25] EN

[54] **MULTI-AXIAL FABRICS, POLYMER-FIBER LAMINATES, AND BODIES INCORPORATING SAME FOR CONNECTING APPLICATIONS**

[54] **TISSUS MULTIAXIAUX, STRATIFIES POLYMERE-FIBRE ET CORPS LES INCORPORANT POUR DES APPLICATIONS DE CONNEXION**

[72] ADOLPHS, GEORG, ES  
[72] LIU, LIHUA, CN  
[72] SKINNER, CHRISTOPHER JOHN, BE  
[73] OCV INTELLECTUAL CAPITAL, LLC, US  
[85] 2015-05-14  
[86] 2013-11-25 (PCT/US2013/071563)  
[87] (WO2014/082024)  
[30] US (61/729,996) 2012-11-26

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[11] **2,891,639**  
[13] C

[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/19 (2006.01) A61K 8/25 (2006.01) A61K 8/34 (2006.01) A61K 8/81 (2006.01) A61K 8/90 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **PEROXIDE-STABLE ORAL CARE COMPOSITIONS**

[54] **COMPOSITIONS DE SOIN ORAL STABLES EN PRESENCE DU PEROXYDE**

[72] FEI, LIN, US

[72] MANDADI, PRAKASARAO, US

[72] CHOPRA, SUMAN, US

[73] COLGATE-PALMOLIVE COMPANY, US

[85] 2015-05-14

[86] 2012-12-14 (PCT/US2012/069896)

[87] (WO2014/092737)

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[11] **2,892,319**  
[13] C

[51] **Int.Cl. H02H 7/18 (2006.01) H02H 3/00 (2006.01) H02H 5/04 (2006.01) H02J 15/00 (2006.01)**

[25] EN

[54] **COMMUNITY ENERGY STORAGE SYSTEM WITH BATTERY BANK DEACTIVATION**

[54] **SYSTEME ACCUMULATEUR D'ENERGIE COLLECTIF**

[72] PIZZURRO, CARMINE, CA

[72] SUDAN, HIMANSHU, CA

[72] MCKINNON, PETER, CA

[72] CANALI, LEO, CA

[73] ECAMION INC., CA

[85] 2015-05-22

[86] 2013-11-22 (PCT/CA2013/000977)

[87] (WO2014/078941)

[30] US (61/729,404) 2012-11-22

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[11] **2,893,598**  
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C11B 1/00 (2006.01)**

[25] EN

[54] **CANOLA HYBRID PV 200 CL**

[54] **CANOLA HYBRIDE PV 200CL**

[72] PATEL, JAYANTILAL DEVABHAI, CA

[72] HEATH, JULIAN, CA

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[86] (2893598)

[87] (2893598)

[22] 2015-06-05

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[11] **2,892,222**  
[13] C

[51] **Int.Cl. B01D 35/02 (2006.01) B01D 27/00 (2006.01) G01N 1/40 (2006.01)**

[25] EN

[54] **MEDICAL APPARATUS AND METHOD FOR COLLECTING BIOLOGICAL SAMPLES**

[54] **APPAREIL MEDICAL ET PROCEDE DE COLLECTE D'ECHANTILLONS BIOLOGIQUES**

[72] SAQI, ANJALI, US

[72] YEAGER, KEITH, US

[73] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2015-05-19

[86] 2013-11-20 (PCT/US2013/071083)

[87] (WO2014/081877)

[30] US (61/728,682) 2012-11-20

[30] US (61/806667) 2013-03-29

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[11] **2,892,774**  
[13] C

[51] **Int.Cl. B21J 15/00 (2006.01)**

[25] EN

[54] **SYSTEM FOR RIVET FASTENING**

[54] **SYSTEME DE FIXATION DE RIVETS**

[72] LEMIEUX, DAVID, L., US

[73] LEMIEUX, DAVID, L., US

[85] 2015-05-21

[86] 2012-11-26 (PCT/US2012/000561)

[87] (WO2014/081404)

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[11] **2,893,897**  
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C11B 1/00 (2006.01)**

[25] EN

[54] **CANOLA HYBRID 46M34**

[54] **CANOLA HYBRIDE 46M34**

[72] PATEL, JAYANTILAL DEVABHAI, CA

[72] THOONEN, FERDINAND, CA

[72] FALAK, IGOR, CA

[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[86] (2893897)

[87] (2893897)

[22] 2015-06-05

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[11] **2,893,001**  
[13] C

[51] **Int.Cl. G06F 21/10 (2013.01)**

[25] EN

[54] **DYNAMIC LICENSING**

[54] **ATTRIBUTION DYNAMIQUE DE LICENCES**

[72] DODGSON, DAVID S., US

[72] NARISI, ANTHONY, US

[73] UNISYS CORPORATION, US

[85] 2015-01-09

[86] 2013-06-27 (PCT/US2013/048069)

[87] (WO2014/011400)

[30] US (13/547,160) 2012-07-12

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[11] **2,893,947**  
[13] C

- [51] **Int.Cl. A61M 1/00 (2006.01)**  
[25] EN  
[54] **RECHARGING NEGATIVE-PRESSURE WOUND THERAPY**  
[54] **TRAITEMENT DE PLAIES PAR PRESSION NEGATIVE AVEC RECHARGEMENT**  
[72] LOCKE, CHRISTOPHER BRIAN, GB  
[72] COULTHARD, RICHARD DANIEL JOHN, GB  
[72] ROBINSON, TIMOTHY MARK, GB  
[73] KCI LICENSING, INC., US  
[85] 2015-06-04  
[86] 2013-12-13 (PCT/US2013/074935)  
[87] (WO2014/107285)  
[30] US (61/748,707) 2013-01-03

[11] **2,894,282**  
[13] C

- [51] **Int.Cl. A01N 43/54 (2006.01) A01N 43/40 (2006.01) A01P 13/00 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC WEED CONTROL FROM APPLICATIONS OF AMINOCYCLOPYRACHLOR AND PICLORAM**  
[54] **LUTTE SYNERGIQUE CONTRE LES MAUVAISES HERBES PAR DES APPLICATIONS D'AMINOCYCLOPYRACHLORE ET DE PICLORAME**  
[72] OVALLE, DANIEL, CO  
[72] POSADA, EDUARDO, CO  
[73] DOW AGROSCIENCES LLC, US  
[85] 2015-06-08  
[86] 2013-12-09 (PCT/US2013/073841)  
[87] (WO2014/093210)  
[30] US (61/736,127) 2012-12-12

[11] **2,894,606**  
[13] C

- [51] **Int.Cl. B01J 20/18 (2006.01) B01J 20/28 (2006.01) C07C 7/13 (2006.01) C07C 29/76 (2006.01) C07C 37/82 (2006.01)**  
[25] FR  
[54] **ZEOLITIC ADSORBENTS, PROCESS FOR PREPARING SAME AND USES THEREOF**  
[54] **ADSORBANTS ZEOLITHIQUES, LEUR PROCEDE DE PREPARATION ET LEURS UTILISATIONS**  
[72] BOUVIER, LUDIVINE, FR  
[72] KIEGER, STEPHANE, FR  
[72] LAROCHE, CATHERINE, FR  
[72] LEFLAIVE, PHILIBERT, FR  
[73] IFP ENERGIES NOUVELLES, FR  
[73] ARKEMA FRANCE, FR  
[85] 2015-06-10  
[86] 2013-12-10 (PCT/EP2013/076021)  
[87] (WO2014/090771)  
[30] FR (1261964) 2012-12-12

[11] **2,894,872**  
[13] C

- [51] **Int.Cl. C08F 220/18 (2006.01) C08F 2/00 (2006.01) C09D 5/34 (2006.01)**  
[25] EN  
[54] **PLASTICIZER FREE CAULKS AND SEALANTS COMPRISING WATERBORNE ACRYLIC POLYMERIC COMPOSITES AND METHODS FOR MAKING THE SAME**  
[54] **CALFEUTRANTS ET MATERIAUX D'ETANCHEITE EXEMPTS DE PLASTIFIANT COMPRENANT DES COMPOSITES POLYMERES ACRYLIQUES EN PHASE AQUEUSE ET LEURS PROCEDES DE FABRICATION**  
[72] LAU, WILLIE, US  
[72] BROMM, KARL ALLEN, US  
[72] DEMAREST, VICTORIA A., US  
[72] JACKSON, CATHERYN L., US  
[72] LISS, AUDREY B., US  
[73] ROHM AND HAAS COMPANY, US  
[85] 2015-06-08  
[86] 2013-12-12 (PCT/US2013/074557)  
[87] (WO2014/099575)  
[30] US (61/739,090) 2012-12-19

[11] **2,895,041**  
[13] C

- [51] **Int.Cl. A01N 43/40 (2006.01) A01N 25/32 (2006.01) A01N 39/04 (2006.01) A01N 43/54 (2006.01) A01P 13/00 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC WEED CONTROL FROM APPLICATIONS OF AMINOPYRALID AND CLOPYRALID**  
[54] **LUTTE SYNERGIQUE CONTRE LES MAUVAISES HERBES PAR APPLICATIONS D'AMINOPYRALIDE ET DE CLOPYRALIDE**  
[72] DZIKOWSKI, MARCIN, DE  
[73] DOW AGROSCIENCES LLC, US  
[85] 2015-06-12  
[86] 2013-11-15 (PCT/US2013/070247)  
[87] (WO2014/092929)  
[30] US (61/737,413) 2012-12-14

[11] **2,895,153**  
[13] C

- [51] **Int.Cl. C07D 487/06 (2006.01) A61K 31/5517 (2006.01)**  
[25] EN  
[54] **AN IMPROVED PROCESS FOR MAKING ZILPATEROL**  
[54] **PROCEDE AMELIORE DE FABRICATION DE ZILPATEROL**  
[72] TOWSON, JAMES C., US  
[72] WONG, SHING-CHUN, US  
[73] INTERVET INTERNATIONAL B.V., NL  
[85] 2015-06-15  
[86] 2013-12-17 (PCT/EP2013/076850)  
[87] (WO2014/095822)  
[30] US (61/738,438) 2012-12-18

[11] **2,896,452**  
[13] C

- [51] **Int.Cl. H05B 47/00 (2020.01) G06Q 30/04 (2012.01) G06Q 50/06 (2012.01) H05B 47/105 (2020.01) G01R 22/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MONITORING USE OF A LAMP**  
[54] **SYSTEME ET PROCEDE POUR SURVEILLER L'UTILISATION D'UNE LAMPE**  
[72] KUENZLER, GLENN HOWARD, US  
[73] SAVANT TECHNOLOGIES LLC, US  
[85] 2015-06-25  
[86] 2013-11-08 (PCT/US2013/069028)  
[87] (WO2014/088751)  
[30] US (13/706,511) 2012-12-06

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[11] **2,897,015**  
[13] C

[51] **Int.Cl. B01J 29/82 (2006.01) B01J 37/08 (2006.01)**  
[25] EN  
[54] **ZSM-5 ADDITIVE ACTIVITY ENHANCEMENT BY IMPROVED ZEOLITE AND PHOSPHORUS INTERACTION**  
[54] **AMELIORATION DE L'ACTIVITE ADDITIVE DE LA ZSM-5 PAR INTERACTION AMELIOREE ENTRE LA ZEOLITE ET LE PHOSPHORE**  
[72] GAO, XINGTAO, US  
[72] HARRIS, DAVID, US  
[73] BASF CORPORATION, US  
[85] 2015-06-30  
[86] 2014-01-23 (PCT/US2014/012700)  
[87] (WO2014/116801)  
[30] US (61/755,509) 2013-01-23

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[11] **2,897,258**  
[13] C

[51] **Int.Cl. A61K 31/192 (2006.01) A61P 11/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATMENT OF FIBROSIS AND CANCERS**  
[54] **PROCEDES DE TRAITEMENT DE FIBROSES ET DE CANCERS**  
[72] HANF, REMY, FR  
[72] HUM, DEAN, FR  
[72] WALCZAK, ROBERT, FR  
[72] NOEL, BENOIT, FR  
[73] GENFIT, FR  
[85] 2015-07-06  
[86] 2014-01-20 (PCT/EP2014/051060)  
[87] (WO2014/111584)  
[30] EP (13305067.4) 2013-01-18

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[11] **2,897,356**  
[13] C

[51] **Int.Cl. A01C 7/00 (2006.01) A01C 1/00 (2006.01) A01C 1/06 (2006.01) A01C 7/06 (2006.01) A01C 7/20 (2006.01)**  
[25] EN  
[54] **ROTATABLE APPARATUS FOR METERING AND TREATING AGRICULTURAL GRANULES**  
[54] **APPAREIL ROTATIF DESTINE A DOSER ET A TRAITER DES GRANULES AGRICOLES**  
[72] BARDI, DANICK JOSEPH, CA  
[72] REEKIE, ROBERT, CA  
[72] STRYDHORST, TIMOTHY, CA  
[72] MANN, DALTON, CA  
[73] AG GROWTH INTERNATIONAL INC., CA  
[73] BAYER CROPSCIENCE INC., CA  
[85] 2015-07-07  
[86] 2014-02-13 (PCT/CA2014/000103)  
[87] (WO2014/124518)  
[30] US (61/765,209) 2013-02-15

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[11] **2,897,379**  
[13] C

[51] **Int.Cl. F16L 37/18 (2006.01) B64D 37/00 (2006.01)**  
[25] EN  
[54] **LEVER QUICK CONNECT INTERCOM FITTING**  
[54] **RACCORD D'INTERCOMMUNICATION A CONNEXION RAPIDE A LEVIER**  
[72] SANNADI, AMINE, FR  
[72] PICCO, NICOLAS, FR  
[73] SAFRAN AEROSYSTEMS, FR  
[85] 2015-07-07  
[86] 2014-01-14 (PCT/IB2014/058267)  
[87] (WO2014/108884)  
[30] US (61/752,114) 2013-01-14

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[11] **2,898,459**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12N 9/12 (2006.01) C12N 15/10 (2006.01) C12N 15/54 (2006.01)**  
[25] EN  
[54] **MODIFIED POLYMERASES FOR IMPROVED INCORPORATION OF NUCLEOTIDE ANALOGUES**  
[54] **POLYMERASES MODIFIEES POUR L'INCORPORATION AMELIOREE D'ANALOGUES NUCLEOTIDIQUES**  
[72] CHEN, CHENG-YAO, US  
[72] HE, MOLLY, US  
[72] BOMATI, ERIN, US  
[72] PEISAJOVICH, SERGIO, US  
[73] ILLUMINA, INC., US  
[85] 2015-07-16  
[86] 2013-03-14 (PCT/US2013/031694)  
[87] (WO2014/142921)

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[11] **2,898,797**  
[13] C

[51] **Int.Cl. B42D 15/00 (2006.01) B42D 25/00 (2014.01) G02B 5/18 (2006.01)**  
[25] EN  
[54] **SECURITY DEVICE**  
[54] **DISPOSITIF DE SECURITE**  
[72] SEILS, FRANK, DE  
[72] KOCH, MARKUS, DE  
[72] ROGIN, PETER, DE  
[73] SECTAGO GMBH, DE  
[85] 2015-07-21  
[86] 2014-01-20 (PCT/EP2014/051039)  
[87] (WO2014/124781)  
[30] EP (13154954.5) 2013-02-12

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[11] **2,899,171**  
[13] C

[51] **Int.Cl. B21B 31/07 (2006.01)**  
[25] EN  
[54] **SEAL ASSEMBLY AND NECK SEAL FOR ROLLING MILL**  
[54] **ENSEMBLE D'ETANCHEITE ET JOINT DE TOURILLON POUR LAMINOIR**  
[72] JOHANSON, ERIC L., US  
[72] WINSLOW, EARL S., JR., US  
[72] PALFREMAN, MATTHEW D., US  
[72] WOJTKOWSKI, THOMAS C., JR., US  
[72] OSGOOD, PETER N., US  
[73] PRIMETALS TECHNOLOGIES USA LLC, US  
[85] 2015-07-23  
[86] 2014-01-20 (PCT/US2014/012168)  
[87] (WO2014/116531)  
[30] US (61/756,506) 2013-01-25



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[11] **2,899,313**  
[13] C

[51] **Int.Cl. C09J 11/00 (2006.01) C09J 109/00 (2006.01)**  
[25] EN  
[54] **FOAMABLE HOT MELT ADHESIVE COMPOSITIONS AND USE THEREOF**  
[54] **COMPOSITIONS ADHESIVES FONDUES MOUSSANTES ET LEUR UTILISATION**  
[72] ELLIS, RICHARD, GB  
[72] KASPER, DIRK, DE  
[72] MARKIEFKA, PATRICK, DE  
[72] DUCKWORTH, DAVID, GB  
[72] STABEL, JONAS, DE  
[72] BELMUDES, STEPHANE, US  
[72] HAYES, PATRICK, US  
[72] EODICE, ANDREA, US  
[73] HENKEL AG & CO. KGAA, DE  
[73] HENKEL IP & HOLDING GMBH, DE  
[85] 2015-07-24  
[86] 2013-12-31 (PCT/US2013/078446)  
[87] (WO2014/116395)  
[30] US (61/756,142) 2013-01-24

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[11] **2,899,438**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01) G10L 19/093 (2013.01) G10L 19/02 (2013.01)**  
[25] FR  
[54] **IMPROVED CORRECTION OF FRAME LOSS WHEN DECODING A SIGNAL**  
[54] **CORRECTION PERFECTIONNEE DE PERTE DE TRAME AU DECODAGE D'UN SIGNAL**  
[72] FAURE, JULIEN, FR  
[72] RAGOT, STEPHANE, FR  
[73] ORANGE, FR  
[85] 2015-07-24  
[86] 2014-01-30 (PCT/FR2014/050166)  
[87] (WO2014/118468)  
[30] FR (1350845) 2013-01-31

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[11] **2,899,512**  
[13] C

[51] **Int.Cl. C07D 301/03 (2006.01)**  
[25] FR  
[54] **METHOD FOR PRODUCING ETHYLENE OXIDE FROM A THERMO-MECHANICALLY INTEGRATED ETHANOL STREAM**  
[54] **PROCEDE DE PRODUCTION D'OXYDE D'ETHYLENE A PARTIR D'UN FLUX D'ETHANOL THERMO-MECANIQUEMENT INTEGRE**  
[72] COUPARD, VINCENT, FR  
[72] PLENNEVAUX, THOMAS, FR  
[73] IFP ENERGIES NOUVELLES, FR  
[85] 2015-07-27  
[86] 2014-02-06 (PCT/FR2014/050226)  
[87] (WO2014/125191)  
[30] FR (1351161) 2013-02-12

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[11] **2,899,907**  
[13] C

[51] **Int.Cl. A61B 17/17 (2006.01)**  
[25] EN  
[54] **AIMING DEVICE WITH CAM LOCK**  
[54] **DISPOSITIF DE VISE DOTE D'UN VERROU A CAME**  
[72] ROETHLISBERGER, STEFAN, CH  
[72] ANDERMATT, DANIEL, CH  
[73] DEPUY SYNTHES PRODUCTS, INC., US  
[85] 2015-07-30  
[86] 2014-01-15 (PCT/US2014/011665)  
[87] (WO2014/120446)  
[30] US (13/753,883) 2013-01-30

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[11] **2,900,732**  
[13] C

[51] **Int.Cl. D06C 15/00 (2006.01)**  
[25] EN  
[54] **METHOD AND MACHINE FOR SPREADING A FABRIC-TYPE TEXTILE SHEET**  
[54] **PROCEDE ET MACHINE D'ETALEMENT D'UNE NAPPE TEXTILE DE TYPE TISSU**  
[72] BERAUD, JEAN-MARC, FR  
[72] BRUYERE, ALAIN, FR  
[73] HEXCEL REINFORCEMENTS, FR  
[85] 2015-08-05  
[86] 2014-03-06 (PCT/FR2014/050510)  
[87] (WO2014/135806)  
[30] FR (1352122) 2013-03-08

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[11] **2,900,831**  
[13] C

[51] **Int.Cl. A23K 20/20 (2016.01) A23K 10/10 (2016.01) A23K 10/30 (2016.01) A23K 40/00 (2016.01) A23K 40/10 (2016.01)**  
[25] EN  
[54] **GRANULATED FEED PHOSPHATE COMPOSITION INCLUDING FEED ENZYMES**  
[54] **COMPOSITION DE PHOSPHATE ALIMENTAIRE SOUS FORME DE GRANULES CONTENANT DES ENZYMES ALIMENTAIRES**  
[72] FONTANA, EDDY, US  
[72] BRITAIN, CHARLOTTE, US  
[72] JONES, EVERETT L., US  
[72] BAYLOR, BRYAN, US  
[72] NSHEIWAT, SAL, US  
[72] THOMAS, RYAN, US  
[72] MARSELLA, REINALDO M., US  
[73] THE MOSAIC COMPANY, US  
[85] 2015-08-10  
[86] 2014-03-11 (PCT/US2014/023407)  
[87] (WO2014/164760)  
[30] US (61/776,275) 2013-03-11

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[11] **2,900,890**  
[13] C

[51] **Int.Cl. H01H 13/02 (2006.01)**  
[25] EN  
[54] **A KEY MODULE FOR A KEY OF A KEYBOARD AND A METHOD FOR MANUFACTURING A KEY MODULE FOR A KEY OF A KEYBOARD**  
[54] **MODULE DE TOUCHE POUR UNE TOUCHE DE CLAVIER ET PROCEDE DE FABRICATION D'UN MODULE DE TOUCHE POUR UNE TOUCHE DE CLAVIER**  
[72] MULLER, KARL-HEINZ, DE  
[73] CHERRY GMBH, DE  
[85] 2015-08-11  
[86] 2014-02-28 (PCT/EP2014/053895)  
[87] (WO2014/154439)  
[30] DE (10 2013 205 577.3) 2013-03-28

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[11] **2,900,954**  
[13] C

[51] **Int.Cl. F16D 35/00 (2006.01) F16D 35/02 (2006.01)**  
[25] EN  
[54] **VISCOUS CLUTCH AND ASSOCIATED RESERVOIR CONFIGURATION**  
[54] **EMBRAYAGE VISQUEUX ET CONFIGURATION DE RESERVOIR ASSOCIEE**  
[72] KRAMMER, RAIMUND, DE  
[72] SAVELA, DEREK, US  
[72] BRAND, BASTIAN, DE  
[73] HORTON, INC., US  
[85] 2015-08-11  
[86] 2014-03-11 (PCT/US2014/023260)  
[87] (WO2014/159374)  
[30] US (61/782,440) 2013-03-14

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[11] **2,901,827**  
[13] C

[51] **Int.Cl. E03B 9/02 (2006.01) E03B 9/18 (2006.01)**  
[25] EN  
[54] **FLUSHING HYDRANT WITH FAIL-SAFE**  
[54] **BOUCHE DE VIDANGE A SECURITE INTEGREE**  
[72] FLEURY, LEO W., US  
[72] ROY, NORMAND JAMES, US  
[72] WILLIAMS, JAMES OLA, US  
[72] CLARK, KENNETH A., US  
[72] GIFFORD, PAUL, US  
[72] GRANATA, CHRISTIAN MICHAEL, US  
[72] PARISH, EDWARD C., US  
[73] MUELLER INTERNATIONAL, LLC, US  
[85] 2015-08-18  
[86] 2014-02-28 (PCT/US2014/019315)  
[87] (WO2014/149530)  
[30] US (13/841,597) 2013-03-15

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[11] **2,902,480**  
[13] C

[51] **Int.Cl. A61B 17/29 (2006.01)**  
[25] EN  
[54] **SURGICAL INSTRUMENT END EFFECTOR ARTICULATION DRIVE WITH PINION AND OPPOSING RACKS**  
[54] **ENTRAINEMENT D'ARTICULATION D'EFFECTEUR D'EXTREMITE D'INSTRUMENT CHIRURGICAL AVEC PIGNON ET CREMAILLERES OPPOSEES.**  
[72] FANELLI, NICHOLAS, US  
[72] GAGEL, JEFFREY C., US  
[73] ETHICON ENDO-SURGERY, INC., US  
[85] 2015-08-24  
[86] 2014-02-13 (PCT/US2014/016200)  
[87] (WO2014/133771)  
[30] US (13/780,067) 2013-02-28

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[11] **2,903,142**  
[13] C

[51] **Int.Cl. C21B 13/00 (2006.01)**  
[25] EN  
[54] **DIRECT REDUCTION OF IRON (DRI) PELLET TREATMENTS**  
[54] **TRAITEMENTS DE BOULETTES DE FER DE REDUCTION DIRECTE (FRD)**  
[72] ROE, DONALD C., US  
[72] HAMNIK, JOSEPH, US  
[72] WILKINS, JAMES, US  
[73] CHEMTREAT, INC., US  
[85] 2015-08-27  
[86] 2014-02-25 (PCT/US2014/018266)  
[87] (WO2014/134022)  
[30] US (61/770,377) 2013-02-28

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[11] **2,904,029**  
[13] C

[51] **Int.Cl. A61F 2/40 (2006.01) A61F 2/30 (2006.01)**  
[25] EN  
[54] **MODULAR GLENOID BASE PLATE WITH AUGMENTS**  
[54] **PLAQUE DE BASE GLENOIDE MODULAIRE AVEC DES AUGMENTATIONS**  
[72] WINSLOW, NATHAN A., US  
[72] TELKA, ANDREW MATTHEW, US  
[72] SMITS, AARON, US  
[72] MCDANIEL, JOHN M., US  
[73] BIOMET MANUFACTURING, LLC, US  
[85] 2015-09-03  
[86] 2014-03-06 (PCT/US2014/021281)  
[87] (WO2014/138424)  
[30] US (61/775,119) 2013-03-08  
[30] US (14/028,930) 2013-09-17

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[11] **2,904,381**  
[13] C

[51] **Int.Cl. B01D 53/64 (2006.01) B01D 53/02 (2006.01) B01D 53/83 (2006.01)**  
[25] EN  
[54] **USE OF FERROUS SULFIDE SUSPENSION FOR THE REMOVAL OF MERCURY FROM FLUE GASES**  
[54] **UTILISATION D'UNE SUSPENSION DE SULFURE DE FER POUR ELIMINER LE MERCURE CONTENU DANS DES GAZ DE COMBUSTION**  
[72] MCCULLOUGH, THOMAS P., US  
[72] MEYER, GARY JOEL, US  
[72] ROPER, RALPH E., US  
[72] KRIECH, ANTHONY J., US  
[73] REDOX TECHNOLOGY GROUP LLC, US  
[85] 2015-09-04  
[86] 2014-03-07 (PCT/US2014/021714)  
[87] (WO2014/138572)  
[30] US (61/773,927) 2013-03-07  
[30] US (14/193,973) 2014-02-28

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[11] **2,904,991**  
[13] C

[51] **Int.Cl. A63B 26/00 (2006.01)**  
[25] EN  
[54] **SLACKLINE BALANCE BOARD**  
[54] **PLAQUE D'EQUILIBRE DE**  
**CABLE-GRUE A TENSION**  
**VARIABLE**

[72] BOYER, REJEAN, CA  
[73] BOYER, REJEAN, CA  
[86] (2904991)  
[87] (2904991)  
[22] 2015-09-24  
[30] US (62/055,274) 2014-09-25

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[11] **2,905,405**  
[13] C

[51] **Int.Cl. A61F 7/02 (2006.01) A61H 9/00**  
**(2006.01)**  
[25] EN  
[54] **A SYSTEM FOR REGULATING**  
**CORE BODY TEMPERATURE**  
[54] **SYSTEME DE REGULATION DE**  
**LA TEMPERATURE**  
**CORPORELLE**

[72] SANTA MARIA, PETER, US  
[72] HSUEH, BRIAN, US  
[72] KANNARD, BRIAN, US  
[72] LAL, RITU, US  
[72] RAMANI, ABHINAV, US  
[72] PADERI, JOHN, US  
[73] THE BOARD OF TRUSTEES OF THE  
LELAND STANFORD JUNIOR  
UNIVERSITY, US  
[85] 2015-09-10  
[86] 2014-03-11 (PCT/US2014/023620)  
[87] (WO2014/164850)  
[30] US (61/776,791) 2013-03-12  
[30] US (14/197,518) 2014-03-05

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[11] **2,906,308**  
[13] C

[51] **Int.Cl. C23C 22/34 (2006.01)**  
[25] EN  
[54] **IMPROVED TRIVALENT**  
**CHROMIUM-CONTAINING**  
**COMPOSITION FOR ALUMINUM**  
**AND ALUMINUM ALLOYS**  
[54] **COMPOSITION AMELIOREE**  
**CONTENANT DU CHROME**  
**TRIVALENT POUR**  
**L'ALUMINIUM ET LES**  
**ALLIAGES D'ALUMINIUM**

[72] KRAMER, KIRK, US  
[72] SALET, LISA K., US  
[73] HENKEL AG & CO. KGAA, DE  
[85] 2015-09-14  
[86] 2014-03-12 (PCT/IB2014/001018)  
[87] (WO2014/140857)  
[30] US (13/834,047) 2013-03-15

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[11] **2,906,375**  
[13] C

[51] **Int.Cl. F01D 5/08 (2006.01) F01D 5/18**  
**(2006.01) F01D 25/12 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR**  
**CONTROLLING MODULATED**  
**COOLING OF A GAS TURBINE**  
**COMPONENT**  
[54] **PROCEDE ET APPAREIL DE**  
**COMMANDE DE**  
**REFROIDISSEMENT MODULE**  
**D'UN COMPOSANT DE TURBINE**  
**A GAZ**

[72] LEBEL, JEAN-FRANCOIS, CA  
[72] DAVIES, ALEX, CA  
[72] HASELBACH, FRANK, GB  
[72] FLETCHER, PAUL, GB  
[73] ROLLS-ROYCE CANADA, LTD., CA  
[73] ROLLS-ROYCE PLC, GB  
[85] 2015-09-14  
[86] 2013-12-03 (PCT/US2013/072925)  
[87] (WO2014/143233)  
[30] US (61/784,134) 2013-03-14

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[11] **2,906,538**  
[13] C

[51] **Int.Cl. C07D 413/06 (2006.01) A61K**  
**31/5377 (2006.01) A61P 35/00**  
**(2006.01) C07D 417/06 (2006.01)**  
[25] EN  
[54] **HETEROARYL ACID**  
**MORPHOLINONE COMPOUNDS**  
**AS MDM2 INHIBITORS FOR THE**  
**TREATMENT OF CANCER**  
[54] **COMPOSES MORPHOLINONE**  
**D'ACIDE HETEROARYLE**  
**UTILISES COMME INHIBITEURS**  
**DE MDM2 POUR LE**  
**TRAITEMENT DU CANCER**

[72] GONZALEZ BUENROSTRO, ANA,  
US  
[72] LI, YIHONG, US  
[72] MEDINA, JULIO C., US  
[72] OLSON, STEVEN H., US  
[73] AMGEN INC., US  
[85] 2015-09-14  
[86] 2014-03-13 (PCT/US2014/026584)  
[87] (WO2014/151863)  
[30] US (61/784,230) 2013-03-14

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[11] **2,907,614**  
[13] C

[51] **Int.Cl. C07C 29/86 (2006.01) C07C**  
**29/46 (2006.01) C07C 33/02 (2006.01)**  
**C07B 61/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING 2,7-**  
**OCTADIEN-1-OL**  
[54] **PROCEDE DE PRODUCTION DE**  
**2,7-OCTADIENE-1-OL**

[72] YOSHIKAWA, TATSUYA, JP  
[72] TSUJI, TOMOAKI, JP  
[73] KURARAY CO., LTD., JP  
[85] 2015-09-18  
[86] 2014-03-26 (PCT/JP2014/058663)  
[87] (WO2014/157402)  
[30] JP (2013-067269) 2013-03-27

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[11] **2,907,790**  
[13] C

[51] **Int.Cl. B65D 5/56 (2006.01) B31B 50/81 (2017.01) B65D 5/20 (2006.01) B65D 5/60 (2006.01) B65D 85/72 (2006.01) B65D 85/76 (2006.01)**

[25] EN

[54] **PACKAGING SYSTEM COMPRISING A CARDBOARD STRUCTURE**

[54] **SYSTEME D'EMBALLAGE COMPRENANT UNE STRUCTURE CARTONNEE**

[72] BAUERNFEIND, ROMAN, CH  
[73] ROBA GROUP AG, CH  
[85] 2015-09-22  
[86] 2014-03-18 (PCT/EP2014/000727)  
[87] (WO2014/166578)  
[30] DE (10 2013 006 309.4) 2013-04-12

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[11] **2,908,219**  
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[51] **Int.Cl. B65D 1/02 (2006.01) B65D 1/32 (2006.01)**

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[54] **LAMINATED BOTTLE**

[54] **BOUTEILLE STRATIFIEE**

[72] FURUSAWA, MITSUO, JP  
[72] ABE, TAKAYUKI, JP  
[73] YOSHINO KOGYOSHO CO., LTD., JP

[85] 2015-09-25  
[86] 2014-03-25 (PCT/JP2014/058375)  
[87] (WO2014/157258)  
[30] JP (2013-071093) 2013-03-29  
[30] JP (2013-071094) 2013-03-29  
[30] JP (2013-095826) 2013-04-30  
[30] JP (2013-247641) 2013-11-29  
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[11] **2,909,272**  
[13] C

[51] **Int.Cl. B65B 55/12 (2006.01) B65D 33/16 (2006.01) B65D 41/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE ASEPTIC FILLING OF A BAG**

[54] **METHODE DE REMPLISSAGE ASEPTIQUE D'UN SAC**

[72] BOIRA BONHORA, JORDI, ES  
[72] FABIA VILELLA, MIQUEL, ES  
[72] FLETA COIT, DANIEL, ES  
[73] GRIFOLS, S.A., US  
[86] (2909272)  
[87] (2909272)  
[22] 2015-10-15  
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[13] C

[51] **Int.Cl. A61J 1/14 (2006.01) A61B 5/15 (2006.01) B29C 45/00 (2006.01)**

[25] EN

[54] **ADAPTER CAPS FOR SAMPLE COLLECTION CONTAINERS AND ASSOCIATED MOLDS WITH CORE PINS AND RELATED METHODS**

[54] **CAPUCHONS D'ADAPTATION POUR RECIPIENTS DE COLLECTE D'ECHANTILLON ET MOULES ASSOCIES**

[54] **COMPRENANT DES CANNES DE SOUFFLAGE ET PROCEDES ASSOCIES**

[72] PHILIPAK, STANLEY MICHAEL, US  
[72] CRANDALL, SAMUEL B., US  
[73] BIOMERIEUX, INC., US  
[85] 2015-10-09  
[86] 2014-04-21 (PCT/US2014/034766)  
[87] (WO2014/176152)  
[30] US (61/815,395) 2013-04-24

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[11] **2,909,783**  
[13] C

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[25] EN

[54] **HETEROCYCLIC ACETIC ACID AMIDE COMPOUND**

[54] **COMPOSE D'AMIDE D'ACIDE ACETIQUE HETEROCYCLIQUE**

[72] SHIRAKI, RYOTA, JP  
[72] TOBE, TAKAHIKO, JP  
[72] KAWAKAMI, SHIMPEI, JP  
[72] MORITOMO, HIROYUKI, JP  
[72] OHMIYA, MAKOTO, JP  
[73] ASTELLAS PHARMA INC., JP  
[85] 2015-10-16  
[86] 2014-04-18 (PCT/JP2014/061007)  
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[25] EN

[54] **METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS**

[54] **PROCEDES DE TRAITEMENT DE MATIERES LIGNOCELLULOSIQUES**

[72] JANSEN, ROBERT, US  
[72] TRAVISANO, PHILIP, US  
[72] MADSEN, LEE, US  
[72] MATIS, NETA, IL  
[72] PERRY, ROTEM, IL  
[72] LAWSON, JAMES ALLEN, US  
[72] LAPIDOT, NOA, IL  
[72] BAUER, TIMOTHY ALLEN, US  
[72] HALLAC, BASSEM, IL  
[72] ZVIELY, MICHAEL, IL  
[73] VIRIDIA, INC., US  
[85] 2015-10-29  
[86] 2013-11-06 (PCT/US2013/068824)  
[87] (WO2014/178911)  
[30] US (PCT/US2013/039585) 2013-05-03  
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[13] C

[51] **Int.Cl. C09J 153/02 (2006.01) A61L 15/58 (2006.01) C08L 53/02 (2006.01)**

[25] EN

[54] **HOT-MELT ADHESIVE AGENT**

[54] **AGENT ADHESIF THERMOFUSIBLE**

[72] MORIGUCHI, MASAHIRO, JP  
[72] MAEDA, NAOHIRO, JP  
[73] HENKEL AG & CO. KGAA, DE  
[85] 2015-11-20  
[86] 2014-05-21 (PCT/JP2014/064041)  
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[25] EN  
[54] **TETRAHYDRO-2H-PYRANO[3,2-C]ISOCHROMENE-6-ONES AND ANALOGS FOR THE TREATMENT OF INFLAMMATORY DISORDERS**  
[54] **TETRAHYDRO-2H-PYRANO[3,2-C]ISOCHROMENE-6-ONES ET ANALOGUES POUR LE TRAITEMENT DE TROUBLES INFLAMMATOIRES**  
[72] JAIN, SHREYANS KUMAR, IN  
[72] SIDIQ, TABASUM, IN  
[72] MEENA, SAMDARSHI, IN  
[72] KHAJURIA, ANAMIKA, IN  
[72] VISHWAKARMA, RAM ASREY, IN  
[72] BHARATE, SANDIP BIBISHAN, IN  
[73] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN  
[85] 2015-11-23  
[86] 2013-11-01 (PCT/IN2013/000679)  
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[30] IN (1565/DEL/2013) 2013-05-24

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[13] C

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[25] EN  
[54] **TAMPON FOR DAYS BETWEEN MENSTRUATION**  
[54] **TAMPON POUR LES PERIODES INTERMENSTRUELLES**  
[72] MULLER, PETER, CH  
[73] RUGGLI PROJECTS AG, CH  
[85] 2015-12-07  
[86] 2013-07-05 (PCT/EP2013/064277)  
[87] (WO2014/006188)  
[30] AT (A 751/2012) 2012-07-06

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[25] FR  
[54] **AMPLIFIED PASSIVE AND REVERSIBLE MICRO-SENSOR OF DEFORMATIONS**  
[54] **MICROCAPTEUR PASSIF ET REVERSIBLE AMPLIFIE DE DEFORMATIONS**  
[72] LOUVIGNE, PIERRE-FRANCOIS, FR  
[72] MINOTTI, PATRICE, FR  
[72] VESCOVO, PAUL, FR  
[72] SADOULET, VIANNEY, FR  
[73] SILMACH, FR  
[73] ETAT FRANCAIS REPRESENTE PAR LE DELEGUE GENERAL POUR L'ARMEMENT, FR  
[85] 2015-12-07  
[86] 2014-07-01 (PCT/FR2014/000157)  
[87] (WO2015/001204)  
[30] FR (1301556) 2013-07-02

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[25] FR  
[54] **DIFFUSER**  
[54] **DIFFUSEUR**  
[72] FOURNET, DOMINIQUE, FR  
[73] LINDAL FRANCE SAS, FR  
[85] 2015-12-07  
[86] 2014-06-11 (PCT/EP2014/062125)  
[87] (WO2014/206734)  
[30] FR (1356024) 2013-06-24

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[13] C

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[25] EN  
[54] **ANTIMICROBIAL FORMULATION COMPRISING ISOAMYL HEXANOATES TOGETHER WITH PROPANOIC ACID AND/OR ISOBUTYRIC ACID**  
[54] **FORMULATIONS DE COMPOSES ORGANIQUES VOLATILS A ACTIVITE ANTIMICROBIENNE CONJOINTEMENT AVEC DE L'ACIDE PROPANOIQUE ET/OU ISOBUTYRIQUE**  
[72] STROBEL, GARY A., US  
[72] BLATT, BRYAN, US  
[73] ECOPLANET ENVIRONMENTAL, LLC, US  
[85] 2015-12-30  
[86] 2014-07-02 (PCT/US2014/045297)  
[87] (WO2015/003082)  
[30] US (61/842,362) 2013-07-02  
[30] US (61/948,902) 2014-03-06

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[13] C

[51] **Int.Cl. F24F 3/14 (2006.01) F01K 9/00 (2006.01) F28C 1/00 (2006.01) F28D 21/00 (2006.01)**  
[25] EN  
[54] **HEAT DISSIPATION SYSTEMS WITH HYGROSCOPIC WORKING FLUID**  
[54] **SYSTEMES DE DISSIPATION DE CHALEUR A FLUIDE ACTIF HYGROSCOPIQUE**  
[72] MARTIN, CHRISTOPHER L., US  
[73] ENERGY & ENVIRONMENTAL RESEARCH CENTER FOUNDATION, US  
[85] 2016-01-22  
[86] 2014-07-18 (PCT/US2014/047230)  
[87] (WO2015/017144)  
[30] US (13/953,332) 2013-07-29

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[25] FR  
[54] **METHOD FOR ASSEMBLING TWO BLADES OF A TURBOMACHINE NOZZLE**  
[54] **PROCEDE D'ASSEMBLAGE DE DEUX PALES D'UN DISTRIBUTEUR DE TURBOMACHINE**  
[72] BILHE, PASCAL, FR  
[72] PASQUET, ANNIE, FR  
[73] SNECMA, FR  
[85] 2016-02-18  
[86] 2014-08-18 (PCT/FR2014/052097)  
[87] (WO2015/025105)  
[30] FR (1358083) 2013-08-20

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[11] **2,923,652**  
[13] C

[51] **Int.Cl. A61C 8/00 (2006.01)**  
[25] EN  
[54] **CERAMIC BODY, IN PARTICULAR FOR USE IN A BONE IMPLANT, IN PARTICULAR AS A DENTAL IMPLANT**  
[54] **CORPS CERAMIQUE CONCU EN PARTICULIER POUR ETRE UTILISE EN TANT Q'IMPLANT DENTAIRE**  
[72] BRODBECK, URS, CH  
[73] SCHLEE, MARKUS, DE  
[73] ZIPPRICH, HOLGER, DE  
[73] BRODBECK, URS, CH  
[85] 2016-03-08  
[86] 2014-02-05 (PCT/EP2014/052272)  
[87] (WO2014/122189)  
[30] DE (10 2013 201 885.1) 2013-02-05

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[13] C

[51] **Int.Cl. B32B 5/08 (2006.01) B32B 5/06 (2006.01) B32B 5/12 (2006.01) B32B 7/12 (2006.01) B32B 27/04 (2006.01) F41H 1/02 (2006.01)**  
[25] EN  
[54] **COMPOSITES AND BALLISTIC RESISTANT ARMOR ARTICLES CONTAINING THE COMPOSITES**  
[54] **COMPOSITES ET OBJETS DE BLINDAGE RESISTANT AUX BALLEES CONTENANT LES COMPOSITES**  
[72] BADER, YVES, FR  
[72] CITTERIO, FILIPPO, IT  
[72] CITTERIO, GIORGIO CELESTE, IT  
[73] SOCIETA' PER AZIONI FRATELLI CITTERIO, IT  
[73] DUPONT SAFETY & CONSTRUCTION, INC., US  
[85] 2016-05-03  
[86] 2014-11-17 (PCT/US2014/065907)  
[87] (WO2015/119696)  
[30] EP (13425150.3) 2013-11-18

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[11] **2,930,478**  
[13] C

[51] **Int.Cl. F41H 5/04 (2006.01)**  
[25] EN  
[54] **BALLISTIC RESISTANT ARTICLE WITH NON-UNIFORMLY DISTRIBUTED MATRIX MATERIAL AND METHOD TO MANUFACTURE SAID ARTICLE**  
[54] **ARTICLE A RESISTANCE BALISTIQUE DOTE D'UN MATERIAU DE MATRICE REPARTI NON UNIFORMEMENT ET PROCEDE DE FABRICATION DUDIT ARTICLE**  
[72] GROSSMAN, JAN, US  
[72] DE HAAS, MARC-JAN, NL  
[72] POULOPOULOS, NEKTARIOS, CA  
[72] WILLIAMS, ALICIA, US  
[72] WILSON, JASON, US  
[73] BARRDAY INC., CA  
[73] TEIJIN ARAMID B.V., NL  
[85] 2016-05-12  
[86] 2014-11-12 (PCT/EP2014/074307)  
[87] (WO2015/071275)  
[30] EP (13192674.3) 2013-11-13

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[11] **2,935,395**  
[13] C

[51] **Int.Cl. B01D 53/52 (2006.01) B01D 53/14 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR REMOVING HYDROGEN SULFIDE FROM OILFIELD EFFLUENTS**  
[54] **SYSTEME ET PROCEDE D'ELIMINATION DE SULFURE D'HYDROGENE A PARTIR D'EFFLUENTS DE CHAMP PETROLIFERE**  
[72] RANDAL, CHAD ALLEN, CA  
[73] AUREUS ENERGY SERVICES INC., CA  
[85] 2016-06-29  
[86] 2015-04-16 (PCT/CA2015/050320)  
[87] (WO2015/157869)  
[30] US (14/256,179) 2014-04-18

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[11] **2,939,820**  
[13] C

[51] **Int.Cl. B01F 11/00 (2006.01) A47J 31/40 (2006.01)**  
[25] EN  
[54] **A DISPOSABLE BEVERAGE CUP**  
[54] **TASSE JETABLE CONTENANT UNE BOISSON**  
[72] HERSHKOVITZ, ORI, IL  
[72] KOSSOVSKY, SHAY, IL  
[73] HERSHKOVITZ, ORI, IL  
[73] KOSSOVSKY, SHAY, IL  
[85] 2016-08-16  
[86] 2014-01-28 (PCT/IL2014/050094)  
[87] (WO2014/141230)  
[30] US (13/792,254) 2013-03-11

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[11] **2,943,670**  
[13] C

[51] **Int.Cl. G10L 19/008 (2013.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR RENDERING ACOUSTIC SIGNAL, AND COMPUTER-READABLE RECORDING MEDIUM**  
[54] **PROCEDE ET APPAREIL DE RENDU DE SIGNAL ACOUSTIQUE, ET SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR**  
[72] CHON, SANG-BAE, KR  
[72] KIM, SUN-MIN, KR  
[72] JO, HYUN, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2016-09-22  
[86] 2015-03-24 (PCT/KR2015/002891)  
[87] (WO2015/147530)  
[30] US (61/969,357) 2014-03-24

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[11] **2,947,577**  
[13] C

[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 50/10 (2012.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR PROCESSING SERVICE REQUESTS**  
[54] **METHODE ET APPAREIL DE TRAITEMENT DES DEMANDES DE SERVICE**  
[72] JUNE, PHILIP GABRIEL, US  
[72] YU, BRYAN QUOLANT, US  
[72] NGUYEN, THAI THANH, US  
[72] CHAN, CANDICE SIK SUEN, US  
[72] DANAK, AMIR, US  
[72] JIANG, RUIWEI, US  
[73] THE BOEING COMPANY, US  
[86] (2947577)  
[87] (2947577)  
[22] 2016-11-03  
[30] US (15/010,361) 2016-01-29

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[13] C

[51] **Int.Cl. G16B 20/00 (2019.01) C12Q 1/6809 (2018.01) G16B 30/00 (2019.01)**  
[25] EN  
[54] **NONINVASIVE DETECTION OF FETAL GENETIC ABNORMALITY**  
[54] **DETECTION NON INVASIVE D'UNE ANOMALIE GENETIQUE FOTALE**  
[72] JIANG, FUMAN, CN  
[72] CHEN, HUIFEI, CN  
[72] CHAI, XIANGHUA, CN  
[72] YUAN, YUYING, CN  
[72] ZHANG, XIUQING, CN  
[72] CHEN, FANG, CN  
[73] BGI DIAGNOSIS CO., LTD., CN  
[86] (2948939)  
[87] (2948939)  
[22] 2011-06-29  
[62] 2,791,118

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[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 40/00 (2020.01)**  
[25] EN  
[54] **FEATURE PROCESSING RECIPES FOR MACHINE LEARNING**  
[54] **RECETTES DE TRAITEMENT DE CARACTERISTIQUE POUR UN APPRENTISSAGE MACHINE**  
[72] DIRAC, LEO PARKER, US  
[72] AGARWAL, TARUN, US  
[72] CORREA, NICOLLE M., US  
[72] INGERMAN, ALEKSANDR MIKHAYLOVICH, US  
[72] KRISHNAN, SRIRAM, US  
[72] LI, JIN, US  
[72] PUVVADI, SUDHAKAR RAO, US  
[72] ZARANDIOON, SAMAN, US  
[72] DANNAKER, CHARLES ERIC, US  
[72] RAMAKRISHNAN, RAKESH, US  
[72] ZHENG, TIANMING, US  
[72] ZHUO, DONGHUI, US  
[72] STEELE, ROBERT MATTHIAS, US  
[72] QIAN, JUN, US  
[72] BRUECKNER, MICHAEL, US  
[72] HERBRICH, RALF, US  
[72] BLICK, DANIEL, US  
[72] LEE, POLLY PO YEE, US  
[73] AMAZON TECHNOLOGIES, INC., US  
[85] 2016-12-29  
[86] 2015-06-30 (PCT/US2015/038590)  
[87] (WO2016/004063)  
[30] US (14/319,880) 2014-06-30  
[30] US (14/319,902) 2014-06-30  
[30] US (14/460,314) 2014-08-14  
[30] US (14/460,312) 2014-08-14  
[30] US (14/463,434) 2014-08-19  
[30] US (14/484,201) 2014-09-11  
[30] US (14/489,449) 2014-09-17  
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[30] US (14/538,723) 2014-11-11  
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[13] C

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[25] EN  
[54] **WELLBORE INTERVENTION TOOL FOR PENETRATING OBSTRUCTIONS IN A WELLBORE**  
[54] **OUTIL D'INTERVENTION DE PUITES DE FORAGE POUR PENETRER DANS DES OBSTRUCTIONS DANS UN PUITES DE FORAGE**  
[72] HANSEN, HENNING, ES  
[72] GUDMESTAD, TARALD, NO  
[73] AARBAKKE INNOVATION A.S., NO  
[85] 2017-01-13  
[86] 2015-07-14 (PCT/US2015/040455)  
[87] (WO2016/011085)  
[30] US (62/024,074) 2014-07-14

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[13] C

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[25] EN  
[54] **INJECTOR HEAD TILT MECHANISM**  
[54] **MECANISME D'INCLINAISON DE TETE D'INJECTEUR**  
[72] BEHRENS, RANDALL DEAN, US  
[73] PREMIER COIL SOLUTIONS, INC., US  
[85] 2017-02-07  
[86] 2015-08-06 (PCT/US2015/044018)  
[87] (WO2016/022806)  
[30] US (14/454,948) 2014-08-08

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[13] C

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[25] EN  
[54] **ANTISENSE-BASED SMALL RNA AGENTS TARGETING THE GAG OPEN READING FRAME OF HIV-1 RNA**  
[54] **AGENTS A BASE DE PETIT ARN ANTISENS CIBLANT LE CADRE DE LECTURE OUVERT GAG DE L'ARN DU VIH-1**  
[72] GATIGNOL, ANNE, CA  
[72] SCARBOROUGH, ROBERT, CA  
[73] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA  
[85] 2017-02-15  
[86] 2014-08-25 (PCT/CA2014/050814)  
[87] (WO2015/027334)  
[30] US (61/869,852) 2013-08-26

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[13] C

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[25] EN  
[54] **DRYWALL TO ACOUSTICAL CEILING TILES TRANSITION TRIMS**  
[54] **CLOISON SECHE POUR GARNITURES DE TRANSITION DE CARREAUX INSONORISANTS DE PLAFOND**  
[72] LEHANE, JAMES J., US  
[72] GULBRANDSEN, PEDER J., US  
[72] BAKER, CHRIS C., US  
[73] USG INTERIORS, LLC, US  
[85] 2017-02-20  
[86] 2015-08-19 (PCT/US2015/045808)  
[87] (WO2016/032810)  
[30] US (14/468,388) 2014-08-26

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[11] **2,962,594**  
[13] C

[51] **Int.Cl. G01N 15/14 (2006.01) G01N 1/40 (2006.01)**  
[25] EN  
[54] **PHASE-MODULATED STANDING WAVE MIXING APPARATUS AND METHODS**  
[54] **APPAREIL ET PROCEDES DE MELANGE A ONDES STATIONNAIRES MODULEES EN PHASE**  
[72] KRUFKA, STEPHEN, US  
[72] HADDAD, ANTOINE, US  
[72] TAYLOR, JEFFREY, US  
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US  
[85] 2017-03-24  
[86] 2015-09-16 (PCT/US2015/050492)  
[87] (WO2016/048760)  
[30] US (62/056,194) 2014-09-26

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[11] **2,964,107**  
[13] C

[51] **Int.Cl. A61L 27/54 (2006.01) A61F 2/28 (2006.01) A61L 27/14 (2006.01) A61L 27/40 (2006.01)**  
[25] EN  
[54] **BONE REGENERATION USING BIODEGRADABLE POLYMERIC NANOCOMPOSITE MATERIALS AND APPLICATIONS OF THE SAME**  
[54] **REGENERATION OSSEUSE A L'AIDE DE MATERIAUX NANOCOMPOSITES POLYMERES BIODEGRADABLES ET APPLICATIONS ASSOCIEES**  
[72] BIRIS, ALEXANDRU S., US  
[73] BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, US  
[85] 2017-04-07  
[86] 2015-10-07 (PCT/US2015/054516)  
[87] (WO2016/057684)  
[30] US (14/509,719) 2014-10-08



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[11] **2,964,883**  
[13] C

[51] **Int.Cl. E21B 47/09 (2012.01) E21B 47/02 (2006.01) G01V 3/18 (2006.01)**

[25] EN

[54] **LOCATING MULTIPLE WELLBORES**

[54] **LOCALISATION DE MULTIPLES Puits DE FORAGE**

[72] DONDERICI, BURKAY, US

[72] GUNER, BARIS, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2017-04-18

[86] 2014-12-30 (PCT/US2014/072797)

[87] (WO2016/108857)

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[11] **2,967,035**  
[13] C

[51] **Int.Cl. G01M 3/20 (2006.01) G01M 3/12 (2006.01)**

[25] EN

[54] **LEAK DETECTION FORMULA, ANALYZER AND METHODS**

[54] **FORMULE, ANALYSEUR ET PROCEDES DE DETECTION DE FUITE**

[72] THOMPSON, BERNIE C., US

[72] PEDERSON, NEAL R., US

[72] LEY, KENNETH D., US

[72] THOMA, STEVEN G., US

[73] AUTOMOTIVE TEST SOLUTIONS, INC., US

[86] (2967035)

[87] (2967035)

[22] 2014-01-31

[62] 2,894,247

[30] US (61/759,782) 2013-02-01

[30] US (13/789,319) 2013-03-07

[30] US (13/789,179) 2013-03-07

[30] US (14/025,500) 2013-09-12

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[11] **2,968,067**  
[13] C

[51] **Int.Cl. F03D 13/25 (2016.01) B63B 21/50 (2006.01) B63B 35/44 (2006.01)**

[25] EN

[54] **FLOATING PLATFORM FOR HARNESSING WIND ENERGY**

[54] **PLATE-FORME FLOTTANTE D'EXPLOITATION D'ENERGIE EOLIENNE**

[72] GALDOS TOBALINA, ALBERTO, ES

[73] SAITEC OFFSHORE TECHNOLOGIES S.L.U., ES

[85] 2017-05-16

[86] 2015-09-23 (PCT/ES2015/070691)

[87] (WO2016/083634)

[30] ES (P201431758) 2014-11-26

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[11] **2,968,697**  
[13] C

[51] **Int.Cl. G10K 11/16 (2006.01) H04M 3/56 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MITIGATING AND/OR AVOIDING FEEDBACK LOOPS DURING COMMUNICATION SESSIONS**

[54] **SYSTEMES ET METHODES D'ATTENUATION OU D'EVITEMENT DE BOUCLES DE RETROACTION PENDANT LES SESSIONS DE COMMUNICATION**

[72] SHALTIEL, NATAN, IL

[72] GOLAN, YUVAL, IL

[73] VONAGE BUSINESS INC., US

[86] (2968697)

[87] (2968697)

[22] 2017-05-26

[30] US (15/168,583) 2016-05-31

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[11] **2,977,441**  
[13] C

[51] **Int.Cl. C12P 7/40 (2006.01) C07C 227/06 (2006.01) C07C 227/08 (2006.01)**

[25] FR

[54] **PROCESS FOR PRODUCING AMINO ACIDS FROM PRECURSORS OBTAINED BY ANAEROBIC FERMENTATION FROM FERMENTABLE BIOMASS**

[54] **PROCEDE DE PRODUCTION D'ACIDES AMINES A PARTIR DE PRECURSEURS OBTENUS PAR FERMENTATION ANAEROBIE A PARTIR DE BIOMASSE FERMENTESCIBLE**

[72] NOUAILLE, REGIS, FR

[72] PESSIOT, JEREMY, FR

[72] THIEULIN, MARIE, FR

[73] AFYREN, FR

[85] 2017-08-22

[86] 2016-02-17 (PCT/FR2016/050364)

[87] (WO2016/135397)

[30] FR (1551673) 2015-02-27

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[11] **2,977,481**  
[13] C

[51] **Int.Cl. G01B 11/00 (2006.01) G01N 21/01 (2006.01) G01N 21/64 (2006.01)**

[25] EN

[54] **DYNAMIC HIGH-SPEED HIGH-SENSITIVITY IMAGING DEVICE AND IMAGING METHOD**

[54] **DISPOSITIF D'IMAGERIE DYNAMIQUE HAUTE VITESSE ET HAUTE SENSIBILITE ET PROCEDE D'IMAGERIE**

[72] OTA, SADA0, JP

[72] HORISAKI, RYOICHI, JP

[72] HASHIMOTO, KAZUKI, JP

[73] THE UNIVERSITY OF TOKYO, JP

[73] OSAKA UNIVERSITY, JP

[85] 2017-08-22

[86] 2016-02-24 (PCT/JP2016/055412)

[87] (WO2016/136801)

[30] JP (2015-033520) 2015-02-24

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[11] **2,978,217**  
[13] C

[51] **Int.Cl. B23K 20/04 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A COMPOSITE MATERIAL, AND A PROVISIONAL COMPOSITE**

[54] **PROCEDE DE PRODUCTION D'UN COMPOSITE, ET COMPOSITE PROVISOIRE**

[72] BECKER, JENS-ULRIK, DE

[72] KLENN, RAINER, DE

[72] MYSLOWICKI, STEFAN, DE

[72] WUNDERLICH, ROLAND, DE

[73] THYSSENKRUPP STEEL EUROPE AG, DE

[73] THYSSENKRUPP AG, DE

[85] 2017-08-30

[86] 2016-02-23 (PCT/EP2016/053736)

[87] (WO2016/139083)

[30] DE (10 2015 102 961.8) 2015-03-02

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[11] **2,978,643**  
[13] C

[51] **Int.Cl. H04W 12/065 (2021.01) B65D 25/00 (2006.01)**  
[25] EN  
[54] **WIRELESS AUTHENTICATION METHOD AND DEVICE OF RECYCLABLE LOGISTICS APPARATUS**  
[54] **PROCEDE D'AUTHENTIFICATION SANS FIL ET DISPOSITIF D'APPAREIL LOGISTIQUE RECYCLABLE**  
[72] LIAO, QINGXIN, CN  
[72] YE, CHUNJIANG, CN  
[72] CAO, YIWEN, CN  
[73] SHANGHAI HONGYAN RETURNABLE TRANSIT PACKAGINGS CO., LTD., CN  
[85] 2017-09-05  
[86] 2016-03-04 (PCT/CN2016/075638)  
[87] (WO2016/138876)  
[30] CN (201510097246.X) 2015-03-04

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[11] **2,978,815**  
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01)**  
[25] EN  
[54] **AUDIO ENCODER, AUDIO DECODER, METHOD FOR ENCODING AN AUDIO SIGNAL AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL**  
[54] **CODEUR AUDIO, DECODEUR AUDIO, PROCEDE DE CODAGE DE SIGNAL AUDIO, ET PROCEDE DE DECODAGE DE SIGNAL AUDIO CODE**  
[72] EDLER, BERND, DE  
[72] HELMRICH, CHRISTIAN, DE  
[72] NEUENDORF, MAX, DE  
[72] SCHUBERT, BENJAMIN, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2017-09-06  
[86] 2016-03-07 (PCT/EP2016/054831)  
[87] (WO2016/142357)  
[30] EP (15158253.3) 2015-03-09  
[30] EP (PCT/EP2015/063658) 2015-06-17

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[11] **2,978,816**  
[13] C

[51] **Int.Cl. E06B 3/96 (2006.01) E06B 1/52 (2006.01) F16B 1/00 (2006.01) F16B 12/46 (2006.01)**  
[25] EN  
[54] **FRAME WITH STRENGTHENED CORNERS**  
[54] **CADRE A COINS RENFORCES**  
[72] JEFFRIES, MARK STEVEN, US  
[73] AUSTIN HARDWARE & SUPPLY, INC., US  
[86] (2978816)  
[87] (2978816)  
[22] 2017-09-11  
[30] US (62/393,462) 2016-09-12

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[11] **2,980,271**  
[13] C

[51] **Int.Cl. G06F 7/00 (2006.01)**  
[25] EN  
[54] **AGGREGATING HIGH VOLUMES OF TEMPORAL DATA FROM MULTIPLE OVERLAPPING SOURCES**  
[54] **AGREGATION DE GROS VOLUMES DE DONNEES TEMPORELLES PROVENANT DE SOURCES MULTIPLES AVEC RECOUVREMENT**  
[72] O'REILLY, CONOR, IE  
[72] DE SOUSA FELIX, TELMO INACIO, IE  
[72] CRADDOCK, CIAN, IE  
[73] D&B BUSINESS INFORMATION SOLUTIONS, IE  
[85] 2017-09-19  
[86] 2016-03-17 (PCT/IB2016/000413)  
[87] (WO2016/151397)  
[30] US (62/135,982) 2015-03-20

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[11] **2,981,200**  
[13] C

[51] **Int.Cl. A61C 9/00 (2006.01) A61B 5/00 (2006.01) A61C 19/04 (2006.01)**  
[25] EN  
[54] **METHOD AND MEASUREMENT SYSTEM FOR OPTICALLY MEASURING AN OBJECT**  
[54] **PROCEDE ET SYSTEME DE MESURE DESTINES A LA MESURE OPTIQUE D'UN OBJET**  
[72] ADAMSON, ANDERS, DE  
[72] THIEL, FRANK, DE  
[72] WILLERS, ULF, DE  
[73] SIRONA DENTAL SYSTEMS GMBH, DE  
[85] 2017-09-28  
[86] 2016-04-11 (PCT/EP2016/057870)  
[87] (WO2016/162552)  
[30] DE (10 2015 206 341.0) 2015-04-09

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[11] **2,984,951**  
[13] C

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 21/10 (2006.01) E21B 23/00 (2006.01) E21B 34/06 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **SLIDING SLEEVE HAVING INDEXING MECHANISM AND EXPANDABLE SLEEVE**  
[54] **MANCHON COULISSANT MUNI D'UN MECANISME D'INDEXATION ET MANCHON EXPANSIBLE**  
[72] GONZALEZ, DICK S., US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC., US  
[85] 2017-11-02  
[86] 2016-06-07 (PCT/US2016/036228)  
[87] (WO2016/200819)  
[30] US (62/173,934) 2015-06-10

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[11] **2,985,255**

[13] C

- [51] **Int.Cl. A63F 1/12 (2006.01)**  
[25] EN  
[54] **CARD SHUFFLER WITH  
ADJACENT CARD INFEED AND  
CARD OUTPUT COMPARTMENTS**  
[54] **MELANGEUR DE CARTES A  
MELANGEUR DE CARTES A  
ADJACENTE ET  
COMPARTIMENTS DE SORTIE  
POUR LES CARTES**  
[72] SCHEPER, PAUL K., US  
[72] GRAUZER, ATTILA, US  
[72] KELLY, JAMES V., US  
[72] STASSON, JAMES B., US  
[72] SWANSON, RONALD R., US  
[72] BOURBOUR, FERAIDON, US  
[72] NELSON, TROY D., US  
[72] LOPEZ, DAVID B., US  
[72] YOSELOFF, MARK L., US  
[72] DUNN, R. BROOKE, US  
[72] BLAHA, ERNST, US  
[72] KRENN, PETER, US  
[73] SG GAMING, INC., US  
[86] (2985255)  
[87] (2985255)  
[22] 2007-06-28  
[62] 2,662,775  
[30] US (11/481,407) 2006-07-05

[11] **2,987,396**

[13] C

- [51] **Int.Cl. E21B 23/01 (2006.01) E21B  
33/12 (2006.01) E21B 33/129 (2006.01)**  
[25] EN  
[54] **WELLBORE ANCHORING  
ASSEMBLY**  
[54] **ENSEMBLE D'ANCRAGE POUR  
PUITS DE FORAGE**  
[72] SCHMIDT, DANIEL LEE, US  
[72] OGLE, BRIAN KEITH, US  
[72] ROSEMAN, MATT BRIAN, US  
[73] HALLIBURTON ENERGY  
SERVICES, INC., US  
[85] 2017-11-27  
[86] 2015-07-09 (PCT/US2015/039646)  
[87] (WO2017/007476)

[11] **2,988,745**

[13] C

- [51] **Int.Cl. G10L 19/008 (2013.01)**  
[25] EN  
[54] **MDCT-BASED COMPLEX  
PREDICTION STEREO CODING**  
[54] **CODAGE STEREO A PREDICTION  
COMPLEXE A BASE DE MDCT**  
[72] CARLSSON, PONTUS, SE  
[72] PURNHAGEN, HEIKO, SE  
[72] VILLEMOS, LARS, SE  
[73] DOLBY INTERNATIONAL AB, NL  
[86] (2988745)  
[87] (2988745)  
[22] 2011-04-06  
[62] 2,793,317  
[30] US (61/322458) 2010-04-09

[11] **2,989,355**

[13] C

- [51] **Int.Cl. A24F 40/465 (2020.01) A24F  
40/10 (2020.01) A24F 40/44 (2020.01)  
A61M 11/00 (2006.01)**  
[25] EN  
[54] **ELECTRONIC AEROSOL  
PROVISION SYSTEMS**  
[54] **SYSTEMES DE PROVISION  
D'AEROSOL ELECTRONIQUE**  
[72] FRASER, RORY, GB  
[72] DICKENS, COLIN, GB  
[72] JAIN, SIDDHARTHA, GB  
[73] NICOVENTURES TRADING  
LIMITED, GB  
[85] 2017-12-13  
[86] 2016-06-10 (PCT/GB2016/051730)  
[87] (WO2017/001818)  
[30] GB (1511349.1) 2015-06-29

[11] **2,989,700**

[13] C

- [51] **Int.Cl. A45F 5/02 (2006.01)**  
[25] EN  
[54] **CAN HOLDER SYSTEM**  
[54] **SYSTEME DE SUPPORT DE  
CANETTE**  
[72] GLENDINNING, KEN, CA  
[73] GLENDINNING, KEN, CA  
[86] (2989700)  
[87] (2989700)  
[22] 2017-12-21

[11] **2,990,090**

[13] C

- [51] **Int.Cl. E04H 12/08 (2006.01) E04H  
12/34 (2006.01)**  
[25] EN  
[54] **SUBSECTION OF A TOWER  
SECTION, A TOWER AND A  
METHOD FOR  
MANUFACTURING A  
SUBSECTION OF A TOWER  
SECTION**  
[54] **SOUS-SECTION D'UNE SECTION  
DE TOUR, UNE TOUR ET UNE  
METHODE DE FABRICATION  
D'UNE SOUS-SECTION D'UNE  
SECTION DE TOUR**  
[72] PORM, KARSTEN, DE  
[72] BOCKHOLT, STEFAN, DE  
[72] JAKOWSKI, KLAUS, DE  
[72] AHRENS, ROBIN, DE  
[72] BULL, MICHAEL, DE  
[73] ENO ENERGY SYSTEMS GMBH, DE  
[85] 2017-12-19  
[86] 2016-06-23 (PCT/EP2016/064625)  
[87] (WO2016/207322)  
[30] DE (10 2015 110 344.3) 2015-06-26

[11] **2,991,220**

[13] C

- [51] **Int.Cl. H01M 50/253 (2021.01) E21B  
47/017 (2012.01) H01M 50/233  
(2021.01) H01M 50/244 (2021.01)  
H01M 50/552 (2021.01) E21B 41/00  
(2006.01) E21B 44/00 (2006.01) E21B  
47/01 (2012.01)**  
[25] EN  
[54] **BATTERY PACK FOR USE  
DOWNHOLE HAVING TORSION-  
LIMITING MEANS**  
[54] **BLOC PILE DESTINE A UN FOND  
DE TROU AYANT UN  
MECANISME DE LIMITATION DE  
COUPLE**  
[72] PARE, QUENTIN, CA  
[72] BROWN, CARL, CA  
[72] ARMSTRONG, TYLER, CA  
[73] CHARGER INDUSTRIES CANADA  
LIMITED PARTNERSHIP, CA  
[86] (2991220)  
[87] (2991220)  
[22] 2018-01-08

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[13] A1

[51] **Int.Cl. C11D 3/43 (2006.01) C11D 1/83 (2006.01) C11D 1/94 (2006.01) C11D 1/29 (2006.01) C11D 1/75 (2006.01) C11D 3/20 (2006.01)**

[25] EN  
[54] **CLEANING PRODUCT**  
[54] **PRODUIT NETTOYANT**  
[72] BOERS, WESLEY YVONNE PIETER, BE  
[72] VANCAMPENHOUT, PETER, BE  
[72] GONZALES, DENIS ALFRED, BE  
[72] DKIDAK, AICHA, BE  
[72] BETTIOL, JEAN-LUC PHILIPPE, BE  
[73] THE PROCTER & GAMBLE COMPANY, US  
[73] BOERS, WESLEY YVONNE PIETER, [73] VANCAMPENHOUT, PETER, [73] GONZALES, DENIS ALFRED, [73] DKIDAK, AICHA, [73] BETTIOL, JEAN-LUC PHILIPPE, [85] 2018-01-12  
[86] 2016-06-30 (PCT/US2016/040277)  
[87] (WO2017/011194)  
[30] EP (15176541.9) 2015-07-13

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[11] **2,993,521**  
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/06 (2006.01) E21B 33/128 (2006.01) E21B 34/06 (2006.01)**

[25] EN  
[54] **TOP SET DEGRADABLE WELLBORE ISOLATION DEVICE**  
[54] **DISPOSITIF D'ISOLATION DE Puits DE Forage Degradable Place Depuis Le Sommet**  
[72] WALTON, ZACHARY WILLIAM, US  
[72] FRIPP, MICHAEL LINLEY, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-01-24  
[86] 2015-09-02 (PCT/US2015/048198)  
[87] (WO2017/039661)

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[11] **2,995,220**  
[13] C

[51] **Int.Cl. A47F 5/08 (2006.01) A47B 96/06 (2006.01) A47F 5/02 (2006.01)**

[25] EN  
[54] **BRACKET FOR PRODUCT DISPLAY GRID AND RELATED METHODS**  
[54] **SUPPORT POUR GRILLE DE PRESENTOIR DE PRODUITS ET PROCEDES CONNEXES**  
[72] WILLS, MATTHEW, US  
[72] FLUEGGE, CRAIG A., US  
[72] POLLPETER, ERIC, US  
[73] RETAIL SPACE SOLUTIONS LLC, US  
[86] (2995220)  
[87] (2995220)  
[22] 2018-02-15  
[30] US (62/459,315) 2017-02-15

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[11] **2,997,229**  
[13] C

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 7/117 (2016.01) A23L 27/12 (2016.01) A23L 27/21 (2016.01) A23L 27/23 (2016.01) A23L 27/30 (2016.01) A23L 27/60 (2016.01)**

[25] EN  
[54] **REDUCING OR ELIMINATING A STEVIOL GLYCOSIDE-RELATED OFF-TASTE IN FOOD OR BEVERAGE COMPOSITIONS**  
[54] **REDUCTION OU ELIMINATION D'UN ARRIERE-GOUT DE GLYCOSIDE DE STEVIOL DANS DES COMPOSITIONS D'ALIMENTS OU DE BOISSONS**  
[72] SCHUBE, VIOLETTA, DE  
[72] PAARMANN, CHRISTIANE, DE  
[73] OHLY GMBH, DE  
[85] 2018-03-01  
[86] 2016-09-02 (PCT/EP2016/070774)  
[87] (WO2017/037263)  
[30] EP (15183587.3) 2015-09-02

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[11] **2,997,303**  
[13] C

[51] **Int.Cl. C12Q 1/689 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6858 (2018.01) C07H 21/04 (2006.01) C12N 15/31 (2006.01)**

[25] EN  
[54] **SEQUENCES FOR THE DETECTION AND IDENTIFICATION OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS MREJ TYPE VI STRAINS**  
[54] **SEQUENCES SERVANT A LA DETECTION ET L'IDENTIFICATION DE STAPHYLOCOQUE DORE DE SOUCHES MREJ DE TYPE VI**  
[72] HULETSKY, ANN, CA  
[72] ROSSBACH, VALERY, CA  
[73] GENEOHM SCIENCES CANADA INC., CA  
[86] (2997303)  
[87] (2997303)  
[22] 2002-06-04  
[62] 2,899,816  
[30] CA (2,348,042) 2001-06-04

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[11] **2,997,330**  
[13] C

[51] **Int.Cl. E06B 1/32 (2006.01) E06B 1/30 (2006.01) E06B 1/52 (2006.01)**

[25] EN  
[54] **DOOR ASSEMBLY**  
[54] **DISPOSITIF DE PORTE**  
[72] MACDONALD, KEVIN, US  
[72] JASKIEWICZ, TOM, US  
[72] JOHNSON, ERIC, US  
[73] ENDURA PRODUCTS, LLC, US  
[86] (2997330)  
[87] (2997330)  
[22] 2018-03-05  
[30] US (62/466,584) 2017-03-03

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[11] **2,999,017**  
[13] C

[51] **Int.Cl. A47J 31/20 (2006.01) A47J 31/10 (2006.01)**  
[25] EN  
[54] **DEVICE FOR PREPARING A FILTERED COFFEE BEVERAGE**  
[54] **DISPOSITIF DE PREPARATION D'UNE BOISSON AU CAFE FILTREE**  
[72] HERMSEN, MANFRED, DE  
[73] HERMSEN, MANFRED, DE  
[86] (2999017)  
[87] (2999017)  
[22] 2018-03-23  
[30] DE (10 2017 002 943.1) 2017-03-27

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[11] **3,000,650**  
[13] C

[51] **Int.Cl. C08K 7/20 (2006.01) D01F 1/10 (2006.01) D21F 1/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR IMPROVED ABRASION RESISTANCE OF POLYMERIC COMPONENTS**  
[54] **COMPOSITIONS ET PROCÉDES POUR OBTENIR UNE RÉSISTANCE À L'ABRASION AMÉLIORÉE DE COMPOSANTS POLYMERES**  
[72] AGARWAL, DHARUV, US  
[72] JANDRIS, LOUIS JAY, US  
[73] ALBANY INTERNATIONAL CORP., US  
[85] 2018-03-29  
[86] 2016-05-18 (PCT/US2016/033022)  
[87] (WO2017/062067)  
[30] US (62/237,300) 2015-10-05

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[11] **3,001,127**  
[13] C

[51] **Int.Cl. G01V 11/00 (2006.01) G06T 17/20 (2006.01)**  
[25] EN  
[54] **TARGET OBJECT SIMULATION USING ORBIT PROPAGATION**  
[54] **SIMULATION D'OBJET CIBLE UTILISANT UNE PROPAGATION D'ORBITE**  
[72] YARUS, JEFFREY MARC, US  
[72] SHI, GENBAO, US  
[72] LICERAS, VERONICA, US  
[72] PANDEY, YOGENDRA NARAYAN, US  
[72] WANG, ZHAOYANG, US  
[72] SRIVASTAVA, RAE MOHAN, CA  
[73] LANDMARK GRAPHICS CORPORATION, US  
[85] 2018-04-05  
[86] 2015-11-10 (PCT/US2015/059864)  
[87] (WO2017/082871)

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[11] **3,001,129**  
[13] C

[51] **Int.Cl. G06T 17/20 (2006.01)**  
[25] EN  
[54] **TARGET OBJECT SIMULATION USING UNDULATING SURFACES**  
[54] **SIMULATION D'OBJETS CIBLES À L'AIDE DE SURFACES ONDULEES**  
[72] YARUS, JEFFREY MARC, US  
[72] SRIVASTAVA, RAE MOHAN, CA  
[72] SHI, GENBAO, US  
[72] LICERAS, VERONICA, US  
[72] PANDEY, YOGENDRA NARAYAN, US  
[72] WANG, ZHAOYANG, US  
[73] LANDMARK GRAPHICS CORPORATION, US  
[85] 2018-04-05  
[86] 2015-11-10 (PCT/US2015/059871)  
[87] (WO2017/082872)

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[11] **3,001,310**  
[13] C

[51] **Int.Cl. A23K 50/70 (2016.01) A23K 20/10 (2016.01) A23K 20/111 (2016.01)**  
[25] EN  
[54] **BIRD FEED AND IN PARTICULAR POULTRY FEED, COMPRISING SYNTHETIC CAPSAICINOID DERIVATIVES AND SUCH FEED FOR PROHYLACTIC USE OR TREATMENT OF SALMONELLA INFECTION**  
[54] **ALIMENT POUR OISEAUX ET EN PARTICULIER ALIMENT POUR LA VOLAILLE, COMPRENANT DES DERIVES CAPSAICINOIDES SYNTHETIQUES ET UTILISATION DE CET ALIMENT A DES FINS DE PROPHYLAXIE OU DE TRAITEMENT D'UNE INFECTION PAR LA SALMONELLE**  
[72] HELSING, TORSTEN, NO  
[73] AXICHEM AB, NO  
[85] 2018-04-06  
[86] 2015-10-09 (PCT/NO2015/050186)  
[87] (WO2017/061871)

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[11] **3,001,568**  
[13] C

[51] **Int.Cl. C25C 1/12 (2006.01)**  
[25] EN  
[54] **OPPORTUNITIES FOR RECOVERY AUGMENTATION PROCESS AS APPLIED TO MOLYBDENUM PRODUCTION**  
[54] **PERSPECTIVES D'ÉVOLUTION DANS LE PROCESSUS D'AUGMENTATION DE RENDEMENT TEL QU'APPLIQUÉ À LA PRODUCTION DE MOLYBDÈNE**  
[72] ROTHMAN, PAUL J., US  
[72] FERNALD, MARK R., US  
[72] AMELUNXEN, PETER, CA  
[73] CIDRA CORPORATE SERVICES INC., US  
[85] 2018-04-10  
[86] 2016-10-17 (PCT/US2016/057334)  
[87] (WO2017/066756)  
[30] US (62/242,521) 2015-10-16

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[11] **3,006,178**  
[13] C

[51] **Int.Cl. A62C 37/50 (2006.01)**  
[25] EN  
[54] **FIRE ALARM TESTING DEVICE AND METHOD**  
[54] **PROCEDE ET DISPOSITIF D'ESSAI D'ALARME INCENDIE**  
[72] AINSWORTH, STEPHEN D., CA  
[72] AINSWORTH, MARK D., CA  
[73] AINSWORTH, STEPHEN D., CA  
[73] AINSWORTH, MARK D., CA  
[86] (3006178)  
[87] (3006178)  
[22] 2018-05-25

[11] **3,006,473**  
[13] C

[51] **Int.Cl. A23F 5/00 (2006.01) A23F 3/00 (2006.01) A23F 5/24 (2006.01) A47J 31/44 (2006.01) C02F 1/68 (2006.01) C02F 1/00 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR OPERATING A COFFEE MACHINE AND/OR TEA MACHINE WITH FULLY SOFTENED WATER**  
[54] **METHODE ET DISPOSITIF DESTINES AU FONCTIONNEMENT D'UNE MACHINE A CAFE OU D'UNE MACHINE A THE A L'EAU ADOUCIE**  
[72] BISSEN, MONIQUE, DE  
[73] ICON GMBH & CO. KG, DE  
[86] (3006473)  
[87] (3006473)  
[22] 2018-05-29  
[30] EP (EP17174831.2) 2017-06-07

[11] **3,012,447**  
[13] C

[51] **Int.Cl. C22C 38/12 (2006.01) C21D 8/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**  
[25] EN  
[54] **STEEL SHEET FOR CAN AND METHOD FOR MANUFACTURING THE SAME**  
[54] **TOLE D'ACIER POUR CANETTES ET SON PROCEDE DE FABRICATION**  
[72] TADA, MASAKI, JP  
[72] KOJIMA, KATSUMI, JP  
[73] JFE STEEL CORPORATION, JP  
[85] 2018-07-24  
[86] 2017-02-02 (PCT/JP2017/003748)  
[87] (WO2017/150066)  
[30] JP (2016-038201) 2016-02-29

[11] **3,013,654**  
[13] C

[51] **Int.Cl. B01D 27/14 (2006.01) B01D 27/04 (2006.01) B01D 27/08 (2006.01)**  
[25] EN  
[54] **A MODULAR FILTRATION PLATFORM**  
[54] **PLATEFORME DE FILTRATION MODULAIRE**  
[72] FOIX, LORI, US  
[72] SHERMAN, MICHAEL J., US  
[72] WILSON, STEVE, US  
[72] LARSON, JAMES B., US  
[72] KLIMPEL, ERIK, US  
[72] KIRCHNER, RICHARD A., US  
[72] TOUSLEY, CHAD, US  
[72] HAEHN, STEVEN, US  
[72] EHLERS, JEFF, US  
[73] THE FINITY DIVISION OF PRINCE CASTLE LLC, US  
[85] 2018-08-02  
[86] 2017-03-09 (PCT/US2017/021580)  
[87] (WO2017/156277)  
[30] US (62/306,870) 2016-03-11  
[30] US (15/427,657) 2017-02-08

[11] **3,013,816**  
[13] C

[51] **Int.Cl. C08K 3/04 (2006.01) C08J 3/22 (2006.01)**  
[25] EN  
[54] **ELASTOMER COMPOUNDS COMPOSES ELASTOMERES**  
[72] CHEN, LIMENG, US  
[72] CHOI, JAESUN, US  
[72] KYRLIDIS, AGATHAGELOS, US  
[72] TASSINARI, OLIVER W., US  
[73] CABOT CORPORATION, US  
[85] 2018-08-06  
[86] 2017-01-30 (PCT/US2017/015578)  
[87] (WO2017/139115)  
[30] US (62/293,449) 2016-02-10

[11] **3,015,078**  
[13] C

[51] **Int.Cl. H04J 11/00 (2006.01) H04W 56/00 (2009.01) H04L 27/26 (2006.01) H04L 25/03 (2006.01)**  
[25] EN  
[54] **EXTENDED SYNCHRONIZATION SIGNAL FOR SYMBOL INDEX DETECTION**  
[54] **SIGNAL DE SYNCHRONISATION ETENDU PERMETTANT UNE DETECTION D'INDICE DE SYMBOLE**  
[72] SADIQ, BILAL, US  
[72] LUO, TAO, US  
[72] CEZANNE, JUERGEN, US  
[72] ABEDINI, NAVID, US  
[72] MUKKAVILLI, KRISHNA KIRAN, US  
[72] ISLAM, MUHAMMAD NAZMUL, US  
[72] SUBRAMANIAN, SUNDAR, US  
[72] SAMPATH, ASHWIN, US  
[73] QUALCOMM INCORPORATED, US  
[85] 2018-08-17  
[86] 2017-02-27 (PCT/US2017/019652)  
[87] (WO2017/165080)  
[30] US (62/313,110) 2016-03-24  
[30] US (62/315,659) 2016-03-30  
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[30] US (62/324,873) 2016-04-19  
[30] US (15/270,879) 2016-09-20

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[13] C

[51] **Int.Cl. C11D 7/50 (2006.01) C09D 9/00 (2006.01) C11D 11/00 (2006.01)**  
[25] EN  
[54] **CLEANING COMPOSITION**  
[54] **COMPOSITION DE NETTOYAGE**  
[72] STEINMETZ, BERNHARD, DE  
[72] JANKOWSKI, PEGGY, DE  
[72] LUHMANN, NADIA, DE  
[72] MATURA, MICHAEL, DE  
[73] BASF COATINGS GMBH, DE  
[85] 2018-08-21  
[86] 2017-03-03 (PCT/EP2017/054996)  
[87] (WO2017/157694)  
[30] EP (16160080.4) 2016-03-14

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[11] **3,015,451**  
[13] C

[51] **Int.Cl. G01B 7/06 (2006.01) F22B 37/10 (2006.01) F22B 37/38 (2006.01) G21C 17/017 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR MEASURING DEPOSITS INSIDE A TUBE**  
[54] **APPAREIL ET PROCEDE DE MESURE DE DEPOTS A L'INTERIEUR D'UN TUBE**  
[72] LAKHAN, RICHARD, CA  
[72] LEPINE, BRIAN, CA  
[72] RENAUD, JOSEPH, CA  
[72] DAVEY, LAURIE, CA  
[73] ATOMIC ENERGY OF CANADA LIMITED, CA  
[86] (3015451)  
[87] (3015451)  
[22] 2010-06-25  
[62] 2,766,462  
[30] US (61/220,402) 2009-06-25

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[11] **3,015,504**  
[13] C

[51] **Int.Cl. B65G 63/00 (2006.01) B65G 1/04 (2006.01) B65G 35/06 (2006.01)**  
[25] EN  
[54] **TRANSPORT AND HANDOVER SYSTEM FOR STORING AND REMOVING OR RELOCATING STORAGE ITEMS IN HIGH-BAY WAREHOUSES, AND STORAGE AND RETRIEVAL MACHINE**  
[54] **SYSTEME DE TRANSPORT ET DE TRANSFERT POUR LE STOCKAGE ET LE DESTOCKAGE OU LE TRANSFERT DE MARCHANDISES ENTREPOSEES DANS DES ENTREPOTS A RAYONNAGES HAUTS ET TRANSSTOCKEUR**  
[72] HEIDE, CARSTEN, DE  
[72] BRUCK, VOLKER, DE  
[73] AMOVA GMBH, DE  
[85] 2018-08-22  
[86] 2017-03-15 (PCT/EP2017/056140)  
[87] (WO2017/158034)  
[30] DE (10 2016 204 246.7) 2016-03-15

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[11] **3,017,744**  
[13] C

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/24 (2012.01) G06Q 40/02 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR BILL PAYMENT WITH DYNAMIC LOAN CAPACITY**  
[54] **SYSTEMES ET PROCEDES DE PAIEMENT DE FACTURE AYANT UNE CAPACITE DE PRET DYNAMIQUE**  
[72] BERTA, CECILE, US  
[72] ESMAIL, MEHDI, US  
[72] GUPTA, MANISH, US  
[72] LUCIANO, MALERIE, US  
[72] MOTAHARIAN, HOUMAN, US  
[72] RICCIARDI, ART, US  
[72] SARIN, APARNA, US  
[72] SUSSMAN, BRETT, US  
[72] VALDES, FERNANDO, US  
[73] AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC., US  
[85] 2018-09-13  
[86] 2017-02-23 (PCT/US2017/019002)  
[87] (WO2017/160482)  
[30] US (15/072,094) 2016-03-16

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[11] **3,018,237**  
[13] C

[51] **Int.Cl. F25J 1/02 (2006.01) F25J 5/00 (2006.01)**  
[25] EN  
[54] **MULTIPLE PRESSURE MIXED REFRIGERANT COOLING PROCESS**  
[54] **PROCEDE DE REFROIDISSEMENT DE REFRIGERANT MELANGE A PRESSION MULTIPLE**  
[72] KRISHNAMURTHY, GOWRI, US  
[72] ROBERTS, MARK JULIAN, US  
[72] BROSTOW, ADAM ADRIAN, US  
[73] AIR PRODUCTS AND CHEMICALS, INC., US  
[86] (3018237)  
[87] (3018237)  
[22] 2018-09-24  
[30] US (15/718,068) 2017-09-28

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[11] **3,018,592**  
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01) A61B 5/00 (2006.01) A61G 7/057 (2006.01)**  
[25] EN  
[54] **WIRELESS PRESSURE ULCER ALERT DRESSING SYSTEM**  
[54] **SYSTEME DE PANSEMENT D'ALERTE D'ESCARRE DE DECUBITUS SANS FIL**  
[72] DRENNAN, DENIS BURKE, US  
[72] TRAPANI, MATTHEW FRANK, US  
[73] WALGREEN HEALTH SOLUTIONS, LLC, US  
[85] 2018-09-20  
[86] 2017-03-29 (PCT/US2017/024667)  
[87] (WO2017/172862)  
[30] US (15/084,409) 2016-03-29

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[11] **3,019,347**  
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01) A61B 17/12 (2006.01)**  
[25] EN  
[54] **FILTER AND OCCLUDER SYSTEMS AND ASSOCIATED METHODS AND DEVICES**  
[54] **SYSTEMES DE FILTRE ET D'OCCLUSION ET PROCEDES ET DISPOSITIFS ASSOCIES**  
[72] MONTGOMERY, WILLIAM D., US  
[72] SHAW, EDWARD E., US  
[73] W. L. GORE & ASSOCIATES, INC., US  
[85] 2018-09-27  
[86] 2017-05-11 (PCT/US2017/032065)  
[87] (WO2017/213789)  
[30] US (62/334,767) 2016-05-11  
[30] US (62/448,583) 2017-01-20  
[30] US (15/591,755) 2017-05-10

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[11] **3,019,717**  
[13] C

[51] **Int.Cl. B61L 15/00 (2006.01) H04W 84/00 (2009.01) B61L 27/00 (2006.01)**  
[25] FR  
[54] **METHOD AND SYSTEM FOR PERMANENT INTERNET ACCESS IN ALL OF THE SPACES OF AN URBAN BUS TRANSPORT NETWORK**  
[54] **PROCEDE ET SYSTEME D'ACCES INTERNET PERMANENT DANS L'ENSEMBLE DES ESPACES D'UN RESEAU DE TRANSPORT URBAIN DE TYPE OMNIBUS**  
[72] CHAGNY, CHRISTIAN, FR  
[72] PHAM, VY-XUYEN, FR  
[72] SABOURIN, FABRICE, FR  
[72] LELONG, SEBASTIEN, FR  
[73] METROLAB, FR  
[85] 2018-10-02  
[86] 2017-04-18 (PCT/EP2017/059199)  
[87] (WO2017/182474)  
[30] FR (1653443) 2016-04-19

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[11] **3,020,624**  
[13] C

[51] **Int.Cl. B32B 13/00 (2006.01) B32B 13/04 (2006.01) B32B 13/12 (2006.01) B32B 19/00 (2006.01) B32B 19/04 (2006.01) B32B 21/00 (2006.01) B32B 21/02 (2006.01) B32B 21/04 (2006.01) B32B 21/08 (2006.01) B32B 21/14 (2006.01) B32B 27/00 (2006.01) B32B 27/06 (2006.01) B32B 27/08 (2006.01) B32B 27/18 (2006.01) B32B 27/28 (2006.01) B32B 27/30 (2006.01) B32B 27/36 (2006.01) B32B 27/38 (2006.01) B32B 27/40 (2006.01) B32B 27/42 (2006.01) B32B 29/00 (2006.01)**  
[25] EN  
[54] **CARRIER MATERIAL HAVING A MODIFIED RESIN LAYER AND PRODUCTION OF SAID CARRIER MATERIAL**  
[54] **MATERIAU DE SUPPORT MUNI D'UNE COUCHE DE RESINE MODIFIEE ET FABRICATION DUDIT MATERIAU**  
[72] BRAUN, ROGER, CH  
[72] GIER, ANDREAS, DE  
[72] MOISCH, DORIN, CH  
[72] STEINMANN, PIUS, CH  
[73] SWISS KRONO TEC AG, CH  
[85] 2018-10-11  
[86] 2016-11-30 (PCT/EP2016/079282)  
[87] (WO2017/178083)  
[30] EP (16164881.1) 2016-04-12

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[11] **3,021,409**  
[13] C

[51] **Int.Cl. G06F 9/46 (2006.01) G06F 9/38 (2018.01) G06F 9/52 (2006.01)**  
[25] EN  
[54] **SYNCHRONIZATION IN A MULTI-TILE, MULTI-CHIP PROCESSING ARRANGEMENT**  
[54] **SYNCHRONISATION D'UN ARRANGEMENT DE TRAITEMENT DE MOSAIQUE, MULTIPUCE**  
[72] WILKINSON, DANIEL JOHN PELHAM, GB  
[72] FELIX, STEPHEN, GB  
[72] OSBORNE, RICHARD LUKE SOUTHWELL, GB  
[72] KNOWLES, SIMON CHRISTIAN, GB  
[72] ALEXANDER, ALAN GRAHAM, GB  
[72] QUINN, IAN JAMES, GB  
[73] GRAPHCORE LIMITED, GB  
[86] (3021409)  
[87] (3021409)  
[22] 2018-10-19  
[30] GB (1717294.1) 2017-10-20

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[11] **3,022,831**  
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 15/14 (2006.01)**  
[25] EN  
[54] **FLUIDIC DEVICES AND METHODS OF MANUFACTURING THE SAME**  
[54] **DISPOSITIFS FLUIDIQUES ET LEURS PROCEDES DE FABRICATION**  
[72] EARNEY, JOHN GERHARDT, US  
[72] FULLERTON, JUSTIN, US  
[72] SMITH, KALEB, US  
[72] VENKATESAN, BALA MURALI K., US  
[73] ILLUMINA, INC., US  
[85] 2018-10-31  
[86] 2017-12-12 (PCT/US2017/065855)  
[87] (WO2018/144138)  
[30] US (62/452,923) 2017-01-31

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[11] **3,023,452**  
[13] C

[51] **Int.Cl. C09K 8/26 (2006.01) C09K 8/28 (2006.01) E21B 7/15 (2006.01)**  
[25] EN  
[54] **DRILLING FLUID FOR DOWNHOLE ELECTROCRUSHING DRILLING**  
[54] **FLUIDE DE FORAGE POUR FORAGE PAR ELECTROCONCASSAGE EN FOND DE TROU**  
[72] VAN SLYKE, DONALD CURTIS, US  
[72] SHUMWAY, WILLIAM WALTER, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[73] CHEVRON U.S.A. INC., US  
[85] 2018-11-06  
[86] 2016-06-16 (PCT/US2016/037841)  
[87] (WO2017/217992)



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[11] **3,025,825**  
[13] C

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[25] EN  
[54] **DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**  
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**  
[72] ZHANG, YI, CN  
[73] 10353744 CANADA LTD., CA  
[85] 2018-11-28  
[86] 2015-06-30 (PCT/CN2015/082794)  
[87] (WO2017/000194)

[11] **3,028,185**  
[13] C

- [51] **Int.Cl. C07C 51/353 (2006.01) C07C 51/14 (2006.01) C07C 309/30 (2006.01) C07F 15/00 (2006.01) C07F 17/02 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE DIRECT CONVERSION OF DIISOBUTENE TO A CARBOXYLIC ACID**  
[54] **PROCEDE DE CONVERSION DIRECTE DE DIISOBUTENE EN UN ACIDE CARBOXYLIQUE**  
[72] SANG, RUI, CN  
[72] KUCMIERCZYK, PETER, DE  
[72] DONG, KAIWU, CN  
[72] JACKSTELL, RALF, DE  
[72] BELLER, MATTHIAS, DE  
[72] FRANKE, ROBERT, DE  
[73] EVONIK OPERATIONS GMBH, DE  
[86] (3028185)  
[87] (3028185)  
[22] 2018-12-19  
[30] EP (17209336.1) 2017-12-21

[11] **3,029,158**  
[13] C

- [51] **Int.Cl. A61B 17/135 (2006.01)**  
[25] EN  
[54] **HEMOSTATIC INSTRUMENT**  
[54] **INSTRUMENT HEMOSTATIQUE**  
[72] HAZAMA, KENICHI, US  
[73] TERUMO KABUSHIKI KAISHA, JP  
[85] 2018-12-21  
[86] 2017-07-03 (PCT/JP2017/024383)  
[87] (WO2018/008602)  
[30] JP (2016-134609) 2016-07-06

[11] **3,029,174**  
[13] C

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[25] EN  
[54] **HYDROGENATION-DEHYDROGENATION METHOD FOR TIAL ALLOY AND METHOD FOR PRODUCING TIAL ALLOY POWDER**  
[54] **PROCEDE D'HYDROGENATION-DESHYDROGENATION POUR ALLIAGE TIAL ET PROCEDE DE PRODUCTION DE POUFRE D'ALLIAGE TIAL**  
[72] SOBU, SHINTARO, JP  
[72] HANADA, TADAYUKI, JP  
[73] MITSUBISHI HEAVY INDUSTRIES AERO ENGINES, LTD., JP  
[85] 2018-12-21  
[86] 2017-12-06 (PCT/JP2017/043858)  
[87] (WO2018/105664)  
[30] JP (2016-237870) 2016-12-07

[11] **3,029,180**  
[13] C

- [51] **Int.Cl. B61L 5/18 (2006.01) B61L 1/20 (2006.01)**  
[25] EN  
[54] **MONITORING SYSTEM, WAYSIDE LED SIGNAL, AND METHOD FOR MONITORING A WAYSIDE LED SIGNAL**  
[54] **SYSTEME DE SURVEILLANCE, DISPOSITIF DE SIGNALISATION A DEL EN VOIE, ET PROCEDE DE SURVEILLANCE D'UN DISPOSITIF DE SIGNALISATION A DEL EN VOIE**  
[72] SMITH, JEFFREY, GB  
[72] COWEN, DAVID, GB  
[73] SIEMENS MOBILITY, INC., US  
[85] 2018-12-21  
[86] 2016-06-27 (PCT/US2016/039551)  
[87] (WO2018/004513)

[11] **3,029,297**  
[13] C

- [51] **Int.Cl. F16L 33/22 (2006.01) F16L 27/08 (2006.01) F16L 33/24 (2006.01) F16L 37/088 (2006.01)**  
[25] EN  
[54] **HOSE REPAIR KIT WITH LIVE SWIVEL COUPLING**  
[54] **TROUSSE DE REPARATION DE TUYAU COMPORTANT UN RACCORD PIVOT ACTIF**  
[72] BADHORN, EDWARD H., US  
[72] CAPRIO, KENNETH M., US  
[73] TECTRAN MFG. INC., US  
[86] (3029297)  
[87] (3029297)  
[22] 2019-01-08  
[30] US (15/871576) 2018-01-15

[11] **3,029,800**  
[13] C

- [51] **Int.Cl. C10G 67/02 (2006.01) B01J 23/745 (2006.01) C10G 31/10 (2006.01) C10G 47/26 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR PRODUCING HYDROCRACKED OIL**  
[54] **PROCEDE ET APPAREIL POUR PRODUIRE DE L'HUILE HYDROCRAQUEE**  
[72] TAKAHASHI, YOICHI, JP  
[72] OKUI, TOSHIAKI, JP  
[72] MUROTA, MOTOHARU, JP  
[73] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP  
[73] CHIYODA CORPORATION, JP  
[85] 2019-01-03  
[86] 2017-06-21 (PCT/JP2017/022910)  
[87] (WO2018/012233)  
[30] JP (2016-136871) 2016-07-11

[11] **3,029,966**  
[13] C

- [51] **Int.Cl. B23K 26/70 (2014.01) G02B 26/08 (2006.01) G02B 26/10 (2006.01)**  
[25] EN  
[54] **LASER-TRANSMITTING TOOLING**  
[54] **OUTILLAGE A TRANSMISSION LASER**  
[72] RAVINDRA, DEEPAK VM, US  
[72] KODE, SAI KUMAR, US  
[73] MICRO-LAM, INC., US  
[85] 2019-01-02  
[86] 2017-07-18 (PCT/US2017/042625)  
[87] (WO2018/017584)  
[30] US (62/363,448) 2016-07-18

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[11] **3,030,267**  
[13] C

[51] **Int.Cl. F16K 31/02 (2006.01) E03C  
1/02 (2006.01) F16K 37/00 (2006.01)**  
[25] EN  
[54] **FLUID DISTRIBUTION SYSTEM**  
[54] **SYSTEME DE DISTRIBUTION DE  
FLUIDE**  
[72] ACKER, LARRY K., US  
[73] ADVANCED CONSERVATION  
TECHNOLOGY DISTRIBUTION,  
INC., US  
[86] (3030267)  
[87] (3030267)  
[22] 2019-01-15  
[30] US (15/871,307) 2018-01-15

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[11] **3,030,390**  
[13] C

[51] **Int.Cl. B25J 19/06 (2006.01) B23K  
37/00 (2006.01)**  
[25] EN  
[54] **TOOL HOLDERS FOR ROBOTIC  
SYSTEMS HAVING COLLISION  
DETECTION**  
[54] **PORTE-OUTILS POUR SYSTEMES  
ROBOTIQUES A DETECTION DE  
COLLISION**  
[72] BASIT, NAUMAN, US  
[73] ILLINOIS TOOL WORKS INC., US  
[85] 2019-01-09  
[86] 2017-06-29 (PCT/US2017/039890)  
[87] (WO2018/022245)  
[30] US (15/219,591) 2016-07-26

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[11] **3,030,922**  
[13] C

[51] **Int.Cl. A61M 5/14 (2006.01) A61M  
5/145 (2006.01) A61M 39/10 (2006.01)  
A61M 39/12 (2006.01)**  
[25] EN  
[54] **SMART CONNECTION  
INTERFACE**  
[54] **INTERFACE DE CONNEXION  
INTELLIGENTE**  
[72] BAZARGAN, AFSHIN, US  
[72] PANANEN, JACOB E., US  
[72] ALDERETE, JUAN M., JR., US  
[72] ALI, SHERIF M., US  
[72] GROVER, BENJAMIN A., US  
[72] HALILI, EDGARDO C., US  
[72] MONTALVO, SUSAN MCCONNELL,  
US  
[72] NG, ANTHONY C., US  
[72] RANKERS, ULRICH H., US  
[72] SAKAE, VAUGHN S., US  
[72] VAZQUEZ, PABLO, US  
[72] WEAVER, ANDREW E., US  
[72] YAVORSKY, MATTHEW WILLIAM,  
US  
[72] YU, EDMOND W., US  
[72] WAGNER, JENNIFER L., US  
[72] LIN, MARK, US  
[72] IBRANYAN, ARSEN, US  
[72] TIECK, R. MARIE, US  
[72] TROCK, ADAM S., US  
[72] LORENZEN, ERIC M., US  
[73] MEDTRONIC MINIMED, INC., US  
[86] (3030922)  
[87] (3030922)  
[22] 2015-07-17  
[62] 2,951,953  
[30] US (62/027019) 2014-07-21  
[30] US (62/087445) 2014-12-04  
[30] US (62/150064) 2015-04-20  
[30] US (62/159504) 2015-05-11  
[30] US (14/801338) 2015-07-16  
[30] US (14/801266) 2015-07-16  
[30] US (14/801548) 2015-07-16  
[30] US (14/801429) 2015-07-16  
[30] US (14/801503) 2015-07-16

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[11] **3,031,527**  
[13] C

[51] **Int.Cl. G06F 16/21 (2019.01) G06F  
16/24 (2019.01)**  
[25] EN  
[54] **RECORD MATCHING SYSTEM**  
[54] **SYSTEME D'ENREGISTREMENTS  
DE CORRESPONDANCE**  
[72] BATCHU, RAVI, US  
[72] GANOTRA, MANISH, US  
[72] GILLUM, DIANA, US  
[72] TAO, JOOLEE, US  
[72] TRUESDALE, STEVEN, US  
[73] NATIONAL STUDENT  
CLEARINGHOUSE, US  
[85] 2019-01-21  
[86] 2017-06-30 (PCT/US2017/040308)  
[87] (WO2018/017306)  
[30] US (62/365,858) 2016-07-22  
[30] US (15/593,024) 2017-05-11

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[11] **3,031,919**  
[13] C

[51] **Int.Cl. F16L 15/04 (2006.01)**  
[25] EN  
[54] **THREADED JOINT FOR OIL  
WELL STEEL PIPE**  
[54] **RACCORD FILETE POUR TUYAU  
D'ACIER DE Puits DE PETROLE**  
[72] KAWAI, TAKAMASA, JP  
[72] KANAYAMA, TARO, JP  
[72] YOSHIKAWA, MASAKI, JP  
[72] TAKANO, JUN, JP  
[72] NAGAHAMA, TAKUYA, JP  
[73] JFE STEEL CORPORATION, JP  
[85] 2019-01-24  
[86] 2017-09-13 (PCT/JP2017/033006)  
[87] (WO2018/061767)  
[30] JP (2016-193707) 2016-09-30

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[11] **3,032,321**  
[13] C

[51] **Int.Cl. F03D 13/20 (2016.01) E04H  
12/34 (2006.01)**  
[25] EN  
[54] **TENSION AND COMPRESSION  
ELEMENTS IN A TOWER  
SEGMENT OF A WIND TURBINE**  
[54] **ELEMENTS DE TENSION ET DE  
COMPRESSION DANS UN  
SEGMENT DE MAT D'UNE  
EOLIENNE**  
[72] LONGERU, MARKUS, DE  
[72] BURKNER, FALKO, DE  
[73] WOBLEN PROPERTIES GMBH, DE  
[85] 2019-01-29  
[86] 2017-08-03 (PCT/EP2017/069644)  
[87] (WO2018/029070)  
[30] DE (10 2016 114 661.7) 2016-08-08

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[11] **3,032,375**  
[13] C

[51] **Int.Cl. H01M 8/04007 (2016.01) H01M 8/04014 (2016.01) H01M 8/04089 (2016.01) H01M 8/04119 (2016.01) H01M 8/124 (2016.01) C25B 15/08 (2006.01)**

[25] FR

[54] **SYSTEM FOR REGULATING THE TEMPERATURE AND PRESSURE OF A HIGH-TEMPERATURE ELECTROLYSER (SOEC) REVERSIBLY OPERATING AS A FUEL CELL STACK (SOFC)**

[54] **SYSTEME DE REGULATION DE TEMPERATURE ET DE PRESSION D'UN ELECTROLYSEUR A HAUTE TEMPERATURE (SOEC) FONCTIONNANT DE MANIERE REVERSIBLE EN PILE A COMBUSTIBLE (SOFC)**

[72] CHATROUX, ANDRE, FR

[72] DI IORIO, STEPHANE, FR

[72] DONNIER-MARECHAL, THOMAS, FR

[72] GIROUD, PASCAL, FR

[72] PLANQUE, MICHEL, FR

[72] REYTIER, MAGALI, FR

[72] ROUX, GUILHEM, FR

[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2019-01-29

[86] 2017-07-28 (PCT/EP2017/069150)

[87] (WO2018/024628)

[30] FR (16 57537) 2016-08-03

[11] **3,032,641**  
[13] C

[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR LIQUEFYING NATURAL GAS WITH TURBINE INLET COOLING**

[54] **SYSTEME ET PROCEDE DE LIQUEFACTION DE GAZ NATUREL AVEC REFROIDISSEMENT D'ENTREE DE TURBINE**

[72] HUNTINGTON, RICHARD A., US

[72] SIBAL, PAUL W., US

[72] MATHEIDAS, MICHAEL T., US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2019-01-31

[86] 2017-07-27 (PCT/US2017/044100)

[87] (WO2018/034815)

[30] US (62/375,700) 2016-08-16

[11] **3,032,648**  
[13] C

[51] **Int.Cl. C23C 22/00 (2006.01) C23C 22/07 (2006.01) H01F 1/147 (2006.01)**

[25] EN

[54] **GRAIN-ORIENTED MAGNETIC STEEL SHEETS HAVING CHROMIUM-FREE INSULATING TENSION COATING, AND METHODS FOR PRODUCING SUCH STEEL SHEETS**

[54] **TOLE D'ACIER ELECTRIQUE A GRAINS ORIENTES AVEC REVETEMENT D'ISOLATION/TENSION SANS CHROME, ET SON PROCEDE DE PRODUCTION**

[72] YOSHIZAKI, SOUICHIRO, JP

[72] WATANABE, MAKOTO, JP

[72] SUEHIRO, RYUICHI, JP

[73] JFE STEEL CORPORATION, JP

[85] 2019-01-31

[86] 2017-09-08 (PCT/JP2017/032406)

[87] (WO2018/051902)

[30] JP (2016-178258) 2016-09-13

[11] **3,032,763**  
[13] C

[51] **Int.Cl. A61B 17/128 (2006.01) A61B 17/122 (2006.01)**

[25] EN

[54] **MULTIPLE OPENING/CLOSING OF RELOADABLE CLIP**

[54] **OUVERTURE/FERMETURE MULTIPLES D'UN CLIP RECHARGEABLE**

[72] LEHTINEN, LAURIE A., US

[72] RYAN, SHAWN, US

[72] RANDHAWA, NISHANT, IN

[72] CONGDON, DANIEL, US

[73] BOSTON SCIENTIFIC LIMITED, BM

[85] 2019-01-31

[86] 2017-09-19 (PCT/US2017/052273)

[87] (WO2018/057515)

[30] US (62/398,278) 2016-09-22

[11] **3,034,303**  
[13] C

[51] **Int.Cl. A01J 5/08 (2006.01)**

[25] EN

[54] **TEAT CUP SLEEVE AND MODULAR TEAT CUP SLEEVE SYSTEM**

[54] **GOBELET TRAYEUR ET SYSTEME DE GOBELET TRAYEUR**

[72] MAIER, JAKOB, DE

[72] HATZACK, WILFRIED, DE

[73] MAIER, JAKOB, DE

[73] HATZACK, WILFRIED, DE

[85] 2019-02-19

[86] 2017-07-20 (PCT/EP2017/068325)

[87] (WO2018/033338)

[30] DE (10 2016 215 633.0) 2016-08-19

[11] **3,034,306**  
[13] C

[51] **Int.Cl. A01J 5/04 (2006.01)**

[25] EN

[54] **DEVICE FOR JOINING MILK FLOWS AND METHOD FOR USING SAID DEVICE**

[54] **DISPOSITIF POUR FAIRE CONVERGER DES FLUX DE LAIT ET PROCEDE D'UTILISATION DU DISPOSITIF**

[72] MAIER, JAKOB, DE

[72] HATZACK, WILFRIED, DE

[73] MAIER, JAKOB, DE

[73] HATZACK, WILFRIED, DE

[85] 2019-02-19

[86] 2017-07-20 (PCT/EP2017/068326)

[87] (WO2018/033339)

[30] DE (10 2016 215 634.9) 2016-08-19

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[11] **3,034,592**  
[13] C

[51] **Int.Cl. F24F 12/00 (2006.01) F24F 11/30 (2018.01) B01D 53/26 (2006.01) F24F 13/30 (2006.01) F28C 3/06 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM AND METHOD FOR A LIQUID DESICCANT AIR DELIVERY SYSTEM**

[54] **SYSTEME ET PROCEDE DE COMMANDE POUR UN SYSTEME DE DISTRIBUTION D'AIR A DESHYDRATANT LIQUIDE**

[72] COUTU, KENNETH PAUL, CA  
[72] FORMAN, CAM, CA  
[72] LEPOUDRE, PHILIP PAUL, CA  
[72] ERB, BLAKE NORMAN, CA  
[72] HEMINGSON, HOWARD BRIAN, CA  
[72] GERBER, MANFRED, CA  
[73] NORTEK AIR SOLUTIONS CANADA, INC., CA

[86] (3034592)  
[87] (3034592)  
[22] 2014-02-05  
[62] 2,901,483  
[30] US (61/793,826) 2013-03-15  
[30] US (14/171,951) 2014-02-04

[11] **3,034,618**  
[13] C

[51] **Int.Cl. A62D 3/02 (2007.01) B01J 20/02 (2006.01) B09C 1/00 (2006.01) B09C 1/10 (2006.01)**

[25] EN

[54] **BIOREMEDIATION COMPOSITION WITH TIME-RELEASE MATERIALS FOR REMOVING ENERGETIC COMPOUNDS FROM CONTAMINATED ENVIRONMENTS**

[54] **COMPOSITION DE BIO-REMEDIATION A MATIERES A LIBERATION PROLONGEE DESTINEE A ELIMINER DES COMPOSES ENERGETIQUES D'ENVIRONNEMENTS CONTAMINES**

[72] NOLAND, SCOTT, US  
[73] REMEDIATION PRODUCTS, INC., US

[85] 2019-02-21  
[86] 2017-08-16 (PCT/US2017/047045)  
[87] (WO2018/038982)  
[30] US (62/377,918) 2016-08-22

[11] **3,036,499**  
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) G01V 1/40 (2006.01) G01V 1/52 (2006.01)**

[25] EN

[54] **PREDICTING DAMAGE TO WELLBORE TUBULARS DUE TO MULTIPLE PULSE GENERATING DEVICES**

[54] **PREDICTION DE DOMMAGES CAUSES A DES ELEMENTS TUBULAIRES DE Puits DE FORAGE EN RAISON DE MULTIPLES DISPOSITIFS DE GENERATION D'IMPULSIONS**

[72] SAMUEL, ROBELLO, US  
[72] ZHANG, YUAN, US  
[73] LANDMARK GRAPHICS CORPORATION, US

[85] 2019-03-11  
[86] 2016-11-15 (PCT/US2016/061948)  
[87] (WO2018/093345)

[11] **3,037,344**  
[13] C

[51] **Int.Cl. F25J 3/02 (2006.01) C01B 3/50 (2006.01) C01C 1/04 (2006.01) F25J 1/00 (2006.01) F25J 1/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CRYOGENIC PURIFICATION OF A FEED STREAM COMPRISING HYDROGEN, METHANE, NITROGEN AND ARGON**

[54] **SYSTEME ET PROCEDE DE PURIFICATION CRYOGENIQUE D'UN FLUX D'ALIMENTATION COMPRENANT DE L'HYDROGENE, DU METHANE, DE L'AZOTE ET DE L'ARGON**

[72] HOWARD, HENRY E., US  
[73] PRAXAIR TECHNOLOGY, INC., US

[85] 2019-03-18  
[86] 2017-09-07 (PCT/US2017/050374)  
[87] (WO2018/057298)  
[30] US (15/271,533) 2016-09-21

[11] **3,038,452**  
[13] C

[51] **Int.Cl. B65B 31/00 (2006.01) B65B 31/10 (2006.01) B65B 55/02 (2006.01)**

[25] EN

[54] **A PROPELLANT FILLING APPARATUS**

[54] **APPAREIL DE REMPLISSAGE DE PROPULSEUR**

[72] DOWDLE, PAUL ALAN, GB  
[72] CORR, STUART, GB  
[72] WATKINSON, PAUL, GB  
[73] MEXICHEM FLUOR S.A. DE C.V., MX

[85] 2019-03-26  
[86] 2017-09-18 (PCT/GB2017/052755)  
[87] (WO2018/060677)  
[30] GB (1616581.3) 2016-09-29

[11] **3,038,985**  
[13] C

[51] **Int.Cl. E21B 43/25 (2006.01) C09K 8/62 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **STORING AND DE-LIQUEFYING LIQUEFIED NATURAL GAS (LNG) AT A WELLSITE**

[54] **STOCKAGE ET DELIQUEFACTION DE GAZ NATUREL LIQUEFIE (GNL) AU NIVEAU D'UN SITE DE FORAGE**

[72] DUSTERHOFT, RONALD G., US  
[72] STEGENT, NEIL A., US  
[72] REYES, ENRIQUE A., US  
[72] WALSER, DOUG W., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2019-03-29  
[86] 2016-11-11 (PCT/US2016/061686)  
[87] (WO2018/089019)

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[11] **3,039,862**  
[13] C

[51] **Int.Cl. B66F 9/075 (2006.01) B60K 1/04 (2019.01)**  
[25] EN  
[54] **COUNTERBALANCE FORKLIFT WITH COVER FOR ELECTRONIC COMPARTMENT**  
[54] **CHARIOT ELEVATEUR A FOURCHE A CONTREPOIDS AVEC COUVERTURE POUR LE COMPARTIMENT ELECTRONIQUE**  
[72] YOSHIOKA, MASAHIRO, JP  
[72] TORIKAWA, MAKOTO, JP  
[73] MITSUBISHI LOGISNEXT CO., LTD., JP  
[86] (3039862)  
[87] (3039862)  
[22] 2019-04-10  
[30] JP (2018-075174) 2018-04-10

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[11] **3,040,046**  
[13] C

[51] **Int.Cl. A63G 25/00 (2006.01) A63G 33/00 (2006.01) E01C 1/00 (2006.01)**  
[25] EN  
[54] **RACE CAR TRACK FOR ALLOWING NON-POWERED DRIVING USING GRAVITY**  
[54] **PISTE DE VOITURES DE COURSE DESTINEE A PERMETTRE UN DEPLACEMENT NON MOTORISE A L'AIDE DE LA GRAVITE**  
[72] KIM, NA YOUNG, KR  
[72] KIM, JONG SEOK, KR  
[72] JUNG, JAE WOONG, KR  
[73] MONOLITH INC., KR  
[85] 2019-04-10  
[86] 2017-09-22 (PCT/KR2017/010463)  
[87] (WO2018/070688)  
[30] KR (10-2016-0131193) 2016-10-11

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[11] **3,040,113**  
[13] C

[51] **Int.Cl. A63B 21/078 (2006.01) A63B 21/06 (2006.01) A63B 21/062 (2006.01) A63B 21/072 (2006.01) A63B 21/075 (2006.01)**  
[25] EN  
[54] **TUBE RACK-OUTS FOR USE WITH EXERCISE MACHINE**  
[54] **REPOSE-BARRES TUBULAIRES DESTINES A ETRE UTILISES AVEC UNE MACHINE D'EXERCICE**  
[72] MEREDITH, JEFFREY, US  
[72] HOCKRIDGE, BRUCE, US  
[73] HOIST FITNESS SYSTEMS, INC., US  
[85] 2019-04-10  
[86] 2017-10-09 (PCT/US2017/055735)  
[87] (WO2018/071326)  
[30] US (62/407,623) 2016-10-13

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[11] **3,040,433**  
[13] C

[51] **Int.Cl. A61G 13/00 (2006.01) F21V 1/00 (2006.01) G01B 9/08 (2006.01) G01S 3/786 (2006.01) G09G 3/32 (2016.01)**  
[25] EN  
[54] **ADAPTIVE SHADOW CONTROL SYSTEM FOR A SURGICAL LIGHTING SYSTEM**  
[54] **SYSTEME DE COMMANDE D'OMBRE ADAPTATIVE POUR UN SYSTEME D'ECLAIRAGE CHIRURGICAL**  
[72] HOLLOPETER, MICHAEL, GB  
[72] JESURUN, DAVID, US  
[73] AMERICAN STERILIZER COMPANY, US  
[85] 2019-04-12  
[86] 2017-07-26 (PCT/US2017/043880)  
[87] (WO2018/084905)  
[30] US (62/415,595) 2016-11-01  
[30] US (15/642,379) 2017-07-06

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[11] **3,043,357**  
[13] C

[51] **Int.Cl. H02G 3/30 (2006.01)**  
[25] EN  
[54] **CONVEYING DEVICE AND METHOD FOR MOUNTING A CABLE CONDUIT ON A CONVEYING DEVICE**  
[54] **DISPOSITIF DE TRANSPORT ET PROCEDE POUR MONTER UN CANIVEAU A CABLES SUR UN DISPOSITIF DE TRANSPORT**  
[72] BINDER, ARTHUR, DE  
[72] MEIER, MATTHIAS, DE  
[72] MUEHLSTEIN, PETER, DE  
[72] SENN, KONRAD, DE  
[72] LEHNER, JOHANN, DE  
[72] WEILHAMMER, DANIEL, DE  
[73] KRONES AG, DE  
[85] 2019-05-09  
[86] 2017-10-02 (PCT/EP2017/075019)  
[87] (WO2018/130317)  
[30] DE (10 2017 100 566.8) 2017-01-12

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[11] **3,043,821**  
[13] C

[51] **Int.Cl. C09K 17/06 (2006.01) B01D 21/01 (2006.01)**  
[25] EN  
[54] **REMEDIATION AND STABILIZATION OF THIXOTROPIC AND/OR COLLOIDAL MINES TAILINGS USING PULVERIZED ANHYDRITE (NATURALLY OCCURRING ANHYDROUS CALCIUM SULPHATE (CASO4))**  
[54] **ASSAINISSEMENT ET STABILISATION DE RESIDUS D'EXTRACTION MINIERE THIXOTROPES ET/OU COLLOIDALES A L'AIDE D'ANHYDRITE PULVERISEE [SULFATE DE CALCIUM ANHYDRE D'ORIGINE NATURELLE (CASO4)]**  
[72] MANN, ADRIAN G., CA  
[73] MANN, ADRIAN G., CA  
[86] (3043821)  
[87] (3043821)  
[22] 2019-05-21

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[11] **3,045,639**  
[13] C

[51] **Int.Cl. G21C 7/06 (2006.01) G21C 7/08 (2006.01) G21C 7/22 (2006.01) G21C 15/18 (2006.01) G21C 17/108 (2006.01)**

[25] EN

[54] **REACTOR SHUTDOWN TRIP ALGORITHM**

[54] **ALGORITHME DE DECLENCHEMENT D'ARRET DE REACTEUR**

[72] BORAIRI, MAJID, CA

[73] ATOMIC ENERGY OF CANADA LIMITED, CA

[86] (3045639)

[87] (3045639)

[22] 2011-09-15

[62] 2,811,485

[30] US (61/384,130) 2010-09-17

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[11] **3,046,506**  
[13] C

[51] **Int.Cl. B64C 25/16 (2006.01)**

[25] FR

[54] **MANOEUVERING PROCESS FOR COMPARTMENT DOORS OF AN AIRCRAFT LANDER**

[54] **PROCEDE DE MANOEUVRE DE PORTES DE SOUTE D'ATTERISSEUR D'AERONEF**

[72] SENECHAL, YANNICK, FR

[72] PASCAL, VINCENT, FR

[72] BLANPAIN, THIERRY, FR

[72] DOUX, AURELIEN, FR

[73] SAFRAN LANDING SYSTEMS, FR

[86] (3046506)

[87] (3046506)

[22] 2019-06-13

[30] FR (1855410) 2018-06-19

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[11] **3,049,542**  
[13] C

[51] **Int.Cl. F02B 67/06 (2006.01)**

[25] EN

[54] **ACCESSORY BELT DRIVE SYSTEM WITH MULTIPLE RATIOS AND TORQUE REVERSAL**

[54] **SYSTEME D'ENTRAINEMENT DE COURROIE A ACCESSOIRE AVEC RAPPORTS MULTIPLES ET INVERSION DE COUPLE**

[72] SERKH, ALEXANDER, US

[72] LIU, KEMING, US

[72] KLEYMAN, ILYA, US

[73] GATES CORPORATION, US

[85] 2019-07-05

[86] 2018-01-10 (PCT/US2018/013204)

[87] (WO2018/132501)

[30] US (15/403,660) 2017-01-11

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[11] **3,053,902**  
[13] C

[51] **Int.Cl. H04M 1/72403 (2021.01)**

[25] EN

[54] **METHOD FOR PROVIDING A CUSTOMIZED USER INTERFACE FOR GROUP COMMUNICATION AT A COMMUNICATION DEVICE**

[54] **PROCEDE PERMETTANT DE PRODUIRE UNE INTERFACE UTILISATEUR PERSONNALISEE POUR UNE COMMUNICATION DE GROUPE DANS UN DISPOSITIF DE COMMUNICATION**

[72] JOHNSON, ERIC, US

[72] ZHOU, ZHIYI, US

[72] PEREZ, ROBERTO A., US

[72] ARNOLD, SCOTT, CA

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2019-08-16

[86] 2018-02-14 (PCT/US2018/018154)

[87] (WO2018/156400)

[30] US (15/441,538) 2017-02-24

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[11] **3,070,202**  
[13] C

[51] **Int.Cl. F41A 21/36 (2006.01) F41A 21/28 (2006.01) F41A 21/32 (2006.01) F41A 21/38 (2006.01)**

[25] EN

[54] **MUZZLE BRAKE DEVICE**

[54] **DISPOSITIF DE FREIN DE BOUCHE**

[72] MCMILLAN, JAMES ERIC, US

[73] U.S. ARMS LLC, US

[85] 2020-01-16

[86] 2018-07-19 (PCT/US2018/042838)

[87] (WO2019/032261)

[30] US (15/671,797) 2017-08-08

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[11] **3,076,038**  
[13] C

[51] **Int.Cl. G01S 7/539 (2006.01) G06Q 30/02 (2012.01) G06K 9/00 (2006.01) G06K 9/46 (2006.01) G06K 9/52 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND MEDIA FOR DETECTING SPOOFING IN MOBILE AUTHENTICATION**

[54] **PROCEDES, SYSTEMES ET SUPPORTS POUR DETECTER UNE MYSTIFICATION LORS D'UNE AUTHENTICATION MOBILE**

[72] LECUN, YANN, US

[72] PEROLD, ADAM, US

[72] LV, FENGJUN, US

[72] GOYAL, DUSHYANT, US

[72] WANG, YANG, US

[73] ELEMENT INC., US

[85] 2020-03-17

[86] 2018-09-18 (PCT/US2018/051559)

[87] (WO2019/056004)

[30] US (62/560,038) 2017-09-18

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[11] **3,077,613**

[13] C

[51] **Int.Cl. C22B 5/10 (2006.01) C22B 1/14 (2006.01) C22B 9/10 (2006.01) C22B 34/32 (2006.01)**

[25] EN

[54] **METHOD OF DIRECT REDUCTION OF CHROMITE WITH CRYOLITE ADDITIVE**  
[54] **PROCEDE DE REDUCTION DIRECTE DE CHROMITE AVEC UN ADDITIF CRYOLITE**

[72] SOKHANVARAN, SAMIRA, CA

[72] PAKTUNC, DOGAN, CA

[73] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES CANADA, CA

[85] 2020-03-31

[86] 2017-10-20 (PCT/CA2017/051252)

[87] (WO2019/075545)

[11] **3,083,753**

[13] C

[51] **Int.Cl. H04R 3/02 (2006.01) H04R 5/02 (2006.01)**

[25] EN

[54] **SYSTEM AND TOOLS FOR ENHANCED 3D AUDIO AUTHORIZING AND RENDERING**  
[54] **SYSTEME ET OUTILS POUR LA CREATION ET LE RENDU DE SON MULTICANAUX AMELIORE**

[72] TSINGOS, NICOLAS R., US

[72] ROBINSON, CHARLES Q., US

[72] SCHARPF, JURGEN W., US

[73] DOLBY LABORATORIES LICENSING CORPORATION, US

[86] (3083753)

[87] (3083753)

[22] 2012-06-27

[62] 3,025,104

[30] US (61/504005) 2011-07-01

[30] US (61/636102) 2012-04-20

[11] **3,080,618**

[13] C

[51] **Int.Cl. A47C 1/032 (2006.01) A47C 1/124 (2006.01)**

[25] EN

[54] **A SEAT MODULE AND TILT MECHANISM**

[54] **MODULE DE SIEGE ET MECANISME D'INCLINAISON**

[72] JARNES, WEBJORN, NO

[73] EKORNES ASA, NO

[85] 2020-04-20

[86] 2018-10-19 (PCT/NO2018/050250)

[87] (WO2019/078730)

[30] NO (20171689) 2017-10-20

[11] **3,093,067**

[13] C

[51] **Int.Cl. B29C 64/321 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 40/00 (2020.01) B29C 64/118 (2017.01) B29C 64/209 (2017.01) B29C 64/295 (2017.01)**

[25] EN

[54] **MONOFILAMENT VAPORIZATION PROPULSION SYSTEMS**

[54] **SYSTEMES DE PROPULSION PAR VAPORISATION MONO-FILAMENT**

[72] WOODRUFF, CURTIS, US

[72] KING, DARREN, US

[72] BURTON, RODNEY, US

[72] CARROLL, DAVID L., US

[72] HEJMANOWSKI, NEIL JOHN, US

[73] CU AEROSPACE, LLC, US

[85] 2020-08-28

[86] 2019-02-07 (PCT/US2019/017037)

[87] (WO2019/177720)

[30] US (15/922,966) 2018-03-16

[11] **3,082,622**

[13] C

[51] **Int.Cl. A61M 25/09 (2006.01)**

[25] EN

[54] **TRANSSEPTAL GUIDE WIRE PUNCTURE SYSTEM**

[54] **SYSTEME DE PERFORATION DE FIL DE GUIDAGE TRANSSEPTAL**

[72] PEDERSEN, WESLEY ROBERT, US

[72] SORAJJA, PAUL, US

[73] PEDERSEN, WESLEY ROBERT, US

[73] SORAJJA, PAUL, US

[85] 2020-05-13

[86] 2018-12-04 (PCT/US2018/063815)

[87] (WO2019/113043)

[30] US (62/594,756) 2017-12-05

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[13] A1  
[51] **Int.Cl. E04B 1/62 (2006.01) E04C 5/00 (2006.01)**  
[25] EN  
[54] **AN INTERLOCKING JACKET AND METHOD FOR USING THE SAME TO JACKET A CONCRETE STRUCTURE**  
[54] **ENVELOPPE ARTICULEE ET SON PROCEDE D'UTILISATION POUR POSER UNE ENVELOPPE SUR UNE STRUCTURE EN BETON**  
[72] RADKE, GEORGE, CA  
[71] RADKE, GEORGE, CA  
[22] 2019-07-18  
[41] 2021-01-18

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[21] **3,050,157**  
[13] A1  
[51] **Int.Cl. E04G 21/32 (2006.01) E04D 15/00 (2006.01) E04G 23/03 (2006.01)**  
[25] EN  
[54] **ROOFING GUARD FOR CARPENTERS**  
[54] **RAIL PROTECTEUR DE TOIT POUR CHARPENTIER-S-MENUISIERS**  
[72] ALBERT, RINO P., CA  
[72] ALBERT, MATTHEW, CA  
[71] ALBERT, RINO P., CA  
[71] ALBERT, MATTHEW, CA  
[22] 2019-07-19  
[41] 2021-01-19

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[21] **3,050,225**  
[13] A1  
[51] **Int.Cl. G09B 9/00 (2006.01) G09B 19/00 (2006.01)**  
[25] EN  
[54] **METHODS, SYSTEMS AND DEVICES FOR SIMULATOR-BASED TRAINING DEVICES WITH BIOFEEDBACK**  
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS POUR DISPOSITIFS D'ENTRAINEMENT SUR SIMULATEUR AVEC RETROACTION BIOLOGIQUE**  
[72] BOSTOEN, KRISTOF, CA  
[72] SOBOOL, KENNETH DALE, CA  
[72] JACKSON, ALEXANDER CONRAD, CA  
[72] JACKSON, BRYAN ALAN, CA  
[71] HONE VIRTUAL EDUCATION LTD., CA  
[22] 2019-07-19  
[41] 2021-01-19

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[21] **3,050,227**  
[13] A1  
[51] **Int.Cl. G06Q 50/26 (2012.01) G06F 16/903 (2019.01)**  
[25] EN  
[54] **METHOD OF REPORTING INCIDENTS INVOLVING VEHICLES**  
[54] **PROCEDE POUR SIGNALER LES INCIDENTS IMPLIQUANT DES VEHICULES**  
[72] PEDE, GIUSEPPE, CA  
[72] IACOBUCCI, GENNARO, CA  
[71] PEDE, GIUSEPPE, CA  
[71] IACOBUCCI, GENNARO, CA  
[22] 2019-07-19  
[41] 2021-01-19

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[21] **3,050,228**  
[13] A1  
[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/00 (2006.01) A61B 18/14 (2006.01)**  
[25] EN  
[54] **TEMPERATURE-CONTROLLED PULSED RF ABLATION**  
[54] **ABLATION PAR RADIOFREQUENCE PULSEE AVEC TEMPERATURE CONTROLEE**  
[72] ZILBERMAN, ISRAEL, IL  
[72] GOVARI, ASSAF, IL  
[72] ATTIAS, GILI, IL  
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL  
[22] 2019-07-19  
[41] 2021-01-19

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[21] **3,050,235**  
[13] A1  
[51] **Int.Cl. B03C 1/12 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR RECOVERY OF MAGNETITE AND MAGNETITE BEARING ELEMENTS FROM A SLURRY**  
[54] **PROCEDE ET APPAREIL DE RECUPERATION DE MAGNETITE ET D'ELEMENTS EN MAGNETITE A PARTIR DE PULPE**  
[72] MILES, DAVID ROGER, CA  
[72] WATSON, PETER THOMAS, CA  
[71] DRP VENTURES INC., CA  
[22] 2019-07-19  
[41] 2021-01-19



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[21] **3,050,268**  
 [13] A1

[51] **Int.Cl. C01B 33/26 (2006.01) C04B 7/02 (2006.01) C04B 14/10 (2006.01) C04B 28/04 (2006.01) C04B 35/19 (2006.01) C22B 3/06 (2006.01) C22B 26/12 (2006.01)**

[25] FR

[54] **USE OF ALUMINOSILICATES AS CEMENT ADDITIVES**

[54] **UTILISATION D'ALUMINOSILICATES A TITRE D'ADDITIFS CIMENTAIRES**

[72] MAGNAN, JEAN-FRANCOIS, CA

[72] ALLEN, DAVID-NICOLAS, CA

[71] NEMASKA LITHIUM INC., CA

[22] 2019-07-19

[41] 2021-01-19

[21] **3,050,272**  
 [13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A23L 33/105 (2016.01) A61K 31/05 (2006.01)**

[25] EN

[54] **MYPOTROCKS**

[54] **MES ROCHES DE CANNABIS**

[72] AMLIN, RONALD ANDREW, CA

[71] AMLIN, RONALD ANDREW, CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,275**  
 [13] A1

[51] **Int.Cl. E04D 15/06 (2006.01) E04D 5/00 (2006.01) E04D 15/00 (2006.01) E04D 15/07 (2006.01)**

[25] EN

[54] **ROOFING MATERIAL APPLICATOR USING AN ENDLESS BELT TO COLLECT AND LAY A LIQUID ROOFING SUBSTANCE**

[54] **APPLICATEUR DE MATERIAUX DE COUVERTURE UTILISANT UNE COURROIE SANS FIN POUR RECUEILLIR ET POSER UNE SUBSTANCE LIQUIDE DE RECOUVREMENT**

[72] UNKNOWN, XX

[71] ZHANG, XIUMING, CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,303**  
 [13] A1

[51] **Int.Cl. A63F 9/24 (2006.01) A63F 3/00 (2006.01)**

[25] EN

[54] **TABLETOP GAMING SYSTEM, FIGURINE PEDESTAL, GAME PIECES AND RELATED METHODS**

[54] **SYSTEME DE JEUX DE TABLE, SOCLE POUR FIGURINES, PIECES DE JEU ET PROCEDES CONNEXES**

[72] AITKEN, NICHOLAS, CA

[71] AITKEN, NICHOLAS, CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,312**  
 [13] A1

[51] **Int.Cl. A63B 69/36 (2006.01)**

[25] EN

[54] **ALL-WEATHER PUTT LINE TRACER; A GREEN-READING AID**

[54] **TRACEUR DE LIGNE DE COUP ROULE TOUT TEMPS; DISPOSITIF DE LECTURE DES VERTS**

[71] DUBOIS, DAVID D., CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,314**  
 [13] A1

[51] **Int.Cl. E02D 35/00 (2006.01) B66F 3/35 (2006.01) E04G 23/06 (2006.01)**

[25] EN

[54] **METHOD FOR LIFTING A BUILDING FOUNDATION**

[54] **PROCEDE DE LEVAGE D'UNE FONDATION DE BATIMENT**

[72] ANDERSON, BUD, CA

[72] ANDERSON, JON, CA

[71] ECO CONCRETE LEVELLING LTD., CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,377**  
 [13] A1

[51] **Int.Cl. B28D 1/02 (2006.01) B28D 7/02 (2006.01) B28D 7/04 (2006.01)**

[25] EN

[54] **SAWCUT MACHINE FOR SIDEWALKS**

[54] **MACHINE POUR TRAITS DE SCIE SUR LES TROTTOIRS**

[72] PICCOLI, MARIO, CA

[71] N. PICCOLI CONSTRUCTION LTD., CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,388**  
 [13] A1

[51] **Int.Cl. E01F 9/692 (2016.01) E01F 9/688 (2016.01) F21V 21/08 (2006.01) F21L 4/00 (2006.01)**

[25] EN

[54] **A FLARE STAND**

[54] **SUPPORT POUR TORCHE**

[72] JOYCE, MICHAEL, CA

[71] SBI SMART BRANDS INTERNATIONAL [AMERICA] LTD., CA

[22] 2019-07-22

[41] 2021-01-22

[21] **3,050,389**  
 [13] A1

[51] **Int.Cl. G06F 1/16 (2006.01) G06F 1/20 (2006.01) G06F 1/26 (2006.01)**

[25] EN

[54] **TRANSPORTABLE DATACENTER**

[54] **CENTRE INFORMATIQUE TRANSPORTABLE**

[72] JOHNSON, SCOT ARTHUR, CA

[71] JOHNSON, SCOT ARTHUR, CA

[22] 2019-07-22

[41] 2021-01-22

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[21] **3,050,435**  
[13] A1

- [51] **Int.Cl. A47J 19/02 (2006.01) A23L 2/04 (2006.01) A23N 1/00 (2006.01)**  
[25] EN  
[54] **METHOD TO INCREASE EXTRACTION CAPACITY, POWER, AND EFFICIENCY IN A JUICE EXTRACTION MACHINE**  
[54] **PROCEDE POUR AUGMENTER LA CAPACITE D'EXTRACTION, LA PUISSANCE ET L'EFFICACITE DANS UNE MACHINE D'EXTRACTION DE JUS**  
[72] DANNER, DAVID, US  
[72] COLES, BRANDON, US  
[72] MAS, MICHAEL, US  
[72] HEBBLER, PHILIP G., US  
[71] JOHN BEAN TECHNOLOGIES CORPORATION, US  
[22] 2019-07-22  
[41] 2021-01-22

[21] **3,050,439**  
[13] A1

- [51] **Int.Cl. A61K 31/7068 (2006.01) A61K 31/14 (2006.01) A61K 31/194 (2006.01) A61K 31/685 (2006.01) A61P 25/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR COUNTERACTING THE EFFECTS OF CANNABIS**  
[54] **COMPOSITION POUR CONTRER LES EFFETS DU CANNABIS**  
[72] KHELA, SUKHSIMRAN SINGH, CA  
[72] SIDHU, APWINDER, CA  
[72] PAUL, MATHEW, CA  
[72] CHAHAL, JASDEEP SINGH, CA  
[71] KHELA, SUKHSIMRAN, CA  
[22] 2019-07-23  
[41] 2021-01-23

[21] **3,050,606**  
[13] A1

- [51] **Int.Cl. E01H 5/00 (2006.01)**  
[25] EN  
[54] **SNOW GLIDER**  
[54] **LUGE**  
[72] LAING, DONALD G., CA  
[71] LAING, DONALD G., CA  
[22] 2019-07-23  
[41] 2021-01-23

[21] **3,051,892**  
[13] A1

- [51] **Int.Cl. G01N 21/25 (2006.01) G16C 20/70 (2019.01)**  
[25] EN  
[54] **REMOTE-SENSING-BASED DETECTION OF SOYBEAN APHID INDUCED STRESS IN SOYBEAN**  
[54] **TELEDETECTION DE STRESS INDUIT PAR DES PUCERONS DE SOJA DANS LE SOJA**  
[72] KOCH, ROBERT L., US  
[72] MACRAE, IAN V., US  
[72] MARSTON, ZACHARY PETER DRAGAN, US  
[72] MULLA, DAVID, US  
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US  
[22] 2019-08-13  
[41] 2021-01-23  
[30] US (16/519,233) 2019-07-23

[21] **3,052,922**  
[13] A1

- [51] **Int.Cl. A61B 5/00 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**  
[25] EN  
[54] **NEUROLOGICAL PROBE WITH CLOSED-LOOP CONTROLLED SENSORS ON OPPOSITE PROBE SURFACES**  
[54] **SONDE NEUROLOGIQUE AVEC CAPTEURS DE COMMANDE EN BOUCLE FERMEE SUR DES SURFACES OPPOSEES DE LA SONDE**  
[72] MANKOWSKI, PETER, US  
[72] GABRAN, SALAM, US  
[72] MEDAKOVIC KIDD, LARA, US  
[71] NOVELA NEUROTECHNOLOGIES INC., US  
[22] 2019-08-22  
[41] 2021-01-17  
[30] US (62/875,447) 2019-07-17

[21] **3,053,598**  
[13] A1

- [51] **Int.Cl. G07F 17/32 (2006.01)**  
[25] EN  
[54] **ELECTRONIC GAMING HAVING GAME STATE LOCK AND RESULT PREVIEW**  
[54] **JEU ELECTRONIQUE MUNI D'UN VERROU DE SEQUENCE DE JEU ET D'UN APERCU DES RESULTATS**  
[72] CALAPP, BRETT DAVID, US  
[72] GRIFFITHS, WILLIAM EDWARD, US  
[72] THOMPSON, KASEY SHANNON, US  
[71] GG SOFTWARE AS, NO  
[22] 2019-08-29  
[41] 2021-01-22  
[30] US (16/518,604) 2019-07-22

[21] **3,053,894**  
[13] A1

- [51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 50/04 (2012.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01)**  
[25] EN  
[54] **DEFECT PREDICTION USING HISTORICAL INSPECTION DATA**  
[54] **PREDICTION DE DEFAUTS A L'AIDE DE DONNEES HISTORIQUES D'INSPECTION**  
[72] CAO, HAN KY, VN  
[72] NGUYEN, BINH THANH, VN  
[72] PHAM, KHANH NAM, VN  
[71] INSPECTORIO INC., US  
[22] 2019-09-03  
[41] 2021-01-19  
[30] US (62/876,239) 2019-07-19

[21] **3,054,418**  
[13] A1

- [51] **Int.Cl. A61K 6/30 (2020.01) A61K 6/35 (2020.01)**  
[25] EN  
[54] **ADHESIVE FOR DENTAL PROSTHESES**  
[54] **ADHESIF POUR PROTHESES DENTAIRES**  
[72] WIEJAK, MAGDALENA, PL  
[72] TOMASZEWSKA, HANNA, PL  
[72] OLSZEWSKI, MATEUSZ, PL  
[72] FRYDRYSZAK, MACIEJ, PL  
[71] CINTAMANI POLAND MAJEWSKY I KOC SPOLKA JAWNA, PL  
[22] 2019-09-05  
[41] 2021-01-18  
[30] PL (P.430654) 2019-07-18

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[21] **3,063,215**  
[13] A1

[51] **Int.Cl. H04S 3/00 (2006.01) B64D 11/00 (2006.01) H04R 3/12 (2006.01) H04R 5/02 (2006.01) H04R 5/04 (2006.01)**

[25] EN

[54] **ACTIVE FOCUSED FIELD SOUND SYSTEM**

[54] **SYSTEME SONORE A CHAMP FOCALISE ACTIF**

[72] FROST, IAN L., US

[72] DRUCKMAN, DAVID J., US

[71] B/E AEROSPACE, INC., US

[22] 2019-11-29

[41] 2021-01-17

[30] US (16/514,102) 2019-07-17

[21] **3,064,234**  
[13] A1

[51] **Int.Cl. B60S 1/08 (2006.01) B64C 1/14 (2006.01) B64D 47/00 (2006.01)**

[25] EN

[54] **DYNAMIC WIPER CONTROL**

[54] **COMMANDE D'ESSUIE-GLACE DYNAMIQUE**

[72] DEVARAKONDA, NAVEEN KUMAR, IN

[72] BOJJANAPALLI, MURALIDHAR RAO, IN

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-12-06

[41] 2021-01-18

[30] IN (201911029001) 2019-07-18

[21] **3,064,937**  
[13] A1

[51] **Int.Cl. G01P 5/165 (2006.01) B64D 15/12 (2006.01) H05B 3/20 (2006.01)**

[25] EN

[54] **THIN FILM HEATING OF AIR DATA PROBES**

[54] **CHAUFFAGE A FILM MINCE DE SONDES DE DONNEES AERODYNAMIQUES**

[72] JACOB, ROBIN, IN

[72] MAHAPATRA, GURU PRASAD, IN

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-12-11

[41] 2021-01-19

[30] IN (201911029232) 2019-07-19

[21] **3,063,270**  
[13] A1

[51] **Int.Cl. B81B 3/00 (2006.01)**

[25] EN

[54] **PIEZOELECTRIC MEMS DEVICE WITH CANTILEVER STRUCTURES**

[54] **DISPOSITIF DE TYPE SYSTEMES MICROELECTROMECHANIQUES PIEZOELECTRIQUE AVEC STRUCTURES EN PORTE-A-FAUX**

[72] DOSEV, DOSI, US

[72] POTASEK, DAVID P., US

[72] CHILDRESS, MARCUS ALLEN, US

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-11-28

[41] 2021-01-22

[30] US (16/517,944) 2019-07-22

[21] **3,064,618**  
[13] A1

[51] **Int.Cl. F16C 33/12 (2006.01) F16C 33/00 (2006.01)**

[25] EN

[54] **RAM-BODY FRETTING CORROSION PROOF SOLUTION**

[54] **SOLUTION RESISTANTE A LA CORROSION PAR FROTTEMENT DE CORPS DE PISTON**

[72] MARTIN-MEYER, JOHANN, FR

[72] LECOMTE, EMMANUEL, FR

[71] GOODRICH ACTUATION SYSTEMS SAS, FR

[22] 2019-12-10

[41] 2021-01-19

[30] EP (19290059.5) 2019-07-19

[21] **3,065,059**  
[13] A1

[51] **Int.Cl. F16D 43/204 (2006.01) B64C 3/50 (2006.01) B64C 13/28 (2006.01) F16D 15/00 (2006.01) F16D 43/20 (2006.01)**

[25] EN

[54] **TORQUE LIMITING DEVICE**

[54] **DISPOSITIF DE LIMITE DE COUPLE**

[72] KRACKE, JEREMY, GB

[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB

[22] 2019-12-12

[41] 2021-01-19

[30] EP (19187435.3) 2019-07-19

[21] **3,064,046**  
[13] A1

[51] **Int.Cl. F15C 3/02 (2006.01) B64C 13/40 (2006.01) F15B 15/20 (2006.01)**

[25] EN

[54] **ACTUATOR CONTROL ARRANGEMENT**

[54] **DISPOSITIF DE COMMANDE D'ACTIONNEUR**

[72] MARTIN-MEYER, JOHANN, FR

[72] MEIGNAT, GREGORY, FR

[72] DE CORTA, NICOLAS, FR

[72] DUMONT, CHRISTIAN, FR

[71] GOODRICH ACTUATION SYSTEMS SAS, FR

[22] 2019-12-05

[41] 2021-01-19

[30] EP (19315074.5) 2019-07-19

[21] **3,064,805**  
[13] A1

[51] **Int.Cl. H04W 12/02 (2009.01) H04W 4/38 (2018.01)**

[25] EN

[54] **WIRELESS BASEBAND SIGNAL TRANSMISSION WITH DYNAMIC CONTROL LOGIC TO IMPROVE SECURITY ROBUSTNESS**

[54] **TRANSMISSION DE SIGNAL DE BANDE DE BASE SANS FIL AVEC LOGIQUE DE COMMANDE DYNAMIQUE POUR AMELIORER LA ROBUSTESSE DE SECURITE**

[72] NATH, PRANAY KANTI, IN

[72] DUSSA, PULLAIAH, IN

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-12-11

[41] 2021-01-19

[30] IN (201911029234) 2019-07-19

[21] **3,065,066**  
[13] A1

[51] **Int.Cl. B64F 5/60 (2017.01) B64D 15/12 (2006.01)**

[25] EN

[54] **ACTIVE AIRCRAFT PROBE HEAT MONITOR AND METHOD OF USE**

[54] **DISPOSITIF DE SURVEILLANCE DU RECHAUFFAGE DES SONDES D'UN AERONEF ACTIF ET SON PROCEDE D'UTILISATION**

[72] LOPRESTO, VINCENT R., US

[72] HEUER, WESTON D. C., US

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-12-12

[41] 2021-01-19

[30] US (16/517,237) 2019-07-19

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[21] **3,070,971**  
[13] A1

[51] **Int.Cl. H05K 7/10 (2006.01) H05K 7/20 (2006.01)**  
[25] EN  
[54] **SMALL FORM-FACTOR PLUGGABLE MODULE**  
[54] **EMETTEUR-RECEPTEUR ENFICHABLE A FAIBLE ENCOMBREMENT**  
[72] YU, TE-SHU, CN  
[71] OPTOWAY TECHNOLOGY INC., CN  
[22] 2020-02-04  
[41] 2021-01-18  
[30] US (62/875,951) 2019-07-18  
[30] TW (108137089) 2019-10-15

[21] **3,076,049**  
[13] A1

[51] **Int.Cl. B25B 23/00 (2006.01)**  
[25] EN  
[54] **TOOL EXTENSION**  
[54] **RALLONGE POUR OUTIL**  
[72] GAINES, PRESTON T., US  
[72] ANDERSON, JONATHAN I., US  
[71] SNAP-ON INCORPORATED, US  
[22] 2020-03-17  
[41] 2021-01-17  
[30] US (16/514,252) 2019-07-17

[21] **3,076,120**  
[13] A1

[51] **Int.Cl. B25B 13/46 (2006.01)**  
[25] EN  
[54] **INTERNAL GEAR RETENTION MECHANISM**  
[54] **MECANISME DE RETENTION A ENGRENAGES INTERIEURS**  
[72] ROSS, DAVID T., US  
[71] SNAP-ON INCORPORATED, US  
[22] 2020-03-18  
[41] 2021-01-23  
[30] US (16/519,926) 2019-07-23

[21] **3,077,779**  
[13] A1

[51] **Int.Cl. F01D 5/30 (2006.01) C04B 35/80 (2006.01) C04B 35/84 (2006.01) F01D 5/02 (2006.01) F01D 5/28 (2006.01) F01D 7/00 (2006.01)**  
[25] EN  
[54] **TURBINE ROTOR AND METHOD ROTOR DE TURBINE ET PROCESSUS**  
[72] LEBEL, LARRY, CA  
[72] HOLOWCZAK, JOHN E., US  
[72] LAZUR, ANDREW J., US  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-04-01  
[41] 2021-01-22  
[30] US (62/876,977) 2019-07-22

[21] **3,078,890**  
[13] A1

[51] **Int.Cl. B29C 70/40 (2006.01) B64F 5/10 (2017.01) B64C 1/12 (2006.01) B64C 3/26 (2006.01) F16B 5/00 (2006.01) F16B 11/00 (2006.01) F16S 1/10 (2006.01)**  
[25] EN  
[54] **A METHOD OF FORMING A REINFORCED PANEL COMPONENT AND A RELATED APPARATUS**  
[54] **METHODE PERMETTANT DE FORMER UNE PIECE DE PANNEAU RENFORCEE ET APPAREIL CORRESPONDANT**  
[72] FERRIELL, DANIEL RICHARD, US  
[72] LUCHINI, TIMOTHY J., US  
[72] BELCHER, MARCUS ANTHONY, US  
[71] THE BOEING COMPANY, US  
[22] 2020-04-17  
[41] 2021-01-19  
[30] US (16/517,264) 2019-07-19

[21] **3,079,159**  
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) G01S 1/04 (2006.01)**  
[25] EN  
[54] **ENHANCED LORAN SYSTEM GENERATING CORRECTION FACTORS BASED UPON SATELLITE-DERIVED DATA AND RELATED METHODS**  
[54] **SYSTEME LORAN AMELIORE GENERANT DES FACTEURS DE CORRECTION EN FONCTION DES DONNEES PROVENANT DE SATELLITES ET PROCEDES CONNEXES**  
[72] CRANDALL, DANIEL W., XX  
[71] EAGLE TECHNOLOGY, LLC, US  
[22] 2020-04-22  
[41] 2021-01-17  
[30] US (16/514,926) 2019-07-17

[21] **3,079,594**  
[13] A1

[51] **Int.Cl. B64C 1/06 (2006.01) B64C 1/20 (2006.01)**  
[25] EN  
[54] **MODULAR FUSELAGE ASSEMBLIES FOR AIRCRAFT, AIRCRAFT INCLUDING MODULAR FUSELAGE ASSEMBLIES, AND METHODS OF ASSEMBLING MODULAR FUSELAGE ASSEMBLIES**  
[54] **ENSEMBLES DE FUSELAGE MODULAIRES POUR AERONEF, AERONEF COMPRENANT DES ENSEMBLES DE FUSELAGE MODULAIRES, ET PROCEDES D'ASSEMBLAGE D'ENSEMBLES DE FUSELAGE MODULAIRES**  
[72] GRIP, ROBERT ERIK, US  
[72] GIESING, JOSEPH PAUL, US  
[71] THE BOEING COMPANY, US  
[22] 2020-04-24  
[41] 2021-01-19  
[30] US (16/517,420) 2019-07-19

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[21] **3,080,510**  
 [13] A1

[51] **Int.Cl. G01S 17/86 (2020.01) G01S 13/86 (2006.01) E21D 17/00 (2006.01) G01S 5/16 (2006.01) G01S 17/06 (2006.01) G06K 9/18 (2006.01)**

[25] EN  
 [54] **MACHINE GUIDANCE INTEGRATION**  
 [54] **INTEGRATION DE GUIDAGE DES MACHINES**

[72] DUNN, MARK, AU  
 [72] REID, PETER, AU  
 [72] THOMPSON, JEREMY, AU  
 [72] PEACOCK, CAMRIN, AU  
 [72] SARIC, KEVIN, AU  
 [71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU

[22] 2020-05-07  
 [41] 2021-01-18  
 [30] AU (2019902545) 2019-07-18

[21] **3,080,646**  
 [13] A1

[51] **Int.Cl. H01R 13/633 (2006.01) H01R 24/00 (2011.01)**

[25] EN  
 [54] **PLUGGABLE CONNECTOR**  
 [54] **CONNECTEUR ENFICHABLE**

[72] YU, TE-SHU, TW  
 [71] OPTOWAY TECHNOLOGY INC., CN

[22] 2020-05-11  
 [41] 2021-01-18  
 [30] US (62/875,951) 2019-07-18  
 [30] TW (108138797) 2019-10-28

[21] **3,081,012**  
 [13] A1

[51] **Int.Cl. F04B 53/16 (2006.01) F04B 15/04 (2006.01) F04B 53/02 (2006.01) C22C 29/02 (2006.01)**

[25] EN  
 [54] **WEAR RESISTANT FLUID ENDS**  
 [54] **BOUTS FLUIDIQUES RESISTANTS A L'USURE**

[72] KELLY, MIKE, US  
 [72] SINGLEY, JOSHUA, US  
 [71] KENNAMETAL INC., US

[22] 2020-05-13  
 [41] 2021-01-18  
 [30] US (16/516003) 2019-07-18

[21] **3,081,214**  
 [13] A1

[51] **Int.Cl. F28F 25/02 (2006.01) F28C 1/00 (2006.01)**

[25] EN  
 [54] **COOLING TOWER WITH BASIN SHIELD**  
 [54] **TOUR DE REFROIDISSEMENT AVEC BOUCLIER POUR BASSIN**

[72] MORTENSEN, KENNETH P., US  
 [72] EVANS, JOSEPH B., US  
 [72] NEGLESS, ROBERT A., US  
 [71] SPX COOLING TECHNOLOGIES, INC., US

[22] 2020-05-25  
 [41] 2021-01-18  
 [30] US (62/875,717) 2019-07-18  
 [30] US (16/776,760) 2020-01-30

[21] **3,081,217**  
 [13] A1

[51] **Int.Cl. H02K 16/00 (2006.01) H02K 7/116 (2006.01)**

[25] EN  
 [54] **MULTI-ROTOR ELECTRICAL MACHINE WITH RADIAL CONFIGURATION**  
 [54] **MACHINE ELECTRIQUE A ROTORS MULTIPLES A CONFIGURATION EN ETOILE**

[72] LATULIPE, ERIC, CA  
 [71] PRATT & WHITNEY CANADA CORP., CA

[22] 2020-05-21  
 [41] 2021-01-19  
 [30] US (16/516,501) 2019-07-19

[21] **3,082,216**  
 [13] A1

[51] **Int.Cl. E04C 1/00 (2006.01) E02D 29/02 (2006.01) E04B 2/02 (2006.01)**

[25] EN  
 [54] **PRECISION DRY-STACK MASONRY UNIT**  
 [54] **UNITE DE MACONNERIE EN PIERRE SECHE DE PRECISION**

[72] DAYSH, PAUL, US  
 [71] DAYSH DEVELOPMENTS, INC., US

[22] 2020-06-03  
 [41] 2021-01-18  
 [30] US (16/516,159) 2019-07-18

[21] **3,083,882**  
 [13] A1

[51] **Int.Cl. E04C 3/292 (2006.01) E04C 3/12 (2006.01) E04C 3/29 (2006.01) E04C 5/06 (2006.01) E04C 5/07 (2006.01) E04G 21/12 (2006.01)**

[25] EN  
 [54] **GLUED-ROD INSERT (GRI) FOR USE IN MASS TIMBER CONSTRUCTION**  
 [54] **RAPIECAGE A TIGE COLLEE POUR LES CONSTRUCTIONS EN BOIS MASSIF**

[72] GERBER, ADAM REYNOLD, CA  
 [72] BERGEN, NATHAN SAMUEL, CA  
 [71] F3 TIMBER TECHNOLOGIES INC., CA

[22] 2020-06-17  
 [41] 2021-01-23  
 [30] US (62/877,422) 2019-07-23

[21] **3,084,399**  
 [13] A1

[51] **Int.Cl. B65C 3/02 (2006.01) B64F 5/10 (2017.01) H01B 7/36 (2006.01) H01B 13/34 (2006.01) G09F 3/04 (2006.01)**

[25] EN  
 [54] **DEVICE FOR APPLYING MARKING TUBES ONTO A CABLE**  
 [54] **DISPOSITIF POUR APPLIQUER DES TUBES DE MARQUAGE SUR UN CABLE**

[72] DUPONT, MAXIME, FR  
 [72] HUTZLI, STEFAN, CH  
 [72] ROUGIER, STEPHANE, FR  
 [71] KOMAX HOLDING AG, CH

[22] 2020-06-19  
 [41] 2021-01-19  
 [30] EP (19 305 960.7) 2019-07-19

[21] **3,084,588**  
 [13] A1

[51] **Int.Cl. A01G 23/08 (2006.01) A01G 23/087 (2006.01)**

[25] EN  
 [54] **A TIMBER WORKING DEVICE AND A METHOD FOR A TIMBER WORKING DEVICE**  
 [54] **APPAREIL DE TRAVAIL DE BOIS D'OEUVRE ET METHODE CONNEXE**

[72] ARTO, ALFTHAN, DE  
 [71] DEERE & COMPANY, US

[22] 2020-06-22  
 [41] 2021-01-22  
 [30] EP (19187519.4) 2019-07-22

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[21] **3,084,652**  
[13] A1

[51] **Int.Cl. C08L 71/02 (2006.01) C08J 3/20 (2006.01) C08K 3/16 (2006.01) C08K 3/30 (2006.01) C08K 3/32 (2006.01) C08K 5/5317 (2006.01) C09D 7/43 (2018.01)**

[25] EN

[54] **BIOCIDIC FREE ASSOCIATIVE THICKENER**

[54] **AGENT EPAISSISSANT ASSOCIATIF EXEMPT DE BIOCIDIC**

[72] GRAVES, DEBORAH D., US

[72] LEVIN, JESSICA, US

[72] RABASCO, JOHN J., US

[72] WANG, WENQIN, US

[72] WARD, ADRIAN R., US

[71] ROHM AND HAAS COMPANY, US

[22] 2020-06-23

[41] 2021-01-17

[30] US (62/875157) 2019-07-17

[21] **3,084,881**  
[13] A1

[51] **Int.Cl. C25D 3/06 (2006.01)**

[25] EN

[54] **FUNCTIONAL CHROMIUM ALLOY PLATING FROM TRIVALENT CHROMIUM ELECTROLYTES**

[54] **PLACAGE EN ALLIAGE AU CHROME FONCTIONNEL A PARTIR D'ELECTROLYTES DE CHROME TRIVALENT**

[72] IJERI, VIJAYKUMAR, US

[72] GAYDOS, STEPHEN P., US

[72] MOHAN, SUBRAMANIAN, US

[71] THE BOEING COMPANY, US

[22] 2020-06-24

[41] 2021-01-18

[30] US (16/515,145) 2019-07-18

[21] **3,085,161**  
[13] A1

[51] **Int.Cl. E01D 2/00 (2006.01) B21B 1/095 (2006.01) B21D 53/00 (2006.01) E01D 19/00 (2006.01) E01D 21/00 (2006.01)**

[25] EN

[54] **SHALLOW SINGLE PLATE STEEL TUB GIRDER**

[54] **POUTRE DE BERLINE EN ACIER A PLAQUE UNIQUE PEU PROFONDE**

[72] STANCESCU, DANIEL, CA

[71] SAMUEL, SON & CO., LIMITED, CA

[22] 2020-06-25

[41] 2021-01-18

[30] US (62/875,549) 2019-07-18

[30] US (16/901,045) 2020-06-15

[21] **3,085,203**  
[13] A1

[51] **Int.Cl. E02F 9/00 (2006.01) F16C 11/00 (2006.01)**

[25] EN

[54] **CENTER PINTLE HUB**

[54] **MOYEU CENTRAL DE CHEVILLE**

[72] RAPP, JOE A., US

[72] WU, CHENG-KONG C., US

[72] KORCHAGING, VLADIMIR A., US

[72] KINJARAPU, ARUNA, US

[72] VARGHESE, ROBIN, US

[71] CATERPILLAR GLOBAL MINING LLC, US

[22] 2020-06-30

[41] 2021-01-17

[30] US (16/514807) 2019-07-17

[21] **3,085,263**  
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) H04W 4/40 (2018.01)**

[25] EN

[54] **SERVICE STATION FOR AN INTELLIGENT TRANSPORTATION SYSTEM**

[54] **STATION D'INFORMATION POUR SYSTEME DE TRANSPORT INTELLIGENT**

[72] TIJINK, JASJA, AT

[71] KAPSCH TRAFFICCOM AG, AT

[22] 2020-07-02

[41] 2021-01-17

[30] EP (19186790.2) 2019-07-17

[21] **3,085,265**  
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) H04W 4/40 (2018.01) G08G 1/09 (2006.01) G08G 1/16 (2006.01)**

[25] EN

[54] **SERVICE STATION FOR AN INTELLIGENT TRANSPORTATION SYSTEM**

[54] **STATION D'INFORMATION POUR SYSTEME DE TRANSPORT INTELLIGENT**

[72] TIJINK, JASJA, AT

[71] KAPSCH TRAFFICCOM AG, AT

[22] 2020-07-02

[41] 2021-01-17

[30] EP (19186792.8) 2019-07-17

[21] **3,085,816**  
[13] A1

[51] **Int.Cl. A01B 1/16 (2006.01) A01M 21/00 (2006.01)**

[25] EN

[54] **WEED REMOVER**

[54] **SARCLOIR**

[72] LAFLEUR, ANDRE, CA

[71] ANDRE LAFLEUR RD&D INC., CA

[22] 2020-07-07

[41] 2021-01-17

[30] US (62875200) 2019-07-17

[21] **3,085,918**  
[13] A1

[51] **Int.Cl. A61L 9/04 (2006.01)**

[25] EN

[54] **APPLIANCE AIR FRESHENER**

[54] **APPAREIL ASSAINISSEUR D'AIR**

[72] HANSON, JOSH, US

[72] SUBRAMANIAN, RAMESH, US

[72] HITCHCOCK, ERIC, US

[72] CURTIS, BRENT, US

[72] ZHANG, BELINDA, US

[71] ELECTROLUX HOME PRODUCTS, INC., US

[22] 2020-07-07

[41] 2021-01-17

[30] US (16/514,365) 2019-07-17

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[21] **3,086,029**  
[13] A1

[51] **Int.Cl. F23R 3/28 (2006.01) F02C 7/22 (2006.01) F02C 9/26 (2006.01) F23D 11/36 (2006.01)**  
[25] EN  
[54] **FUEL NOZZLE ASSEMBLY WITH SLOT FOR COOLING**  
[54] **ENSEMBLE INJECTEUR DE CARBURANT DOTE D'UNE FENTE DE REFROIDISSEMENT**  
[72] LAO, SI-MAN AMY, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-07-07  
[41] 2021-01-19  
[30] US (16/516,351) 2019-07-19

[21] **3,086,123**  
[13] A1

[51] **Int.Cl. F16L 1/032 (2006.01) E02F 5/10 (2006.01)**  
[25] EN  
[54] **REMOVABLY MOUNTED PLOW FOR ELONGATED TUBULAR MATERIALS**  
[54] **CHARRUE MONTEE DE MANIERE AMOVIBLE POUR MATERIAUX TUBULAIRES ALLONGES**  
[72] HALL, ROBERT W.H., CA  
[72] PRINCZ, DAVID C., CA  
[72] BERG, WILFRED H.M., CA  
[71] ROBERTS WELDING & FABRICATING LTD., CA  
[22] 2020-07-07  
[41] 2021-01-18  
[30] US (62/875,540) 2019-07-18

[21] **3,086,147**  
[13] A1

[51] **Int.Cl. B60S 9/02 (2006.01)**  
[25] EN  
[54] **TELEHANDLER WITH IMPROVED STABILISERS**  
[54] **TELEMANIPULATEUR A STABILISATEURS AMELIORES**  
[72] IOTTI, MARCO, IT  
[71] MANITOU ITALIA S.R.L., IT  
[22] 2020-07-09  
[41] 2021-01-18  
[30] IT (102019000012297) 2019-07-18

[21] **3,086,271**  
[13] A1

[51] **Int.Cl. E21B 47/11 (2012.01)**  
[25] EN  
[54] **SYSTEM TO DETERMINE EXISTING FLUIDS REMAINING SATURATION IN HOMOGENOUS AND/OR NATURALLY FRACTURED RESERVOIRS**  
[54] **SYSTEME SERVANT A DETERMINER LA SATURATION CAUSEE PAR LES FLUIDES RESIDUELS DANS DES RESERVOIRS HOMOGENES ET/OU FRACTURES NATURELLEMENT**  
[72] RAMIREZ SABAG, JETZABETH, MX  
[71] INSTITUTO MEXICANO DEL PETROLEO, MX  
[22] 2020-07-09  
[41] 2021-01-23  
[30] MX (MX/A/2019/008720) 2019-07-23

[21] **3,086,532**  
[13] A1

[51] **Int.Cl. F23R 3/16 (2006.01)**  
[25] EN  
[54] **COMBUSTOR OF GAS TURBINE ENGINE AND METHOD**  
[54] **CHAMBRE DE COMBUSTION POUR TURBINE A GAZ ET METHODE**  
[72] SZE, ROBERT, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-07-10  
[41] 2021-01-19  
[30] US (16/516,697) 2019-07-19

[21] **3,086,569**  
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01) A42B 3/28 (2006.01)**  
[25] EN  
[54] **REMOVABLE CHIN CURTAIN ASSEMBLY SELECTIVELY ATTACHABLE TO A HELMET**  
[54] **PROTEGE-MENTON AMOVIBLE POUVANT ETRE FIXE DE MANIERE SELECTIVE A UN CASQUE**  
[72] LETENDRE, CAROLINE, CA  
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA  
[22] 2020-07-13  
[41] 2021-01-19  
[30] US (62/876,357) 2019-07-19

[21] **3,086,578**  
[13] A1

[51] **Int.Cl. B64D 37/32 (2006.01) A62C 3/08 (2006.01)**  
[25] FR  
[54] **INERTING AND AIRCRAFT SYSTEM AND ASSOCIATED INERTING METHOD**  
[54] **SYSTEME D'INERTAGE ET AERONEF ET METHODE D'INERTAGE ASSOCIES**  
[72] ANDRE, CAROLE, FR  
[71] DASSAULT AVIATION, FR  
[22] 2020-07-13  
[41] 2021-01-18  
[30] FR (19 08 122) 2019-07-18

[21] **3,086,745**  
[13] A1

[51] **Int.Cl. G01B 7/30 (2006.01) B64C 11/30 (2006.01) B64D 31/00 (2006.01) G01D 5/12 (2006.01)**  
[25] EN  
[54] **BLADE ANGLE POSITION FEEDBACK SYSTEM WITH MAGNETIC SHIELD**  
[54] **SYSTEME DE RETROACTION DE POSITION D'ANGLE DE PALE AVEC ECRAN MAGNETIQUE**  
[72] TOMESCU, DANA, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-07-14  
[41] 2021-01-18  
[30] US (16/516,191) 2019-07-18

[21] **3,086,830**  
[13] A1

[51] **Int.Cl. B60N 2/28 (2006.01)**  
[25] EN  
[54] **CHILD SAFETY SEAT**  
[54] **SIEGE DE SECURITE POUR ENFANT**  
[72] GUO, ZHENG-WEN, CN  
[71] WONDERLAND SWITZERLAND AG, CH  
[22] 2020-07-14  
[41] 2021-01-18  
[30] CN (201910650374.0) 2019-07-18

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[21] **3,086,833**  
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01) G01D 5/26 (2006.01) G02B 6/04 (2006.01)**  
[25] EN  
[54] **MULTISENSING OPTICAL FIBER CABLE**  
[54] **CABLE A FIBRES OPTIQUES A CAPTEURS MULTIPLES**  
[72] MARTIN REGALADO, JOSEF MARIA, ES  
[72] CASTILLO LOPEZ, ESTER, ES  
[72] IGLESIAS RODRIGUEZ, VERONICA, ES  
[72] GARCIA SAN EMETERIO, MARTA, ES  
[71] PRYSMIAN S.P.A., IT  
[22] 2020-07-15  
[41] 2021-01-17  
[30] EP (19382605.4) 2019-07-17  
[30] EP (19383023.9) 2019-11-20

[21] **3,086,839**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **SOYBEAN VARIETY 5PNBY64**  
[54] **VARIETE DE SOYA 5PNBY64**  
[72] FORESMAN, BRADLEY J., US  
[72] SCHULTZE, DENNIS, US  
[71] AGRIGENETICS, INC., US  
[22] 2020-07-15  
[41] 2021-01-20  
[30] US (16/917,951) 2020-07-01

[21] **3,086,847**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) A01N 63/22 (2020.01) A01N 3/00 (2006.01) A01N 37/46 (2006.01) A01N 37/50 (2006.01) A01N 51/00 (2006.01)**  
[25] EN  
[54] **SOYBEAN VARIETY 5PAZG19**  
[54] **VARIETE DE SOYA 5PAZG19**  
[72] CAMPBELL, WILLIAM M., US  
[72] DAMON, STEVE, US  
[71] AGRIGENETICS, INC., US  
[22] 2020-07-15  
[41] 2021-01-20  
[30] US (16/917,952) 2020-07-01

[21] **3,086,852**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **SOYBEAN VARIETY 5PKHR80**  
[54] **VARIETE DE SOYA 5PKHR80**  
[72] ORTIZ-PEREZ, EVELYN, US  
[72] WILEY, HUNT B., US  
[71] AGRIGENETICS, INC., US  
[22] 2020-07-15  
[41] 2021-01-20  
[30] US (16/917,953) 2020-07-01

[21] **3,086,856**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **SOYBEAN VARIETY 5PLDE25**  
[54] **VARIETE DE SOYA 5PLDE25**  
[72] HAYES, MARK F., US  
[72] NEUS, JASON DAVID, US  
[71] AGRIGENETICS, INC., US  
[22] 2020-07-15  
[41] 2021-01-20  
[30] US (16/917,954) 2020-07-01

[21] **3,086,873**  
[13] A1

[51] **Int.Cl. C08G 18/32 (2006.01) A47C 7/18 (2006.01) A47C 27/14 (2006.01) B68G 5/02 (2006.01) C08J 9/04 (2006.01)**  
[25] EN  
[54] **SHAPED PU FOAM ARTICLES**  
[54] **ARTICLES EN MOUSSE DE POLYURETHANE PROFILES**  
[72] TERHEIDEN, ANNEGRET, DE  
[72] LANDERS, RUDIGER, DE  
[72] HERMANN, DANIELA, DE  
[72] KNISS, JANE GARRETT, US  
[72] BORGOGELLI, ROBERT, US  
[72] WHITE, KATHIE, US  
[72] WESSELY, ISABELLE DENISE, US  
[71] EVONIK OPERATIONS GMBH, DE  
[22] 2020-07-15  
[41] 2021-01-19  
[30] US (62/876.062) 2019-07-19

[21] **3,086,906**  
[13] A1

[51] **Int.Cl. F25D 1/02 (2006.01) A47G 23/00 (2006.01)**  
[25] EN  
[54] **STERILE APPARATUS FOR RAPID COOLING OF HOT WATER**  
[54] **DISPOSITIF STERILE POUR REFROIDISSEMENT RAPIDE D'EAU CHAUDE**  
[72] ROSENBLUM, REUT, IL  
[72] VAN DIJK, YEDIDYA YOCHAI, IL  
[72] ROZENBLUM, ELI(DECEASED), IL  
[71] ROSENBLUM, REUT, IL  
[71] VAN DIJK, YEDIDYA YOCHAI, IL  
[71] ROSENBLOOM, MELY, IL  
[22] 2020-07-15  
[41] 2021-01-17  
[30] US (16/513,724) 2019-07-17

[21] **3,086,913**  
[13] A1

[51] **Int.Cl. B23P 15/02 (2006.01) F01D 5/14 (2006.01) F01D 5/28 (2006.01)**  
[25] EN  
[54] **METHOD OF MAKING A SINGLE-CRYSTAL TURBINE BLADE**  
[54] **PROCEDE DE FABRICATION D'UNE AUBE DE TURBINE A STRUCTURE MONOCRISTALLINE**  
[72] ZHANG, CHAO, CA  
[72] HUSZAR, ROBERT, CA  
[72] LEGHZAOUNI, OTHMANE, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2020-07-15  
[41] 2021-01-18  
[30] US (16/515,383) 2019-07-18

[21] **3,086,968**  
[13] A1

[51] **Int.Cl. B01D 17/05 (2006.01) B01D 12/00 (2006.01) B01D 17/025 (2006.01)**  
[25] EN  
[54] **DILUTED BITUMEN PRODUCT WATER REDUCTION**  
[54] **REDUCTION DE LA TENEUR EN EAU DANS LE PRODUIT DE BITUME DILUE**  
[72] KNAPPER, BRIAN, CA  
[72] ANTHIEREN, GARY, CA  
[72] BHATTACHARYA, SUJIT, CA  
[72] TRAN, TAM, CA  
[71] SYNCRUDE CANADA LTD., CA  
[22] 2020-07-16  
[41] 2021-01-17  
[30] US (62/875,400) 2019-07-17



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[21] **3,086,972**  
 [13] A1

[51] **Int.Cl. B65B 61/00 (2006.01) B65B 17/00 (2006.01) B65D 65/30 (2006.01) B65D 69/00 (2006.01) B65D 71/00 (2006.01)**

[25] FR

[54] **EQUIPMENT AND METHOD TO CREATE PRECUTS IN A PACK OF FOOD PRODUCT POTS**

[54] **EQUIPEMENT ET METHODE POUR FORMER UNE PREDECOUPE DANS UN PACK DE POTS DE PRODUIT ALIMENTAIRE**

[72] PEREIRA, DANIEL, FR  
 [72] JACQUEMIN, CHRISTIAN, FR  
 [72] CHERI-ZECOTE, EDDY, FR  
 [72] LEMOINE, JEROME, FR  
 [71] SYNERLINK, FR  
 [22] 2020-07-16  
 [41] 2021-01-17  
 [30] FR (19/08090) 2019-07-17

[21] **3,086,994**  
 [13] A1

[51] **Int.Cl. A44B 11/00 (2006.01) A44B 11/25 (2006.01) A47D 13/02 (2006.01)**

[25] EN

[54] **BUCKLE ASSEMBLY**

[54] **ATTACHE**

[72] GUO, ZHENG-WEN, CN  
 [72] CHENG, MANQUN, CN  
 [71] WONDERLAND SWITZERLAND AG, CH  
 [22] 2020-07-16  
 [41] 2021-01-17  
 [30] CN (201910648903.3) 2019-07-17  
 [30] CN (202010621957.3) 2020-06-30

[21] **3,087,002**  
 [13] A1

[51] **Int.Cl. A61L 9/02 (2006.01)**

[25] EN

[54] **PLUG-IN FRAGRANCE DIFFUSER, AND SYSTEMS AND METHODS FOR USING SAME**

[54] **DIFFUSEUR ELECTRIQUE DE PARFUM ET SES SYSTEMES ET METHODES D'UTILISATION**

[72] HARRELL, JASON, US  
 [72] HOVERMAN, TRENT, US  
 [72] GUERIN, PATRICK, US  
 [72] WISNIESKI, RICHARD, US  
 [72] CAUDILL, SHELLIE, US  
 [72] ZAJACZKOWSKI, JAMES, US  
 [72] RENNER, SAM, US  
 [72] MURALIDHARN, SHREYAS, US  
 [72] CHEN, DEVIN, US  
 [72] BEHNAM ASL, SANA, US  
 [72] ROGERS, PETER, US  
 [71] BEAUTYAVENUES LLC, US  
 [22] 2020-07-16  
 [41] 2021-01-19  
 [30] US (63/013,816) 2020-04-22  
 [30] US (62/876,347) 2019-07-19  
 [30] US (62/916,846) 2019-10-18

[21] **3,087,006**  
 [13] A1

[51] **Int.Cl. E21B 17/04 (2006.01) E21B 17/10 (2006.01)**

[25] EN

[54] **ROLLER COUPLING APPARATUS AND METHOD THEREFOR**

[54] **DISPOSITIF D'ACCOUPEMENT DE ROULEAUX ET SON PROCEDE**

[72] FORD, MICHAEL BRENT, US  
 [71] FORD, MICHAEL BRENT, US  
 [22] 2020-07-15  
 [41] 2021-01-23  
 [30] US (16/520046) 2019-07-23  
 [30] US (16/902016) 2020-06-15

[21] **3,087,007**  
 [13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) A01H 6/28 (2018.01) A01H 4/00 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **METHODS OF GENE EDITING AND TRANSFORMING CANNABIS**

[54] **METHODES D'EDITION GENOMIQUE ET DE TRANSFORMATION DU CANNABIS**

[72] PETERSEN, MICHAEL W., US  
 [72] WILLIAMS, EDWARD JAMES, US  
 [72] HARNISH, ROBERT, US  
 [72] KAEPLER, HEIDI FLEWELLING, US  
 [72] MARTINELL, BRIAN, US  
 [72] COLLIER, RAY, US  
 [72] MCFARLAND, FRANK, US  
 [72] KAEPLER, SHAWN MICHAEL, US  
 [71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US  
 [22] 2020-07-16  
 [41] 2021-01-17  
 [30] US (62/875,311) 2019-07-17  
 [30] US (62/906,210) 2019-09-26  
 [30] US (62/982,522) 2020-02-27

[21] **3,087,026**  
 [13] A1

[51] **Int.Cl. C09D 7/65 (2018.01) C09D 7/61 (2018.01) C09D 5/14 (2006.01) C09D 163/00 (2006.01) C09K 3/18 (2006.01) A01N 59/16 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **ARTICLES COMPRISING DURABLE WATER REPELLENT, ICEPHOBIC AND/OR BIOCIDAL COATINGS**

[54] **ARTICLES A REVETEMENT HYDROFUGE DURABLE, A REVETEMENT GLACIOPHOBE ET/OU A REVETEMENT BIOCIDAL**

[72] PALUMBO, GINO, CA  
 [72] KATUGAHA, HERATH, CA  
 [72] MCCREA, JONATHAN, CA  
 [72] TOMANTSCHGER, KLAUS, CA  
 [72] PANAGIOTOPOULOS, KONSTANTINOS, CA  
 [71] INTEGRAN TECHNOLOGIES INC., CA  
 [22] 2020-07-14  
 [41] 2021-01-18  
 [30] US (16/515,093) 2019-07-18  
 [30] US (16/924,301) 2020-07-09

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[21] **3,087,153**  
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/32 (2013.01) G06F 21/64 (2013.01) G06F 40/10 (2020.01)**

[25] EN

[54] **ELECTRONIC DOCUMENT SYSTEMS, METHOD AND USES**

[54] **SYSTEMES ELECTRONIQUES DE GESTION DES DOCUMENTS, METHODE ET UTILISATIONS**

[72] KUCA, PHILIP, CA

[72] VITULLI, JOHN, CA

[71] VICA DIGITAL SOLUTIONS INC., CA

[22] 2020-07-17

[41] 2021-01-18

[30] US (62/875,543) 2019-07-18

[30] US (63/001,752) 2020-03-30

[21] **3,087,165**  
[13] A1

[51] **Int.Cl. B32B 37/15 (2006.01) B32B 27/08 (2006.01) B32B 27/38 (2006.01) B32B 27/40 (2006.01) C08J 5/24 (2006.01) C08J 7/04 (2020.01)**

[25] EN

[54] **ELIMINATION OF SURFACING FILM AND PRIMER FROM COMPOSITE SUBSTRATES THROUGH THE USE OF A CO-CURABLE PAINT FILM**

[54] **ELIMINATION DE PELLICULE DE SURFACE ET D'APPRET DES SUBSTRATS COMPOSITES GRACE A UNE COUCHE DE PEINTURE A DURCISSEMENT SIMULTANE**

[72] BREI, MARK R., US

[72] GORDON, KEVIN D., US

[71] THE BOEING COMPANY, US

[22] 2020-07-17

[41] 2021-01-18

[30] US (16/515225) 2019-07-18

[21] **3,087,169**  
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/64 (2013.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTHENTICATING A USER SIGNING AN ELECTRONIC DOCUMENT**

[54] **SYSTEMES ET METHODES D'AUTHENTIFICATION D'UN UTILISATEUR SIGNANT UN DOCUMENT ELECTRONIQUE**

[72] KUCA, PHILIP A., CA

[72] VITULLI, JOHN, CA

[71] KUCA, PHILIP A., CA

[71] VITULLI, JOHN, CA

[22] 2020-07-17

[41] 2021-01-18

[30] US (62/875,543) 2019-07-18

[21] **3,087,170**  
[13] A1

[51] **Int.Cl. F16L 9/14 (2006.01) F16L 9/12 (2006.01) F16L 59/14 (2006.01)**

[25] EN

[54] **PIPE STRUCTURE HAVING A FOAM CORE**

[54] **STRUCTURE DE CONDUIT AVEC AME DE MOUSSE**

[72] GORSHENIN, ALEXANDER, US

[71] NORTH AMERICAN PIPE CORPORATION, US

[22] 2020-07-17

[41] 2021-01-19

[30] US (62/876,364) 2019-07-19

[21] **3,087,180**  
[13] A1

[51] **Int.Cl. F16H 57/022 (2012.01) F16H 1/20 (2006.01) F16H 1/26 (2006.01) F16H 57/12 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ABATEMENT OF GEAR RATTLE UTILIZING LINEAR DEFLECTION**

[54] **SYSTEMES ET PROCEDES DE REDUCTION DU CLIQUETIS D'ENGRENAGE A L'AIDE D'UNE DEFLEXION LINEAIRE**

[72] ABBOTT, JAMES R., US

[72] FUNK, THOMAS W., US

[71] MUNCIE POWER PRODUCTS, INC., US

[22] 2020-07-17

[41] 2021-01-19

[30] US (62/876,370) 2019-07-19

[21] **3,087,181**  
[13] A1

[51] **Int.Cl. B32B 13/02 (2006.01) B32B 37/15 (2006.01) B28B 1/52 (2006.01)**

[25] EN

[54] **HIGH TOUGHNESS INORGANIC COMPOSITE ARTIFICIAL STONE PANEL AND PREPARATION METHOD THEREOF**

[54] **PANNEAU EN PIERRE COMPOSITE INORGANIQUE RECONSTITUEE HAUTE RESISTANCE ET SON PROCEDE DE PREPARATION**

[72] HUANG, HEMING, CN

[72] LIU, FUCAI, CN

[72] XIAO, MIN, CN

[72] LI, BIN, CN

[72] ZHENG, ZENGYONG, CN

[71] HUANG, HEMING, CN

[71] LIU, FUCAI, CN

[22] 2020-07-17

[41] 2021-01-19

[30] CN (201910657352.7) 2019-07-19

[21] **3,087,188**  
[13] A1

[51] **Int.Cl. D21F 9/00 (2006.01) D21F 1/00 (2006.01) D21F 11/00 (2006.01) D21F 11/14 (2006.01)**

[25] EN

[54] **PAPERMAKING MACHINE WITH PRESS SECTION**

[54] **MACHINE A PAPIER AVEC SECTION DES PRESSES**

[72] SEALEY, JAMES E., II, US

[72] MILLER, BYRD T., IV, US

[72] BEGIN, MARC P., US

[72] KENNEDY, THEODORE D., US

[71] STRUCTURED I, LLC, US

[22] 2020-07-17

[41] 2021-01-19

[30] US (62/876,173) 2019-07-19

[30] US (62/933,577) 2019-11-11

[21] **3,087,200**  
[13] A1

[51] **Int.Cl. A61C 7/14 (2006.01)**

[25] EN

[54] **ORTHODONTIC BRACKET BOITIER ORTHODONTIQUE**

[72] HUNG, CHENG-HSIANG, CN

[71] HUNG, CHENG-HSIANG, CN

[22] 2020-07-17

[41] 2021-01-19

[30] US (62/876127) 2019-07-19

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**17 janvier 2021 au 23 janvier 2021**

[21] **3,087,224**  
 [13] A1

[51] **Int.Cl. B32B 13/02 (2006.01) B32B 37/15 (2006.01) B28B 1/52 (2006.01)**

[25] EN

[54] **INORGANIC FIBER TOUGHENED INORGANIC COMPOSITE ARTIFICIAL STONE PANEL AND PREPARATION METHOD THEREOF**

[54] **PANNEAU EN PIERRE COMPOSITE INORGANIQUE RECONSTITUEE RENFORCEE DE FIBRES INORGANQUES ET SON PROCEDE DE PREPARATION**

[72] LIU, FUCAI, CN  
 [72] XIAO, MIN, CN  
 [72] LI, BIN, CN  
 [72] ZHENG, ZENGYONG, CN  
 [72] HUANG, HEMING, CN

[71] GUANGDONG TOPNICE NEW MATERIALS TECHNOLOGY CO., LTD., CN

[22] 2020-07-17  
 [41] 2021-01-19  
 [30] CN (201910657355.0) 2019-07-19

[21] **3,087,226**  
 [13] A1

[51] **Int.Cl. A61K 47/04 (2006.01) A61K 9/14 (2006.01) A61K 47/06 (2006.01) A61K 47/24 (2006.01)**

[25] EN

[54] **DRUG DELIVERY BY PORE-MODIFIED MESOPOROUS SILICA NANOPARTICLES**

[54] **ADMINISTRATION DE MEDICAMENTS PAR LES PORES AU MOYEN DE NANOPARTICULES DE SILICE MESOPOREUSE MODIFIEES**

[72] CHAN, HARDY WAI HONG, TW  
 [72] MOU, CHUNG-YUAN, TW  
 [72] WU, CHENG-HSUN, TW  
 [72] WU, SI-HAN, TW  
 [72] CHEN, YI-PING, TW  
 [72] ZHANG, RONG-LIN, TW

[71] NANO TARGETING & THERAPY BIOPHARMA INC., TW

[71] CHAN, HARDY WAI HONG, TW

[22] 2020-07-17  
 [41] 2021-01-18  
 [30] US (62/875,822) 2019-07-18

[21] **3,087,374**  
 [13] A1

[51] **Int.Cl. B60P 7/08 (2006.01) B60P 1/64 (2006.01)**

[25] EN

[54] **FIXING DEVICE FOR FIXING A SWAP BODY IN OR ON A PICK-UP AREA OF A VEHICLE AS WELL AS A VEHICLE WITH THIS TYPE OF FIXING DEVICE**

[54] **DISPOSITIF DE FIXATION POUR LA FIXATION D'UNE CARROSSERIE MOBILE DANS OU SUR UNE ZONE DE PRISE EN CHARGE D'UN VEHICULE AINSI QU'UN VEHICULE EQUIPE D'UN TEL DISPOSITIF DE FIXATION**

[72] KAHLE, PHILIPP, DE  
 [72] SCHOLTES, TOBIAS, DE  
 [72] LOFFLER, NORMANN, DE  
 [72] EPP, TILLMANN, DE  
 [71] TRETBOX GMBH, DE

[22] 2020-07-20  
 [41] 2021-01-19  
 [30] DE (10 2019 119 691.4) 2019-07-19

[21] **3,087,225**  
 [13] A1

[51] **Int.Cl. B32B 13/14 (2006.01) B32B 37/15 (2006.01)**

[25] EN

[54] **ORGANIC FIBER TOUGHENED INORGANIC COMPOSITE ARTIFICIAL STONE PANEL AND PREPARATION METHOD THEREOF**

[54] **PANNEAU EN PIERRE COMPOSITE INORGANIQUE RECONSTITUEE RENFORCEE DE FIBRES ORGANIQUES ET SON PROCEDE DE PREPARATION**

[72] HUANG, HEMING, CN  
 [72] LIU, FUCAI, CN  
 [72] XIAO, MIN, CN  
 [72] LI, BIN, CN  
 [72] ZHENG, ZENGYONG, CN  
 [71] HUANG, HEMING, CN  
 [71] LIU, FUCAI, CN

[22] 2020-07-17  
 [41] 2021-01-19  
 [30] CN (201910656527.2) 2019-07-19

[21] **3,087,227**  
 [13] A1

[51] **Int.Cl. A61K 47/04 (2006.01) A61K 47/69 (2017.01) A61K 9/14 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **SILICA NANOSPHERE FOR IMMUNOTHERAPY**

[54] **NANOSPHERE DE SILICE POUR L'IMMUNOTHERAPIE**

[72] MOU, CHUNG-YUAN, CN  
 [72] WU, CHENG-HSUN, CN  
 [72] WU, SI-HAN, CN  
 [72] CHEN, YI-PING, CN

[71] NANO TARGETING & THERAPY BIOPHARMA INC., TW

[22] 2020-07-17  
 [41] 2021-01-18  
 [30] US (62/875,842) 2019-07-18

[21] **3,087,386**  
 [13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05F 15/73 (2015.01)**

[25] EN

[54] **METHODS OF OPERATING A LOCK**

[54] **PROCEDES D'ACTIONNEMENT D'UNE SERRURE**

[72] SIMON, STEPHEN, US  
 [72] JASKIEWICZ, TOMASZ, US  
 [71] ENDURA PRODUCTS, LLC, US

[22] 2020-07-20  
 [41] 2021-01-18  
 [30] US (62/875,704) 2019-07-18  
 [30] US (16/932,305) 2020-07-17

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[21] **3,087,411**  
[13] A1

[51] **Int.Cl. C08G 77/46 (2006.01) C08J 3/20 (2006.01) C08K 5/5415 (2006.01) C08L 83/12 (2006.01)**

[25] EN

[54] **SILICONE CO-POLYMERS AND METHODS OF USE THEREOF TO MODIFY SILICONE ELASTOMERS**

[54] **COPOLYMERES DE SILICONE ET LEURS PROCEDES D'UTILISATION POUR MODIFIER DES ELASTOMERES DE SILICONE**

[72] BROOK, MICHAEL A., CA  
[72] CHEN, YANG, CA  
[71] MCMASTER UNIVERSITY, CA  
[22] 2020-07-20  
[41] 2021-01-19  
[30] US (62/876,325) 2019-07-19

[21] **3,087,413**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR ANALYTICAL DETECTION OF ANEURYSMS**

[54] **SYSTEMES ET METHODES DE DETECTION ANALYTIQUE D'ANEVRISMES**

[72] SMIRICINSCHI, VAL, US  
[72] KARMAN-SHOEMAKE, KRISTEN CATHERINE, US  
[72] BABIKER, MOHAMED HAITHEM, US  
[71] ISCHEMAVIEW, INC., US  
[22] 2020-07-17  
[41] 2021-01-18  
[30] US (16/516,136) 2019-07-18

[21] **3,087,415**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR MEASUREMENT ANALYSIS OF ANEURYSMS**

[54] **SYSTEMES ET METHODES POUR REALISER DES ANALYSES D'ANEVRISMES**

[72] SMIRICINSCHI, VAL, US  
[72] KARMAN-SHOEMAKE, KRISTEN CATHERINE, US  
[72] BABIKER, MOHAMED HAITHEM, US  
[71] ISCHEMAVIEW, INC., US  
[22] 2020-07-17  
[41] 2021-01-18  
[30] US (16/516,150) 2019-07-18

[21] **3,087,424**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR ANALYTICAL COMPARISON AND MONITORING OF ANEURYSMS**

[54] **SYSTEMES ET METHODES DE COMPARAISON ANALYTIQUE ET SURVEILLANCE DES ANEVRIEMES**

[72] SMIRICINSCHI, VAL, US  
[72] KARMAN-SHOEMAKE, KRISTEN CATHERINE, US  
[72] BABIKER, MOHAMED HAITHEM, US  
[71] ISCHEMAVIEW, INC., US  
[22] 2020-07-17  
[41] 2021-01-18  
[30] US (16/516,140) 2019-07-18

[21] **3,087,427**  
[13] A1

[51] **Int.Cl. G01N 27/622 (2021.01)**

[25] EN

[54] **TRACE DETECTION DEVICE**

[54] **DISPOSITIF DE DETECTION DE TRACES**

[72] ZHANG, QINGJUN, CN  
[72] LI, YUANJING, CN  
[72] CHEN, ZHIQIANG, CN  
[72] LI, JIANMIN, CN  
[72] LIU, YINONG, CN  
[72] LIU, YAOHONG, CN  
[72] ZHAO, YANQIN, CN  
[72] YAN, LILI, CN  
[72] CAO, BIAO, CN  
[72] MA, QIUFENG, CN  
[72] LI, GE, CN  
[71] NUCTECH COMPANY LIMITED, CN  
[71] TSINGHUA UNIVERSITY, CN  
[22] 2020-07-20  
[41] 2021-01-23  
[30] CN (201910670828.0) 2019-07-23

[21] **3,087,437**  
[13] A1

[51] **Int.Cl. E04D 13/12 (2006.01) E04G 21/32 (2006.01)**

[25] EN

[54] **ROOFING GUARD FOR CARPENTERS**

[54] **RAIL PROTECTEUR DE TOIT POUR CHARPENTIER-S-MENUISIERS**

[72] ALBERT, MATTHEW ONIEL, CA  
[72] ALBERT, RINO PHILLIPPE, CA  
[71] ALBERT, MATTHEW ONIEL, CA  
[71] ALBERT, RINO PHILLIPPE, CA  
[22] 2020-07-17  
[41] 2021-01-19  
[30] CA (3050157) 2019-07-19  
[30] US (16/516446) 2019-07-19

[21] **3,087,445**  
[13] A1

[51] **Int.Cl. A01B 73/02 (2006.01) A01C 23/00 (2006.01) A01M 7/00 (2006.01)**

[25] EN

[54] **BOOM ROLL LINKAGE**

[54] **LIAISON DE ROULIS A FLECHE**

[72] BAXTER, GARRY E., US  
[72] HITCHLER, BRADLEY J., US  
[71] DEERE & COMPANY, US  
[22] 2020-07-21  
[41] 2021-01-23  
[30] US (16/519,991) 2019-07-23

[21] **3,087,459**  
[13] A1

[51] **Int.Cl. A01B 73/02 (2006.01) A01C 23/00 (2006.01) A01M 7/00 (2006.01)**

[25] EN

[54] **BOOM ROLL LINKAGE**

[54] **LIAISON DE ROULIS A FLECHE**

[72] BAXTER, GARRY E., US  
[72] HITCHLER, BRADLEY J., US  
[71] DEERE & COMPANY, US  
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[21] **3,087,543**  
 [13] A1

[51] **Int.Cl. B01J 23/885 (2006.01) C09K 8/58 (2006.01) C10G 49/04 (2006.01)**  
 [25] EN  
 [54] **HYDROPROCESSING OF HEAVY CRUDES BY CATALYSTS IN HOMOGENEOUS PHASE**  
 [54] **HYDROTRAITEMENT DE PETROLE BRUT LOURD AU MOYEN DE CATALYSEURS EN PHASE HOMOGENE**  
 [72] SCHACHT HERNANDEZ, PERSI, MX  
 [72] DOMINQUEZ ESQUIVEL, JOSE MANUEL, MX  
 [72] PORTALES MARTINEZ, BENJAMIN, MX  
 [72] SOTO ESCALANTE, ISMAEL, MX  
 [71] INSTITUTO MEXICANO DEL PETROLEO, MX  
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 [30] MX (MX/A/2019/008622) 2019-07-19

[21] **3,087,594**  
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[51] **Int.Cl. H04W 4/024 (2018.01) H04W 64/00 (2009.01) G01R 35/00 (2006.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**  
 [25] EN  
 [54] **MAINTAINING A TRAINED NEURAL NETWORK IN MAGNETIC FINGERPRINT BASED INDOOR NAVIGATION**  
 [54] **EXPLOITATION D'UN RESEAU NEURONAL FORME POUR LA NAVIGATION D'INTERIEURE BASEE SUR L'EMPREINTE DIGITALE**  
 [72] HUBERMAN, SEAN, CA  
 [72] OHAB, HENRY L., CA  
 [71] MAPSTED CORP., CA  
 [22] 2020-07-22  
 [41] 2021-01-23  
 [30] US (16519617) 2019-07-23

[21] **3,087,665**  
 [13] A1

[51] **Int.Cl. B05B 15/60 (2018.01) B05B 1/18 (2006.01)**  
 [25] EN  
 [54] **EXPOSED SECONDARY SHOWERHEAD SYSTEM**  
 [54] **SYSTEME DE POMME DE DOUCHE SECONDAIRE EXPOSE**  
 [72] CIPRIANI, MARK, US  
 [72] VEROS, MICHAEL J., US  
 [72] ROSKO, MICHAEL SCOT, US  
 [72] DAVIDSON, KYLE ROBERT, US  
 [72] WALES, JOSHUA DREW, US  
 [72] MARTY, GARRY ROBIN, US  
 [72] GOSPEL, THOMAS EDWARD, US  
 [72] LEE, DAVID, US  
 [72] FU, BOCOMO, CN  
 [71] DELTA FAUCET COMPANY, US  
 [22] 2020-07-21  
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 [30] US (62/876,756) 2019-07-21

[21] **3,087,547**  
 [13] A1

[51] **Int.Cl. E04F 13/076 (2006.01) E04C 2/40 (2006.01)**  
 [25] EN  
 [54] **INTERLOCKING GYPSUM BUILDING SURFACE PRODUCTS, METHODS OF MANUFACTURE, AND INTERLOCKING GYPSUM BUILDING SURFACE SYSTEMS**  
 [54] **PRODUITS DE SURFACE DE CONSTRUCTION EN GYPSE A EMBOITEMENT, PROCEDES DE FABRICATION ET SYSTEMES DE SURFACE DE CONSTRUCTION EN GYPSE A EMBOITEMENT**  
 [72] JENKINS, ROBERT L., US  
 [72] LOOMIS, GARRETT, US  
 [72] DUPONT-MADINIER, KIM, US  
 [72] JACOBITES, BROCK, US  
 [72] KNUTSON, DAVID, US  
 [72] DIMITRAKOPOULOS, JAMES, US  
 [72] REYNOLDS, STEPHEN W., US  
 [72] WAMBAUGH, DOUGLAS J., US  
 [72] PYTEL, RACHEL Z., US  
 [72] MICHAUD, DENNIS, US  
 [71] CERTAINTEED GYPSUM, INC., US  
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 [30] US (62/875,238) 2019-07-17  
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[21] **3,087,642**  
 [13] A1

[51] **Int.Cl. C02F 3/08 (2006.01) C02F 3/02 (2006.01) C02F 3/30 (2006.01)**  
 [25] EN  
 [54] **WASTEWATER TREATMENT USING LAGOONS AND NITRIFICATION WITHOUT SUBSEQUENT CLARIFICATION OR POLISHING**  
 [54] **TRAITEMENT DES EAUX USEES A L'AIDE DE LAGUNES ET DE NITRIFICATION SANS CLARIFICATION OU FINISSAGE ULTERIEURS**  
 [72] GALBREATH-O'LEARY, BRADEN J., US  
 [72] HILL, PATRICK D., US  
 [72] WEVER, MICHAEL C., US  
 [71] TRIPLEPOINT ENVIRONMENTAL LLC, US  
 [22] 2020-07-22  
 [41] 2021-01-23  
 [30] US (62/877,435) 2019-07-23

[21] **3,087,671**  
 [13] A1

[51] **Int.Cl. E05B 1/00 (2006.01)**  
 [25] EN  
 [54] **DEVICE TO ASSIST IN CLOSING DOORS**  
 [54] **DISPOSITIF POUR AIDER A FERMER LES PORTES**  
 [72] AWAD, TONY, CA  
 [71] AWAD, TONY, CA  
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[21] **3,087,686**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 28/04 (2009.01) H04L 1/18 (2006.01)**  
[25] EN  
[54] **COMMUNICATION AND DATA PROCESSING IN WIRELESS COMMUNICATIONS**  
[54] **TRAITEMENT DES COMMUNICATIONS ET DES DONNEES DANS LES COMMUNICATIONS SANS FIL**  
[72] ZHOU, HUA, US  
[72] DINAN, ESMAEL, US  
[72] BABAEI, ALIREZA, US  
[72] CIRIK, ALI, US  
[72] JEON, HYOUNGSUK, US  
[72] YI, YUNJUNG, US  
[72] KWAK, YOUNGWO, US  
[72] XU, KAI, US  
[72] PARK, KYUNGMIN, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2020-07-22  
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[30] US (62/877,038) 2019-07-22

[21] **3,087,752**  
[13] A1

[51] **Int.Cl. E02F 3/90 (2006.01) B60P 3/22 (2006.01) B60P 3/24 (2006.01)**  
[25] EN  
[54] **BALANCED HYDROVAC**  
[54] **HYDROVAC EQUILIBRE**  
[72] RAJEWSKI, ROBERT C., CA  
[71] RAJEWSKI, ROBERT C., CA  
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[30] US (62/877,641) 2019-07-23

[21] **3,087,757**  
[13] A1

[51] **Int.Cl. H04W 52/22 (2009.01) H04W 72/04 (2009.01) H04W 72/12 (2009.01)**  
[25] EN  
[54] **POWER CONTROL FOR WIRELESS COMMUNICATIONS**  
[54] **CONTROLE DE PUISSANCE POUR COMMUNICATIONS SANS FIL**  
[72] CIRIK, ALI, US  
[72] DINAN, ESMAEL, US  
[72] YI, YUNJUNG, US  
[72] ZHOU, HUA, US  
[72] BABAEI, ALIREZA, US  
[72] KWAK, YOUNGWO, US  
[72] PARK, KYUNGMIN, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2020-07-22  
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[30] US (62/877,020) 2019-07-22

[21] **3,087,774**  
[13] A1

[51] **Int.Cl. F24F 11/38 (2018.01)**  
[25] EN  
[54] **DETECTION OF REFRIGERANT SIDE FAULTS**  
[54] **DETECTION D'ANOMALIES DU COTE REFRIGERANT**  
[72] BRAHME, AMITA, US  
[72] GOKHALE, UMESH, US  
[71] LENNOX INDUSTRIES INC., US  
[22] 2020-07-23  
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[30] US (16/519,212) 2019-07-23

[21] **3,087,791**  
[13] A1

[51] **Int.Cl. A61K 36/062 (2006.01) A61P 1/02 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TREATING THE ORAL CAVITY**  
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA CAVITE ORALE**  
[72] LI, WEN-HWA TING, US  
[72] MAHMOOD, KHALID, US  
[72] PARSА, RAMINE, US  
[71] JOHNSON & JOHNSON CONSUMER INC., US  
[22] 2020-07-23  
[41] 2021-01-23  
[30] US (62/877395) 2019-07-23

[21] **3,087,810**  
[13] A1

[51] **Int.Cl. H04B 7/0413 (2017.01) H01Q 21/00 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS FOR CONFIGURING RURAL WIDEBAND MULTI-USER MULTI-INPUT MULTI-OUTPUT ANTENNA ARRAY SYSTEMS**  
[54] **PROCEDES ET APPAREIL DE CONFIGURATION DE RESEAUX D'ANTENNES MULTI-ENTREES/MULTI-SORTIES A LARGE BANDE RURAUX**  
[72] UNKNOWN, XX  
[71] BROWN, ANTHONY WAYNE, CA  
[71] COLPITTS, ALEXANDER GORDON BRUCE, CA  
[71] COLPITTS, BRUCE GORDON, CA  
[71] LEGER, DAVID MARTIN, CA  
[71] PETERSEN, BRENT ROBERT, CA  
[22] 2020-07-23  
[41] 2021-01-23  
[30] US (62/877,690) 2019-07-23

[21] **3,087,811**  
[13] A1

[51] **Int.Cl. A61B 34/10 (2016.01) G16H 20/40 (2018.01) A61F 2/82 (2013.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR SIMULATING BRAIDED STENT DEPLOYMENTS**  
[54] **SYSTEMES ET PROCEDES DE SIMULATION DE DEPLOIEMENTS D'ENDOPROTHESES TRESSES**  
[72] WIENECKE, HERMAN ALLAN, US  
[72] BABIKER, MOHAMED HAITHAM, US  
[71] ISCHEMAVIEW, INC., US  
[22] 2020-07-23  
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[30] US (62/877,786) 2019-07-23

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[21] **3,087,812**  
[13] A1

[51] **Int.Cl. G01L 1/26 (2006.01)**  
[25] EN  
[54] **FLEXIBLE PRINTED PRESSURE TRANSDUCER WITH SENSOR DIFFUSION STACK MATERIALS AND METHODS**  
[54] **TRANSDUCTEUR DE PRESSION IMPRIMEE FLEXIBLE AVEC MATERIAUX EMPILES A DIFFUSION DE CAPTEUR ET PROCEDES LES INTEGRANT**  
[72] ROGERS, CALEB, US  
[72] ATKINSON, BENJAMIN, US  
[72] FLOOD, TYLER, US  
[71] TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC., US  
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[41] 2021-01-23  
[30] US (16/519,594) 2019-07-23

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[21] **3,087,815**  
[13] A1

[51] **Int.Cl. G06Q 40/06 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MULTI-ACCOUNT TRACKING**  
[54] **SYSTEME ET PROCEDE DE SUIVI MULTI-COMPTE**  
[72] NELTE, MAXIMILIAN BENJAMIN ANDREAS, CA  
[72] RUSSO, JONATHAN CHRISTOPHER, CA  
[72] PEDERSEN, SCOTT WILLIAM MARTIN, CA  
[72] GALLANT, CHRISTOPHER JAMES, CA  
[71] ROYAL BANK OF CANADA, CA  
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[41] 2021-01-23  
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[21] **3,088,182**  
[13] A1

[51] **Int.Cl. B21D 37/14 (2006.01)**  
[25] EN  
[54] **STAMPING DIES AND GUIDED RETAINER DEVICES FOR USE IN SAME**  
[54] **MATRICE A ESTAMPER ET DISPOSITIFS DE RETENUE DESTINES A ETRE UTILISES DANS CELLE-CI**  
[72] LATOUF, KEVIN JOHN, CA  
[72] MIFTARI, GEZIM, US  
[72] HARTMAN, JON RAYMOND, US  
[72] OUIMET, JEFFREY WILLIAM, US  
[71] ANCHOR LAMINA AMERICA, INC., US  
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[41] 2021-01-22  
[30] US (62/876,855) 2019-07-22  
[30] US (16/931,804) 2020-07-17

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[21] **3,091,372**  
[13] A1

[51] **Int.Cl. B61B 12/02 (2006.01) B61B 11/00 (2006.01)**  
[25] EN  
[54] **CABLEWAY INSTALLATION COMPRISING A RELAY STRUCTURE BETWEEN TWO CABLE LOOPS**  
[54] **INSTALLATION DE TELEPHERIQUE COMPRENANT UNE STRUCTURE DE RELAIS ENTRE DEUX BOUCLES DE CABLE**  
[72] PLANTARD, AURELIEN, FR  
[72] MARNAS, LUC, FR  
[71] POMA, FR  
[22] 2020-08-27  
[41] 2021-01-23  
[30] FR (FR 1908367) 2019-07-23

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[21] **3,096,361**  
[13] A1

[51] **Int.Cl. E04F 21/20 (2006.01) E04F 15/08 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEM FOR PREPARING AND INSTALLING BRICK ASSEMBLIES ON THE FLOOR OF AN ELECTROLYSIS CELL**  
[54] **METHODES ET SYSTEME DE PREPARATION ET D'INSTALLATION D'ENSEMBLES DE BRIQUES SUR LE PLANCHER D'UNE CELLULE D'ELECTROLYSE**  
[72] GAGNON, DANNY, CA  
[71] GAGNON, DANNY, CA  
[22] 2020-10-19  
[41] 2021-01-19

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[21] **3,097,325**  
[13] A1

[51] **Int.Cl. A61B 17/132 (2006.01) A61B 90/94 (2016.01) A61B 17/135 (2006.01)**  
[25] EN  
[54] **OPTICAL TOURNIQUET INTERFACE FOR SAFE PERSONALIZATION**  
[54] **INTERFACE DE GARROT OPTIQUE POUR PERSONNALISATION SECURITAIRE**  
[72] MCEWEN, JAMES ALLEN, CA  
[72] JAMESON, MICHAEL, CA  
[72] LAI, TOM YU CHIA, CA  
[72] LIM, REBECCA NICOLE, CA  
[72] PROKOPICH, NICHOLAS ALEXANDER, CA  
[71] WESTERN CLINICAL ENGINEERING LTD., CA  
[22] 2020-10-23  
[41] 2021-01-20  
[30] US (62/931,102) 2019-11-05  
[30] US (16/803,939) 2020-02-27  
[30] US (16/937,488) 2020-07-23

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[13] A1

[51] **Int.Cl. G03B 13/36 (2021.01) H04N  
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[25] EN

[54] **DECOUPLABLE FOCAL  
DISTANCE CONTROLLER AND  
INDICATOR**

[54] **CONTROLEUR DE DISTANCE  
FOCALE DISSOCIABLE ET  
INDICATEUR**

[72] RITCHIE, JONATHAN DUNCAN, CA

[72] PIERCE, LAIRD ALEXANDER, CA

[71] FOCUSBUG TECHNOLOGIES INC.,  
CA

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[54] OPTICAL SYSTEM, AND METHOD OF ILLUMINATING A SAMPLE PLANE		[25] EN		[25] EN	
[54] SYSTEME OPTIQUE ET PROCEDE D'ECLAIRAGE D'UN PLAN D'ECHANTILLON		[54] TRASH BAG FITTING DEVICE, TRASH BAG DETECTION DEVICE, SMART TRASH RECEPTACLE AND METHOD FOR CONTROL OF AUTOMATIC BAG REPLACEMENT		[54] ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE FIBER WITH ULTRA-HIGH CUT RESISTANCE AND PREPARATION METHOD THEREOF	
[72] SIEW, RONIAN, CA		[54] DISPOSITIF DE SUPPORT DE SAC POUBELLE, DISPOSITIF DE DETECTION DE SAC POUBELLE, POUBELLE INTELLIGENTE ET PROCEDE DE CONTROLE DU REMPLACEMENT DU SAC AUTOMATIQUE		[54] FIBRE DE POLYETHYLENE DE MASSE MOLECULAIRE ULTRA-ELEVEE AVEC RESISTANCE DE COUPE ULTRA-ELEVEE ET SON PROCEDE DE PREPARATION	
[72] WEI, SHEAU YENG, SG		[72] LI, JIANXIANG, CN		[72] ZHOU, XINGYU, CN	
[72] HUNG, JU-SUNG, US		[72] LI, LE, CN		[72] ZHOU, HAITAO, CN	
[71] ADVANCED INSTRUMENT PTE. LTD., SG		[72] QIU, BEIJING, CN		[72] ZHOU, HONGBO, CN	
[71] COMBINATI INCORPORATED, US		[71] SHANGHAI TOWNEW INTELLIGENT TECHNOLOGY CO., LTD., CN		[72] ZHAO, YONG, CN	
[85] 2020-03-27		[85] 2020-04-17		[71] XINGYU SAFETY PROTECTION TECHNOLOGY CO., LTD, CN	
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[51] Int.Cl. A61K 31/58 (2006.01) A61K 31/19 (2006.01) A61K 31/573 (2006.01) A61P 35/04 (2006.01)				[30] CN (201910651423.2) 2019-07-18	
[25] EN					
[54] METHODS OF TREATING PROSTATE CANCER BY ADMINISTERING ABIRATERONE ACETATE PLUS PREDNISONE WITH ANDROGEN DEPRIVATION THERAPY					
[54] METHODES DE TRAITEMENT DU CANCER DE LA PROSTATE PAR ADMINISTRATION D'ACETATE D'ABIRATERONE ET DE PREDNISONE AVEC UNE THERAPIE PAR PRIVATION ANDROGENIQUE					
[72] TRAN, NAMPHUONG, US					
[71] JANSSEN ONCOLOGY, INC., US					
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[86] 2018-02-08 (PCT/US2018/017438)					
[87] (WO2019/074536)					
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				[51] Int.Cl. G01N 27/90 (2021.01)	
				[25] EN	
				[54] CARRIER-TYPE PULSED EDDY CURRENT TESTING METHOD AND DEVICE	
				[54] PROCEDE ET DISPOSITIF D'ESSAI DU COURANT DE FOUCAULT PULSE DE TYPE TRANSPORTEUR	
				[72] WU, XINJUN, CN	
				[72] SONG, YUN, CN	
				[71] HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, CN	
				[85] 2020-08-05	
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[13] A1

[25] EN  
[54] **REAGENT EXCHANGE IN AN INSTRUMENT**  
[54] **ECHANGE DE REACTIF DANS UN INSTRUMENT**  
[72] YEN, TONY, US  
[72] STAVA, ERIC, US  
[72] PANCHAPAKESAN, RAJAGOPAL, US  
[71] ILLUMINA, INC., US  
[85] 2020-12-14  
[86] 2020-06-16 (PCT/US2020/037864)  
[87] (3104133)  
[30] US (62/863,444) 2019-06-19

[21] **3,104,947**  
[13] A1

[51] **Int.Cl. B65D 17/28 (2006.01)**  
[25] EN  
[54] **RECLOSABLE CAN LID**  
[54] **COUVERCLE REFERMABLE DE BOITE**  
[72] BRATSCH, CHRISTIAN, AT  
[71] XOLUTION GMBH, DE  
[85] 2020-12-23  
[86] 2019-06-27 (PCT/EP2019/067214)  
[87] (WO2020/007713)  
[30] EP (18181702.4) 2018-07-04

[21] **3,104,950**  
[13] A1

[51] **Int.Cl. C08L 67/04 (2006.01)**  
[25] EN  
[54] **BIODEGRADABLE POLYMER BLENDS FOR MANUFACTURING MEDICAL DEVICES**  
[54] **MELANGES DE POLYMERES BIODEGRADABLES POUR LA FABRICATION DE DISPOSITIFS MEDICAUX**  
[72] DADSETAN, MAHROKH, US  
[72] SANTIAGO-ANADON, JOSE, US  
[72] PRABHU, BALAJI, US  
[72] KARAU, ANDREAS, DE  
[71] EVONIK OPERATIONS GMBH, DE  
[85] 2020-12-23  
[86] 2019-06-28 (PCT/EP2019/067325)  
[87] (WO2020/002600)  
[30] US (62/692,188) 2018-06-29

[21] **3,104,952**  
[13] A1

[51] **Int.Cl. A61F 7/08 (2006.01) A47G 9/02 (2006.01) B32B 3/10 (2006.01) B32B 15/20 (2006.01)**  
[25] EN  
[54] **TEMPERATURE-REGULATION APPARATUS**  
[54] **APPAREIL DE REGULATION DE TEMPERATURE**  
[72] VAN OUDENALLEN, ROBERTUS GERARDUS, NL  
[71] THE SURGICAL COMPANY INTERNATIONAL B.V., NL  
[85] 2020-12-23  
[86] 2019-06-25 (PCT/EP2019/066912)  
[87] (WO2020/002377)  
[30] EP (18179987.5) 2018-06-26

[21] **3,104,955**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 11/06 (2006.01) C07D 487/04 (2006.01)**  
[25] EN  
[54] **TYROSINE AMIDE DERIVATIVES AS RHO- KINASE INHIBITORS**  
[54] **DERIVES DE TYROSINE AMIDE UTILISES EN TANT QU'INHIBITEURS DE LA RHO-KINASE**  
[72] ACCETTA, ALESSANDRO, IT  
[72] RANCATI, FABIO, IT  
[72] CAPELLI, ANNA MARIA, IT  
[72] CLARK, DAVID EDWARD, IT  
[72] TISELLI, PATRIZIA, IT  
[72] EDWARDS, CHRISTINE, IT  
[72] CHEGUILLAUME, ARNAUD JEAN FRANCOIS AUGUSTE, IT  
[72] BHALAY, GURDIP, IT  
[71] CHIESI FARMACEUTICI S.P.A., IT  
[85] 2020-12-23  
[86] 2019-07-12 (PCT/EP2019/068832)  
[87] (WO2020/016129)  
[30] EP (18183733.7) 2018-07-16

[21] **3,104,960**  
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 5/00 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01) A61B 8/12 (2006.01) A61B 17/00 (2006.01) A61B 17/32 (2006.01) A61M 25/00 (2006.01) A61F 2/95 (2013.01) A61B 90/00 (2016.01) A61N 7/00 (2006.01)**  
[25] EN  
[54] **ULTRASONIC SYSTEM AND METHODS**  
[54] **SYSTEME ET PROCEDES ULTRASONORES**  
[72] SINGH, ASEEM, US  
[71] C.R. BARD, INC., US  
[85] 2020-12-23  
[86] 2018-07-31 (PCT/US2018/044489)  
[87] (WO2020/027787)

[21] **3,104,965**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **MANAGING IMPRESSIONS OF AN ADVERTISEMENT CAMPAIGN**  
[54] **GESTION D'IMPRESSIONS D'UNE CAMPAGNE PUBLICITAIRE**  
[72] BRENNER, JOSHUA, US  
[72] AMBROZIC, CHRISTOPHER, US  
[71] ROVI GUIDES, INC., US  
[85] 2020-12-23  
[86] 2018-12-11 (PCT/US2018/064923)  
[87] (WO2020/050866)  
[30] US (62/728,040) 2018-09-06

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[21] **3,104,971**  
[13] A1

[51] **Int.Cl. A61K 31/566 (2006.01) A61K 31/121 (2006.01) A61K 31/4706 (2006.01) A61K 31/495 (2006.01) A61P 21/06 (2006.01) A61P 25/28 (2006.01) C12Q 1/02 (2006.01) C12Q 1/34 (2006.01) G01N 33/48 (2006.01) C12N 9/14 (2006.01)**

[25] EN

[54] **TREATMENT FOR AGE- AND OXIDATIVE STRESS-ASSOCIATED MUSCLE ATROPHY AND WEAKNESS**

[54] **TRAITEMENT DE L'ATROPHIE ET DE LA FAIBLESSE DU MUSCLE ASSOCIEES A L'AGE ET AU STRESS OXYDATIF**

[72] VAN REMMEN, HOLLY, US  
[72] QAISAR, RIZWAN, US  
[71] OKLAHOMA MEDICAL RESEARCH FOUNDATION, US  
[71] DEPARTMENT OF VETERANS AFFAIRS, US

[85] 2020-12-23  
[86] 2019-01-15 (PCT/US2019/013644)  
[87] (WO2019/164597)  
[30] US (62/633,958) 2018-02-22

[21] **3,104,973**  
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01) G06N 3/04 (2006.01)**

[25] EN

[54] **RAPID TIME-SERIES PREDICTION WITH HARDWARE-BASED RESERVOIR COMPUTER**

[54] **PREDICTION RAPIDE EN SERIE TEMPORELLE AVEC UN ORDINATEUR DE RESERVOIR BASE SUR DU MATERIEL**

[72] CANADAY, DANIEL, US  
[72] GAUTHIER, DANIEL, US  
[72] GRIFFITH, AARON, US  
[71] OHIO STATE INNOVATION FOUNDATION, US

[85] 2020-12-23  
[86] 2019-03-27 (PCT/US2019/024296)  
[87] (WO2020/005353)  
[30] US (62/690,698) 2018-06-27

[21] **3,104,974**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G09B 9/00 (2006.01) G09B 23/00 (2006.01)**

[25] EN

[54] **HANDS ON LABORATORY AND DEMONSTRATION EQUIPMENT WITH A HYBRID VIRTUAL/AUGMENTED ENVIRONMENT, ALONG WITH THEIR METHODS OF USE**

[54] **EQUIPEMENT PRATIQUE DE LABORATOIRE ET DE DEMONSTRATION AVEC UN ENVIRONNEMENT HYBRIDE VIRTUEL/AUGMENTE, AINSI QUE LEURS PROCEDES D'UTILISATION**

[72] HAMADANI, KAMBIZ, US  
[72] AHMADINIA, ALI, US  
[72] YE, XIN, US  
[72] JIANG, YUANYUAN, US  
[71] THE CALIFORNIA STATE UNIVERSITY - SAN MARCOS, US

[85] 2020-12-23  
[86] 2019-04-15 (PCT/US2019/027464)  
[87] (WO2019/200381)  
[30] US (62/657,771) 2018-04-14

[21] **3,104,977**  
[13] A1

[51] **Int.Cl. E21B 21/06 (2006.01)**

[25] EN

[54] **DEMULSIFYING METHOD FOR DRILLING FLUIDS**

[54] **PROCEDE DESEMULSIONNANT POUR FLUIDES DE FORAGE**

[72] REN, GINGER, US  
[72] SANDERS, AARON, US  
[72] MOHANDESSI, JONATHAN, US  
[71] STEPAN COMPANY, US

[85] 2020-12-23  
[86] 2019-05-07 (PCT/US2019/031038)  
[87] (WO2020/005390)  
[30] US (62/690,676) 2018-06-27

[21] **3,104,981**  
[13] A1

[51] **Int.Cl. H04N 19/103 (2014.01) H04N 19/159 (2014.01) H04N 19/52 (2014.01) H04N 19/61 (2014.01)**

[25] EN

[54] **LUMA INTRA MODE SIGNALING**

[54] **SIGNALISATION EN MODE INTRA DE LUMINANCE**

[72] KOTRA, ANAND MEHER, DE  
[72] CHEN, JIANLE, US  
[72] ESENLIK, SEMIH, DE  
[72] ZHAO, ZHIJIE, DE  
[72] GAO, HAN, DE  
[72] WANG, BIAO, DE  
[72] KRASNOV, IVAN, DE  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2020-12-23  
[86] 2019-05-08 (PCT/US2019/031347)  
[87] (WO2020/013911)  
[30] US (62/696,739) 2018-07-11

[21] **3,104,992**  
[13] A1

[51] **Int.Cl. B65D 65/02 (2006.01) B65D 5/56 (2006.01) B65D 33/00 (2006.01)**

[25] EN

[54] **RECYCLABLE AND ABSORBENT FOOD PACKAGING**

[54] **EMBALLAGE ALIMENTAIRE RECYCLABLE ET ABSORBANT**

[72] BEGIN, JASMINE, CA  
[72] MCALARY, BRIAN, US  
[72] THIBODEAU, DANIELLE, US  
[72] ROCKWOOD, DAVID, US  
[71] TWIN RIVERS PAPER COMPANY LLC, US  
[71] BEGIN, JASMINE, CA

[85] 2021-01-07  
[86] 2019-07-12 (PCT/US2019/041694)  
[87] (WO2020/014665)  
[30] US (62/697,778) 2018-07-13

[21] **3,104,994**  
[13] A1

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

[25] EN

[54] **ORAL APPLIANCE**

[54] **APPAREIL BUCCAL**

[72] FARRELL, CHRISTOPHER JOHN, AU  
[71] MYOSA PTY LTD, AU

[85] 2021-01-05  
[86] 2019-07-19 (PCT/AU2019/050757)  
[87] (WO2020/014748)  
[30] AU (2018902632) 2018-07-20

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[21] **3,105,012**  
[13] A1

[51] **Int.Cl. A61K 8/00 (2006.01) A61K 9/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING GLYCYRRHIN AND COSMETIC AND PHARMACEUTICAL USES THEREOF**  
[54] **COMPOSITION COMPRENANT DE LA GLYCYRRHIZINE ET SES UTILISATIONS COSMETIQUES ET PHARMACEUTIQUES**  
[72] SANSO, MARCO ALDO, IT  
[71] ATG 20 S.R.L., IT  
[85] 2021-01-05  
[86] 2019-07-15 (PCT/IB2019/056003)  
[87] (WO2020/016732)  
[30] IT (102018000007291) 2018-07-18

[21] **3,105,015**  
[13] A1

[51] **Int.Cl. A61C 7/14 (2006.01) A61C 7/24 (2006.01) A61C 7/36 (2006.01)**  
[25] EN  
[54] **ORTHODONTIC BRACKET IDENTIFICATION MARK**  
[54] **SYSTEME DE MARQUAGE D'IDENTIFICATION DE BOITIER ORTHODONTIQUE**  
[72] OWEN, BRANDON, US  
[71] OWEN, BRANDON, US  
[85] 2021-01-05  
[86] 2019-06-07 (PCT/US2019/036165)  
[87] (WO2020/018194)  
[30] US (16/036,727) 2018-07-16

[21] **3,105,053**  
[13] A1

[51] **Int.Cl. H05B 47/19 (2020.01) H05B 47/155 (2020.01)**  
[25] EN  
[54] **LIGHTING CONTROL NETWORK AND ASSOCIATED METHOD**  
[54] **RESEAU DE COMMANDE D'ECLAIRAGE ET PROCEDE ASSOCIE**  
[72] AHMAD, RIZWAN, US  
[72] SONDERICKER III, JOHN HERBERT, US  
[72] KOOSHA, EMAN, US  
[72] SOHRABI, KATAYOUN, US  
[71] DIALIGHT CORPORATION, US  
[85] 2020-12-23  
[86] 2019-06-27 (PCT/US2019/039542)  
[87] (WO2020/006256)  
[30] US (62/691,111) 2018-06-28

[21] **3,105,055**  
[13] A1

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 44/00 (2006.01) E21B 47/06 (2012.01)**  
[25] EN  
[54] **DRILLING MOTOR HAVING SENSORS FOR PERFORMANCE MONITORING**  
[54] **MOTEUR DE FORAGE COMPORTANT DES CAPTEURS POUR LA SURVEILLANCE DE PERFORMANCES**  
[72] HARVEY, PETER R., US  
[71] HARVEY, PETER R., US  
[85] 2020-12-23  
[86] 2019-06-28 (PCT/US2019/039745)  
[87] (WO2020/014009)  
[30] US (62/695,870) 2018-07-10  
[30] US (16/179,655) 2018-11-02

[21] **3,105,056**  
[13] A1

[51] **Int.Cl. F16K 31/00 (2006.01) F16K 5/06 (2006.01) F16K 31/05 (2006.01) F16K 51/00 (2006.01)**  
[25] EN  
[54] **MOTORIZED BALL VALVE WITH ACTUATOR LOCK**  
[54] **ROBINET A TOURNANT SPHERIQUE MOTORISE AVEC VERROU D'ACTIONNEUR**  
[72] HICKS, MICHAEL REECE, US  
[71] HICKS, MICHAEL REECE, US  
[85] 2020-12-23  
[86] 2019-06-29 (PCT/US2019/040028)  
[87] (WO2020/006543)  
[30] US (62/692,529) 2018-06-29

[21] **3,105,060**  
[13] A1

[51] **Int.Cl. G08B 13/196 (2006.01)**  
[25] EN  
[54] **OBJECT TRACKING USING DISPARATE MONITORING SYSTEMS**  
[54] **SUIVI D'OBJETS A L'AIDE DE SYSTEMES DE SURVEILLANCE DISPARATES**  
[72] KERZNER, DANIEL TODD, US  
[72] HINDERKS, STEPHANIE, US  
[72] MADDEN, DONALD, US  
[71] ALARM.COM INCORPORATED, US  
[85] 2020-12-23  
[86] 2019-07-01 (PCT/US2019/040192)  
[87] (WO2020/006569)  
[30] US (62/692,629) 2018-06-29

[21] **3,105,071**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) G01N 33/53 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR REDUCTION OF LIPOPROTEIN A FORMATION AND TREATMENT OF AORTIC VALVE SCLEROSIS AND AORTIC STENOSIS**  
[54] **COMPOSITIONS ET METHODES POUR LA REDUCTION DE LA FORMATION DE LA LIPOPROTEINE A ET LE TRAITEMENT DE LA SCLEROSE VALVULAIRE AORTIQUE ET DE LA STENOSE AORTIQUE**  
[72] LIANG, BERTRAND C., US  
[71] ABCENTRA, LLC, US  
[85] 2020-12-23  
[86] 2019-07-01 (PCT/US2019/040196)  
[87] (WO2020/010024)  
[30] US (62/693,218) 2018-07-02  
[30] US (62/697,353) 2018-07-12

[21] **3,105,076**  
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01)**  
[25] EN  
[54] **IMAGE REGISTRATION TO A 3D POINT SET**  
[54] **ENREGISTREMENT D'IMAGE SUR UN ENSEMBLE DE POINTS 3D**  
[72] ELY, RICHARD W., US  
[71] RAYTHEON COMPANY, US  
[85] 2020-12-23  
[86] 2019-07-10 (PCT/US2019/041176)  
[87] (WO2020/014341)  
[30] US (62/696,107) 2018-07-10  
[30] US (62/696,118) 2018-07-10

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[21] **3,105,078**  
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01)**  
[25] EN  
[54] **SYNTHETIC IMAGE GENERATION FROM 3D-POINT CLOUD**  
[54] **GENERATION D'IMAGES SYNTHETIQUES A PARTIR D'UN NUAGE DE POINTS 3D**  
[72] ELY, RICHARD W., US  
[71] RAYTHEON COMPANY, US  
[85] 2020-12-23  
[86] 2019-07-10 (PCT/US2019/041180)  
[87] (WO2020/014343)  
[30] US (62/696,118) 2018-07-10  
[30] US (62/696,107) 2018-07-10

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[21] **3,105,080**  
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01)**  
[25] EN  
[54] **MULTI-SOURCE IMAGE FUSION**  
[54] **FUSION D'IMAGES MULTI-SOURCES**  
[72] ELY, RICHARD W., US  
[71] RAYTHEON COMPANY, US  
[85] 2020-12-23  
[86] 2019-07-10 (PCT/US2019/041185)  
[87] (WO2020/014347)  
[30] US (62/696,107) 2018-07-10  
[30] US (16/364,969) 2019-03-26

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[21] **3,105,082**  
[13] A1

[51] **Int.Cl. A61K 31/7008 (2006.01) A61K 31/05 (2006.01) A61K 36/185 (2006.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **CANNABIDIOL COMBINATION COMPOSITIONS**  
[54] **COMPOSITIONS D'ASSOCIATIONS DE CANNABIDIOL**  
[72] VAKNIN, GOLAN, US  
[72] BAR, TAMI, IL  
[71] COMPANION SCIENCES, LLC, US  
[85] 2020-12-23  
[86] 2019-07-01 (PCT/US2019/040043)  
[87] (WO2020/009950)  
[30] US (62/692,865) 2018-07-02

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[21] **3,105,165**  
[13] A1

[51] **Int.Cl. A61B 42/40 (2016.01) B65D 83/08 (2006.01)**  
[25] EN  
[54] **ON-THE-GO CUFF-FIRST GLOVE DISPENSER SOFT PACK**  
[54] **EMBALLAGE SOUPLE DE DISTRIBUTION RAPIDE DE GANTS COTE POIGNET**  
[72] ROBERT, PATRICK H., US  
[72] SAELIM, TANTIMA, US  
[72] TAN, SIEW HOE, US  
[71] O&M HALYARD INC., US  
[85] 2020-12-24  
[86] 2019-06-20 (PCT/IB2019/055223)  
[87] (WO2020/003074)  
[30] US (62/692,159) 2018-06-29  
[30] US (62/799,075) 2019-01-31

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[21] **3,105,180**  
[13] A1

[51] **Int.Cl. B60T 5/00 (2006.01) F16D 65/12 (2006.01) F16D 65/847 (2006.01)**  
[25] EN  
[54] **VEHICLE BRAKE**  
[54] **FREIN DE VEHICULE**  
[72] SQUARZI, MARCO, IT  
[71] DUEMILADIECI S.R.L.S. UNIPERSONALE, IT  
[85] 2020-12-24  
[86] 2019-06-25 (PCT/IB2019/055331)  
[87] (WO2020/003112)  
[30] IT (102018000006685) 2018-06-26

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[21] **3,105,203**  
[13] A1

[51] **Int.Cl. A23C 1/04 (2006.01) A23L 33/00 (2016.01) A23L 33/19 (2016.01) A23C 21/00 (2006.01) A23J 1/20 (2006.01)**  
[25] EN  
[54] **NOVEL METHOD FOR PREPARING ALPHA-LACTALBUMIN-ENRICHED COMPOSITIONS, RELATED PRODUCTS AND USES E.G. IN INFANT FORMULAS**  
[54] **NOUVEAU PROCEDE DE PREPARATION DE COMPOSITIONS ENRICHIES EN ALPHA-LACTALBUMINE, PRODUITS APPARENTES ET UTILISATIONS, PAR EXEMPLE, DANS LES PREPARATIONS POUR NOURRISSONS**  
[72] LAURIDSEN, KASPER BOGELUND, DK  
[72] BERTELSEN, HANS, DK  
[72] PARJIKOLAEI, BEHNAZ RAZI, DK  
[72] NIELSEN, SOREN BANG, DK  
[72] JAGER, TANJA CHRISTINE, DK  
[72] SONDERGAARD, KARE, DK  
[72] DE MOURA MACIEL, GUILHERME, DK  
[71] ARLA FOODS AMBA, DK  
[85] 2020-12-22  
[86] 2019-06-26 (PCT/EP2019/066990)  
[87] (WO2020/002422)  
[30] EP (18180224.0) 2018-06-27  
[30] EP (18180212.5) 2018-06-27

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[21] **3,105,206**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/73 (2013.01)**  
[25] EN  
[54] **CORRELATION-BASED ROBUST AUTHENTICATION TECHNIQUE USING HELPER DATA ONLY**  
[54] **TECHNIQUE D'AUTHENTIFICATION ROBUSTE FONDEE SUR UNE CORRELATION UTILISANT UNIQUEMENT DES DONNEES AUXILIAIRES**  
[72] PLUSQUELLIC, JAMES, US  
[72] ARENO, MATT, US  
[71] UNM RAINFOREST INNOVATIONS, US  
[85] 2020-12-22  
[86] 2019-06-27 (PCT/US2019/039417)  
[87] (WO2020/006178)  
[30] US (62/690,650) 2018-06-27

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[21] **3,105,211**  
[13] A1

[51] **Int.Cl. F01M 11/08 (2006.01) B04B 5/08 (2006.01) B04B 7/08 (2006.01) B04B 9/08 (2006.01) F01D 25/18 (2006.01) F16H 57/04 (2010.01) F01M 11/03 (2006.01)**

[25] EN

[54] **INTEGRAL CENTRIFUGAL DEGASSER**

[54] **DEGAZEUR CENTRIFUGE MONOBLOC**

[72] NIFENECKER, ARNAUD, FR  
[72] BONNET, FREDERIC, FR  
[72] GAYMU, PIERRE, FR  
[72] LANQUETIN, REMI, FR  
[72] FULLERINGER, BENJAMIN, FR  
[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2020-12-29  
[86] 2019-07-05 (PCT/FR2019/051667)  
[87] (WO2020/008153)  
[30] FR (1856182) 2018-07-05

[21] **3,105,215**  
[13] A1

[51] **Int.Cl. E01F 9/681 (2016.01) E04H 12/08 (2006.01) F21S 8/08 (2006.01)**

[25] EN

[54] **SUPPORT DEVICE COMPRISING A POST**

[54] **DISPOSITIF DE SUPPORT COMPRENANT UN POTEAU**

[72] CARRIER, PASCAL JACQUES, FR  
[72] SOUCHON, DAVID, FR  
[71] VALMONT FRANCE, FR

[85] 2020-12-29  
[86] 2019-07-05 (PCT/FR2019/051669)  
[87] (WO2020/008155)  
[30] FR (1856179) 2018-07-05

[21] **3,105,217**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A01N 43/40 (2006.01) A01N 43/54 (2006.01)**

[25] EN

[54] **SUBSTITUTED 2-HETEROARYLOXYPYRIDINES AND SALTS THEREOF AND THEIR USE AS HERBICIDAL AGENTS**

[54] **2-HETEROARYLOXYPYRIDINES SUBSTITUEES, LEURS SELS ET LEUR UTILISATION COMME AGENTS HERBICIDES**

[72] MCLEOD, MICHAEL CHARLES, DE  
[72] BRAUN, RALF, DE  
[72] MACHETTIRA, ANU BHEEMAIAH, DE  
[72] SCHMUTZLER, DIRK, DE  
[72] ASMUS, ELISABETH, DE  
[72] ROSINGER, CHRISTOPHER HUGH, DE  
[72] GATZWEILER, ELMAR, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2020-12-22  
[86] 2019-06-19 (PCT/EP2019/066197)  
[87] (WO2020/002089)  
[30] EP (18179566.7) 2018-06-25

[21] **3,105,225**  
[13] A1

[51] **Int.Cl. A61J 1/20 (2006.01) A61J 1/14 (2006.01) B65D 81/32 (2006.01)**

[25] EN

[54] **DEVICE FOR TEMPORARILY CONNECTING TWO CONTAINERS**

[54] **DISPOSITIF DE CONNEXION TEMPORAIRE DE DEUX RECIPIENTS**

[72] BOUTELOUP, DAVID, FR  
[72] BOURDIER, FABRICE, FR  
[72] BIDAMANT, FLORENCE, FR  
[71] CORADIN SAS, FR

[85] 2020-12-29  
[86] 2019-10-18 (PCT/FR2019/052487)  
[87] (WO2020/079383)  
[30] FR (1871237) 2018-10-19

[21] **3,105,231**  
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHOD FOR AUTOMATED DETECTION OF ANTIBODIES IN A LIQUID BIOLOGICAL SAMPLE USING AN ANTIGEN CHIP, AND ANTIGEN CHIP THEREFOR**

[54] **PROCEDE DE DETECTION AUTOMATISEE D'ANTICORPS DANS UN ECHANTILLON BIOLOGIQUE LIQUIDE EN UTILISANT UNE PUCE D'ANTIGENE ET PUCE D'ANTIGENE CORRESPONDANTE**

[72] MORGENROTH, KATJA, DE  
[72] VIERTEL, VANESSA, DE  
[72] STELLER, ULF, DE  
[72] GERLACH, STEFAN, DE  
[72] MARZAHL, CHRISTIAN, DE  
[72] VOIGT, JORN, DE  
[72] STOCKER, WINFRIED, DE  
[71] EUROIMMUN MEDIZINISCHE LABORDIAGNOSTIKA AG, DE

[85] 2020-12-29  
[86] 2019-06-17 (PCT/EP2019/065874)  
[87] (WO2020/007597)  
[30] EP (18182266.9) 2018-07-06

[21] **3,105,234**  
[13] A1

[51] **Int.Cl. C07D 231/12 (2006.01) A61K 31/4155 (2006.01) A61P 33/14 (2006.01) C07C 69/96 (2006.01) C07D 403/04 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS FOR CONTROLLING ARTHROPODS**

[54] **NOUVEAUX COMPOSES POUR LUTTER CONTRE LES ARTHROPODES**

[72] TELSNER, JOACHIM, DE  
[72] KRENZ, URSULA, DE  
[72] BORNGEN, KIRSTEN, DE  
[72] TURBERG, ANDREAS, DE  
[72] SOFIA, KLEIN, DE  
[72] SCHMIDT, FRANZISKA, DE  
[71] BAYER ANIMAL HEALTH GMBH, DE

[85] 2020-12-29  
[86] 2019-06-27 (PCT/EP2019/067165)  
[87] (WO2020/007704)  
[30] EP (18181950.9) 2018-07-05

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[21] **3,105,240**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01) A61P 19/10 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) C07C 229/08 (2006.01) C07D 475/04 (2006.01)**

[25] EN

[54] **CRYSTALLINE SALTS OF 5-METHYL-(6S)-TETRAHYDROFOLIC ACID AND L-VALINE ETHYL ESTER**

[54] **SELS CRISTALLINS D'ACIDE 5-METHYL-(6S)-TETRAHYDROFOLIQUE ET D'ESTER ETHYLIQUE DE L-VALINE**

[72] MOSER, RUDOLF, CH  
[72] GROEHN, VIOLA, CH  
[72] BOEHNI STAMM, RUTH, CH  
[72] BLATTER, FRITZ, CH  
[72] SZELAGIEWICZ, MARTIN, CH  
[71] MERCK PATENT GMBH, DE  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/EP2019/067703)  
[87] (WO2020/007841)  
[30] EP (18182281.8) 2018-07-06

[21] **3,105,242**  
[13] A1

[51] **Int.Cl. B29C 64/112 (2017.01) B33Y 10/00 (2015.01) B29C 64/106 (2017.01) B28B 1/30 (2006.01) B28B 1/32 (2006.01)**

[25] EN

[54] **INKJET PRINTING OF THREE-DIMENSIONAL CERAMIC PATTERN**

[54] **IMPRESSION A JET D'ENCRE DE MOTIF CERAMIQUE TRIDIMENSIONNEL**

[72] ELIMELECH, HILA, IL  
[72] YEDIDYA, LIOR, IL  
[71] NANO-DIMENSION TECHNOLOGIES, LTD., IL  
[85] 2020-09-16  
[86] 2019-03-18 (PCT/US2019/022763)  
[87] (WO2019/178599)  
[30] US (62/644,037) 2018-03-16

[21] **3,105,246**  
[13] A1

[51] **Int.Cl. B01J 20/04 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01) C01F 5/02 (2006.01) C01F 11/18 (2006.01) C02F 1/28 (2006.01) C02F 1/66 (2006.01)**

[25] EN

[54] **FORMED BODY BASED ON MAGNESIUM OXIDE AND CALCIUM CARBONATE AND METHOD FOR ITS PREPARATION**

[54] **CORPS FORME A BASE D'OXYDE DE MAGNESIUM ET DE CARBONATE DE CALCIUM ET SON PROCEDE DE PREPARATION**

[72] FISCHER, UWE, DE  
[71] LHOIST RECHERCHE ET DEVELOPPEMENT S.A., BE  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/EP2019/067755)  
[87] (WO2020/007869)  
[30] DE (10 2018 115 939.0) 2018-07-02

[21] **3,105,251**  
[13] A1

[51] **Int.Cl. C07D 475/04 (2006.01) A61K 31/519 (2006.01) C07C 229/28 (2006.01)**

[25] EN

[54] **CRYSTALLINE SALTS OF 5-METHYL-(6S)-TETRAHYDROFOLIC ACID AND AMINO ACID ETHYL ESTERS**

[54] **SELS CRISTALLINS D'ACIDE 5-METHYL-(6S)-TETRAHYDROFOLIQUE ET D'ESTERS ETHYLIQUES D'ACIDES AMINES**

[72] MOSER, RUDOLF, CH  
[72] GROEHN, VIOLA, CH  
[72] BOEHNI STAMM, RUTH, CH  
[72] BLATTER, FRITZ, CH  
[72] SZELAGIEWICZ, MARTIN, CH  
[71] MERCK PATENT GMBH, DE  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/EP2019/067705)  
[87] (WO2020/007843)  
[30] EP (18182284.2) 2018-07-06  
[30] EP (19168723.5) 2019-04-11

[21] **3,105,254**  
[13] A1

[51] **Int.Cl. B01J 37/02 (2006.01) B01D 53/94 (2006.01) B01J 21/06 (2006.01) B01J 23/00 (2006.01) B01J 23/44 (2006.01)**

[25] EN

[54] **PROCESS OF MANUFACTURE OF A SOLID CATALYST MADE OF A SUPPORT COATED WITH A THIN CATALYTIC LAYER AND TO A PROCESS FOR ELIMINATING GASEOUS AND/OR PARTICULATE POLLUTANTS IN AN EXHAUST GAZ**

[54] **PROCESSUS DE FABRICATION D'UN CATALYSEUR SOLIDE CONSTITUE D'UN SUPPORT ENROBE D'UNE COUCHE CATALYTIQUE MINCE ET UN PROCESSUS D'ELIMINATION DE POLLUANTS GAZEUX ET/OU PARTICULAIRES DANS UN GAZ D'ECHAPPEMENT**

[72] BARAKAT, TAREK, BE  
[72] SU, BAO-LIAN, BE  
[71] UNIVERSITE DE NAMUR, BE  
[71] STUV, BE  
[85] 2020-12-29  
[86] 2019-07-03 (PCT/EP2019/067916)  
[87] (WO2020/007949)  
[30] EP (18181577.0) 2018-07-04

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[21] **3,105,256**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/16 (2006.01) A61K 9/19 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61P 7/02 (2006.01) F26B 5/06 (2006.01)**

[25] EN

[54] **NOVEL STABLE HIGH-CONCENTRATION FORMULATION FOR ANTI-FXIA ANTIBODIES**

[54] **NOUVELLE FORMULATION STABLE A HAUTE CONCENTRATION POUR ANTICORPS ANTI-FXIA**

[72] GOMBERT, NIKLAS, DE  
[72] VEURINK, MARIEKE, DE  
[72] KLAK, ALEXANDER, DE  
[72] SCHNEID, STEFAN CHRISTIAN, DE  
[72] HEKE, STEFAN, DE  
[72] PLITZKO, MATTHIAS, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2020-12-29  
[86] 2019-07-05 (PCT/EP2019/068106)  
[87] (WO2020/008035)  
[30] EP (PCT/EP2018/068250) 2018-07-05

[21] **3,105,260**  
[13] A1

[51] **Int.Cl. B65G 47/96 (2006.01) B60T 7/00 (2006.01) F16D 59/02 (2006.01)**

[25] EN

[54] **CONVEYOR DEVICE WITH AT LEAST TWO CONVEYOR CARRIAGES AND A POWERTRAIN BRAKE FOR A CROSS BELT CONVEYOR ON AT LEAST ONE OF THE CONVEYOR CARRIAGES**

[54] **DISPOSITIF DE TRANSPORT MUNI D'AU MOINS DEUX CHARIOTS ET D'UN FREIN DE CHAINE CINEMATIQUE D'UN CONVOYEUR A COURROIE TRANSVERSAL SUR AU MOINS UN DES CHARIOTS**

[72] EISINGER, THOMAS, DE  
[72] DROSTE, HEINRICH, DE  
[71] INTERROLL HOLDING AG, CH  
[85] 2020-12-29  
[86] 2019-07-04 (PCT/EP2019/067999)  
[87] (WO2020/011643)  
[30] DE (10 2018 005 570.2) 2018-07-13

[21] **3,105,261**  
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 9/08 (2006.01) A61K 9/16 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61P 7/02 (2006.01) F26B 5/06 (2006.01)**

[25] EN

[54] **METHOD FOR THE PRODUCTION OF FREEZE-DRIED PELLETS COMPRISING AN ANTI-COAGULATION FACTOR XIA (FXIA) ANTIBODY**

[54] **PROCEDE POUR LA PRODUCTION DE COMPRIMES LYOPHILISES COMPRENANT UN ANTICORPS DU FACTEUR XIA ANTI-COAGULATION (FXIA)**

[72] SCHNEID, STEFAN CHRISTIAN, DE  
[72] HEKE, STEFAN, DE  
[72] PLITZKO, MATTHIAS, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2020-12-29  
[86] 2019-07-05 (PCT/EP2019/068071)  
[87] (WO2020/008022)  
[30] EP (PCT/EP2018/068250) 2018-07-05

[21] **3,105,262**  
[13] A1

[51] **Int.Cl. H01J 49/04 (2006.01) G01N 1/28 (2006.01) G01N 30/00 (2006.01)**

[25] EN

[54] **THERMAL DESORPTION TUBE SAMPLER**

[54] **ECHANTILLONNEUR DE TUBE A DESORPTION THERMIQUE**

[72] HANNA, GEORGE, GB  
[72] ROMANO, ANDREA, GB  
[71] IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE, GB  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/GB2019/051874)  
[87] (WO2020/008184)  
[30] GB (1810839.9) 2018-07-02

[21] **3,105,264**  
[13] A1

[51] **Int.Cl. C03C 3/083 (2006.01) C03B 9/00 (2006.01) C03C 11/00 (2006.01)**

[25] EN

[54] **HOLLOW SPHERICAL GLASS PARTICLES**

[54] **PARTICULES DE VERRE SPHERIQUES CREUSES**

[72] OLBERT, GERHARD, DE  
[72] PASIN E MATOS, LAILA RAQUEL, DE  
[71] BASF SE, DE  
[85] 2020-12-29  
[86] 2019-07-24 (PCT/EP2019/069865)  
[87] (WO2020/020921)  
[30] EP (18185918.2) 2018-07-26

[21] **3,105,265**  
[13] A1

[51] **Int.Cl. A61K 47/14 (2017.01) A61K 9/00 (2006.01) A61K 9/16 (2006.01)**

[25] EN

[54] **NOVEL CARRIER PARTICLES FOR DRY POWDER FORMULATIONS FOR INHALATION**

[54] **NOUVELLES PARTICULES DE SUPPORT POUR FORMULATIONS DE POUDRE SECHE POUR INHALATION**

[72] GUIDI, TOMASO, IT  
[72] PAUDEL, AMRIT, IT  
[72] ZELLNITZ, SARAH ELISABETH, IT  
[72] TEIXEIRA PINTO, JOANA FILIPA FERNANDES, IT  
[71] CHIESI FARMACEUTICI S.P.A., IT  
[85] 2020-12-29  
[86] 2019-07-24 (PCT/EP2019/069943)  
[87] (WO2020/020957)  
[30] EP (18186078.4) 2018-07-27



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[21] **3,105,268**  
[13] A1

[51] **Int.Cl. C22C 38/58 (2006.01) C22C 38/50 (2006.01) C22C 38/52 (2006.01)**

[25] EN

[54] **RADIATION-RESISTANT AUSTENITE STEEL FOR IN-VESSEL BAFFLE**

[54] **ACIER AUSTENITIQUE A L'EPREUVE DES RADIATIONS POUR ENCEINTE DANS LA CUVE D'UN REACTEUR A EAU PRESSURISEE**

[72] MARGOLIN, BORIS  
ZAKHAROVICH, RU

[72] SOROKIN, ALEKSANDR  
ANDREEVICH, RU

[72] GULENKO, ALEKSANDR  
GEORGIEVICH, RU

[72] TEPLUKHINA, IRINA  
VLADIMIROVNA, RU

[72] ROMANOV, OLEG NIKOLAEVICH,  
RU

[72] PETROV, SERGEI NIKOLAEVICH,  
RU

[72] MIKHAILOV, MAKSIM  
SERGEEVICH, RU

[72] VASIL'EVA, EVGENIYA  
ANDREEVNA, RU

[72] PIMINOV, VLADIMIR  
ALEKSANDROVICH, RU

[71] JOINT STOCK COMPANY  
"ROSENERGOATOM", RU

[71] THE FEDERAL STATE UNITARY  
ENTERPRISE "CENTRAL  
RESEARCH INSTITUTE OF STRU,  
RU

[71] JOINT STOCK COMPANY  
"EXPERIMENTAL AND DESIGN  
ORGANIZATION "GIDROPRESS"  
AWARDED THE ORDER OF THE  
RED BANNER OF LABOUR AND  
CZSR ORDER OF LABOUR, RU

[71] SCIENCE AND INNOVATIONS -  
NUCLEAR INDUSTRY SCIENTIFIC  
DEVELOPMENT, PRIVA, RU

[85] 2020-12-25  
[86] 2019-12-31 (PCT/RU2019/001051)  
[87] (WO2020/214057)  
[30] RU (2019111240) 2019-04-15

[21] **3,105,269**  
[13] A1

[51] **Int.Cl. A61B 5/369 (2021.01) A61B 5/00 (2006.01)**

[25] EN

[54] **MULTICLASS CLASSIFICATION METHOD FOR THE ESTIMATION OF EEG SIGNAL QUALITY**

[54] **PROCEDE DE CLASSIFICATION MULTICLASSE POUR L'ESTIMATION DE LA QUALITE D'UN SIGNAL EEG**

[72] GROSSELIN, FANNY, FR

[72] NAVARRO-SUNE, XAVIER, FR

[72] ATTAL, YOHAN, FR

[71] MYBRAIN TECHNOLOGIES, FR

[85] 2020-12-29  
[86] 2019-06-27 (PCT/EP2019/067191)  
[87] (WO2020/002519)  
[30] EP (18305841.1) 2018-06-29

[21] **3,105,270**  
[13] A1

[51] **Int.Cl. A01N 31/08 (2006.01) A01N 31/16 (2006.01) A01P 1/00 (2006.01) A61K 31/055 (2006.01) A61P 31/04 (2006.01)**

[25] FR

[54] **M-GUAIACOL DERIVATIVES, PREPARATION THEREOF, AND USES THEREOF**

[54] **DERIVES DU M-GAIACOL, LEUR PREPARATION ET LEURS UTILISATIONS**

[72] RAULT, SYLVAIN, FR

[72] ROCHAIS, CHRISTOPHE, FR

[72] LEMAITRE, STEPHANE, FR

[72] XIAO, FENG, FR

[72] SUZANNE, PEGGY, FR

[72] DALLEMAGNE, PATRICK, FR

[72] CASTAGNET, SOPHIE, FR

[72] LEON-SECK, ALBERTINE, FR

[71] UNIVERSITE DE CAEN  
NORMANDIE, FR

[71] LABEO, FR

[85] 2020-12-29  
[86] 2019-07-02 (PCT/EP2019/067774)  
[87] (WO2020/007882)  
[30] FR (1856125) 2018-07-03

[21] **3,105,271**  
[13] A1

[51] **Int.Cl. G01N 29/07 (2006.01)**

[25] EN

[54] **METHOD FOR THE CALCULATION OF RESIDUAL STRESSES IN THE SEAM METAL OF THE PIPELINES JOINTS (OPTIONS)**

[54] **PROCEDE POUR DETERMINER LES TENSIONS RESIDUELLES DANS LE METAL DE CORDONS DE CONNEXIONS SOUDEES DE CONDUITS (VARIANTES)**

[72] KAMYSHEV, ARKADIY  
VADIMOVICH, RU

[72] PASMNIK, LEV ABRAMOVICH,  
RU

[72] ROVINSKIY, VIKTOR  
DONATOVICH, RU

[72] GETMAN, ALEKSANDR  
FEDOROVICH, RU

[72] GUBA, SERGEI VALER'EVICH, RU

[71] JOINT STOCK COMPANY  
"ROSENERGOATOM", RU

[71] LLC "INKOTES", RU

[71] JOINT-STOCK COMPANY "ALL-  
RUSSIAN INSTITUTE FOR  
NUCLEAR POWER PLANTS  
OPERATION" (VNIIAES), RU

[71] SCIENCE AND INNOVATIONS -  
NUCLEAR INDUSTRY SCIENTIFIC  
DEVELOPMENT, PRIVATE  
ENTERPRISE, RU

[85] 2020-12-25  
[86] 2019-12-31 (PCT/RU2019/001052)  
[87] (WO2020/204751)  
[30] RU (2019110165) 2019-04-05

[21] **3,105,272**  
[13] A1

[51] **Int.Cl. A61B 5/103 (2006.01) G06N 3/04 (2006.01) G06T 1/40 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **HUMAN POSE ANALYSIS SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE D'ANALYSE DE POSE CHEZ UN ETRE HUMAIN**

[72] CHO, DONGWOOK, CA

[72] KRUSZEWSKI, PAUL, CA

[72] ZHANG, MAGGIE, CA

[71] WRNCH INC., CA

[85] 2020-12-29  
[86] 2019-06-27 (PCT/CA2019/050887)  
[87] (WO2020/000096)  
[30] US (62/691,818) 2018-06-29

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[21] **3,105,273**  
[13] A1

[51] **Int.Cl. G21F 9/28 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR DRYING SPENT ION-EXCHANGE RESINS**  
[54] **INSTALLATION DE SECHAGE DE RESINES A ECHANGE D'IONS USEES**  
[72] BELOKON', DENIS EVGEN'EVICH, RU  
[72] KOLCHANOV, ALEKSANDR VALER'EVICH, RU  
[72] KUKIEV, DMITRIY ARKHIPOVICH, RU  
[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU  
[71] SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, RU  
[85] 2020-12-25  
[86] 2019-12-31 (PCT/RU2019/001053)  
[87] (WO2020/214058)  
[30] RU (2019112024) 2019-04-19

[21] **3,105,274**  
[13] A1

[51] **Int.Cl. A61F 2/14 (2006.01)**  
[25] EN  
[54] **STABILIZATION OF COLLAGEN SCAFFOLDS**  
[54] **STABILISATION D'ECHAFAUDAGES DE COLLAGENE**  
[72] KLOPOTEK, PETER J., DE  
[71] GEBAUER-KLOPOTEK PATENT VERWALTUNGS-UG, DE  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/IB2019/000779)  
[87] (WO2020/008258)  
[30] US (62/693,192) 2018-07-02

[21] **3,105,275**  
[13] A1

[51] **Int.Cl. G21C 3/42 (2006.01) B01D 1/22 (2006.01) C01G 43/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING MONOPHASE SALTS OF ACTINIDES AND DEVICE FOR PRODUCING SAME**  
[54] **PROCEDE DE PRODUCTION DE SELS MONOPHASIQUES D'ACTINIDES ET DISPOSITIF DE PRODUCTION**  
[72] ALOJ, ALBERT SEMENOVICH, RU  
[72] METALIDI, MIKHAIL MIKHAILOVICH, RU  
[72] RYABKOV, DMITRIJ VIKTOROVICH, RU  
[72] BEZDOSYUK, VASILIJ IVANOVICH, RU  
[72] SHCHUKIN, VLADIMIR SERGEEVICH, RU  
[72] ABASHKIN, ANDREJ YUREVICH, RU  
[72] SAMOJLOV, SERGEJ EVGENEVICH, RU  
[72] KOLTSOVA, TATYANA IVANOVNA, RU  
[71] JOINT-STOCK COMPANY «KHLOPIN RADIUM INSTITUTE», RU  
[85] 2020-12-25  
[86] 2019-12-05 (PCT/RU2019/050237)  
[87] (WO2020/139168)  
[30] RU (2018146709) 2018-12-25

[21] **3,105,276**  
[13] A1

[51] **Int.Cl. A61B 10/04 (2006.01) A61B 10/02 (2006.01)**  
[25] EN  
[54] **DEVICE FOR COLLECTING SAMPLES OF BIOLOGICAL TISSUE**  
[54] **DISPOSITIF POUR PRELEVER DES ECHANTILLONS DE TISSU BIOLOGIQUE**  
[72] RAMORINO, GIORGIO, IT  
[72] BONERA, ILARIO, IT  
[71] EUROMEDICAL S.R.L., IT  
[85] 2020-12-24  
[86] 2019-06-27 (PCT/IB2019/055456)  
[87] (WO2020/003198)  
[30] IT (102018000006731) 2018-06-27

[21] **3,105,277**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01)**  
[25] EN  
[54] **SPLIT-TYPE HEAD-MOUNTED DISPLAY SYSTEM AND INTERACTION METHOD**  
[54] **SYSTEME DE VISIOCASQUE DE TYPE DIVISE ET PROCEDE D'INTERACTION**  
[72] ZHU, GUANG, CN  
[71] ZHU, GUANG, CN  
[85] 2020-12-29  
[86] 2019-04-26 (PCT/CN2019/084552)  
[87] (WO2020/001151)  
[30] CN (201810673525.X) 2018-06-26

[21] **3,105,279**  
[13] A1

[51] **Int.Cl. F16K 27/00 (2006.01)**  
[25] EN  
[54] **MOUNTING STRUCTURES FOR FLOW SUBSTRATES**  
[54] **STRUCTURES DE MONTAGE POUR SUBSTRATS D'ECOULEMENT**  
[72] REZAEI, FREDERICK, US  
[72] VU, KIM NGOC, US  
[71] COMPART SYSTEMS PTE. LTD., SG  
[85] 2020-12-29  
[86] 2019-07-17 (PCT/IB2019/056133)  
[87] (WO2020/016817)  
[30] US (62/699,196) 2018-07-17  
[30] US (62/804,086) 2019-02-11

[21] **3,105,280**  
[13] A1

[51] **Int.Cl. A01M 1/02 (2006.01) A01M 23/00 (2006.01)**  
[25] EN  
[54] **PEST CONTROL SYSTEM HAVING EVENT MONITORING**  
[54] **SYSTEME DE LUTTE CONTRE LES NUISIBLES PERMETTANT UNE SURVEILLANCE D'EVENEMENT**  
[72] TRIVENTI, JOE, CA  
[72] BONDARENKO, VOLODIMIR, CA  
[72] SINGH, GAVIN, CA  
[72] RECENO, CLEMENTE, CA  
[72] ZOSIMADIS, PETER, CA  
[72] ZOSIMADIS, MIKE, CA  
[72] HUNT, ANDREW, CA  
[71] SMART WAVE TECHNOLOGIES, INC., CA  
[85] 2020-12-24  
[86] 2019-06-27 (PCT/IB2019/055473)  
[87] (WO2020/003211)  
[30] US (62/692,453) 2018-06-29

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[21] **3,105,281**  
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 31/713 (2006.01) A61K 45/06 (2006.01) A61K 47/02 (2006.01) A61K 47/26 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**

[25] EN  
[54] **COMPLEX FOR ENHANCING IMMUNE RESPONSE**  
[54] **COMPLEXE POUR AMELIORER UNE REPOSE IMMUNITAIRE**

[72] LIN, HAIXIANG, CN  
[72] LIU, FANG, CN  
[72] ZHA, LI, CN  
[71] XINFU (BEIJING) MEDICAL TECHNOLOGY CO., LTD., CN  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/CN2019/093558)  
[87] (WO2020/001587)  
[30] CN (201810700708.6) 2018-06-29  
[30] CN (201810698033.6) 2018-06-29

[21] **3,105,282**  
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01) A61B 17/32 (2006.01) A61B 18/00 (2006.01) A61B 18/14 (2006.01) A61M 25/01 (2006.01) A61N 7/02 (2006.01)**

[25] EN  
[54] **CATHETER ULTRASOUND TRANSDUCER CONTAINER**  
[54] **RECIPIENT DE TRANSDUCTEUR ULTRASONORE DE CATHETER**

[72] SELA, RAN, IL  
[72] MEGEL, YURI, IL  
[72] ECKHOUSE, SHIMON, IL  
[71] HEALIUM MEDICAL, IL  
[85] 2020-12-28  
[86] 2019-08-22 (PCT/IL2019/050941)  
[87] (WO2020/039442)  
[30] US (62/720,995) 2018-08-22

[21] **3,105,283**  
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 31/713 (2006.01) A61K 45/06 (2006.01) A61K 47/02 (2006.01) A61K 47/26 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**

[25] EN  
[54] **METHOD FOR PREPARING COMPOSITE FOR ENHANCING IMMUNE RESPONSE**  
[54] **PROCEDE DE PREPARATION D'UN COMPOSITE PERMETTANT D'AMELIORER LA REPOSE IMMUNITAIRE**

[72] LIN, HAIXIANG, CN  
[72] LIU, FANG, CN  
[72] ZHA, LI, CN  
[71] XINFU (BEIJING) MEDICAL TECHNOLOGY CO., LTD., CN  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/CN2019/093607)  
[87] (WO2020/001596)  
[30] CN (201810698033.6) 2018-06-29  
[30] CN (201810700708.6) 2018-06-29

[21] **3,105,284**  
[13] A1

[51] **Int.Cl. F04B 11/00 (2006.01) F04B 39/00 (2006.01) F04B 43/02 (2006.01)**

[25] EN  
[54] **CELLULAR TUBE FOR REPLACEMENT OF TRADITIONAL GAS-CHARGED CARTRIDGES IN SUCTION STABILIZERS**  
[54] **TUBE CELLULAIRE POUR LE REMPLACEMENT DE CARTOUCHES CHARGES DE GAZ CLASSIQUES DANS DES STABILISATEURS D'ASPIRATION**

[72] ROGERS, JOHN THOMAS, US  
[71] PERFORMANCE PULSATION CONTROL, INC., US  
[85] 2020-12-24  
[86] 2019-07-30 (PCT/US2019/044225)  
[87] (WO2020/028421)  
[30] US (62/711,942) 2018-07-30

[21] **3,105,285**  
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/31 (2006.01)**

[25] EN  
[54] **A ROTATIONAL LOCKING TYPE SAFETY INSULIN PEN NEEDLE**  
[54] **UNE AIGUILLE DE STYLO A INSULINE SECURITAIRE A VERROUILLAGE ROTATIONNEL**

[72] SHI, GUOPING, CN  
[72] HORSTMAN, ANTHONY SCOTT, CN  
[71] SANDSTONE MEDICAL (SUZHOU) INC., CN  
[85] 2020-12-29  
[86] 2019-06-29 (PCT/CN2019/094029)  
[87] (WO2020/001655)

[21] **3,105,286**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01) A61P 31/18 (2006.01) A61P 31/22 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN  
[54] **PYRIDOPYRIMIDINE DERIVATIVE, PREPARATION METHOD THEREFOR AND MEDICAL USE THEREOF**  
[54] **DERIVE DE PYRIDOPYRIMIDINE, SON PROCEDE DE PREPARATION ET SON UTILISATION MEDICALE**

[72] ZHANG, GUOBAO, CN  
[72] CHEN, YIQIAN, CN  
[72] HE, FENG, CN  
[72] TAO, WEIKANG, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/CN2019/094310)  
[87] (WO2020/007275)  
[30] CN (201810717585.7) 2018-07-03  
[30] CN (201811317059.8) 2018-11-07

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[51] **Int.Cl. A63F 9/24 (2006.01) A63F 13/00 (2014.01) G07F 17/32 (2006.01)**  
[25] EN  
[54] **GAMING APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE DE JEU**  
[72] EID, LINDA MAREE, AU  
[72] ROACH, NICK, AU  
[71] AMERSON GLOBAL GAMING PTY LTD, AU  
[85] 2020-12-29  
[86] 2018-07-03 (PCT/AU2018/050689)  
[87] (WO2019/006502)  
[30] AU (2017902573) 2017-07-03

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[21] **3,105,288**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 5/04 (2006.01)**  
[25] EN  
[54] **PLANT REGULATORY ELEMENTS AND USES THEREOF**  
[54] **ELEMENTS REGULATEURS DE PLANTES ET LEURS UTILISATIONS**  
[72] DAVIS, IAN W., US  
[72] SHARIFF, AABID, US  
[71] MONSANTO TECHNOLOGY LLC, US  
[85] 2020-12-24  
[86] 2019-08-02 (PCT/US2019/044845)  
[87] (WO2020/028773)  
[30] US (62/714,228) 2018-08-03

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[13] A1

[51] **Int.Cl. F42D 1/08 (2006.01) B66F 9/00 (2006.01) F42B 39/30 (2006.01)**  
[25] EN  
[54] **A MINING VEHICLE**  
[54] **VEHICULE D'EXPLOITATION MINIERE**  
[72] OLIVER, JAMES THOMAS, AU  
[72] SPRAGUE, ANTHONY JAMES, AU  
[71] NEWCREST MINING LIMITED, AU  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/AU2019/050689)  
[87] (WO2020/000057)  
[30] AU (2018902374) 2018-06-29

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[21] **3,105,291**  
[13] A1

[51] **Int.Cl. B03B 5/62 (2006.01)**  
[25] EN  
[54] **GRAVITY SEPARATION APPARATUS AND METHOD FOR COARSE COAL SLIME**  
[54] **APPAREIL ET PROCEDE DE SEPARATION PAR GRAVITE POUR BOUE DE CHARBON GROSSIER**  
[72] GUI, XIAHUI, CN  
[72] WANG, DONGYUE, CN  
[72] DING, SHIHAO, CN  
[72] XING, YAOWEN, CN  
[72] CAO, YIJUN, CN  
[72] LIU, JIONGTIAN, CN  
[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN  
[85] 2020-12-29  
[86] 2019-09-20 (PCT/CN2019/106919)  
[87] (WO2020/164241)  
[30] CN (201910113274.4) 2019-02-12

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[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR ASSESSING PROLIFERATIVE POTENTIAL AND RESISTANCE TO IMMUNE CHECKPOINT BLOCKADE**  
[54] **PROCEDES ET SYSTEMES D'EVALUATION DU POTENTIEL DE PROLIFERATION ET DE LA RESISTANCE AU BLOCAGE DE POINT DE CONTROLE IMMUNITAIRE**  
[72] MORRISON, CARL, US  
[72] PABLA, SARABJOT, US  
[72] CONROY, JEFFREY, US  
[72] GLENN, SEAN, US  
[71] OMNISEQ, INC., US  
[85] 2020-12-24  
[86] 2019-08-09 (PCT/US2019/045962)  
[87] (WO2020/033866)  
[30] US (62/717,379) 2018-08-10

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[13] A1

[51] **Int.Cl. A01K 1/01 (2006.01) A01K 1/015 (2006.01)**  
[25] EN  
[54] **WETTING WALL DEVICE FOR PETS**  
[54] **DISPOSITIF DE PAROI A ALESES POUR ANIMAUX DE COMPAGNIE**  
[72] COURCHESNE, ALAIN, CA  
[71] COURCHESNE, ALAIN, CA  
[85] 2020-12-22  
[86] 2019-06-25 (PCT/CA2019/000096)  
[87] (WO2019/241874)  
[30] US (62/688,833) 2018-06-22

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[51] <b>Int.Cl. C07D 279/28 (2006.01) A61K 31/5415 (2006.01) A61P 35/00 (2006.01) C07D 417/12 (2006.01)</b>	[51] <b>Int.Cl. A23L 33/105 (2016.01) A23K 20/10 (2016.01) A23K 20/111 (2016.01) A23L 13/40 (2016.01) A23L 15/00 (2016.01) A23L 17/00 (2016.01) A23L 3/3499 (2006.01) A61K 36/53 (2006.01) A61K 36/537 (2006.01)</b>	[51] <b>Int.Cl. G01N 27/12 (2006.01) G01N 33/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>NUPRI INHIBITION FOR TREATING CANCER</b>	[54] <b>TAXODIONE FOR ITS USE FOR PROTECTING MUSCLE AND MEAT FROM OXIDATION</b>	[54] <b>METHOD FOR MEASURING NITROGEN OXIDES AND DEVICE FOR CARRYING OUT THE METHOD</b>
[54] <b>INHIBITION DE LA NUPRI POUR LE TRAITEMENT DU CANCER</b>	[54] <b>TAXODIONE DESTINE A ETRE UTILISE POUR LA PROTECTION DU MUSCLE ET DE LA VIANDE CONTRE L'OXYDATION</b>	[54] <b>PROCEDE DE MESURE D'OXYDES D'AZOTE ET DISPOSITIF PERMETTANT LA MISE EN OEUVRE DU PROCEDE</b>
[72] ABIAN FRANCO, OLGA, ES	[72] SAINT, NATHALIE, FR	[72] MOOS, RALF, DE
[72] SANTOFIMIA, PATRICIA, FR	[72] RAPIOR, SYLVIE, FR	[72] HAGEN, GUNTER, DE
[72] XIA, YI, CN	[72] VITOU, MANON, FR	[72] KITA, JAROSLAW, DE
[72] NEIRA, JOSE LUIS, ES	[72] BOUGUET, GUILLAUME, FR	[72] LATTUS, JULIA, DE
[72] RIZZUTI, BRUNO, IT	[72] CARNAC, GILLES, FR	[72] BLEICKER, DIRK, DE
[72] VELAZQUEZ CAMPOY, ADRIAN, ES	[72] MOREL, SYLVIE, FR	[72] NOACK, FRANK, DE
[72] PENG, LING, FR	[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR	[72] WOHLRAB, JULIA, DE
[72] IOVANNA, JUAN, FR	[71] UNIVERSITE DE MONTPELLIER, FR	[71] CPK AUTOMOTIVE GMBH & CO. KG, DE
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR	[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR	[85] 2020-12-29
[71] FUNDACION AGENCIA ARAGONESA PARA LA INVESTIGACION Y EL DESARROLLO (ARAID), ES	[71] ECOLE PRATIQUE DES HAUTES ETUDES, FR	[86] 2019-06-27 (PCT/EP2019/067243)
[71] MIGUEL HERNANDEZ UNIVERSITY OF ELCHE, ES	[71] UNIVERSITE MONTPELLIER III PAUL VALERY, FR	[87] (WO2020/002549)
[71] FUNDACION INSTITUTO DE INVESTIGACION SANITARIA ARAGON, ES	[71] INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT, FR	[30] DE (10 2018 115 623.5) 2018-06-28
[71] CHONGQING UNIVERSITY, CN	[71] FLORE EN THYM, FR	
[71] INSTITUT JEAN PAOLI & IRENE CALMETTES, FR	[85] 2020-12-29	[21] <b>3,105,301</b> [13] A1
[71] UNIVERSITE D'AIX-MARSEILLE, FR	[86] 2019-07-03 (PCT/EP2019/067814)	[51] <b>Int.Cl. A22C 7/00 (2006.01) A23P 30/10 (2016.01)</b>
[71] UNIVERSITY OF ZARAGOZA, ES	[87] (WO2020/007895)	[25] EN
[71] INSTITUTO ARAGONES DE CIENCAS DE LA SALUD-ARAGON INSTITUTE OF HEALTH SCIENCES, ES	[30] EP (18305871.8) 2018-07-03	[54] <b>MACHINE FOR MAKING RISSOLES</b>
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR		[54] <b>MACHINE DE FABRICATION DE RISSOLES</b>
[71] CONSIGLIO NAZIONALE DELLE RICERCHE-NATIONAL RESEARCH COUNCIL ITALY, IT	[21] <b>3,105,299</b> [13] A1	[72] SALATI CHIODINI, DANIELE, IT
[85] 2020-12-29	[51] <b>Int.Cl. G16C 20/10 (2019.01) G16C 20/70 (2019.01)</b>	[72] SALATI CHIODINI, ANDREA, IT
[86] 2019-05-31 (PCT/EP2019/064184)	[25] EN	[71] MINERVA OMEGA GROUP S.R.L., IT
[87] (WO2019/229236)	[54] <b>MACHINE LEARNING APPRENTISSAGE AUTOMATIQUE</b>	[85] 2020-12-29
[30] EP (18305672.0) 2018-05-31	[72] CRONIN, LEROY, GB	[86] 2019-07-04 (PCT/EP2019/068051)
	[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASCOW, GB	[87] (WO2020/008014)
	[85] 2020-12-29	[30] IT (102018000006923) 2018-07-04
	[86] 2019-07-04 (PCT/EP2019/067948)	
	[87] (WO2020/007962)	
	[30] GB (1810944.7) 2018-07-04	

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[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR ENHANCING THE SUPPRESSIVE PROPERTIES OF TREG CELLS**  
[54] **METHODE PERMETTANT D'AMELIORER LES PROPRIETES SUPPRESSIVES DE LYMPHOCYTES TREG**  
[72] STAUSS, HANS, GB  
[72] MCGOVERN, JENNY L., GB  
[71] UCL BUSINESS LTD, GB  
[85] 2020-10-15  
[86] 2019-04-17 (PCT/GB2019/051098)  
[87] (WO2019/202323)  
[30] GB (1806331.3) 2018-04-18  
[30] GB (1806330.5) 2018-04-18

[21] **3,105,304**  
[13] A1

[51] **Int.Cl. B62K 11/00 (2013.01) A61G 5/04 (2013.01)**  
[25] EN  
[54] **PROPULSION SYSTEM FOR CARTS TYPE VEHICLES BY USING A SELF-BALANCING SCOOTER COUPLED BY MEANS OF AN ARTICULATED STRUCTURE**  
[54] **SYSTEME DE PROPULSION POUR VEHICULES DE TYPE CHARIOTS EN UTILISANT UNE PLANCHE ROULANTE AUTO-EQUILIBREE COUPLEE AU MOYEN D'UNE STRUCTURE ARTICULEE**  
[72] CARRASCO VERGARA, PABLO, ES  
[72] GARCIA ROMERO, MARIA DEL CARMEN, ES  
[72] MACIAS VECINO, MANUEL ANTONIO, ES  
[71] GENIUS EMOBILITY SYSTEMS S.L., ES  
[85] 2020-12-29  
[86] 2019-07-04 (PCT/EP2019/068056)  
[87] (WO2020/008018)  
[30] ES (P201830676) 2018-07-05

[21] **3,105,305**  
[13] A1

[51] **Int.Cl. F16L 9/04 (2006.01) B32B 1/08 (2006.01) B32B 5/12 (2006.01) B32B 5/26 (2006.01) B32B 5/28 (2006.01) B32B 15/085 (2006.01) B32B 15/095 (2006.01) B32B 15/18 (2006.01) B32B 27/12 (2006.01) B32B 27/32 (2006.01) B32B 27/40 (2006.01)**  
[25] EN  
[54] **COATED PIPE AND PIPE COMBINATION**  
[54] **TUYAU GAINE ET ASSEMBLAGE DE TUYAUX**  
[72] WELKER, DANIEL, CH  
[71] TDC INTERNATIONAL AG, CH  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/EP2019/067449)  
[87] (WO2020/002660)  
[30] DE (10 2018 115 846.7) 2018-06-29

[21] **3,105,307**  
[13] A1

[51] **Int.Cl. B01D 53/18 (2006.01)**  
[25] FR  
[54] **REACTOR FOR PURIFYING A GAS FLOW AND UNIT COMPRISING SUCH A REACTOR**  
[54] **REACTEUR POUR L'EPURATION D'UN FLUX GAZEUX ET INSTALLATION COMPRENANT UN TEL REACTEUR**  
[72] SCHMIDT, REGIS, FR  
[71] COCKERILL MAINTENANCE & INGENIERIE SA, BE  
[85] 2020-12-29  
[86] 2019-07-10 (PCT/EP2019/068625)  
[87] (WO2020/011894)  
[30] FR (1856448) 2018-07-12

[21] **3,105,309**  
[13] A1

[51] **Int.Cl. G06K 9/20 (2006.01) G06K 9/46 (2006.01)**  
[25] EN  
[54] **COMPUTER VISION SYSTEMS AND METHODS FOR MODELING THREE DIMENSIONAL STRUCTURES USING TWO-DIMENSIONAL SEGMENTS DETECTED IN DIGITAL AERIAL IMAGES**  
[54] **SYSTEMES DE VISION ARTIFICIELLE ET PROCEDES DE MODELISATION DE STRUCTURES TRIDIMENSIONNELLES A L'AIDE DE SEGMENTS BIDIMENSIONNELS DETECTES DANS DES IMAGES AERIENNES NUMERIQUES**  
[72] ESTEBAN, JOSE LUIS, ES  
[72] CABIDO, RAUL, ES  
[72] RIVAS, FRANCISCO, ES  
[71] GEOMNI, INC., US  
[85] 2020-12-22  
[86] 2019-07-01 (PCT/US2019/040092)  
[87] (WO2020/006551)  
[30] US (62/691,869) 2018-06-29

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[13] A1

[51] **Int.Cl. A01K 59/06 (2006.01) A01K 59/04 (2006.01) B30B 9/14 (2006.01) C11B 1/10 (2006.01)**  
[25] EN  
[54] **SUPERCHARGER FOR FEEDING HONEY AND BEESWAX MIXTURE INTO A HONEY AND BEESWAX SEPARATION SCREW**  
[54] **COMPRESSEUR D'ALIMENTATION POUR L'INTRODUCTION DE MIEL ET DE MELANGE DE CIRE D'ABEILLE DANS UNE VIS DE SEPARATION DE MIEL ET DE CIRE D'ABEILLE**  
[72] VAARA, JUHANI, FI  
[71] PARADISE HONEY OY, FI  
[85] 2020-12-29  
[86] 2019-06-27 (PCT/FI2019/050509)  
[87] (WO2020/002777)  
[30] FI (U20180099) 2018-06-27

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[13] A1  
[51] **Int.Cl. C08F 297/04 (2006.01) A61J 1/10 (2006.01) B32B 27/30 (2006.01) B65D 65/40 (2006.01) C08L 23/10 (2006.01) C08L 53/02 (2006.01)**  
[25] EN  
[54] **HYDROGENATED BLOCK COPOLYMER**  
[54] **COPOLYMER SEQUENCE HYDROGENE**  
[72] TAKAHASHI, NAOTO, JP  
[72] NOJIMA, YUSUKE, JP  
[71] KURARAY CO., LTD., JP  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/JP2019/025862)  
[87] (WO2020/004631)  
[30] JP (2018-125338) 2018-06-29  
[30] JP (2018-245574) 2018-12-27

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[21] **3,105,314**  
[13] A1  
[51] **Int.Cl. G01N 21/59 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DETECTING PARTICLE ACCUMULATION ON A SURFACE**  
[54] **SYSTEME ET PROCEDE DE DETECTION DE L'ACCUMULATION DE PARTICULES SUR UNE SURFACE**  
[72] NOEL, GERARD, CA  
[71] 9260-2366 QUEBEC INC., CA  
[85] 2020-12-29  
[86] 2019-07-09 (PCT/CA2019/050943)  
[87] (WO2020/010450)  
[30] US (62/697,450) 2018-07-13

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[21] **3,105,315**  
[13] A1  
[51] **Int.Cl. A61B 5/05 (2021.01) A61B 5/00 (2006.01)**  
[25] EN  
[54] **FAT BURNING MONITORING**  
[54] **SURVEILLANCE DE LA COMBUSTION DE GRAISSE**  
[72] TAYLOR, GEOFFREY LOCKE, CA  
[71] 1625986 ONTARIO LIMITED, CA  
[85] 2020-12-29  
[86] 2020-06-18 (PCT/CA2020/050844)  
[87] (WO2020/252580)  
[30] US (62/864,827) 2019-06-21

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[21] **3,105,316**  
[13] A1  
[51] **Int.Cl. H04W 72/04 (2009.01)**  
[25] EN  
[54] **METHOD FOR TRANSMITTING DATA IN INTERNET OF VEHICLES, AND TERMINAL DEVICE**  
[54] **PROCEDE DE TRANSMISSION DE DONNEES DANS L'INTERNET DES VEHICULES, ET DISPOSITIF TERMINAL**  
[72] LU, QIANXI, CN  
[72] LIN, HUEI-MING, AU  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-12-29  
[86] 2018-07-05 (PCT/CN2018/094681)  
[87] (WO2020/006737)

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[13] A1  
[51] **Int.Cl. A61K 8/9706 (2017.01) A61P 3/04 (2006.01) C12P 7/20 (2006.01)**  
[25] EN  
[54] **COMPOSITION WITH INHIBITING FAT FORMATION AND ANTIOXIDATIVE ACTIVITIES AND USE THEREOF**  
[54] **COMPOSITION A INHIBITION DE LA FORMATION DE GRAISSE ET ACTIVITES ANTIOXYDANTES ET SON UTILISATION**  
[72] HUANG, FUHSING, CN  
[71] HUANG, FUHSING, CN  
[85] 2020-12-29  
[86] 2018-08-10 (PCT/CN2018/099822)  
[87] (WO2020/029221)

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[13] A1  
[51] **Int.Cl. F41A 33/00 (2006.01) A63F 13/211 (2014.01) A63F 13/22 (2014.01) A63F 13/245 (2014.01) A63F 13/837 (2014.01) F41G 3/26 (2006.01)**  
[25] EN  
[54] **FIREARM SIMULATION ARRANGEMENT FOR A VIRTUAL REALITY SYSTEM**  
[54] **AGENCEMENT DE SIMULATION D'ARME A FEU POUR UN SYSTEME DE REALITE VIRTUELLE**  
[72] PURVIS, CHRISTOPHER, US  
[71] DREAMSCAPE IMMERSIVE, INC., US  
[85] 2020-12-29  
[86] 2019-06-27 (PCT/IB2019/055470)  
[87] (WO2020/008307)  
[30] US (62/693,041) 2018-07-02

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[21] **3,105,319**  
[13] A1  
[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **TRANSCATHETER ARTIFICIAL CUSP FOR VALVE INSUFFICIENCY**  
[54] **CUSPIDE ARTIFICIELLE TRANSCATHETER POUR INSUFFISANCE VALVULAIRE**  
[72] FELD, YAIR, IL  
[71] CUSPA LTD., IL  
[85] 2020-12-29  
[86] 2019-07-28 (PCT/IL2019/050853)  
[87] (WO2020/026234)  
[30] US (62/711,532) 2018-07-29

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[21] **3,105,321**  
[13] A1

[51] **Int.Cl. B07C 5/342 (2006.01)**  
[25] EN  
[54] **METHOD, DEVICE AND COMPUTER PROGRAM FOR MANAGEMENT OF UNITS OF BULK MATERIAL**

[54] **PROCEDE ET DISPOSITIF POUR LA GESTION D'UNITES D'UN PRODUIT EN VRAC AINSI QUE PROGRAMME INFORMATIQUE**

[72] DIRSCHERL, CHRISTIAN, DE  
[72] FODOR, DAN NICULAE, DE  
[72] HELLMUTH, TORSTEN, DE  
[72] TITZ, HOLGER, DE  
[71] SIEMENS AKTIENGESSELLSCHAFT, DE  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/EP2019/067708)  
[87] (WO2020/007846)  
[30] EP (18181988.9) 2018-07-05

[21] **3,105,322**  
[13] A1

[51] **Int.Cl. E21B 33/035 (2006.01) E21B 43/01 (2006.01)**  
[25] EN  
[54] **APPARATUS, METHOD, AND PROGRAM FOR ESTIMATING A STATE OF A NATURAL RESOURCE TO BE EXTRACTED**

[54] **APPAREIL, PROCEDE, ET PROGRAMME POUR ESTIMER UN ETAT D'UNE RESSOURCE NATURELLE A EXTRAIRE**

[72] HIDAKA, YOSHIHISA, JP  
[72] OKABE, NOBUO, JP  
[72] YOSHIMA, NAOKI, JP  
[71] YOKOGAWA ELECTRIC CORPORATION, JP  
[85] 2020-12-29  
[86] 2019-07-08 (PCT/JP2019/027061)  
[87] (WO2020/013146)  
[30] JP (2018-133509) 2018-07-13

[21] **3,105,323**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G06T 19/00 (2011.01)**  
[25] EN  
[54] **A SYSTEM AND A METHOD TO CREATE EXTENDED REALITY USING WEARABLES AND VIRTUAL ENVIRONMENT SET**

[54] **SYSTEME ET PROCEDE POUR CREER UNE REALITE ETENDUE A L'AIDE DE DISPOSITIFS PORTABLES ET D'UN ENSEMBLE D'ENVIRONNEMENTS VIRTUELS**

[72] BOTTA, RAMA KRISHNA ARAVIND, IN  
[71] BOTTA, RAMA KRISHNA ARAVIND, IN  
[85] 2020-12-29  
[86] 2019-06-29 (PCT/IB2019/055538)  
[87] (WO2020/003253)  
[30] IN (201841024357) 2018-06-29

[21] **3,105,325**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04W 12/00 (2021.01) G06F 21/55 (2013.01)**  
[25] EN  
[54] **DYNAMIC SEGMENTATION MANAGEMENT**

[54] **GESTION DE SEGMENTATION DYNAMIQUE**

[72] FAINBERG, ILYA, US  
[72] KURMAN, MARK, US  
[72] BAR, DAVID, US  
[71] FORESCOUT TECHNOLOGIES, INC., US  
[85] 2020-12-29  
[86] 2019-06-07 (PCT/US2019/036106)  
[87] (WO2020/005504)  
[30] US (16/023,284) 2018-06-29

[21] **3,105,326**  
[13] A1

[51] **Int.Cl. C12N 9/82 (2006.01) A61K 38/50 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C12N 15/55 (2006.01) C12N 15/66 (2006.01)**  
[25] EN  
[54] **POLYPEPTIDE WITH ASPARAGINASE ACTIVITY, EXPRESSION CASSETTE, EXPRESSION VECTOR, HOST CELL, PHARMACEUTICAL COMPOSITION, METHODS FOR PRODUCING A POLYPEPTIDE WITH ASPARAGINASE ACTIVITY AND FOR PREVENTING OR TREATING CANCER, AND USE OF A POLYPEPTIDE**

[54] **POLYPEPTIDE A ACTIVITE ASPARAGINASE, CASSETTE D'EXPRESSION, VECTEUR D'EXPRESSION, CELLULE HOTE, COMPOSITION PHARMACEUTIQUE, PROCEDES POUR PRODUIRE UN POLYPEPTIDE A ACTIVITE ASPARAGINASE ET POUR PREVENIR OU TRAITER LE CANCER, ET UTILISATION D'UN POLYPEPTIDE**

[72] DE SOUZA, TATIANA DE ARRUDA CAMPOS BRASIL, BR  
[72] ZANCHIN, NILSON IVO TONIN, BR  
[72] DE MORAIS, STEPHANIE BATH, BR  
[71] FUNDACAO OSWALDO CRUZ, BR  
[85] 2020-07-16  
[86] 2019-01-18 (PCT/BR2019/050017)  
[87] (WO2019/140501)  
[30] BR (BR1020180010336) 2018-01-18

[21] **3,105,327**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01) H04W 84/12 (2009.01) H04W 92/18 (2009.01)**  
[25] EN  
[54] **COMMUNICATION DEVICE DISPOSITIF DE COMMUNICATION**

[72] HUANG, LEI, JP  
[72] MOTOZUKA, HIROYUKI, JP  
[72] SAKAMOTO, TAKENORI, JP  
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US  
[85] 2020-12-29  
[86] 2019-09-24 (PCT/JP2019/037356)  
[87] (WO2020/095557)  
[30] JP (2018-211656) 2018-11-09



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[21] **3,105,328**  
[13] A1

[51] **Int.Cl. C07D 319/12 (2006.01) C07B 61/00 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) A61K 31/444 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING DIARYLPYRIDINE DERIVATIVES**

[54] **PROCEDE DE PRODUCTION DE DERIVES DE DIARYLPYRIDINE**

[72] AKI, YUICHI, JP

[72] TORIYAMA, FUMIHIKO, JP

[72] SAKURAI, NATSUKI, JP

[72] KAMEDA, AI, JP

[72] OGURA, TOMOKAZU, JP

[71] DAIICHI SANKYO COMPANY, LIMITED, JP

[85] 2020-12-29

[86] 2019-07-03 (PCT/JP2019/026395)

[87] (WO2020/009132)

[30] JP (2018-127197) 2018-07-04

[21] **3,105,329**  
[13] A1

[51] **Int.Cl. A47L 13/16 (2006.01) A47L 13/10 (2006.01) A47L 13/17 (2006.01)**

[25] EN

[54] **NON-SCRATCH COMPOSITION AND ABRASIVE CLEANING ARTICLE**

[54] **COMPOSITION ANTI-RAYURES ET ARTICLE DE NETTOYAGE ABRASIF**

[72] SCHMALL, KAYLEE R., US

[72] TRUONG, MYHANH T., US

[72] ZHANG, YIFAN, US

[72] BAIRD, DAVID G., US

[72] BOLUKBASI, IREM, US

[72] BRYSON, KYLE C., US

[72] TAN, LYLIEN, US

[71] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2020-11-10

[86] 2019-04-29 (PCT/IB2019/053486)

[87] (WO2019/215539)

[30] US (62/669,797) 2018-05-10

[21] **3,105,330**  
[13] A1

[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **INTERACTION BETWEEN LUT AND AMVP**

[54] **INTERACTION ENTRE TABLE DE CONVERSION ET AMVP**

[72] ZHANG, LI, US

[72] ZHANG, KAI, US

[72] LIU, HONGBIN, CN

[72] WANG, YUE, CN

[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN

[71] BYTEDANCE INC., US

[85] 2020-12-29

[86] 2019-07-01 (PCT/IB2019/055595)

[87] (WO2020/003284)

[30] CN (PCT/CN2018/093663) 2018-06-29

[30] CN (PCT/CN2018/105193) 2018-09-12

[30] CN (PCT/CN2019/072058) 2019-01-16

[21] **3,105,331**  
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/20 (2018.01) A01H 5/10 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **CANOLA WITH HIGH OLEIC ACID**

[54] **COLZA A FORTE TENEUR EN ACIDE OLEIQUE**

[72] ZHANG, WENZHENG, US

[72] ZHANG, FENG, US

[71] CELLECTIS, FR

[85] 2020-12-29

[86] 2019-07-09 (PCT/IB2019/055853)

[87] (WO2020/012365)

[30] US (62/695,388) 2018-07-09

[21] **3,105,332**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A01N 43/54 (2006.01) A01P 7/04 (2006.01)**

[25] EN

[54] **URACIL COMPOUND AND HARMFUL ARTHROPOD PEST CONTROL COMPOSITION CONTAINING SAME**

[54] **COMPOSE URACILE ET COMPOSITION DE LUTTE CONTRE LES ARTHROPODES NUISIBLES LE CONTENANT**

[72] TORIUMI, TATSUYA, JP

[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP

[85] 2020-12-29

[86] 2019-07-04 (PCT/JP2019/026691)

[87] (WO2020/009194)

[30] JP (2018-128122) 2018-07-05

[21] **3,105,333**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMBINATION THERAPIES AGAINST CANCER TARGETING CD38 AND TGF-BETA**

[54] **POLYTHERAPIES ANTICANCEREUSES CIBLANT CD38 ET TGF-BETA**

[72] ADRIAN, FRANCISCO, US

[72] GREGORY, RICHARD C., US

[72] SHAPIRO, GARY, US

[72] VAN DE VELDE, HELGI, US

[71] SANOFI, FR

[85] 2020-12-29

[86] 2019-07-10 (PCT/IB2019/055885)

[87] (WO2020/012383)

[30] US (62/696,198) 2018-07-10

[30] EP (19305470.7) 2019-04-11

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[21] <b>3,105,334</b> [13] A1	[21] <b>3,105,335</b> [13] A1	[21] <b>3,105,337</b> [13] A1
<p>[51] <b>Int.Cl. B01J 20/28 (2006.01) B01J 20/26 (2006.01) D04H 1/72 (2012.01) G01N 30/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>NANOFIBER AGGREGATE FOR FAT ADSORPTION, METHOD FOR ESTIMATING FAT ADSORPTION RATE OF NANOFIBER AGGREGATE FOR FAT ADSORPTION, AND METHOD FOR ESTIMATING VOLUME OF NANOFIBER AGGREGATE FOR FAT ADSORPTION FOLLOWING FAT ADSORPTION</b></p> <p>[54] <b>AGREGAT DE NANOFIBRES POUR ADSORPTION DE GRAISSE, PROCEDE D'ESTIMATION DE TAUX D'ADSORPTION DE GRAISSE D'AGREGAT DE NANOFIBRES POUR ADSORPTION DE GRAISSE, ET PROCEDE D'ESTIMATION DE VOLUME D'AGREGAT DE NANOFIBRES POUR L'ADSORPTION DE GRAISSE SUITE A L'ADSORPTION DE GRAISSE</b></p> <p>[72] SOTA, HIROYOSHI, JP [72] IKEGAYA, MORIHIKO, JP [72] URABE, KENICHI, JP [72] ECHIZENYA, TAKATSUGU, JP [72] HIROGAKI, TOSHIKI, JP [72] WU, WEI, JP [72] ISHII, YOSHIAKI, JP [71] M-TECHX INC., JP [85] 2020-12-29 [86] 2018-06-28 (PCT/JP2018/024743) [87] (WO2019/004407) [30] US (62/527,761) 2017-06-30</p>	<p>[51] <b>Int.Cl. G06Q 30/00 (2012.01)</b></p> <p>[25] EN</p> <p>[54] <b>SENSOR FUSION FOR TRANSIT APPLICATIONS</b></p> <p>[54] <b>FUSION DE CAPTEURS DESTINEE A DES APPLICATIONS DE TRANSPORT</b></p> <p>[72] BERGDAL, MICAH, US [72] DONOVAN, EDWARD, US [72] O'HAIRE, MICHAEL, US [72] IHM, NICHOLAS, US [72] SMITH, ROSS, US [71] BYTEMARK, INC., US [85] 2020-09-16 [86] 2018-10-22 (PCT/US2018/056829) [87] (WO2019/182646) [30] US (15/927,305) 2018-03-21</p> <hr/> <p style="text-align: center;">[21] <b>3,105,336</b> [13] A1</p> <p>[51] <b>Int.Cl. G10K 11/162 (2006.01) B32B 5/26 (2006.01) B60R 13/08 (2006.01) G10K 11/168 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FIBER AGGREGATE FOR SOUND INSULATION, SOUND ABSORBING/INSULATING MATERIAL, AND SOUND ABSORBING/INSULATING MATERIAL FOR VEHICLE</b></p> <p>[54] <b>AGREGAT DE FIBRES POUR ISOLATION ACOUSTIQUE, MATERIAU D'ABSORPTION/ISOLATION ACOUSTIQUE ET MATERIAU D'ABSORPTION/ISOLATION ACOUSTIQUE POUR VEHICULE</b></p> <p>[72] SOTA, HIROYOSHI, JP [72] IKEGAYA, MORIHIKO, JP [72] URABE, KENICHI, JP [72] ECHIZENYA, TAKATSUGU, JP [72] HIROGAKI, TOSHIKI, JP [72] WU, WEI, JP [72] ISHII, YOSHIAKI, JP [71] M-TECHX INC., JP [85] 2020-12-29 [86] 2018-06-28 (PCT/JP2018/024744) [87] (WO2019/004408) [30] US (62/527,761) 2017-06-30</p>	<p>[51] <b>Int.Cl. A61K 31/428 (2006.01) A61K 31/22 (2006.01) A61K 31/366 (2006.01) A61K 31/40 (2006.01) A61K 31/405 (2006.01) A61K 31/47 (2006.01) A61K 31/505 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>STATIN COMPOSITIONS AND METHODS FOR USE IN TREATING SYNUCLEINOPATHIES</b></p> <p>[54] <b>COMPOSITIONS A BASE DE STATINE ET PROCEDES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE SYNUCLEINOPATHIES</b></p> <p>[72] CHASE, THOMAS N., US [72] CLARENCE-SMITH, KATHLEEN E., US [71] CHASE THERAPEUTICS CORPORATION, US [85] 2020-12-29 [86] 2018-07-03 (PCT/US2018/040665) [87] (WO2019/010146) [30] US (62/528,204) 2017-07-03</p> <hr/> <p style="text-align: center;">[21] <b>3,105,338</b> [13] A1</p> <p>[51] <b>Int.Cl. H04L 12/40 (2006.01) A01B 49/06 (2006.01) H04L 12/10 (2006.01) H04L 12/66 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>EXPANDABLE NETWORK ARCHITECTURE FOR COMMUNICATIONS BETWEEN MACHINES AND IMPLEMENTS</b></p> <p>[54] <b>ARCHITECTURE DE RESEAU EXTENSIBLE POUR DES COMMUNICATIONS ENTRE MACHINES ET EQUIPEMENTS</b></p> <p>[72] ALLGAIER, RYAN, US [72] SCHLIPF, BEN, US [71] PRECISION PLANTING LLC, US [85] 2020-12-29 [86] 2019-08-09 (PCT/IB2019/056793) [87] (WO2020/039295) [30] US (62/721,782) 2018-08-23</p>

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[21] **3,105,339**  
[13] A1

[51] **Int.Cl. H04N 19/587 (2014.01) H04N 19/109 (2014.01) H04N 19/11 (2014.01) H04N 19/176 (2014.01) H04N 19/513 (2014.01) H04N 19/593 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **MERGE MODE-BASED INTER-PREDICTION METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL D'INTER-PREDICTION BASEE SUR UN MODE DE FUSION**

[72] KIM, KI BAEK, KR

[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2020-12-29

[86] 2019-07-01 (PCT/KR2019/007981)

[87] (WO2020/005045)

[30] KR (10-2018-0076177) 2018-06-30

[30] KR (10-2018-0085680) 2018-07-24

[21] **3,105,340**  
[13] A1

[51] **Int.Cl. D21H 27/32 (2006.01) C09J 101/02 (2006.01) C09J 103/00 (2006.01) D21H 11/18 (2006.01) D21H 17/28 (2006.01) D21H 17/29 (2006.01)**

[25] EN

[54] **AN ADHESIVE AND A MULTI PLY PULP PRODUCT BONDED WITH THE ADHESIVE**

[54] **ADHESIF ET PRODUIT PATEUX A JETS MULTIPLES LIE A L'ADHESIF**

[72] NELSON, KIMBERLY, US

[72] RAMASAMY, PUVANESWARI, MY

[72] RANGANATHAN, SIVASANKARI, MY

[71] MYBIOMASS SDN. BHD., MY

[85] 2020-12-29

[86] 2019-02-25 (PCT/MY2019/000007)

[87] (WO2019/226040)

[30] MY (PI 2018702006) 2018-05-24

[21] **3,105,341**  
[13] A1

[51] **Int.Cl. A61K 31/198 (2006.01) A23L 33/15 (2016.01) A23L 33/175 (2016.01) A61K 9/16 (2006.01) A61K 31/401 (2006.01) A61K 31/405 (2006.01) A61K 31/4172 (2006.01) A61K 47/36 (2006.01) A61P 3/02 (2006.01) A61P 3/10 (2006.01) A61P 21/06 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **METHODS OF NORMALIZING AMINO ACID METABOLISM**

[54] **METHODES DE NORMALISATION DU METABOLISME D'ACIDES AMINES**

[72] REINER, ALBERTO, IT

[72] REINER, GIORGIO, IT

[71] APR APPLIED PHARMA RESEARCH S.A., CH

[85] 2020-12-29

[86] 2019-08-17 (PCT/IB2019/056960)

[87] (WO2020/044163)

[30] US (62/725,420) 2018-08-31

[21] **3,105,343**  
[13] A1

[51] **Int.Cl. A61L 31/14 (2006.01) A61L 31/16 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR IN SITU FORMED NERVE CAP**

[54] **PROCEDES ET DISPOSITIFS POUR UN CAPUCHON NERVEUX FORME IN SITU**

[72] BRIGHT, CORINNE, US

[72] REN, YONG, US

[72] MARTIN, KEN, US

[72] KHOSRAVI, FARHAD, US

[72] SAWHNEY, AMARPREET S., US

[71] BRIGHT, CORINNE, US

[71] REN, YONG, US

[71] MARTIN, KEN, US

[71] KHOSRAVI, FARHAD, US

[71] SAWHNEY, AMARPREET S., US

[85] 2020-12-29

[86] 2019-07-02 (PCT/US2019/040429)

[87] (WO2020/010164)

[30] US (62/692,858) 2018-07-02

[30] US (62/822,881) 2019-03-24

[21] **3,105,344**  
[13] A1

[51] **Int.Cl. A41D 13/005 (2006.01)**

[25] EN

[54] **GARMENT FOR REDUCING HOT FLUSHES OR RELIEVING ASSOCIATED SYMPTOMS**

[54] **VETEMENT PERMETTANT DE REDUIRE LES BOUFFEES DE CHALEUR OU DE SOULAGER DES SYMPTOMES ASSOCIES**

[72] VITARANA, RANIL, LK

[72] DUSHYANTHA, MAPITIYAGE DON JANITH, LK

[71] MAS INNOVATION (PRIVATE) LIMITED, LK

[85] 2020-12-29

[86] 2018-10-02 (PCT/SG2018/050498)

[87] (WO2019/070197)

[30] GB (1716031.8) 2017-10-02

[21] **3,105,345**  
[13] A1

[51] **Int.Cl. H04W 80/12 (2009.01) H04W 12/04 (2021.01) G06Q 20/32 (2012.01) G06Q 20/36 (2012.01) G06Q 20/38 (2012.01) H04W 12/30 (2021.01)**

[25] EN

[54] **TOKEN STATE SYNCHRONIZATION**

[54] **SYNCHRONISATION D'ETAT DE JETON**

[72] SHANKAR, RAMESH, US

[72] SULLIVAN, BRIAN, GB

[72] MOHAMMED, SAYEED, US

[72] SHENKER, GAVIN, US

[72] NASSAR, RICHARD, US

[72] VALDEZ, CLYDE, US

[72] HILL, JONATHAN, GB

[71] VISA INTERNATIONAL SERVICE ASSOCIATION, US

[85] 2020-12-29

[86] 2019-07-03 (PCT/US2019/040506)

[87] (WO2020/010203)

[30] US (62/693,631) 2018-07-03

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[21] **3,105,347**  
[13] A1

[51] **Int.Cl. A61M 16/04 (2006.01) A61B 1/267 (2006.01)**  
[25] EN  
[54] **DEVICES AND METHODS FOR INTRODUCING AN ENDOTRACHEAL TUBE**  
[54] **DISPOSITIFS ET PROCEDES POUR L'INTRODUCTION D'UN TUBE ENDOTRACHEAL**  
[72] RUNNELS, SEAN, US  
[72] ROBERGE, WIL, US  
[72] FOGG, BENJAMIN, US  
[71] THROUGH THE CORDS, LLC, US  
[71] RUNNELS, SEAN, US  
[71] ROBERGE, WIL, US  
[71] FOGG, BENJAMIN, US  
[85] 2020-12-29  
[86] 2019-06-25 (PCT/US2019/038986)  
[87] (WO2020/005940)  
[30] US (62/691,983) 2018-06-29

[21] **3,105,348**  
[13] A1

[51] **Int.Cl. A62B 27/00 (2006.01)**  
[25] EN  
[54] **RESPIRATOR FITTING DEVICE AND METHOD**  
[54] **DISPOSITIF ET PROCEDE D'AJUSTEMENT DE RESPIRATEUR**  
[72] GUGINO, MICHAEL, US  
[71] THE GMN GROUP LLC, US  
[85] 2020-12-29  
[86] 2019-06-27 (PCT/US2019/039402)  
[87] (WO2020/006171)  
[30] US (62/691,485) 2018-06-28  
[30] US (62/733,290) 2018-09-19  
[30] US (62/782,684) 2018-12-20

[21] **3,105,349**  
[13] A1

[51] **Int.Cl. C12Q 1/6827 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6883 (2018.01) C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **SIZE-TAGGED PREFERRED ENDS AND ORIENTATION-AWARE ANALYSIS FOR MEASURING PROPERTIES OF CELL-FREE MIXTURES**  
[54] **EXTREMITES PREFEREES ETIQUETTES PAR TAILLE ET ANALYSE SENSIBLE A L'ORIENTATION POUR MESURES DES PROPRIETES DE MELANGES SANS CELLULE**  
[72] LO, YUK-MING DENNIS, CN  
[72] CHIU, ROSSA WAI KWUN, CN  
[72] CHAN, KWAN CHEE, CN  
[72] JIANG, PEIYONG, CN  
[72] SUN, KUN, CN  
[71] THE CHINESE UNIVERSITY OF HONG KONG, CN  
[71] GRAIL, INC., US  
[85] 2020-11-03  
[86] 2019-05-03 (PCT/CN2019/085426)  
[87] (WO2019/210873)  
[30] US (62/666,574) 2018-05-03  
[30] US (62/732,509) 2018-09-17

[21] **3,105,350**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C07H 15/06 (2006.01) C11D 3/22 (2006.01) C12M 1/02 (2006.01) C12M 1/06 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01) C12P 19/44 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR CONTINUOUS PRODUCTION OF SOPHOROLIPIDS**  
[54] **PROCEDE ET APPAREIL DE PRODUCTION CONTINUE DE SOPHOROLIPIDES**  
[72] FARMER, SEAN, US  
[72] ALIBEK, KEN, US  
[72] DIXON, TYLER, US  
[71] LOCUS IP COMPANY, LLC, US  
[85] 2020-12-29  
[86] 2019-06-27 (PCT/US2019/039445)  
[87] (WO2020/006194)  
[30] US (62/692,005) 2018-06-29

[21] **3,105,352**  
[13] A1

[51] **Int.Cl. C07D 241/08 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) A61P 1/16 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 17/00 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 37/00 (2006.01) C07D 239/34 (2006.01) C07D 241/52 (2006.01) C07D 295/22 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07D 405/06 (2006.01) C07D 409/06 (2006.01) C07D 471/04 (2006.01) C07D 491/04 (2006.01)**  
[25] EN  
[54] **(S)-3-(2-(4-(BENZYL)-3-OXOPIPERAZIN-1-YL)ACETAMIDO)-4-OXO-5-(2,3,5,6-TETRAFLUOROPHENOXY)PENTANOIC ACID DERIVATIVES AND RELATED COMPOUNDS AS CASPASE INHIBITORS FOR TREATING CARDIOVASCULAR DISEASES**  
[54] **DERIVES D'ACIDE (S)-3-(2-(4-(BENZYL)-3-OXOPIPERAZIN-1-YL)ACETAMIDO)-4-OXO-5-(2,3,5,6-TETRAFLUOROPHENOXY)PENTANOIQUE ET COMPOSES APPARENTES UTILISES EN TANT QU'INHIBITEURS DE CASPASE POUR LE TRAITEMENT DE MALADIES CARDIOVASCULAIRES**  
[72] SPADA, ALFRED P., US  
[72] TERNANSKY, ROBERT J., US  
[71] HISTOGEN, INC., US  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/US2019/039702)  
[87] (WO2020/006341)  
[30] US (62/692,517) 2018-06-29

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[21] **3,105,354**  
[13] A1

[51] **Int.Cl. G07C 5/08 (2006.01) B60W 50/02 (2012.01) G01M 7/00 (2006.01) G06F 11/07 (2006.01)**

[25] EN

[54] **VEHICLE PERFORMANCE WIRELESS INTERFACE**

[54] **INTERFACE SANS FIL DE PERFORMANCE DE VEHICULE**

[72] FIELLO, JONATHAN RICHARD, US

[71] K&N ENGINEERING, INC., US

[71] FIELLO, JONATHAN RICHARD, US

[85] 2020-12-29

[86] 2019-06-28 (PCT/US2019/039754)

[87] (WO2020/006373)

[30] US (62/692,566) 2018-06-29

[30] US (16/455,422) 2019-06-27

[21] **3,105,355**  
[13] A1

[51] **Int.Cl. B01D 3/12 (2006.01) C07C 5/25 (2006.01) C07C 7/04 (2006.01) C08F 10/10 (2006.01)**

[25] EN

[54] **PROCESSES FOR THE MANUFACTURE OF ISOBUTYLENE, POLYISOBUTYLENE, AND DERIVATIVES THEREOF**

[54] **PROCESSUS DE FABRICATION D'ISOBUTYLENE, DE POLYISOBUTYLENE ET DE LEURS DERIVES**

[72] BAXTER, CLYDE EDWARD, JR., US

[71] NTP TEC, LLC, US

[85] 2020-12-29

[86] 2019-06-28 (PCT/US2019/039869)

[87] (WO2020/006437)

[30] US (62/763,714) 2018-06-29

[30] US (62/763,982) 2018-07-13

[21] **3,105,356**  
[13] A1

[51] **Int.Cl. H04N 19/54 (2014.01)**

[25] EN

[54] **SYNTHESIZING AN IMAGE FROM A VIRTUAL PERSPECTIVE USING PIXELS FROM A PHYSICAL IMAGER ARRAY**

[54] **SYNTHESE D'UNE IMAGE DEPUIS UNE PERSPECTIVE VIRTUELLE EN UTILISANT DES PIXELS PROVENANT D'UN RESEAU D'IMAGEURS PHYSIQUES**

[72] YOUNGQUIST, JAMES ANDREW, US

[72] COLMENARES, DAVID JULIO, US

[72] JONES, ADAM GABRIEL, US

[71] ELOUPES, INC., US

[85] 2020-12-29

[86] 2019-06-28 (PCT/US2019/039998)

[87] (WO2020/006519)

[30] US (62/692,619) 2018-06-29

[21] **3,105,357**  
[13] A1

[51] **Int.Cl. A01C 7/04 (2006.01)**

[25] EN

[54] **AUTOMATED SEED PLANTING AND EVALUATION**

[54] **PLANTATION AUTOMATISEE DE GRAINES ET EVALUATION ASSOCIEE**

[72] BARRICK, ADAM M., US

[72] BORROWMAN, ERIC L., US

[72] CEGLINSKI, JARRETT R., US

[72] CHRISTOPHER, JERRY, US

[72] CREWS, JOSHUA ALLEN, US

[72] DILLARD, DANIEL, US

[72] GARVIN, TIMOTHY P., US

[72] JOHNSON, CHARLES K., US

[72] KOHNE, JEFFREY L., US

[72] MITCHELL, JASON T., US

[72] MORRIS, JEFF S., US

[72] NOTHDURFT, RALPH E., US

[72] RASSOOKKHANI, PAYMAN, US

[72] SAIA, CHRISTIAN A., US

[71] MONSANTO TECHNOLOGY LLC, US

[85] 2020-12-29

[86] 2019-07-01 (PCT/US2019/040095)

[87] (WO2020/009978)

[30] US (62/692,853) 2018-07-01

[21] **3,105,359**  
[13] A1

[51] **Int.Cl. G01N 24/08 (2006.01) G01R 33/30 (2006.01) G01V 3/32 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TRI-AXIAL NMR TESTING**

[54] **SYSTEMES ET PROCEDES DE TEST DE RMN TRIAXIALE**

[72] HAKIMUDDIN, MUSTAFA, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-12-29

[86] 2019-07-01 (PCT/US2019/040100)

[87] (WO2020/009981)

[30] US (16/025,791) 2018-07-02

[21] **3,105,360**  
[13] A1

[51] **Int.Cl. A61K 31/282 (2006.01) A61K 38/16 (2006.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) C07K 14/495 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY WITH TARGETED TGF-B INHIBITION FOR TREATMENT OF ADVANCED NON-SMALL CELL LUNG CANCER**

[54] **POLYTHERAPIE AVEC INHIBITION CIBLEE DU TGF-B POUR LE TRAITEMENT DU CANCER DU POUMON NON A PETITES CELLULES AVANCE**

[72] DUSSAULT, ISABELLE, US

[72] GRENGA, ITALIA, US

[72] VUGMEYSTER, YULIA, US

[72] KHANDELWAL, AKASH, DE

[72] CHRISTENSEN, OLAF, US

[71] MERCK PATENT GMBH, DE

[85] 2020-12-29

[86] 2019-07-01 (PCT/US2019/040129)

[87] (WO2020/009992)

[30] US (62/693,042) 2018-07-02

[30] US (62/801,014) 2019-02-04

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[13] A1

[51] **Int.Cl. A61K 47/65 (2017.01) A61K 39/39 (2006.01) A61P 37/00 (2006.01)**  
[25] EN  
[54] **IMPROVEMENTS IN IMMUNOGENIC CONJUGATES**  
[54] **AMELIORATIONS APORTEES A DES CONJUGUES IMMUNOGENES**  
[72] FAIRMAN, JEFFERY, US  
[72] HEINRICHS, JON, US  
[72] CHAN, WEI, US  
[71] VAXCYTE, INC., US  
[85] 2020-12-29  
[86] 2019-07-01 (PCT/US2019/040131)  
[87] (WO2020/009993)  
[30] US (62/693,981) 2018-07-04

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[13] A1

[51] **Int.Cl. C08G 18/75 (2006.01) C08G 75/045 (2016.01) C08G 18/02 (2006.01) C08G 18/09 (2006.01) C08G 18/12 (2006.01) C08G 18/18 (2006.01) C08G 18/24 (2006.01) C08G 18/32 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/52 (2006.01) C08G 18/60 (2006.01) C08G 18/66 (2006.01) C08G 18/79 (2006.01) C08L 75/12 (2006.01) C09D 175/08 (2006.01)**  
[25] EN  
[54] **SPRAYABLE POLYTHIOETHER COATINGS AND SEALANTS**  
[54] **REVETEMENTS DE POLYTHIOETHER PULVERISABLES ET PRODUITS D'ETANCHEITE**  
[72] BOGHOSSIAN, RAZMIK, US  
[72] SMITH, JAMES PAUL, US  
[71] PRC-DESOTO INTERNATIONAL, INC., US  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/US2019/040267)  
[87] (WO2020/010062)  
[30] US (16/026,083) 2018-07-03

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[21] **3,105,369**  
[13] A1

[51] **Int.Cl. A47C 21/04 (2006.01) A61G 7/015 (2006.01) A61G 7/057 (2006.01)**  
[25] EN  
[54] **COMPACT CARTRIDGE FAN SYSTEM FOR ENVIRONMENTAL CONTROL IN AN ARTICULATING BED**  
[54] **SYSTEME DE VENTILATEUR A CARTOUCHE COMPACT DESTINE A LA REGULATION DES CONDITIONS AMBIANTES DANS UN LIT MODULABLE**  
[72] ERMALOVICH, JOSEPH, US  
[72] TOWE, BRETT ANTHONY, US  
[72] GONZALEZ, MARIO, US  
[71] ERGOMOTION, INC., US  
[85] 2020-12-24  
[86] 2019-06-26 (PCT/US2019/039309)  
[87] (WO2020/006120)  
[30] US (16/023,642) 2018-06-29

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[21] **3,105,370**  
[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01)**  
[25] EN  
[54] **ITEM CURATION WITH INGREDIENT-BASED LENS**  
[54] **SELECTION DE PLATS AVEC DETECTEUR OPTIQUE D'INGREDIENTS**  
[72] HAGHGHAT KASHANI, ALI, US  
[72] GREENBERG, MARC, US  
[72] LEHMANN, BASTIAN JAN MICHAEL, US  
[72] PLAICE, SEAN TRACEY, US  
[71] POSTMATES INC., US  
[85] 2020-12-29  
[86] 2019-06-28 (PCT/US2019/039972)  
[87] (WO2020/009947)  
[30] US (62/693,369) 2018-07-02

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[21] **3,105,371**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/74 (2006.01) C12N 15/77 (2006.01)**  
[25] EN  
[54] **LIQUID BASED SELECTION AND CELL ISOLATION**  
[54] **SELECTION A BASE DE LIQUIDE ET ISOLEMENT DE CELLULE**  
[72] POUST, SEAN, US  
[72] SUNSPIRAL, VYTAS, US  
[72] SERBER, WILLIAM, US  
[72] MYERS, MATTHEW JONATHAN, US  
[72] DA LUZ AREOSA CLETO, SARA, US  
[72] WEYMAN, PHILIP, US  
[71] ZYMERGEN INC., US  
[85] 2020-12-29  
[86] 2019-07-02 (PCT/US2019/040320)  
[87] (WO2020/010093)  
[30] US (62/693,738) 2018-07-03

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[21] **3,105,372**  
[13] A1

[51] **Int.Cl. H04N 5/217 (2011.01) G06T 5/00 (2006.01) G06T 5/50 (2006.01)**  
[25] FR  
[54] **PROCESSING OF IMPULSE NOISE IN A VIDEO SEQUENCE**  
[54] **TRAITEMENT D'UN BRUIT IMPULSIONNEL DANS UNE SEQUENCE VIDEO**  
[72] PAUL, NICOLAS, FR  
[71] ELECTRICITE DE FRANCE, FR  
[85] 2020-12-22  
[86] 2019-06-03 (PCT/EP2019/064297)  
[87] (WO2020/001922)  
[30] FR (18 55955) 2018-06-29

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[21] **3,105,373**  
[13] A1

[51] **Int.Cl. A61B 5/103 (2006.01) A61B 5/11 (2006.01)**

[25] EN

[54] **DISTRIBUTED SYSTEM ARCHITECTURE FOR GAIT MONITORING AND METHODS OF USE**

[54] **DISTRIBUTION D'ARCHITECTURE DE SYSTEME POUR LA SURVEILLANCE DE LA DEMARCHE ET PROCEDES D'UTILISATION**

[72] HUIZENGA, DAVID, US

[71] MOTERUM TECHNOLOGIES, INC., US

[85] 2020-12-29

[86] 2019-07-03 (PCT/US2019/040522)

[87] (WO2020/010212)

[30] US (62/693,627) 2018-07-03

[21] **3,105,374**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 33/483 (2006.01) G01N 33/49 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **SENSOR ASSEMBLY FOR A SAMPLE FLUID ANALYSIS SYSTEM**

[54] **ENSEMBLE CAPTEUR POUR UN SYSTEME D'ANALYSE DE FLUIDE D'ECHANTILLON**

[72] PUDDUCK, CHRISTIAN, US

[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US

[85] 2020-12-23

[86] 2019-06-20 (PCT/US2019/038170)

[87] (WO2020/005697)

[30] US (62/692,075) 2018-06-29

[21] **3,105,375**  
[13] A1

[51] **Int.Cl. B21C 23/00 (2006.01) B21C 23/08 (2006.01) B21C 23/20 (2006.01) B21C 23/21 (2006.01) B21C 25/02 (2006.01) B21C 25/04 (2006.01) B21C 26/00 (2006.01)**

[25] EN

[54] **METHOD FOR FORMING HOLLOW PROFILE NON-CIRCULAR EXTRUSIONS USING SHEAR ASSISTED PROCESSING AND EXTRUSION (SHAPE)**

[54] **PROCEDE DE FORMAGE D'EXTRUSIONS NON CIRCULAIRES DE PROFILE CREUX A L'AIDE D'UN PROCESSUS DE TRAITEMENT ET D'EXTRUSION ASSISTES PAR CISAILLEMENT (SHAPE)**

[72] JOSHI, VINEET V., US

[72] WHALLEN, SCOTT A., US

[72] LAVENDER, CURT A., US

[72] GRANT, GLENN J., US

[72] REZA-E-RABBY, MD., US

[72] ROHATGI, AASHISH, US

[72] DARSELL, JENS T., US

[71] BATTELLE MEMORIAL INSTITUTE, US

[85] 2020-12-29

[86] 2019-07-05 (PCT/US2019/040730)

[87] (WO2020/010331)

[30] US (16/028,173) 2018-07-05

[21] **3,105,376**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/70 (2006.01)**

[25] EN

[54] **BIOMARKERS AND TEST MODELS FOR CHRONIC KIDNEY DISEASE**

[54] **BIOMARQUEURS ET MODELES DE TEST POUR LA NEPHROPATHIE CHRONIQUE**

[72] BRADLEY, RICHARD, GB

[72] TAGKOPOULOS, ILIAS, US

[72] BIOURGE, VINCENT, FR

[72] FEUGIER, ALEXANDRE, FR

[72] DELMOTTE, SEBASTIEN, FR

[72] WATSON, PHILLIP, GB

[71] MARS, INCORPORATED, US

[85] 2020-12-29

[86] 2019-07-15 (PCT/US2019/041887)

[87] (WO2020/018463)

[30] US (62/698,046) 2018-07-14

[30] US (62/858,771) 2019-06-07

[21] **3,105,377**  
[13] A1

[51] **Int.Cl. F25D 11/00 (2006.01) A47F 3/04 (2006.01) A47F 11/10 (2006.01) F25D 25/00 (2006.01)**

[25] EN

[54] **BEVERAGE COOLER**

[54] **REFROIDISSEUR DE BOISSON**

[72] Jafa, EMAD, US

[72] STOENESCU, ELEONOR DORIN, US

[72] HELLIER, THOMAS HENRY, GB

[72] OLIVER, JAMES SIMON, GB

[71] PEPSICO, INC., US

[85] 2020-12-29

[86] 2019-07-09 (PCT/US2019/041025)

[87] (WO2020/014242)

[30] US (62/697,276) 2018-07-12

[30] US (16/054,596) 2018-08-03

[21] **3,105,378**  
[13] A1

[51] **Int.Cl. A01K 1/00 (2006.01) A01K 7/02 (2006.01) A01K 39/026 (2006.01)**

[25] EN

[54] **RECIRCULATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE RECIRCULATION**

[72] WOLFE, STEPHEN, US

[71] APPLIED LIFESCIENCES AND SYSTEMS POULTRY, INC., US

[85] 2020-12-29

[86] 2019-07-25 (PCT/US2019/043381)

[87] (WO2020/023715)

[30] US (62/703,247) 2018-07-25

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[13] A1

[51] **Int.Cl. H04N 19/436 (2014.01) H04N 19/52 (2014.01)**  
[25] EN  
[54] **MULTIPLE HISTORY BASED NON-ADJACENT MVPS FOR WAVEFRONT PROCESSING OF VIDEO CODING**  
[54] **MVP NON ADJACENT A BASE D'HISTORIQUE MULTIPLE DESTINES AU TRAITEMENT DE FRONT D'ONDE DU CODAGE VIDEO**  
[72] PHAM VAN, LUONG, US  
[72] CHIEN, WEI-JUNG, US  
[72] SEREGIN, VADIM, US  
[72] KARCZEWICZ, MARTA, US  
[72] HUANG, HAN, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-12-29  
[86] 2019-07-10 (PCT/US2019/041241)  
[87] (WO2020/014389)  
[30] US (62/696,281) 2018-07-10  
[30] US (62/713,944) 2018-08-02  
[30] US (16/506,720) 2019-07-09

[21] **3,105,380**  
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01) E21B 36/00 (2006.01) E21B 43/24 (2006.01) G06F 1/32 (2019.01) H01M 8/14 (2006.01) H02J 3/40 (2006.01) H02J 9/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR GENERATING AND CONSUMING POWER FROM NATURAL GAS**  
[54] **SYSTEMES ET PROCEDES DE GENERATION ET DE CONSOMMATION D'ENERGIE A PARTIR DE GAZ NATUREL**  
[72] CAVNESS, CHARLES, US  
[72] LOCHMILLER, CHASE, US  
[72] PARKER, KENNETH, US  
[71] CRUSOE ENERGY SYSTEMS INC., US  
[85] 2020-12-29  
[86] 2019-08-01 (PCT/US2019/044646)  
[87] (WO2020/028650)  
[30] US (62/713,368) 2018-08-01

[21] **3,105,381**  
[13] A1

[51] **Int.Cl. C07K 14/015 (2006.01) C12N 15/864 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR DELIVERY OF AGENTS ACROSS THE BLOOD-BRAIN BARRIER**  
[54] **PROCEDES ET COMPOSITIONS POUR L'ADMINISTRATION D'AGENTS A TRAVERS LA BARRIERE HEMATO-ENCEPHALIQUE**  
[72] BEI, FENGFENG, US  
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US  
[85] 2020-12-29  
[86] 2019-07-11 (PCT/US2019/041386)  
[87] (WO2020/014471)  
[30] US (62/696,422) 2018-07-11

[21] **3,105,382**  
[13] A1

[51] **Int.Cl. A61K 38/37 (2006.01) A61P 7/04 (2006.01) C07K 14/755 (2006.01) C12N 15/12 (2006.01) C12N 15/864 (2006.01) A61K 35/76 (2015.01)**  
[25] EN  
[54] **IMPROVED CLINICAL PARAMETERS BY EXPRESSION OF FACTOR VIII**  
[54] **PARAMETRES CLINIQUES AMELIORES PAR L'EXPRESSION DU FACTEUR VIII**  
[72] CONNER, EDWARD R., US  
[72] RILEY, BRIGIT E., US  
[72] ROUY, DIDIER, US  
[71] SANGAMO THERAPEUTICS, INC., US  
[85] 2020-12-29  
[86] 2019-08-02 (PCT/US2019/044946)  
[87] (WO2020/028830)  
[30] US (62/714,553) 2018-08-03  
[30] US (62/826,887) 2019-03-29  
[30] US (62/869,445) 2019-07-01

[21] **3,105,383**  
[13] A1

[51] **Int.Cl. H04N 19/11 (2014.01) H04N 19/105 (2014.01) H04N 19/119 (2014.01) H04N 19/167 (2014.01) H04N 19/176 (2014.01) H04N 19/593 (2014.01)**  
[25] EN  
[54] **POSITION DEPENDENT INTRA PREDICTION COMBINATION WITH WIDE ANGLE INTRA PREDICTION**  
[54] **COMBINAISON DE PREDICTION INTRA DEPENDANTE DE LA POSITION AVEC PREDICTION INTRA A GRAND ANGLE**  
[72] VAN DER AUWERA, GEERT, US  
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US  
[72] KARCZEWICZ, MARTA, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-12-29  
[86] 2019-07-15 (PCT/US2019/041853)  
[87] (WO2020/018446)  
[30] US (62/698,804) 2018-07-16  
[30] US (16/510,863) 2019-07-12

[21] **3,105,384**  
[13] A1

[51] **Int.Cl. D21H 21/14 (2006.01) C05F 11/00 (2006.01) C05G 3/00 (2020.01)**  
[25] EN  
[54] **AGRICULTURAL HYBRID PAPER AND METHODS OF MAKING THE SAME**  
[54] **PAPIER AGRICOLE HYBRIDE ET PROCEDES DE FABRICATION D'UN TEL PAPIER**  
[72] MCALARY, BRIAN, US  
[72] REFF, JOSEPH, US  
[72] BREWER, BRENT, CA  
[72] ROCKWOOD, DAVID, US  
[71] TWIN RIVERS PAPER COMPANY LLC, US  
[85] 2020-12-29  
[86] 2019-08-06 (PCT/US2019/045377)  
[87] (WO2020/033459)  
[30] US (62/714,871) 2018-08-06



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[21] **3,105,385**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61P 3/06 (2006.01) A61P 3/08 (2006.01) A61P 9/12 (2006.01) A61P 13/12 (2006.01) A61P 19/06 (2006.01) C07H 21/02 (2006.01)**

[25] EN

[54] **KETOHXOKINASE (KHK) IRNA COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **COMPOSITIONS D'ARNI DE CETOHEXOKINASE (KHK) ET LEURS PROCEDES D'UTILISATION**

[72] HINKLE, GREGORY, US

[71] ALNYLAM PHARMACEUTICALS, INC., US

[85] 2020-12-29

[86] 2019-09-17 (PCT/US2019/051429)

[87] (WO2020/060986)

[30] US (62/732,600) 2018-09-18

[21] **3,105,386**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/08 (2009.01)**

[25] EN

[54] **LINK RECOVERY IN WIRELESS COMMUNICATIONS**

[54] **RECUPERATION DE LIEN DANS DES COMMUNICATIONS SANS FIL**

[72] GAO, BO, CN

[72] CHEN, YIJIAN, CN

[72] ZHANG, SHUJUAN, CN

[72] LU, ZHAOHUA, CN

[71] ZTE CORPORATION, CN

[85] 2020-12-30

[86] 2018-08-07 (PCT/CN2018/099223)

[87] (WO2020/029083)

[21] **3,105,387**  
[13] A1

[51] **Int.Cl. B65D 51/16 (2006.01) B65D 43/02 (2006.01) B65D 51/18 (2006.01)**

[25] EN

[54] **FOOD CONTAINER WITH VENTS ON HANDLES**

[54] **RECIPIENT ALIMENTAIRE MUNI DE POIGNEES A EVENTS**

[72] LIU, SHENG-YU, TW

[71] FREE-FREE(USA) INC., US

[71] FREE-FREE INDUSTRIAL CORP., TW

[85] 2020-12-29

[86] 2019-10-21 (PCT/US2019/057298)

[87] (WO2020/242515)

[30] US (16/426,371) 2019-05-30

[30] CN (201910681491.3) 2019-07-26

[21] **3,105,388**  
[13] A1

[51] **Int.Cl. G06F 16/432 (2019.01) G06F 16/9535 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR LEVERAGING ACOUSTIC INFORMATION OF VOICE QUERIES**

[54] **SYSTEMES ET PROCEDES POUR EXPLOITER DES INFORMATIONS ACOUSTIQUES D'INTERROGATIONS VOCALES**

[72] BONFIELD, CHARLES, US

[72] MALHOTRA, MANIK, US

[71] ROVI GUIDES, INC., US

[85] 2020-12-29

[86] 2020-02-27 (PCT/US2020/020206)

[87] (WO2020/226726)

[30] US (62/843,785) 2019-05-06

[21] **3,105,389**  
[13] A1

[51] **Int.Cl. A61K 31/4166 (2006.01) A61K 9/48 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **A FORMULATION OF HC-1119 AS WELL AS THE PRODUCTION METHOD AND THE USE THEREOF**

[54] **FORMULATION A BASE DE HC-1119, PROCEDE DE PREPARATION ET UTILISATION DE CETTE DERNIERE**

[72] WEI, XING, CN

[72] QI, MING, CN

[72] DU, WU, CN

[72] LI, XINGHAI, CN

[72] CHEN, YUANWEI, CN

[71] HINOVA PHARMACEUTICALS INC., CN

[85] 2020-12-30

[86] 2019-05-13 (PCT/CN2019/086694)

[87] (WO2019/218979)

[30] CN (201810458165.1) 2018-05-14

[21] **3,105,390**  
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) B82Y 5/00 (2011.01) A61K 9/00 (2006.01) A61K 36/16 (2006.01) A61K 36/258 (2006.01) A61K 36/734 (2006.01) A61K 36/886 (2006.01) A61K 36/8962 (2006.01) A61K 36/9066 (2006.01) A61P 31/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR TREATING DERMATOLOGICAL DISEASES**

[54] **COMPOSITIONS POUR TRAITER DES MALADIES DERMATOLOGIQUES**

[72] KENNEDY, J. PHILLIP, US

[71] TRUETIVA, INC., US

[71] KENNEDY, J. PHILLIP, US

[85] 2020-12-29

[86] 2020-07-31 (PCT/US2020/044379)

[87] (WO2021/003488)

[30] US (16/502,189) 2019-07-03

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[13] A1

[51] **Int.Cl. B64D 27/14 (2006.01) B64D 27/20 (2006.01) B64D 27/24 (2006.01) F01D 15/10 (2006.01) F02C 6/02 (2006.01) F02K 3/04 (2006.01) F02K 3/062 (2006.01) F02K 3/072 (2006.01) F02K 3/12 (2006.01) B64D 27/00 (2006.01) B64D 27/02 (2006.01) B64D 33/02 (2006.01) F01D 13/02 (2006.01)**

[25] EN

[54] **AIRCRAFT PROPULSION SYSTEM AND AIRCRAFT POWERED BY SUCH A PROPULSION SYSTEM INTEGRATED INTO THE REAR OF AN AIRCRAFT FUSELAGE**

[54] **SYSTEME PROPULSIF D'AERONEF ET AERONEF PROPULSE PAR UN TEL SYSTEME PROPULSIF INTEGRE A L'ARRIERE D'UN FUSELAGE DE L'AERONEF**

[72] TANTOT, NICOLAS JEROME JEAN, FR

[72] GALLET, FRANCOIS, FR

[71] SAFRAN AIRCRAFT ENGINES, FR

[85] 2020-12-30

[86] 2019-07-03 (PCT/FR2019/051650)

[87] (WO2020/008147)

[30] FR (1856156) 2018-07-04

[21] **3,105,392**  
[13] A1

[51] **Int.Cl. A61K 47/26 (2006.01) A61K 9/14 (2006.01) A61K 9/72 (2006.01) A61K 31/352 (2006.01) A61K 47/12 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **POWDERED FORMULATIONS OF CROMOLYN SODIUM AND .ALPHA.-LACTOSE**

[54] **FORMULATIONS EN POUDRE DE CROMOGLYCATÉ DE SODIUM ET D'.ALPHA.-LACTOSE**

[72] ELMALEH, DAVID R., US

[72] GONZALEZ, JUAN B., US

[71] THE GENERAL HOSPITAL CORPORATION, US

[71] AZTHERAPIES, INC., US

[85] 2020-12-30

[86] 2019-07-02 (PCT/US2019/040247)

[87] (WO2020/010049)

[30] US (62/692,962) 2018-07-02

[21] **3,105,393**  
[13] A1

[51] **Int.Cl. H04M 1/03 (2006.01)**

[25] EN

[54] **MOBILE TERMINAL**

[54] **TERMINAL MOBILE**

[72] LI, FENGLIANG, CN

[72] HE, JINGJING, CN

[71] VIVO MOBILE COMMUNICATION CO., LTD., CN

[85] 2020-12-30

[86] 2019-07-03 (PCT/CN2019/094488)

[87] (WO2020/011075)

[30] CN (201810760788.4) 2018-07-11

[21] **3,105,394**  
[13] A1

[51] **Int.Cl. A61K 31/498 (2006.01) A61K 31/5575 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **TARGETED DELIVERY OF THERAPEUTIC AGENTS TO HUMAN ADIPOCYTES**

[54] **ADMINISTRATION CIBLEE D'AGENTS THERAPEUTIQUES A DES ADIPOCYTES HUMAINS**

[72] THIBONNIER, MARC, US

[71] APTAMIR THERAPEUTICS, INC., US

[85] 2020-12-30

[86] 2019-07-02 (PCT/US2019/040259)

[87] (WO2020/010059)

[30] US (62/693,025) 2018-07-02

[30] US (62/810,141) 2019-02-25

[21] **3,105,395**  
[13] A1

[51] **Int.Cl. A61M 27/00 (2006.01) A61M 1/00 (2006.01) A61M 3/02 (2006.01)**

[25] EN

[54] **SYSTEMS, CATHETERS, AND METHODS FOR TREATING ALONG THE CENTRAL NERVOUS SYSTEM**

[54] **SYSTEMES, CATHETERS ET METHODES DE TRAITEMENT LE LONG DU SYSTEME NERVEUX CENTRAL**

[72] CAMPBELL, SUSAN ROSEMARY, US

[72] DARBANDI, BEJAN MICHAEL, US

[72] GOHMAN, JOHN LEONARD, US

[72] HEDSTROM, BLAKE ANTHONY, US

[72] MONDRY, JACK MICHAEL, US

[71] MINNETRONIX NEURO, INC., US

[85] 2020-12-30

[86] 2019-07-02 (PCT/US2019/040285)

[87] (WO2020/010074)

[30] US (62/693,225) 2018-07-02

[21] **3,105,396**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) A01H 6/54 (2018.01) A01H 5/00 (2018.01) C12N 9/22 (2006.01) C12N 15/70 (2006.01)**

[25] EN

[54] **METHOD FOR SITE-SPECIFIC MUTAGENESIS OF MEDICAGO SATIVA GENES BY USING CRISPR/CAS9 SYSTEM**

[54] **METHODE DE MUTAGENESE DIRIGEE D'UN GENE DE MEDICAGO SATIVA PAR UTILISATION D'UN SYSTEME CRISPR/CAS9**

[72] CHEN, HAITAO, CN

[72] WANG, WEN, CN

[72] XIE, XIONGPING, CN

[72] QIU, QIANG, CN

[72] SHANG, ZHANHUAN, CN

[72] SU, KEXIAN, CN

[72] HE, HUI, CN

[71] GUANGDONG SANJIE FORAGE BIOTECHNOLOGY CO., LTD, CN

[85] 2020-12-30

[86] 2019-07-03 (PCT/CN2019/094630)

[87] (WO2020/007331)

[30] CN (201810724589.8) 2018-07-04

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[51] <b>Int.Cl. C12N 15/29 (2006.01) A01H 6/54 (2018.01) A01H 5/12 (2018.01) C12N 15/82 (2006.01)</b>	[51] <b>Int.Cl. B65D 47/08 (2006.01)</b>	[51] <b>Int.Cl. A61M 1/00 (2006.01) A61B 17/22 (2006.01) A61M 25/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>METHOD OF OBTAINING MULTILEAFLET MEDICAGO SATIVA MATERIALS BY MEANS OF MSPALMI ARTIFICIAL SITE-DIRECTED MUTANTS</b>	[54] <b>FLAP CLOSURE</b>	[54] <b>ASPIRATION THROMBECTOMY SYSTEM AND METHODS FOR THROMBUS REMOVAL WITH ASPIRATION CATHETER</b>
[54] <b>METHODE D'OBTENTION D'UN MATERIAU DE LUZERNE MULTI-FEUILLES AU MOYEN D'UN MUTANT DIRIGE SUR UN SITE ARTIFICIEL MSPALMI</b>	[72] PRIES, HOLGER, DE	[54] <b>SYSTEME DE THROMBECTOMIE PAR ASPIRATION ET PROCEDES D'ELIMINATION DE THROMBUS AU MOYEN D'UN CATHETER D'ASPIRATION</b>
[72] CHEN, HAITAO, CN	[72] SCHIPPER, MICHAEL, DE	[72] DEVILLE, DEREK DEE, US
[72] WANG, WEN, CN	[72] BRAUER, JENS, DE	[72] PALMER, MATTHEW A., US
[72] XIE, XIONGPING, CN	[71] WEENER PLASTIK GMBH, DE	[72] BALES, WILLIAM T., US
[72] QIU, QIANG, CN	[85] 2020-12-30	[72] MCBRAYER, M. SEAN, US
[72] SHANG, ZHANHUAN, CN	[86] 2018-07-04 (PCT/EP2018/068148)	[72] PETERSEN, ERIC, US
[72] SU, KEXIAN, CN	[87] (WO2020/007465)	[72] CARTLEDGE, RICHARD, US
[72] HE, HUI, CN		[71] SYNTHEON 2.0, LLC, US
[71] GUANGDONG SANJIE FORAGE BIOTECHNOLOGY CO., LTD, CN	[21] <b>3,105,400</b> [13] A1	[85] 2020-12-23
[85] 2020-12-30	[51] <b>Int.Cl. G06F 3/01 (2006.01) G06F 3/0481 (2013.01)</b>	[86] 2019-07-19 (PCT/US2019/042546)
[86] 2019-07-03 (PCT/CN2019/094632)	[25] EN	[87] (WO2020/018880)
[87] (WO2020/007332)	[54] <b>APPARATUS AND METHOD FOR GENERATING IMAGES OF A SCENE</b>	[30] US (62/701,086) 2018-07-20
[30] CN (201810724563.3) 2018-07-04	[54] <b>APPAREIL ET PROCEDE DE GENERATION D'IMAGES D'UNE SCENE</b>	[30] US (62/750,011) 2018-10-24
	[72] VAREKAMP, CHRISTIAAN, NL	[30] US (16/516,232) 2019-07-18
	[72] VANDEWALLE, PATRICK LUC ELS, NL	
	[71] KONINKLIJKE PHILIPS N.V., NL	[21] <b>3,105,403</b> [13] A1
	[85] 2020-12-30	[51] <b>Int.Cl. C22C 38/12 (2006.01) B23K 26/342 (2014.01) B23K 9/04 (2006.01) B23K 10/02 (2006.01) B23K 35/22 (2006.01) C22C 38/02 (2006.01) C22C 38/08 (2006.01)</b>
	[86] 2019-06-20 (PCT/EP2019/066311)	[25] EN
	[87] (WO2020/002115)	[54] <b>WEAR-RESISTANT IRON-BASED ALLOY COMPOSITIONS COMPRISING NICKEL</b>
	[30] EP (18179841.4) 2018-06-25	[54] <b>COMPOSITIONS D'ALLIAGE A BASE DE FER RESISTANT A L'USURE COMPRENANT DU NICKEL</b>
		[72] MAROLI, BARBARA, SE
[21] <b>3,105,398</b> [13] A1	[21] <b>3,105,401</b> [13] A1	[72] FRYKHOLM, ROBERT, SE
[51] <b>Int.Cl. B65G 17/06 (2006.01) B65G 17/08 (2006.01)</b>	[51] <b>Int.Cl. B24B 29/02 (2006.01) B21D 22/26 (2006.01) B21D 51/18 (2006.01)</b>	[72] BENGTTSSON, SVEN, SE
[25] EN	[25] EN	[72] FRISK, KARIN, SE
[54] <b>FULLY ROLLING FRICTION CHAIN PLATE CARRIER WHEEL MATERIAL FEEDER</b>	[54] <b>METHOD AND DEVICE FOR DRY MACHINING OF DEEP-DRAWN SINKS</b>	[71] HOGANAS AB (PUBL), SE
[54] <b>DISPOSITIF D'ALIMENTATION EN MATERIAU A POULIE A PLAQUE A CHAINES PAR FROTTEMENT ENTIEREMENT ROTATIF</b>	[54] <b>PROCEDE ET DISPOSITIF D'USINAGE A SEC D'EVIERES EMBOUTIS</b>	[85] 2020-12-30
[72] LIU, SUHUA, CN	[72] DITTLER, BERND, DE	[86] 2019-06-25 (PCT/EP2019/066834)
[71] LIU, SUHUA, CN	[71] FRANKE TECHNOLOGY AND TRADEMARK LTD, CH	[87] (WO2020/007652)
[85] 2020-12-30	[85] 2020-12-30	[30] EP (18181115.9) 2018-07-02
[86] 2019-07-07 (PCT/CN2019/094960)	[86] 2019-06-24 (PCT/EP2019/066590)	
[87] (WO2020/007369)	[87] (WO2020/007628)	
	[30] DE (10 2018 116 333.9) 2018-07-05	

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[21] **3,105,404**  
[13] A1

[51] **Int.Cl. A01H 6/28 (2018.01)**  
[25] EN  
[54] **CANNABIS VARIETY WHICH PRODUCES GREATER THAN 50% FEMALE PLANTS**  
[54] **VARIETE DE CANNABIS PERMETTANT DE PRODUIRE PLUS DE 50 % DE PLANTES FEMELLES**  
[72] FLETCHER, RICHARD S., US  
[71] NEW WEST GENETICS INC., US  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/US2019/040332)  
[87] (WO2020/010102)  
[30] US (62/693,538) 2018-07-03

[21] **3,105,405**  
[13] A1

[51] **Int.Cl. G16H 50/80 (2018.01)**  
[25] EN  
[54] **GRAPH DATABASE FOR OUTBREAK TRACKING AND MANAGEMENT**  
[54] **BASE DE DONNEES DE GRAPHIQUES POUR SUIVI ET GESTION D'EPIDEMIES**  
[72] RANDALL, PAUL, US  
[72] SMITH, IAN, US  
[72] HAYNES, JONATHAN, US  
[72] WILKINSON, SAM, US  
[71] BAXTER INTERNATIONAL INC., US  
[71] BAXTER HEALTHCARE SA, CH  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/US2019/040349)  
[87] (WO2020/010113)  
[30] US (62/693,017) 2018-07-02

[21] **3,105,406**  
[13] A1

[51] **Int.Cl. G10L 25/51 (2013.01) G10L 25/21 (2013.01) G10L 25/57 (2013.01)**  
[25] EN  
[54] **SYSTEM FOR DELIVERABLES VERSIONING IN AUDIO MASTERING**  
[54] **SYSTEME POUR VERSIONNAGE DE PRODUITS LIVRABLES DANS UN MATRICAGE AUDIO**  
[72] MORRIS, STEPHEN, US  
[72] LEVINE, SCOTT, US  
[71] LUCASFILM ENTERTAINMENT COMPANY LTD. LLC, US  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/US2019/040384)  
[87] (WO2020/010130)  
[30] US (16/026,380) 2018-07-03

[21] **3,105,407**  
[13] A1

[51] **Int.Cl. C07D 333/38 (2006.01) A01N 43/10 (2006.01) A01N 43/28 (2006.01) A01P 1/00 (2006.01) C07D 413/04 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS**  
[54] **THIOPHENECARBOXAMIDES ET ANALOGUES SUBSTITUES UTILISES EN TANT QU'AGENTS ANTIBACTERIENS**  
[72] BERNIER, DAVID, FR  
[72] BRUNET, STEPHANE, FR  
[72] DUFOUR, JEREMY, FR  
[72] KNOBLOCH, THOMAS, FR  
[72] NICOLAS, LIONEL, DE  
[72] TSUCHIYA, TOMOKI, FR  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/EP2019/067831)  
[87] (WO2020/007905)  
[30] EP (18181930.1) 2018-07-05

[21] **3,105,408**  
[13] A1

[51] **Int.Cl. H04N 21/2365 (2011.01) H04N 21/2187 (2011.01) H04N 21/2343 (2011.01) H04N 21/414 (2011.01) H04N 21/4223 (2011.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR TRANSMITTING ALTERNATIVE IMAGE CONTENT OF A PHYSICAL DISPLAY TO DIFFERENT VIEWERS**  
[54] **PROCEDE ET SYSTEME DE TRANSMISSION D'UN CONTENU D'IMAGES ALTERNATIF D'UN AFFICHAGE PHYSIQUE A DIFFERENTS SPECTATEURS**  
[72] VON BRAUN, MAX, DE  
[71] APPARIO GLOBAL SOLUTIONS (AGS) AG, CH  
[85] 2020-12-30  
[86] 2019-07-26 (PCT/EP2019/070186)  
[87] (WO2020/021068)  
[30] EP (18186106.3) 2018-07-27

[21] **3,105,409**  
[13] A1

[51] **Int.Cl. A01N 63/30 (2020.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **FUNGICIDALLY ACTIVE COMBINATION OF A CLONOSTACHYS STRAIN AND AN AZOLE**  
[54] **COMBINAISON A ACTIVITE FONGICIDE D'UNE SOUCHE CLONOSTACHYS ET D'UN AZOLE**  
[72] DAHMEN, PETER, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[71] DANSTAR FERMENT AG, CH  
[85] 2020-12-30  
[86] 2019-06-27 (PCT/EP2019/067131)  
[87] (WO2020/007699)  
[30] EP (18181336.1) 2018-07-03

[21] **3,105,410**  
[13] A1

[51] **Int.Cl. C07D 333/38 (2006.01) A01N 43/10 (2006.01) A01N 43/28 (2006.01) A01P 1/00 (2006.01) C07D 333/40 (2006.01) C07D 413/04 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS**  
[54] **THIOPHENECARBOXAMIDES ET ANALOGUES SUBSTITUES UTILISES EN TANT QU'AGENTS ANTIBACTERIENS**  
[72] BERNIER, DAVID, FR  
[72] BRUNET, STEPHANE, FR  
[72] DUFOUR, JEREMY, FR  
[72] KNOBLOCH, THOMAS, FR  
[72] NICOLAS, LIONEL, FR  
[72] TSUCHIYA, TOMOKI, FR  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/EP2019/067824)  
[87] (WO2020/007902)  
[30] EP (18181930.1) 2018-07-05

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[21] **3,105,411**  
[13] A1

[51] **Int.Cl. C07D 333/38 (2006.01) A01N 43/10 (2006.01) A01N 43/28 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED THIOPHENECARBOXAMIDES AND ANALOGUES AS ANTIBACTERIALS AGENTS**

[54] **THIOPHENECARBOXAMIDES ET ANALOGUES SUBSTITUES UTILISES EN TANT QU'AGENTS ANTIBACTERIENS**

[72] BERNIER, DAVID, FR

[72] BRUNET, STEPHANE, FR

[72] COQUERON, PIERRE-YVES, FR

[72] DUFOUR, JEREMY, FR

[72] KNOBLOCH, THOMAS, FR

[72] NICOLAS, LIONEL, FR

[72] TSUCHIYA, TOMOKI, FR

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2020-12-30

[86] 2019-07-03 (PCT/EP2019/067827)

[87] (WO2020/007904)

[30] EP (18181930.1) 2018-07-05

[21] **3,105,412**  
[13] A1

[51] **Int.Cl. G01R 19/25 (2006.01) G01R 23/02 (2006.01) H02J 3/24 (2006.01) H02J 3/38 (2006.01)**

[25] EN

[54] **WIND ENERGY SYSTEM AND METHOD FOR IDENTIFYING LOW-FREQUENCY OSCILLATIONS IN AN ELECTRICAL SUPPLY NETWORK**

[54] **SYSTEME EOLIEN ET PROCEDE POUR DETECTER DES OSCILLATIONS DE BASSE FREQUENCE DANS UN RESEAU D'ALIMENTATION ELECTRIQUE**

[72] BUSKER, KAI, DE

[72] MENDONCA, ANGELO, DE

[72] SCHWANKA TREVISAN, ARAMIS, DE

[71] WOBHEN PROPERTIES GMBH, DE

[85] 2020-12-30

[86] 2019-07-05 (PCT/EP2019/068107)

[87] (WO2020/008036)

[30] DE (10 2018 116 446.7) 2018-07-06

[21] **3,105,413**  
[13] A1

[51] **Int.Cl. C09B 1/503 (2006.01) C09B 1/06 (2006.01) C09B 1/14 (2006.01) C09B 1/28 (2006.01) C09B 1/32 (2006.01) C09B 1/51 (2006.01) C09B 1/514 (2006.01) D06P 1/34 (2006.01) H01L 51/00 (2006.01)**

[25] EN

[54] **ANTHRAQUINONIC DERIVATIVES AND THEIR USE AS COLOURING AGENTS**

[54] **DERIVES ANTHRAQUINONIQUES ET LEUR UTILISATION EN TANT QU'AGENTS COLORANTS**

[72] COTTET, KEVIN, FR

[72] BOISSONNAT, GUILLAUME, FR

[71] PILI, FR

[85] 2020-12-30

[86] 2019-07-16 (PCT/EP2019/069152)

[87] (WO2020/016245)

[30] EP (18305972.4) 2018-07-17

[21] **3,105,414**  
[13] A1

[51] **Int.Cl. A01N 43/58 (2006.01) A01N 25/02 (2006.01) A01N 25/30 (2006.01) A01N 41/10 (2006.01) A01N 43/08 (2006.01) A01N 47/06 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **AGROCHEMICAL COMPOSITION AND METHODS OF PREPARING AND USING THE SAME**

[54] **COMPOSITION AGROCHIMIQUE ET SES PROCEDES DE PREPARATION ET D'UTILISATION**

[72] PINOT, FLORENT, FR

[71] RHODIA OPERATIONS, FR

[85] 2020-12-30

[86] 2019-07-22 (PCT/EP2019/069632)

[87] (WO2020/025370)

[30] EP (18186468.7) 2018-07-31

[21] **3,105,415**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) G01N 33/574 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTIBODIES SPECIFIC TO FOLATE RECEPTOR ALPHA**

[54] **ANTICORPS SPECIFIQUES DU RECEPTEUR ALPHA DU FOLATE**

[72] HOU, BING, CN

[72] WANG, NA, CN

[72] MENG, XUN, CN

[71] MULTITUDE INC., CN

[85] 2020-12-30

[86] 2019-06-26 (PCT/IB2019/000873)

[87] (WO2020/016661)

[30] US (62/695,535) 2018-07-09

[21] **3,105,416**  
[13] A1

[51] **Int.Cl. F17C 13/04 (2006.01)**

[25] EN

[54] **FITTING FOR LIQUID GAS BOTTLES**

[54] **ROBINET POUR BOUTEILLES DE GAZ LIQUIDE**

[72] TILHOF, ECKHARD, CH

[71] CLEANTECH SWISS AG, CH

[85] 2020-12-30

[86] 2019-08-13 (PCT/EP2019/071657)

[87] (WO2020/035473)

[30] EP (18189019.5) 2018-08-14

[30] DE (20 2018 106 076.7) 2018-10-24

[21] **3,105,417**  
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/06 (2006.01) A61K 31/69 (2006.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01)**

[25] EN

[54] **TOPICAL COMPOSITION**

[54] **COMPOSITION TOPIQUE**

[72] CRUTCHLEY, NIGEL, GB

[71] MC2 THERAPEUTICS LIMITED, GB

[85] 2020-12-30

[86] 2018-07-31 (PCT/GB2018/052191)

[87] (WO2020/025910)

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[21] **3,105,418**  
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR FIXED, PROGRESSIVE, AND MYSTERY JACKPOT ROULETTE**  
[54] **APPAREIL ET PROCEDE POUR ROULETTE DE CAGNOTTE FIXE, PROGRESSIVE ET MYSTERE**  
[72] SMITH, NICOLE PATRICIA, GB  
[72] ELS, CHRISTIAAN ARNOLDUS, GB  
[71] TCS JOHN HUXLEY EUROPE LIMITED, GB  
[85] 2020-12-30  
[86] 2019-06-27 (PCT/GB2019/051813)  
[87] (WO2020/016551)  
[30] GB (1811683.0) 2018-07-17

[21] **3,105,420**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01)**  
[25] EN  
[54] **HIGH CONCENTRATION LIQUID ANTIBODY FORMULATIONS**  
[54] **FORMULATIONS D'ANTICORPS LIQUIDES A CONCENTRATION ELEVEE**  
[72] DOMNOWSKI, MARTIN, DE  
[72] EYLENSTEIN, ROY, DE  
[72] JAEHRLING, JAN, DE  
[72] WEINFURTNER, DANIEL, DE  
[71] GALAPAGOS NV, BE  
[71] MORPHOSYS AG, DE  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/IB2019/055635)  
[87] (WO2020/008361)  
[30] EP (18181380.9) 2018-07-03

[21] **3,105,423**  
[13] A1

[51] **Int.Cl. H01B 7/04 (2006.01) H01B 7/00 (2006.01) H01B 7/02 (2006.01) H01B 7/14 (2006.01) H01B 7/16 (2006.01) H01B 7/17 (2006.01) H01B 7/18 (2006.01)**  
[25] EN  
[54] **POWER CABLES FOR ELECTRIC SUBMERSIBLE PUMP AND SYSTEMS AND METHODS THEREOF**  
[54] **CABLES D'ALIMENTATION POUR POMPE SUBMERSIBLE ELECTRIQUE ET SYSTEMES ET PROCEDES ASSOCIES**  
[72] GRABINSKY, GLENN, US  
[72] WIENCEK, EDWARD, US  
[72] MILOUCHEV, TOMA, US  
[72] CALIMANI, GIOVANNI BATTISTA, US  
[71] PRYSMIAN S.P.A., IT  
[85] 2020-12-30  
[86] 2018-07-13 (PCT/US2018/042056)  
[87] (WO2020/013860)

[21] **3,105,427**  
[13] A1

[51] **Int.Cl. G06F 13/22 (2006.01) G01S 15/02 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR CHARACTERIZATION OF A DUCTILE MEMBRANE, SURFACE AND SUB-SURFACE PROPERTIES**  
[54] **APPAREIL ET PROCEDE DE CARACTERISATION DE PROPRIETES D'UNE MEMBRANE DUCTILE, D'UNE SURFACE ET D'UNE SOUS-SURFACE**  
[72] MOEHRING, MARK A., US  
[72] CHESAVAGE, JAY A., US  
[72] SINGH, RAHUL, US  
[72] GATES, GEORGE, US  
[71] OTONEXUS MEDICAL TECHNOLOGIES, INC, US  
[85] 2020-12-30  
[86] 2018-07-13 (PCT/US2018/042138)  
[87] (WO2020/013868)

[21] **3,105,428**  
[13] A1

[51] **Int.Cl. C07D 413/12 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61K 31/519 (2006.01) A61K 31/55 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 43/00 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**  
[25] EN  
[54] **CONDENSED LACTAM DERIVATIVE**  
[54] **DERIVES DE LACTAME A CYCLES FUSIONNES**  
[72] YOSHINAGA, HIDEFUMI, JP  
[72] IKUMA, YOHEI, JP  
[72] IKEDA, JUNYA, JP  
[72] ADACHI, SATOSHI, JP  
[72] MITSUNUMA, HARUNOBU, JP  
[72] AIHARA, YOSHINORI, JP  
[72] BESNARD, JEREMY, GB  
[72] BELL, ANDREW SIMON, GB  
[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP  
[85] 2020-12-30  
[86] 2019-07-22 (PCT/JP2019/028577)  
[87] (WO2020/022237)  
[30] JP (2018-138029) 2018-07-23

[21] **3,105,432**  
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/117 (2014.01) H04N 19/124 (2014.01) H04N 19/129 (2014.01) H04N 19/186 (2014.01)**  
[25] EN  
[54] **INTRA PREDICTION ENCODING/DECODING METHOD AND APPARATUS FOR CHROMINANCE COMPONENTS**  
[54] **PROCEDE ET DISPOSITIF DE CODAGE/DECODAGE A PREDICTION INTRA POUR CHROMINANCE**  
[72] KIM, KI BAEK, KR  
[71] KIM, KI BAEK, KR  
[85] 2020-12-30  
[86] 2019-01-11 (PCT/KR2019/000436)  
[87] (WO2019/139393)  
[30] KR (10-2018-0005294) 2018-01-15

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[13] A1

[51] **Int.Cl. A01H 5/12 (2018.01) C12N 15/113 (2010.01) A01H 6/28 (2018.01)**  
[25] EN  
[54] **MODULATION OF CANNABINOID PROFILE IN CANNABIS**  
[54] **MODULATION DU PROFIL DE CANNABINOÏDE DANS LE CANNABIS**  
[72] SHERMAN, TAL, IL  
[72] MARGALIT, IDO, IL  
[71] CANBREED LTD., IL  
[85] 2020-12-30  
[86] 2019-08-15 (PCT/IL2019/050920)  
[87] (WO2020/035869)  
[30] US (62/719,151) 2018-08-17

[21] **3,105,436**  
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) B25J 15/00 (2006.01) B65B 57/10 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR PROCESSING DEVICE PARTS OF SIMULATED SMOKING DEVICES**  
[54] **SYSTEME DE TRAITEMENT DE PARTIES DE DISPOSITIF DE DISPOSITIFS A FUMER SIMULES**  
[72] SLURINK, OSCAR, NL  
[71] SLUIS CIGAR MACHINERY B.V., NL  
[85] 2020-12-30  
[86] 2019-07-19 (PCT/NL2019/050466)  
[87] (WO2020/017972)  
[30] NL (2021349) 2018-07-19

[21] **3,105,437**  
[13] A1

[51] **Int.Cl. C03C 27/06 (2006.01) E06B 3/663 (2006.01) E06B 3/667 (2006.01)**  
[25] EN  
[54] **MULTI-LAYERED GLASS**  
[54] **VERRE MULTICOUCHE**  
[72] YUKI, TAKESHI, JP  
[72] YUKI, NORIHITO, JP  
[72] FUNAO, MASAMITSU, JP  
[71] NAKAJIMA GLASS CO., INC., JP  
[85] 2020-12-30  
[86] 2018-07-05 (PCT/JP2018/025606)  
[87] (WO2020/008612)

[21] **3,105,438**  
[13] A1

[51] **Int.Cl. B65B 57/00 (2006.01) B65B 1/46 (2006.01) B65B 3/00 (2006.01) B65B 3/28 (2006.01) G01G 1/00 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR FILLING DEVICE PARTS OF SIMULATED SMOKING DEVICES**  
[54] **SYSTEME DE REMPLISSAGE DE PARTIES DE DISPOSITIF DE DISPOSITIFS A FUMER SIMULES**  
[72] SLURINK, OSCAR, NL  
[71] SLUIS CIGAR MACHINERY B.V., NL  
[85] 2020-12-30  
[86] 2019-07-19 (PCT/NL2019/050463)  
[87] (WO2020/017969)  
[30] NL (2021346) 2018-07-19

[21] **3,105,439**  
[13] A1

[51] **Int.Cl. A24C 5/01 (2020.01) A24F 47/00 (2020.01) B65G 47/84 (2006.01)**  
[25] EN  
[54] **A SYSTEM FOR PERFORMING A PROCESSING STEP ON DEVICE PARTS OF SIMULATED SMOKING DEVICES, SUCH AS ELECTRONIC CIGARETTES**  
[54] **SYSTEME POUR EFFECTUER UNE ETAPE DE TRAITEMENT SUR DES PARTIES DE DISPOSITIF DE DISPOSITIFS A FUMER SIMULES, TELS QUE DES CIGARETTES ELECTRONIQUES**  
[72] SLURINK, OSCAR, NL  
[71] SLUIS CIGAR MACHINERY B.V., NL  
[85] 2020-12-30  
[86] 2019-07-19 (PCT/NL2019/050464)  
[87] (WO2020/017970)  
[30] NL (2021347) 2018-07-19

[21] **3,105,440**  
[13] A1

[51] **Int.Cl. A24D 1/22 (2020.01) A24D 1/00 (2020.01) A24F 47/00 (2020.01)**  
[25] EN  
[54] **AEROSOL SOURCE MEMBER HAVING COMBINED SUSCEPTOR AND AEROSOL PRECURSOR MATERIAL**  
[54] **ELEMENT SOURCE D'AEROSOL COMPRENANT UN SUSCEPTEUR ET UN MATERIAU PRECURSEUR D'AEROSOL COMBINES**  
[72] HEJAZI, VAHID, US  
[71] RAI STRATEGIC HOLDINGS, INC., US  
[85] 2020-12-18  
[86] 2019-06-21 (PCT/IB2019/055270)  
[87] (WO2019/244127)  
[30] US (16/015,680) 2018-06-22

[21] **3,105,441**  
[13] A1

[51] **Int.Cl. H04N 19/635 (2014.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR FILTERING IN VIDEO CODING**  
[54] **APPAREIL ET PROCEDE DE FILTRAGE EN CODAGE VIDEO**  
[72] IKONIN, SERGEY YURIEVICH, CN  
[72] CHERNYAK, ROMAN IGOREVICH, CN  
[72] CHEN, JIANLE, US  
[72] KURYSHEV, DMITRY, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/RU2019/050100)  
[87] (WO2020/009617)  
[30] US (62/693,441) 2018-07-02  
[30] US (62/725,845) 2018-08-31  
[30] US (62/731,967) 2018-09-16  
[30] US (62/731,972) 2018-09-17  
[30] US (62/735,722) 2018-09-24  
[30] US (62/757,732) 2018-11-08  
[30] US (62/793,866) 2019-01-17

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[21] **3,105,442**  
[13] A1

[51] **Int.Cl. H04N 19/80 (2014.01) H04N 19/124 (2014.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR FILTERING IN VIDEO CODING**  
[54] **APPAREIL ET PROCEDE DE FILTRAGE DANS UN CODAGE VIDEO**  
[72] IKONIN, SERGEY YURIEVICH, CN  
[72] STEPIN, VICTOR ALEXEEVICH, CN  
[72] KURYSHEV, DMITRY, CN  
[72] CHEN, JIANLE, US  
[72] CHERNYAK, ROMAN IGOREVICH, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/RU2019/050101)  
[87] (WO2020/009618)  
[30] US (62/693,441) 2018-07-02  
[30] US (62/725,845) 2018-08-31  
[30] US (62/731,967) 2018-09-16  
[30] US (62/731,972) 2018-09-17  
[30] US (62/735,722) 2018-09-24  
[30] US (62/757,732) 2018-11-08  
[30] US (62/793,866) 2019-01-17

[21] **3,105,443**  
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01)**  
[25] FR  
[54] **OPTICAL GUIDE FOR DIFFUSING LIGHT RADIATION, MODULE AND DEVICE FOR TRANSCUTANEOUS IRRADIATION, IN PARTICULAR TRANSCRANIAL IRRADIATION**  
[54] **GUIDE OPTIQUE DE DIFFUSION DE RAYONNEMENT LUMINEUX, MODULE ET DISPOSITIF D'IRRADIATION TRANSCUTANEE, EN PARTICULIER D'IRRADIATION TRANSCRANIENNE**  
[72] BLIVET, GUILLAUME, FR  
[72] MOREAU, GUILLAUME, FR  
[72] COCHARD, ETIENNE, FR  
[71] REGENLIFE, FR  
[85] 2020-08-11  
[86] 2019-02-18 (PCT/EP2019/053984)  
[87] (WO2019/158758)  
[30] EP (18305162.2) 2018-02-16

[21] **3,105,445**  
[13] A1

[51] **Int.Cl. G01R 31/40 (2020.01) H02J 3/24 (2006.01) H02J 3/46 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ANALYZING EFFECTS OF ELECTRICAL PERTURBATIONS ON EQUIPMENT IN AN ELECTRICAL SYSTEM**  
[54] **SYSTEMES ET PROCEDES D'ANALYSE D'EFFETS DE PERTURBATIONS ELECTRIQUES SUR UN EQUIPEMENT DANS UN SYSTEME ELECTRIQUE**  
[72] BICKEL, JON A., US  
[72] SABIN, DANIEL D., US  
[71] SCHNEIDER ELECTRIC USA, INC., US  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/US2019/040536)  
[87] (WO2020/010222)  
[30] US (62/694,791) 2018-07-06  
[30] US (62/770,737) 2018-11-21  
[30] US (62/770,741) 2018-11-21  
[30] US (62/770,730) 2018-11-21  
[30] US (62/770,732) 2018-11-21  
[30] US (62/785,424) 2018-12-27

[21] **3,105,446**  
[13] A1

[51] **Int.Cl. H04N 19/80 (2014.01) H04N 19/129 (2014.01) H04N 19/60 (2014.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR FILTERING IN VIDEO CODING**  
[54] **APPAREIL ET PROCEDE DE FILTRAGE EN CODAGE VIDEO**  
[72] STEPIN, VICTOR ALEXEEVICH, CN  
[72] IKONIN, SERGEY YURIEVICH, CN  
[72] CHERNYAK, ROMAN IGOREVICH, CN  
[72] CHEN, JIANLE, US  
[72] KURYSHEV, DMITRY, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/RU2019/050102)  
[87] (WO2020/009619)  
[30] US (62/693,441) 2018-07-02  
[30] US (62/725,845) 2018-08-31  
[30] US (62/731,967) 2018-09-16  
[30] US (62/731,972) 2018-09-17  
[30] US (62/735,722) 2018-09-24  
[30] US (62/757,732) 2018-11-08  
[30] US (62/793,866) 2019-01-17

[21] **3,105,447**  
[13] A1

[25] EN  
[54] **ZONE SPECIFIC AIRFLOW CONDITION FORECASTING SYSTEM**  
[54] **SYSTEME DE PREVISION DE CONDITION D'ECOULEMENT D'AIR SPECIFIQUE A UNE ZONE**  
[72] BOURKE, PETER A., AU  
[71] CPP INCORPORATED, US  
[85] 2020-12-30  
[86] 2018-07-25 (PCT/US2018/043768)  
[87] (WO2020/018125)  
[30] US (16/041,592) 2018-07-20

[21] **3,105,448**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **ANTI-TCR ANTIBODY MOLECULES AND USES THEREOF**  
[54] **MOLECULES D'ANTICORPS ANTI-TCR ET LEURS UTILISATIONS**  
[72] TAN, SENG-LAI, US  
[72] VASH, BRIAN EDWARD, US  
[72] HSU, JONATHAN, US  
[72] GUNASEKERA, DILINI CHARMAIN, US  
[72] PALAKURTHI, SANGEETHA SAGAR, US  
[72] LOEW, ANDREAS, US  
[71] ELSTAR THERAPEUTICS, INC., US  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/US2019/040592)  
[87] (WO2020/010250)  
[30] US (62/693,653) 2018-07-03  
[30] US (62/737,829) 2018-09-27  
[30] US (62/788,674) 2019-01-04  
[30] US (62/808,700) 2019-02-21



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[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4174 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/32 (2006.01) A61K 47/38 (2006.01) A61P 11/02 (2006.01)**

[25] EN

[54] **STABLE PHARMACEUTICAL FORMULATIONS OF OXYMETAZOLINE**

[54] **FORMULATIONS PHARMACEUTIQUES STABLES D'OXYMETAZOLINE**

[72] XIAO, KANGPING, US

[72] ZHAO, QIUXIA, US

[71] BAYER HEALTHCARE LLC, US

[71] XIAO, KANGPING, US

[71] ZHAO, QIUXIA, US

[85] 2020-12-30

[86] 2019-06-21 (PCT/US2019/038385)

[87] (WO2020/009812)

[30] US (62/693,086) 2018-07-02

[21] **3,105,451**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/50 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **PRECISION MEDICINE FOR TREATING AND PREVENTING SUICIDALITY**

[54] **MEDICAMENT DE PRECISION POUR LE TRAITEMENT ET LA PREVENTION DU RISQUE SUICIDAIRE**

[72] NICULESCU, ALEXANDER BOGDAN III, US

[71] INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, US

[71] UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US

[85] 2020-11-09

[86] 2018-05-14 (PCT/US2018/032540)

[87] (WO2018/209341)

[30] US (62/505,197) 2017-05-12

[21] **3,105,453**  
[13] A1

[51] **Int.Cl. H04N 19/70 (2014.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SIGNALING PICTURE ORDER COUNT VALUES FOR PICTURES INCLUDED IN CODED VIDEO**

[54] **SYSTEMES ET PROCEDES DE SIGNALISATION DE VALEURS DE COMPTAGE D'ORDRE D'IMAGE D'IMAGES COMPRISES DANS UNE VIDEO CODEE**

[72] DESHPANDE, SACHIN G., JP

[72] CHOI, BYEONGDOO, JP

[71] SHARP KABUSHIKI KAISHA, JP

[71] FG INNOVATION COMPANY LIMITED, CN

[85] 2020-12-30

[86] 2019-06-28 (PCT/JP2019/025981)

[87] (WO2020/009044)

[30] US (62/692,839) 2018-07-01

[30] US (62/739,059) 2018-09-28

[30] US (62/752,226) 2018-10-29

[21] **3,105,450**  
[13] A1

[51] **Int.Cl. A61B 17/88 (2006.01) A61B 17/34 (2006.01) A61B 17/70 (2006.01)**

[25] EN

[54] **BONE MATERIAL DISPENSING SYSTEM WITH LOCKING MEMBER**

[54] **SYSTEME DE DISTRIBUTION DE MATERIAU OSSEUX AVEC ELEMENT DE VERROUILLAGE**

[72] DERIDDER, STEVEN D., US

[72] GOOSBY, RALPH D., US

[72] VASQUEZ, ERICK, US

[71] DEWEY, JONATHAN M., US

[71] WARSAW ORTHOPEDIC, INC., US

[85] 2020-12-30

[86] 2019-06-27 (PCT/US2019/039396)

[87] (WO2020/009882)

[30] US (16/026,647) 2018-07-03

[21] **3,105,452**  
[13] A1

[51] **Int.Cl. G01N 21/01 (2006.01) G06T 7/136 (2017.01) G06T 7/269 (2017.01) G01N 21/03 (2006.01) G01N 21/88 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR SELECTING SLIDE MEDIA IMAGE READ LOCATION**

[54] **PROCEDE ET APPAREIL POUR SELECTIONNER UN EMLACEMENT DE LECTURE D'IMAGE SUR SUPPORT DE LAME**

[72] DING, ZHONG, US

[72] MILLER, JOHANNA JULIA-TRECASO, US

[72] DIMAGNO, THEODORE J., US

[71] ORTHO-CLINICAL DIAGNOSTICS, INC., US

[85] 2020-12-30

[86] 2019-06-27 (PCT/US2019/039604)

[87] (WO2020/009908)

[30] US (62/693,110) 2018-07-02

[30] US (62/849,085) 2019-05-16

[21] **3,105,454**  
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/68 (2017.01) A61K 38/16 (2006.01) A61P 35/00 (2006.01) C07K 14/78 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL PROTEIN MOLECULES COMPRISING DECORIN AND USE THEREOF**

[54] **MOLECULES PROTEIQUES MULTIFONCTIONNELLES COMPRENANT DE LA DECORINE ET UTILISATION ASSOCIEE**

[72] BLECK, GREGORY T., US

[71] CATALENT PHARMA SOLUTIONS, LLC, US

[85] 2020-12-30

[86] 2019-06-28 (PCT/US2019/039862)

[87] (WO2020/009938)

[30] US (62/693,766) 2018-07-03

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[21] **3,105,455**  
[13] A1

[51] **Int.Cl. G16B 30/00 (2019.01) G16B 20/00 (2019.01) G16B 20/30 (2019.01)**

[25] EN

[54] **BIOREACHABLE PREDICTION TOOL WITH BIOLOGICAL SEQUENCE SELECTION**

[54] **OUTIL DE PREDICTION BIOATTEIGNABLE AVEC SELECTION DE SEQUENCE BIOLOGIQUE**

[72] CHOWDHURY, ANUPAM, US

[72] DEAN, ERIK JEDEDIAH, US

[72] SHEARER, ALEXANDER GLENNON, US

[72] TYMOSHENKO, STEPAN, US

[72] WYNN, MICHELLE L., US

[71] ZYMERGEN INC., US

[85] 2020-12-30

[86] 2019-08-14 (PCT/US2019/046580)

[87] (WO2020/037085)

[30] US (62/764,819) 2018-08-15

[30] US (62/764,861) 2018-08-15

[30] US (62/720,811) 2018-08-21

[30] US (62/720,839) 2018-08-21

[21] **3,105,456**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/423 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **FUSED RING COMPOUND HAVING UREA STRUCTURE**

[54] **COMPOSE CYCLIQUE FUSIONNE AYANT UNE STRUCTURE D'UREE**

[72] NAKAMURA, TSUYOSHI, JP

[72] AKIU, MAYUKO, JP

[72] TSUJI, TAKASHI, JP

[72] TANAKA, JUN, JP

[72] TERAYAMA, KOJI, JP

[72] YOKOYAMA, MIKA, JP

[72] PINKERTON, ANTHONY B., US

[72] SESSIONS, EDWARD HAMPTON, US

[71] DAIICHI SANKYO COMPANY, LIMITED, JP

[71] SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE, US

[85] 2020-12-30

[86] 2019-07-03 (PCT/US2019/040595)

[87] (WO2020/010252)

[30] US (62/694,373) 2018-07-05

[21] **3,105,457**  
[13] A1

[51] **Int.Cl. G01N 21/01 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **DRY SLIDE ASSAY USING REDUCED READING WINDOW**

[54] **ANALYSE DE LAME SECHE A L'AIDE D'UNE FENETRE DE LECTURE REDUITE**

[72] DING, ZHONG, US

[72] KIRSCH, ANDREW M., US

[72] SCALICE, EDWARD R., US

[72] WOJTASIEWICZ, BENJAMIN, US

[71] ORTHO-CLINICAL DIAGNOSTICS, INC., US

[85] 2020-12-30

[86] 2019-07-01 (PCT/US2019/040067)

[87] (WO2020/009962)

[30] US (62/693,120) 2018-07-02

[21] **3,105,458**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A01N 43/56 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **URACIL COMPOUND AND USE THEREOF**

[54] **COMPOSE URACILE ET SON UTILISATION**

[72] TORIUMI, TATSUYA, JP

[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP

[85] 2020-12-30

[86] 2019-07-04 (PCT/JP2019/026690)

[87] (WO2020/009193)

[30] JP (2018-128121) 2018-07-05

[21] **3,105,459**  
[13] A1

[51] **Int.Cl. G03B 42/06 (2021.01)**

[25] EN

[54] **IMAGING DEVICES WITH SELECTIVELY ALTERABLE CHARACTERISTICS**

[54] **DISPOSITIFS D'IMAGERIE A CARACTERISTIQUES SELECTIVEMENT MODIFIABLES**

[72] HAQUE, YUSUF S., US

[72] AKKARAJU, SANDEEP, US

[72] BRYZEK, JANUSZ, US

[72] SKRENES, LARRY, US

[71] EXO IMAGING, INC., US

[85] 2020-12-30

[86] 2019-09-16 (PCT/US2019/051328)

[87] (WO2020/068473)

[30] US (62/736,283) 2018-09-25

[21] **3,105,460**  
[13] A1

[51] **Int.Cl. C12N 15/64 (2006.01) C12N 1/20 (2006.01) C12N 9/22 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHODS FOR ENGINEERING BACTERIA FIT FOR EUKARYOTIC MRNA PRODUCTION, EXPORT, AND TRANSLATION IN A EUKARYOTIC HOST**

[54] **SYSTEME ET PROCEDES DE MODIFICATION DE BACTERIES ADAPTEES A LA PRODUCTION, L'EXPORTATION ET LA TRADUCTION D'ARNM EUKARYOTE DANS UN HOTE EUKARYOTE**

[72] SAYRE, RICHARD, US

[72] COSTA-NUNES, PEDRO, US

[72] YIN, GUOHUA, US

[71] PEBBLE LABS USA, INC., US

[85] 2020-12-30

[86] 2019-07-05 (PCT/US2019/040747)

[87] (WO2020/010344)

[30] US (62/693,963) 2018-07-04

[21] **3,105,461**  
[13] A1

[51] **Int.Cl. H04N 19/103 (2014.01) H04N 19/119 (2014.01) H04N 19/157 (2014.01) H04N 19/176 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **ENCODER, DECODER, ENCODING METHOD, AND DECODING METHOD**

[54] **DISPOSITIF DE CODAGE, DISPOSITIF DE DECODAGE, PROCEDE DE CODAGE ET PROCEDE DE DECODAGE**

[72] ABE, KIYOFUMI, JP

[72] LIAO, RU LING, SG

[72] LIM, CHONG SOON, SG

[72] SUN, HAI WEI, SG

[72] TEO, HAN BOON, SG

[72] LI, JING YA, SG

[72] SHASHIDHAR, SUGHOSH PAVAN, SG

[72] NISHI, TAKAHIRO, JP

[72] TOMA, TADAMASA, JP

[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US

[85] 2020-12-31

[86] 2019-07-02 (PCT/JP2019/026212)

[87] (WO2020/009086)

[30] US (62/693,987) 2018-07-04

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[21] **3,105,462**  
[13] A1

[51] **Int.Cl. G01V 1/36 (2006.01) G01V 1/28 (2006.01)**  
[25] EN  
[54] **SYSTEME ET METHODE OF SURFACE CONSISTENT PROCESSING**  
[54] **SYSTEME ET PROCEDE DE TRAITEMENT COHERENT DE SURFACE**  
[72] BAEK, HYOUNGSU, US  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-12-30  
[86] 2019-07-01 (PCT/US2019/040108)  
[87] (WO2020/009983)  
[30] US (62/693,206) 2018-07-02

[21] **3,105,463**  
[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61K 31/194 (2006.01) A61P 25/20 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **POTASSIUM ENRICHED TOPICAL FORMULATIONS FOR PAIN RELIEF AND SLEEP AID**  
[54] **FORMULATIONS TOPIQUES ENRICHIES EN POTASSIUM POUR SOULAGER LA DOULEUR ET FAVORISER LE SOMMEIL**  
[72] BURMASTER, BRIAN, ES  
[71] BURMASTER, BRIAN, ES  
[85] 2020-12-30  
[86] 2020-01-30 (PCT/US2020/015776)  
[87] (WO2020/163143)  
[30] US (62/803,277) 2019-02-08

[21] **3,105,464**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6883 (2018.01) A61P 1/00 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING REFRACTORY INFLAMMATORY DISEASE USING TRANSCRIPTOMIC AND GENETIC RISK SIGNATURES**  
[54] **METHODES DE TRAITEMENT D'UNE MALADIE INFLAMMATOIRE REFRACTAIRE A L'AIDE DE SIGNATURES DE RISQUES GENETIQUES ET TRANSCRIPTOMIQUES**  
[72] POTDAR, ALKA, US  
[72] MCGOVERN, DERMOT P., US  
[72] BILSBOROUGH, JANINE, US  
[72] TARGAN, STEPHAN, US  
[71] CEDARS-SINAI MEDICAL CENTER, US  
[85] 2020-12-30  
[86] 2019-07-02 (PCT/US2019/040394)  
[87] (WO2020/010139)  
[30] US (62/694,935) 2018-07-06  
[30] US (62/786,207) 2018-12-28

[21] **3,105,465**  
[13] A1

[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 9/06 (2006.01) A61K 9/12 (2006.01) A61K 9/70 (2006.01) A61P 25/02 (2006.01) A61P 29/02 (2006.01)**  
[25] EN  
[54] **MEDICINAL PREPARATION FOR EXTERNAL USE**  
[54] **PREPARATION MEDICINALE A USAGE EXTERNE**  
[72] TANAKA, MASAYASU, JP  
[72] OYAMADA, YOSHIHIRO, JP  
[72] TAKADA, YOSHINORI, JP  
[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP  
[85] 2020-12-30  
[86] 2019-07-18 (PCT/JP2019/028251)  
[87] (WO2020/017585)  
[30] JP (2018-136147) 2018-07-19

[21] **3,105,466**  
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01)**  
[25] EN  
[54] **INVOICE CLASSIFICATION AND APPROVAL SYSTEM**  
[54] **SYSTEME DE CLASSIFICATION ET D'APPROBATION DE FACTURES**  
[72] SCHNITT, DAVID, US  
[71] SCHNITT, DAVID, US  
[85] 2020-12-30  
[86] 2019-07-08 (PCT/US2019/040897)  
[87] (WO2020/010365)  
[30] US (62/694,445) 2018-07-06

[21] **3,105,467**  
[13] A1

[51] **Int.Cl. C08G 65/48 (2006.01) C08F 290/00 (2006.01) C09K 9/02 (2006.01) G02B 1/04 (2006.01) G02B 5/23 (2006.01) G02C 7/10 (2006.01)**  
[25] EN  
[54] **PHOTOCHROMIC COMPOUND AND CURABLE COMPOSITION CONTAINING SAID PHOTOCHROMIC COMPOUND**  
[54] **COMPOSE PHOTOCHROMIQUE ET COMPOSITION DURCISSABLE CONTENANT LEDIT COMPOSE PHOTOCHROMIQUE**  
[72] NOGUCHI, TAKAO, JP  
[72] TAKENAKA, JUNJI, JP  
[72] MOMODA, JUNJI, JP  
[72] KAWASAKI, TAKAYOSHI, JP  
[72] SHIMIZU, YASUTOMO, JP  
[72] MIYAZAKI, MASAYUKI, JP  
[71] TOKUYAMA CORPORATION, JP  
[85] 2020-12-31  
[86] 2019-07-18 (PCT/JP2019/028358)  
[87] (WO2020/017610)  
[30] JP (2018-136374) 2018-07-20

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[21] **3,105,468**  
[13] A1

[51] **Int.Cl. A61F 5/14 (2006.01) A43B 7/22 (2006.01) A43B 7/24 (2006.01) A43B 17/02 (2006.01)**

[25] EN

[54] **AN ASSEMBLY FOR PROVIDING FOOTWEAR WITH A PLURALITY OF REMOVABLE AND INTERCHANGEABLE FOOTBEDS**

[54] **ENSEMBLE PERMETTANT DE FOURNIR UNE CHAUSSURE COMPRENANT UNE PLURALITE D'ASSISES PLANTAIRES AMOVIBLES ET INTERCHANGEABLES**

[72] MCCULLOCH, CAROLINE ROSE, AU

[71] FRANKIE4 IP 2 PTY LTD, AU

[85] 2020-12-31

[86] 2019-07-04 (PCT/AU2019/050705)

[87] (WO2020/006604)

[30] AU (2018902465) 2018-07-06

[30] AU (2019902139) 2019-06-19

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[21] **3,105,469**  
[13] A1

[51] **Int.Cl. A61F 2/06 (2013.01) A61F 2/07 (2013.01) A61L 27/18 (2006.01) A61L 27/34 (2006.01) A61L 27/40 (2006.01) A61L 27/50 (2006.01) A61L 27/58 (2006.01) A61L 31/06 (2006.01) A61L 31/10 (2006.01) A61L 31/12 (2006.01) A61L 31/14 (2006.01) A61L 33/00 (2006.01)**

[25] EN

[54] **CYLINDRICAL MEMBER FOR IMPLANTATION**

[54] **ELEMENT CYLINDRIQUE DESTINE A ETRE IMPLANTE**

[72] KOGAWA, TAISUKE, JP

[72] FUJITA, MASAKI, JP

[72] TANAHASHI, KAZUHIRO, JP

[72] YAMADA, SATOSHI, JP

[72] TANAKA, NOBUAKI, JP

[72] TSUCHIKURA, HIROSHI, JP

[71] TORAY INDUSTRIES, INC., JP

[85] 2020-12-31

[86] 2019-08-30 (PCT/JP2019/034060)

[87] (WO2020/045611)

[30] JP (2018-163208) 2018-08-31

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[21] **3,105,470**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/04 (2006.01) A61K 38/27 (2006.01) C07K 7/00 (2006.01) C07K 14/575 (2006.01) C07K 14/61 (2006.01)**

[25] EN

[54] **PEPTIDE-BASED INHIBITORS OF GROWTH HORMONE ACTION AND METHODS OF USE THEREOF**

[54] **INHIBITEURS PEPTIDIQUES DE L'ACTION DE L'HORMONE DE CROISSANCE ET LEURS PROCEDES D'UTILISATION**

[72] HOLUB, JUSTIN M., US

[72] KOPCHICK, JOHN J., US

[72] BASU, REETOBRATA, US

[71] OHIO UNIVERSITY, US

[85] 2020-12-30

[86] 2019-07-10 (PCT/US2019/041129)

[87] (WO2020/014307)

[30] US (62/696,458) 2018-07-11

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[21] **3,105,471**  
[13] A1

[51] **Int.Cl. C22C 19/07 (2006.01) B22F 1/00 (2006.01) C22C 1/04 (2006.01) C22C 1/05 (2006.01) C22F 1/10 (2006.01) C22F 1/00 (2006.01)**

[25] EN

[54] **COBALT-BASED ALLOY POWDER, COBALT-BASED ALLOY SINTERED BODY, AND METHOD FOR PRODUCING COBALT-BASED ALLOY SINTERED BODY**

[54] **POUDRE D'ALLIAGE A BASE DE COBALT, CORPS FRITTE D'ALLIAGE A BASE DE COBALT ET PROCEDE DE FABRICATION DE CORPS FRITTE D'ALLIAGE A BASE DE COBALT**

[72] WANG, YUTING, JP

[72] IMANO, SHINYA, JP

[71] MITSUBISHI HITACHI POWER SYSTEMS, LTD., JP

[85] 2020-12-31

[86] 2019-12-26 (PCT/JP2019/051097)

[87] (WO2020/179207)

[30] JP (PCT/JP2019/009207) 2019-03-07

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[21] **3,105,472**  
[13] A1

[51] **Int.Cl. G01N 21/17 (2006.01) G02B 5/10 (2006.01)**

[25] EN

[54] **SELF-ALIGNED HIGH FINESSE OPTICAL SENSOR CELL**

[54] **CELLULE DE CAPTEUR OPTIQUE DE HAUTE FINESSE AUTO-ALIGNEE**

[72] PICKRELL, KELLY, CA

[72] ODAME-ANKRAH, CHARLES ANIM, CA

[72] ROSENTERER, BRIAN WAYNE, CA

[71] GLOBAL ANALYZER SYSTEMS LIMITED, CA

[85] 2020-12-31

[86] 2019-07-03 (PCT/CA2019/050917)

[87] (WO2020/006633)

[30] US (62/693,594) 2018-07-03

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[21] **3,105,473**  
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06K 19/07 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DYNAMIC GENERATION OF URL BY SMART CARD**

[54] **SYSTEME ET PROCEDE DE GENERATION DYNAMIQUE D'URL PAR UNE CARTE A PUCE**

[72] RULE, JEFFREY, US

[72] LUTZ, WAYNE, US

[72] MORETON, PAUL, US

[72] OSBORN, KEVIN, US

[71] CAPITAL ONE SERVICES, LLC, US

[85] 2020-12-30

[86] 2019-07-10 (PCT/US2019/041217)

[87] (WO2020/014369)

[30] US (16/034,229) 2018-07-12

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[21] **3,105,474**  
[13] A1

[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/103 (2014.01) H04N 19/122 (2014.01) H04N 19/124 (2014.01) H04N 19/129 (2014.01) H04N 19/13 (2014.01) H04N 19/176 (2014.01) H04N 19/182 (2014.01) H04N 19/593 (2014.01) H04N 19/625 (2014.01)**

[25] EN

[54] **METHOD AND DEVICE FOR DECODING IMAGE BY USING PARTITION UNIT INCLUDING ADDITIONAL REGION**

[54] **PROCEDE ET DISPOSITIF DE DECODAGE D'IMAGE AU MOYEN D'UNE UNITE DE PARTITION COMPRENANT UNE REGION SUPPLEMENTAIRE**

[72] KIM, KI BAEK, KR

[72] JEONG, JE CHANG, KR

[71] INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY, KR

[85] 2020-12-31

[86] 2018-07-03 (PCT/KR2018/007520)

[87] (WO2019/009590)

[30] KR (10-2017-0084517) 2017-07-03

[30] KR (10-2017-0090638) 2017-07-17

[30] KR (10-2018-0055980) 2018-05-16

[30] KR (10-2018-0076918) 2018-07-03

[30] KR (10-2018-0076932) 2018-07-03

[21] **3,105,475**  
[13] A1

[51] **Int.Cl. B05B 13/06 (2006.01) B08B 9/093 (2006.01)**

[25] EN

[54] **NOZZLE ARRANGEMENT FOR INJECTING LIQUID INTO A TANK**

[54] **AGENCEMENT DE BUSE POUR INJECTER UN LIQUIDE DANS UN RESERVOIR**

[72] WETLESEN, KAARE WESSEL, DK

[72] NIELSEN, OLE MELDGAARD, DK

[71] ORECO A/S, DK

[85] 2020-12-31

[86] 2019-07-24 (PCT/DK2019/050234)

[87] (WO2020/020424)

[30] DK (PA 2018 70507) 2018-07-27

[21] **3,105,476**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4439 (2006.01) A61K 31/5415 (2006.01) A61K 47/02 (2006.01) A61K 47/40 (2006.01) A61P 25/06 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING MELOXICAM**

[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DU MELOXICAM**

[72] TABUTEAU, HERRIOT, US

[71] AXSOME THERAPEUTICS, INC., US

[85] 2020-12-31

[86] 2019-07-03 (PCT/US2019/040495)

[87] (WO2020/010196)

[30] US (62/693,871) 2018-07-03

[30] US (62/802,198) 2019-02-06

[30] US (62/803,756) 2019-02-11

[30] US (62/835,613) 2019-04-18

[30] US (62/846,311) 2019-05-10

[30] US (62/860,705) 2019-06-12

[21] **3,105,477**  
[13] A1

[51] **Int.Cl. G07D 11/16 (2019.01) B65H 29/12 (2006.01) G07D 11/00 (2019.01) G07F 19/00 (2006.01)**

[25] EN

[54] **A DEVICE, AN APPARATUS AND A METHOD FOR DIRECTING BANK NOTES**

[54] **DISPOSITIF, APPAREIL ET PROCEDE D'ORIENTATION DE BILLETS DE BANQUE**

[72] RABINOVICH, PAVEL, CA

[72] SOTNIKOV, ANTON, CA

[72] RUSAKOV, YURIY, CA

[71] SUZOHAPP CANADA ULC, CA

[71] SCAN COIN AB, SE

[85] 2020-12-31

[86] 2019-07-10 (PCT/SE2019/050686)

[87] (WO2020/013757)

[30] SE (1850874-7) 2018-07-10

[21] **3,105,478**  
[13] A1

[51] **Int.Cl. A47G 29/14 (2006.01) H04W 12/06 (2021.01) G06Q 10/08 (2012.01) H04L 9/32 (2006.01)**

[25] EN

[54] **SMART UNATTENDED HOME DELIVERY BOX**

[54] **BOITE DE LIVRAISON A DOMICILE INTELLIGENTE SANS SURVEILLANCE**

[72] CHOWDHURY, AMOR, SI

[72] URBANIJA, MILOS, SI

[72] GOSTE, LUKA, SI

[72] IGREC, DALIBOR, SI

[71] MARGENTO R&D D.O.O., SI

[85] 2020-12-31

[86] 2018-07-30 (PCT/EP2018/070590)

[87] (WO2020/025098)

[21] **3,105,479**  
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 5/18 (2006.01) B32B 7/12 (2006.01) B32B 27/06 (2006.01) B32B 27/08 (2006.01) B32B 27/12 (2006.01) B32B 27/20 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01) B32B 27/38 (2006.01) B32B 37/00 (2006.01)**

[25] EN

[54] **LIGHT WEIGHT FIRE RESISTANT SMC COMPOSITION**

[54] **COMPOSITION DE SMC LEGERE RESISTANTE AU FEU**

[72] ROBBINS, JEFFREY R., US

[72] PACHHA, RANJIT, CA

[71] MAGNA EXTERIORS INC., CA

[85] 2020-12-30

[86] 2019-07-11 (PCT/US2019/041381)

[87] (WO2020/014467)

[30] US (62/696,608) 2018-07-11

[30] US (62/696,612) 2018-07-11

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[21] **3,105,480**  
[13] A1

[51] **Int.Cl. A61F 2/97 (2013.01)**  
[25] EN  
[54] **VASCULAR AND AORTIC GRAFTS AND DEPLOYMENT TOOL**  
[54] **GREFFONS VASCULAIRES ET AORTIQUES ET OUTIL DE DEPLOIEMENT**  
[72] PALERMO, THOMAS J., US  
[72] LEE, PIN-HSUAN, US  
[72] JEN, JIMMY, US  
[71] AQUEDEON MEDICAL, INC., US  
[85] 2020-12-31  
[86] 2019-07-03 (PCT/US2019/040566)  
[87] (WO2020/010237)  
[30] US (62/693,897) 2018-07-03

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[21] **3,105,481**  
[13] A1

[51] **Int.Cl. F21S 4/22 (2016.01)**  
[25] EN  
[54] **FLEXIBLE LIGHTING PANEL AND LIGHTING FIXTURE**  
[54] **PANNEAU D'ECLAIRAGE FLEXIBLE ET LUMINAIRE**  
[72] SALTA, SHANE, US  
[71] GLOWGADGET, LLC, US  
[85] 2020-12-31  
[86] 2019-07-03 (PCT/US2019/040582)  
[87] (WO2020/010243)  
[30] US (62/693,795) 2018-07-03

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[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61B 17/70 (2006.01)**  
[25] EN  
[54] **INTRAOPERATIVE ALIGNMENT ASSESSMENT SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE D'EVALUATION D'ALIGNEMENT PEROPERATOIRE**  
[72] GULLOTTI, DAVID MICHAEL, US  
[72] SOLTANIANZADEH, AMIR HOSSEIN, US  
[72] THEODORE, NICHOLAS, US  
[72] RUPPEL, EDWARD FREDERICK III, US  
[72] FRANCONI, NICHOLAS GRIESMER, US  
[72] ROUT, SRITAM PARASHAR, IN  
[72] FUJITA, SAKI, US  
[72] CHELALA, MARC, CA  
[72] COWDRICK, KYLE ROBERT, US  
[72] TORRES, MARIA FERNANDA, VE  
[71] SPINE ALIGN, LLC, US  
[85] 2020-12-31  
[86] 2018-12-31 (PCT/US2018/068212)  
[87] (WO2020/009723)  
[30] US (16/026,754) 2018-07-03

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[13] A1

[51] **Int.Cl. G01R 19/00 (2006.01) G01R 31/00 (2006.01) G01R 31/08 (2020.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ANALYZING AND OPTIMIZING DYNAMIC TOLERANCE CURVES**  
[54] **SYSTEMES ET PROCEDES POUR ANALYSER ET OPTIMISER DES COURBES DE TOLERANCE DYNAMIQUE**  
[72] MENZEL, JOHANNES, FR  
[72] BICKEL, JON A., US  
[71] SCHNEIDER ELECTRIC USA, INC., US  
[85] 2020-12-31  
[86] 2019-07-03 (PCT/US2019/040650)  
[87] (WO2020/010281)  
[30] US (62/694,791) 2018-07-06  
[30] US (62/770,730) 2018-11-21  
[30] US (62/770,737) 2018-11-21  
[30] US (62/770,732) 2018-11-21  
[30] US (62/770,741) 2018-11-21  
[30] US (62/785,424) 2018-12-27

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[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 17/06 (2006.01)**  
[25] EN  
[54] **PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES**  
[54] **DERIVES DE PYRROLO[1,2-B]PYRIDAZINE**  
[72] AMMANN, STEPHEN, US  
[72] BACON, ELIZABETH M., US  
[72] BRIZGYS, GEDIMINAS, US  
[72] CHIN, ELBERT, US  
[72] CHOU, CHIENHUNG, US  
[72] COTTELL, JEROMY J., US  
[72] NDUKWE, MARILYN, US  
[72] TAYLOR, JAMES G., US  
[72] WRIGHT, NATHAN E., US  
[72] YANG, ZHENG-YU, US  
[72] ZIPFEL, SHEILA M., US  
[71] GILEAD SCIENCES, INC., US  
[85] 2020-12-30  
[86] 2019-07-11 (PCT/US2019/041382)  
[87] (WO2020/014468)  
[30] US (62/697,533) 2018-07-13

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[13] A1

[51] **Int.Cl. G06F 16/242 (2019.01) G06F 16/24 (2019.01) G06F 16/245 (2019.01)**  
[25] EN  
[54] **DATA EXPLORATION AS SEARCH OVER AUTOMATED PRE-GENERATED PLOT OBJECTS**  
[54] **EXPLORATION DE DONNEES EN TANT QUE RECHERCHE SUR DES OBJETS DE TRACE PRE-GENERES AUTOMATIQUEMENT**  
[72] IMIELNSKI, TOMASZ, US  
[71] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US  
[85] 2020-12-31  
[86] 2019-07-08 (PCT/US2019/040808)  
[87] (WO2020/014124)  
[30] US (62/695,641) 2018-07-09

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[13] A1

[51] **Int.Cl. A61D 7/00 (2006.01) A61J 1/10 (2006.01) B65D 75/58 (2006.01)**  
[25] EN  
[54] **STAND ALONE DISPENSING POUCH**  
[54] **POCHE DE DISTRIBUTION AUTONOME**  
[72] BREGEON, VERONIQUE, FR  
[71] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/US2019/040511)  
[87] (WO2020/014069)  
[30] US (62/696,715) 2018-07-11

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[13] A1

[51] **Int.Cl. G03F 1/62 (2012.01) G03F 1/64 (2012.01) G03F 1/68 (2012.01) B25J 15/02 (2006.01) B65G 47/86 (2006.01) G03F 7/20 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR POSITIONING AND CLAMPED CURING**  
[54] **APPAREIL DE POSITIONNEMENT ET DE DURCISSEMENT SERRE**  
[72] PETERS, MARTIN DIETER NICO, NL  
[72] DE FOLTER, MARCELLUS ANTONIUS, NL  
[71] ASML NETHERLANDS B.V., NL  
[85] 2020-12-31  
[86] 2019-06-03 (PCT/EP2019/064326)  
[87] (WO2020/007546)  
[30] EP (18181606.7) 2018-07-04  
[30] EP (18208040.8) 2018-11-23  
[30] EP (18214483.2) 2018-12-20  
[30] EP (19153678.8) 2019-01-25

[21] **3,105,489**  
[13] A1

[51] **Int.Cl. C12M 1/12 (2006.01) A61L 2/16 (2006.01) C12M 1/34 (2006.01)**  
[25] EN  
[54] **INSTALLATION FOR TREATING BIOLOGICAL LIQUID**  
[54] **INSTALLATION DE TRAITEMENT DE LIQUIDE BIOLOGIQUE**  
[72] JOURDAINNE, LAURENT, US  
[72] CIROU, SEBASTIEN, US  
[71] EMD MILLIPORE CORPORATION, US  
[85] 2020-12-31  
[86] 2019-05-15 (PCT/US2019/032376)  
[87] (WO2020/023104)  
[30] EP (18306016.9) 2018-07-27

[21] **3,105,490**  
[13] A1

[51] **Int.Cl. A45C 11/00 (2006.01)**  
[25] EN  
[54] **CONTACT LENS CASE**  
[54] **ETUI POUR LENTILLES DE CONTACT**  
[72] DALICHAU, BERNARD, US  
[72] PEREZ, GONZALO, US  
[72] PEREZ, MARCELO, US  
[71] BERLISI INDUSTRIES, US  
[85] 2020-12-31  
[86] 2019-07-08 (PCT/US2019/040832)  
[87] (WO2020/014135)  
[30] US (62/695,147) 2018-07-08

[21] **3,105,492**  
[13] A1

[51] **Int.Cl. G01N 29/22 (2006.01) A61B 8/00 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUSES FOR PACKAGING AN ULTRASOUND-ON-A-CHIP**  
[54] **PROCEDES ET APPAREILS D'ENCAPSULATION D'UNE PUCE A ULTRASONS**  
[72] LIU, JIANWEI, US  
[72] FIFE, KEITH G., US  
[71] BUTTERFLY NETWORK, INC., US  
[85] 2020-12-30  
[86] 2019-07-03 (PCT/US2019/040516)  
[87] (WO2020/010207)  
[30] US (62/694,810) 2018-07-06

[21] **3,105,493**  
[13] A1

[51] **Int.Cl. A47J 37/06 (2006.01) A47J 36/32 (2006.01)**  
[25] EN  
[54] **USER INTERFACE FOR A TOASTER**  
[54] **INTERFACE UTILISATEUR POUR UN GRILLE-PAIN**  
[72] CARBONE, PHILIP C., US  
[72] GALVIN, SHANNON, US  
[72] CEFALO, KRISTIN, US  
[72] O'DONNELL, RYAN, US  
[72] SIMMERS, RICHARD, US  
[72] TU, JOYCE CHIEN, US  
[72] HUNT, JAY, US  
[72] FISHER, MARTIN, US  
[72] POON, JAMES, US  
[72] COHEN, ERIC DAVID, US  
[71] REVOLUTION COOKING, LLC, US  
[85] 2020-12-31  
[86] 2019-07-08 (PCT/US2019/040842)  
[87] (WO2020/014142)  
[30] US (62/695,178) 2018-07-08  
[30] US (62/695,182) 2018-07-08  
[30] US (62/695,185) 2018-07-08  
[30] US (29/680,505) 2019-02-15

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[13] A1

[51] **Int.Cl. G10L 21/0232 (2013.01) G10L 15/30 (2013.01) G10L 21/0216 (2013.01) G10L 25/78 (2013.01) G10L 15/22 (2006.01) H04R 3/00 (2006.01)**  
[25] EN  
[54] **LINEAR FILTERING FOR NOISE-SUPPRESSED SPEECH DETECTION**  
[54] **FILTRAGE LINEAIRE POUR DETECTION DE PAROLE AVEC SUPPRESSION DE BRUIT**  
[72] SERESHKI, SAEED BAGHERI, US  
[72] GIACOBELLO, DANIELE, US  
[71] SONOS, INC., US  
[85] 2020-12-31  
[86] 2019-05-17 (PCT/US2019/032934)  
[87] (WO2019/222667)  
[30] US (15/984,073) 2018-05-18

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[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01)**  
[25] EN  
[54] **REMOTE MONITORING OF EQUIPMENT ASSOCIATED WITH RENAL TREATMENTS**  
[54] **SURVEILLANCE A DISTANCE D'UN EQUIPEMENT ASSOCIE A DES TRAITEMENTS RENAUX**  
[72] NIELSON, JAY D., US  
[72] STEWART, THOMAS L., US  
[72] COX, JONATHAN E., US  
[72] WAHLERS, TOBIN R., US  
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US  
[85] 2020-12-31  
[86] 2019-07-09 (PCT/US2019/040926)  
[87] (WO2020/014177)  
[30] US (16/031,194) 2018-07-10

[21] **3,105,497**  
[13] A1

[51] **Int.Cl. A01G 23/06 (2006.01)**  
[25] EN  
[54] **STUMP CUTTER TOOTH ASSEMBLY**  
[54] **ENSEMBLE DENT DE DESSOUCHUSE**  
[72] CARSON, DUANE E., US  
[72] ROOZEBOOM, KEITH L., US  
[72] WEINBERG, CLINT A., US  
[72] BLOOM, ROBBIE D., US  
[72] DISSELKOEN, MATTHEW R., US  
[72] VERZILLI, CLAUDIO CARRAFIELLO, US  
[71] KENNAMETAL INC., US  
[71] VERMEER MANUFACTURING COMPANY, US  
[85] 2020-12-31  
[86] 2019-07-12 (PCT/US2019/041626)  
[87] (WO2020/014626)  
[30] US (16/033,325) 2018-07-12

[21] **3,105,498**  
[13] A1

[51] **Int.Cl. E21D 11/08 (2006.01) E21D 11/38 (2006.01)**  
[25] EN  
[54] **TUNNEL LINING COMPOSED OF AT LEAST TWO CONCRETE ELEMENTS**  
[54] **CUVELAGE DE TUNNEL COMPOSE D'AU MOINS DEUX ELEMENTS EN BETON**  
[72] RIECHERS, JORG, DE  
[71] HERRENKNECHT AG, DE  
[85] 2020-12-31  
[86] 2019-06-24 (PCT/EP2019/066630)  
[87] (WO2020/007631)  
[30] EP (18181230.6) 2018-07-02

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[13] A1

[51] **Int.Cl. A61F 2/70 (2006.01) A61F 2/50 (2006.01) A61F 2/60 (2006.01) A61F 2/68 (2006.01)**  
[25] EN  
[54] **WEARABLE JOINT AUGMENTATION SYSTEM**  
[54] **SYSTEME D'AUGMENTATION D'ARTICULATION POUVANT ETRE PORTE**  
[72] MOONEY, LUKE, US  
[72] DUVAL, JEAN-FRANCOIS, US  
[72] HERR, HUGH, US  
[71] DEPHY, INC., US  
[85] 2020-12-31  
[86] 2019-07-09 (PCT/US2019/041047)  
[87] (WO2020/014257)  
[30] US (62/695,973) 2018-07-10

[21] **3,105,500**  
[13] A1

[51] **Int.Cl. G01J 5/10 (2006.01) G01J 5/04 (2006.01) G01J 5/06 (2006.01)**  
[25] EN  
[54] **INFRARED TEMPERATURE MEASUREMENT AND STABILIZATION THEREOF**  
[54] **MESURE DE TEMPERATURE INFRAROUGE ET PROCEDE DE STABILISATION ASSOCIE**  
[72] MASTON, ROBERT, US  
[71] CVG MANAGEMENT CORPORATION, US  
[71] MASTON, ROBERT, US  
[85] 2020-12-31  
[86] 2019-05-24 (PCT/US2019/034035)  
[87] (WO2019/227065)  
[30] US (15/988,025) 2018-05-24

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[13] A1

[51] **Int.Cl. C07D 491/052 (2006.01) A61K 31/436 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **SELECTIVE ESTROGEN RECEPTOR DEGRADERS**  
[54] **AGENTS DE DEGRADATION SELECTIFS DES RECEPTEURS DES OESTROGENES**  
[72] BASTIAN, JOLIE ANNE, US  
[72] COHEN, JEFFREY DANIEL, US  
[72] RUBIO, ALMUDENA, US  
[72] SALL, DANIEL JON, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2020-12-31  
[86] 2019-07-11 (PCT/US2019/041334)  
[87] (WO2020/014435)  
[30] US (62/697,100) 2018-07-12

[21] **3,105,503**  
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 5/18 (2006.01) B32B 27/06 (2006.01) B32B 27/08 (2006.01) B32B 27/12 (2006.01) B32B 27/20 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01) B32B 27/38 (2006.01) B32B 37/00 (2006.01)**  
[25] EN  
[54] **FIRE RESISTANT SMC LAMINATE**  
[54] **STRATIFIE SMC IGNIFUGE**  
[72] ROBBINS, JEFFREY R., US  
[72] PACHHA, RANJIT, CA  
[71] MAGNA EXTERIORS INC., CA  
[85] 2020-12-30  
[86] 2019-07-11 (PCT/US2019/041385)  
[87] (WO2020/014470)  
[30] US (62/696,612) 2018-07-11  
[30] US (62/696,608) 2018-07-11



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[13] A1

[51] **Int.Cl. C08L 89/04 (2006.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B32B 9/02 (2006.01) C08H 1/06 (2006.01) C08L 89/06 (2006.01) C14B 7/02 (2006.01) C14B 7/04 (2006.01)**

[25] EN

[54] **BIOFABRICATED LEATHER ARTICLES, AND METHODS THEREOF**

[54] **ARTICLES EN CUIR BIOFABRIQUE, ET PROCEDES ASSOCIES**

[72] SCHACHTSCHNEIDER, SARAH, US  
[72] VARADARAJU, HEMANTHRAM, US  
[72] SCHNEIDER, MORGAN, US  
[72] LEE, SUZANNE, US  
[72] CONGDON, KATHERINE AMY, GB  
[72] CLAYTON, CALLIE MCBRIDE, US  
[71] MODERN MEADOW, INC., US  
[85] 2020-12-31  
[86] 2019-07-16 (PCT/US2019/041971)  
[87] (WO2020/018516)  
[30] US (62/699,956) 2018-07-18

[21] **3,105,505**  
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01) G06Q 30/02 (2012.01) H04L 29/06 (2006.01)**

[25] EN

[54] **CHARITY DONATION SYSTEM**

[54] **SYSTEME DE DONS DE BIENFAISANCE**

[72] ISGAR, CHARLES, US  
[71] ISGAR, CHARLES, US  
[85] 2020-12-31  
[86] 2019-06-03 (PCT/US2019/035253)  
[87] (WO2019/232543)  
[30] US (15/996,368) 2018-06-01

[21] **3,105,506**  
[13] A1

[51] **Int.Cl. A61K 31/4545 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **DIMERIC IMMUNO-MODULATORY COMPOUNDS AGAINST CEREBLON-BASED MECHANISMS**

[54] **COMPOSES IMMUNOMODULATEURS DIMERES VISANT DES MECANISMES A BASE DE CEREBLON**

[72] BURNETTE, PEARLIE, US  
[72] LAWRENCE, NICHOLAS J., US  
[72] LAWRENCE, HARSHANI, US  
[71] H. LEE MOFFITT CANCER CENTER AND RESEARCH INSTITUTE, INC., US  
[85] 2020-12-30  
[86] 2019-07-11 (PCT/US2019/041413)  
[87] (WO2020/014489)  
[30] US (62/696,508) 2018-07-11

[21] **3,105,507**  
[13] A1

[51] **Int.Cl. B65G 39/09 (2006.01) F16C 13/00 (2006.01) F16J 15/32 (2016.01)**

[25] EN

[54] **CONVEYOR ROLLERS THAT INCLUDE A FLOATING BEARING**

[54] **ROULEAUX DE TRANSPORTEUR CONTENANT UN PALIER FLOTTANT**

[72] ROOZEBOOM, MATTHEW, US  
[71] PRECISION, INC., US  
[85] 2020-12-31  
[86] 2019-06-25 (PCT/US2019/038879)  
[87] (WO2020/009832)  
[30] US (16/029,061) 2018-07-06

[21] **3,105,508**  
[13] A1

[51] **Int.Cl. G10L 19/008 (2013.01) G10L 19/03 (2013.01)**

[25] EN

[54] **MULTISIGNAL AUDIO CODING USING SIGNAL WHITENING AS PREPROCESSING**

[54] **CODAGE AUDIO MULTI-SIGNAL UTILISANT UN BLANCHIMENT DE SIGNAL EN TANT QUE PRETRAITEMENT**

[72] FOTOPOULOU, ELENI, DE  
[72] MULTRUS, MARKUS, DE  
[72] DICK, SASCHA, DE  
[72] MARKOVIC, GORAN, DE  
[72] MABEN, PALLAVI, DE  
[72] KORSE, SRIKANTH, DE  
[72] BAYER, STEFAN, DE  
[72] DISCH, SASCHA, DE  
[72] HERRE, JURGEN, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2020-12-31  
[86] 2019-06-27 (PCT/EP2019/067256)  
[87] (WO2020/007719)  
[30] EP (18181767.7) 2018-07-04

[21] **3,105,509**  
[13] A1

[51] **Int.Cl. E01C 19/46 (2006.01) B29C 48/05 (2019.01) E01C 23/03 (2006.01) E01C 23/04 (2006.01)**

[25] EN

[54] **GLASS FIBER FOR ROAD REINFORCEMENT**

[54] **FIBRE DE VERRE POUR RENFORCEMENT DE ROUTE**

[72] BRANDT, LUC, BE  
[72] MOIREAU, PATRICK, FR  
[72] GACHET GUILLOT, PAULINE, FR  
[72] DIDIERJEAN, PATRICK, FR  
[71] OCV INTELLECTUAL CAPITAL, LLC, US  
[85] 2020-12-31  
[86] 2019-07-01 (PCT/US2019/040047)  
[87] (WO2020/014022)  
[30] US (62/695,318) 2018-07-09

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[13] A1

[51] **Int.Cl. C22B 1/00 (2006.01) C22B 3/00 (2006.01) C22B 7/00 (2006.01) C22B 26/12 (2006.01) C22B 47/00 (2006.01)**

[25] EN

[54] **PROCESS FOR THE RECYCLING OF SPENT LITHIUM ION CELLS**

[54] **PROCEDE DE RECYCLAGE DE PILES AU LITHIUM-ION USEES**

[72] ROHDE, WOLFGANG, DE

[72] ADERMANN, TORBEN, DE

[72] SCHIERLE-ARNDT, KERSTIN, DE

[72] GERKE, BIRGIT, DE

[71] BASF SE, DE

[85] 2020-12-31

[86] 2019-07-09 (PCT/EP2019/068357)

[87] (WO2020/011765)

[30] EP (18182709.8) 2018-07-10

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[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR INTELLIGENT DISINFECTION OF DISINFECTION ENVIRONMENTS THROUGH USE OF ULTRA-VIOLET LIGHTS**

[54] **SYSTEMES ET PROCEDES DE DESINFECTION INTELLIGENTE D'ENVIRONNEMENTS DE DESINFECTION GRACE A L'UTILISATION DE LUMIERES ULTRAVIOLETTES**

[72] KUPA, TIMUR, US

[72] HERRERA, RENE, US

[72] SONGKAKUL, PORNSAK, US

[71] SIEMENS INDUSTRY, INC., US

[85] 2020-12-31

[86] 2019-07-01 (PCT/US2019/040089)

[87] (WO2020/009975)

[30] US (16/026,317) 2018-07-03

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[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 10/08 (2012.01) F24F 11/39 (2018.01) G06Q 10/00 (2012.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND DEVICES FOR A SERVICE ORIENTED ARCHITECTURE FOR FACILITATING AIR FILTER REPLACEMENTS**

[54] **PROCEDES, SYSTEMES ET DISPOSITIFS POUR UNE ARCHITECTURE ORIENTEE SERVICE POUR FACILITER DES REMPLACEMENTS DE FILTRE A AIR**

[72] BARRY, KEVIN JAMES, US

[72] TARKINGTON, THADDEUS WORTH, US

[71] SECOND NATURE BRANDS, INC., US

[85] 2020-12-31

[86] 2019-07-02 (PCT/US2019/040251)

[87] (WO2020/010053)

[30] US (62/692,991) 2018-07-02

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[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/30 (2016.01)**

[25] EN

[54] **STEVIOI GLYCOSIDE AGGREGATES WITH SPECIFIC PARTICLE SIZE DISTRIBUTION**

[54] **AGREGATS DE GLYCOSIDES DE STEVIOL AYANT UNE DISTRIBUTION DE TAILLES DE PARTICULES SPECIFIQUE**

[72] GALAEV, IGOR, NL

[72] SPROS, FERDINAND ANTOINE, NL

[71] DSM IP ASSETS B.V., NL

[85] 2020-12-31

[86] 2019-07-18 (PCT/EP2019/069444)

[87] (WO2020/020755)

[30] EP (18185309.4) 2018-07-24

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[13] A1

[51] **Int.Cl. E04G 21/32 (2006.01) A62B 35/00 (2006.01) A62B 35/04 (2006.01)**

[25] EN

[54] **FALL PROTECTION DEVICE**

[54] **DISPOSITIF DE PROTECTION ANTICHUTE**

[72] MARTIN IGLESIAS, JAVIER, ES

[72] XAMMAR BOVE, PEDRO, ES

[71] ENCOFRADOS J. ALSINA, S.A., ES

[85] 2020-12-31

[86] 2018-07-16 (PCT/ES2018/070506)

[87] (WO2020/016462)

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[21] **3,105,518**  
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 34/14 (2006.01) E21B 43/114 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **METHOD OF SUBTERRANEAN FRACTURING**

[54] **PROCEDE DE FRACTURATION SOUTERRAINE**

[72] CHANG, FAKUEN FRANK, SA

[72] BOULDIN, BRETT, SA

[72] NUGRAHA, IKHSAN, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-12-31

[86] 2019-07-18 (PCT/US2019/042349)

[87] (WO2020/018755)

[30] US (16/038,817) 2018-07-18

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[21] **3,105,519**  
[13] A1

[51] **Int.Cl. H04W 92/18 (2009.01)**  
[25] EN  
[54] **CONTROL INFORMATION TRANSMISSION METHOD AND APPARATUS, RESOURCE POOL CONFIGURATION METHOD AND APPARATUS, AND COMMUNICATION DEVICE**  
[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS DE COMMANDE, PROCEDE ET APPAREIL DE CONFIGURATION DE GROUPE DE RESSOURCES ET DISPOSITIF DE COMMUNICATION**  
[72] LU, QIANXI, CN  
[72] LIN, HUEI-MING, AU  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2021-01-04  
[86] 2018-11-13 (PCT/CN2018/115283)  
[87] (WO2020/006955)  
[30] CN (201810729890.8) 2018-07-05  
[30] CN (201810731570.6) 2018-07-05  
[30] CN (201810730628.5) 2018-07-05  
[30] CN (201810799372.3) 2018-07-19  
[30] CN (201811028294.3) 2018-09-04  
[30] CN (201811026782.0) 2018-09-04  
[30] CN (201811027557.9) 2018-09-04

[21] **3,105,520**  
[13] A1

[51] **Int.Cl. A23G 3/34 (2006.01) B05B 15/68 (2018.01) A23G 3/26 (2006.01) B01J 2/00 (2006.01) B01J 2/12 (2006.01) B05B 13/02 (2006.01)**  
[25] EN  
[54] **COATING DEVICE WITH MOVABLE SPRAY NOZZLES**  
[54] **APPAREIL DE REVETEMENT A BUSES DE PULVERISATION MOBILES**  
[72] CUADRADO FERNANDEZ, PEDRO, ES  
[71] STE TECPHARM, S.L., ES  
[85] 2020-12-31  
[86] 2019-06-19 (PCT/ES2019/070425)  
[87] (WO2020/016465)  
[30] EP (18382536.3) 2018-07-18

[21] **3,105,521**  
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/415 (2006.01) A61K 31/4188 (2006.01) A61K 31/5365 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 231/24 (2006.01) C07D 413/06 (2006.01)**  
[25] EN  
[54] **SULFONIMIDAMIDE COMPOUNDS AS INHIBITORS OF INTERLEUKIN-1 ACTIVITY**  
[54] **COMPOSES DE SULFONIMIDAMIDE EN TANT QU'INHIBITEURS DE L'ACTIVITE DE L'INTERLEUKINE 1**  
[72] MCBRIDE, CHRISTOPHER, US  
[72] TRZOSS, LYNNIE LIN, US  
[72] BOLOOR, AMOGH, US  
[72] SOKOLOVA, NADEZDA, US  
[72] PASTOR, RICHARD M., US  
[72] STABEN, STEVEN THOMAS, US  
[72] STIVALA, CRAIG, US  
[72] VOLGRAF, MATTHEW, US  
[72] BRONNER, SARAH M., US  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2020-12-31  
[86] 2019-07-19 (PCT/US2019/042711)  
[87] (WO2020/018975)  
[30] US (62/701,313) 2018-07-20

[21] **3,105,522**  
[13] A1

[51] **Int.Cl. B61B 1/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR HARMONISING THE OPERATING STATUS OF PAIRS OF DOORS FORMED BY A TRAIN DOOR AND A PLATFORM DOOR**  
[54] **SYSTEME ET PROCEDE POUR HARMONISER L'ETAT DE FONCTIONNEMENT DE PAIRES DE PORTES FORMEES PAR UNE PORTE DE TRAIN ET UNE PORTE DE QUAI**  
[72] ENRICH TUDELA, JOAN, ES  
[72] KARATZAS, POLYCARPOS, ES  
[72] VAZQUEZ GALLEGO, FRANCISCO, ES  
[72] VIA LABRADA, SELVA, ES  
[72] CALERO SCANLAN, DAVID, ES  
[72] ALONSO ZARATE, JESUS, ES  
[71] MASATS, S.A., ES  
[85] 2020-12-31  
[86] 2019-07-10 (PCT/ES2019/070481)  
[87] (WO2020/016470)  
[30] EP (18382541.3) 2018-07-19

[21] **3,105,523**  
[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/20 (2006.01) C11D 3/48 (2006.01)**  
[25] EN  
[54] **A DETERGENT COMPOSITION**  
[54] **COMPOSITION DETERGENTE**  
[72] BASTOS, LUCIENE BAPTISTA, BR  
[72] SANTOS, TATIANA MARTINS ALVES, BR  
[72] PILLAI, RAVIKUMAR, US  
[71] SYMRISE AG, DE  
[85] 2021-01-04  
[86] 2018-07-18 (PCT/EP2018/069484)  
[87] (WO2020/015827)

[21] **3,105,524**  
[13] A1

[51] **Int.Cl. H04L 1/00 (2006.01) H04L 5/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING SEARCH SPACE PARAMETER, AND TERMINAL DEVICE**  
[54] **PROCEDE DE DETERMINATION DE PARAMETRE D'ESPACE DE RECHERCHE ET DISPOSITIF TERMINAL**  
[72] YANG, YU, CN  
[72] SUN, PENG, CN  
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN  
[85] 2021-01-04  
[86] 2019-07-04 (PCT/CN2019/094683)  
[87] (WO2020/011094)  
[30] CN (201810772269.X) 2018-07-13

[21] **3,105,525**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01)**  
[25] EN  
[54] **IMPROVED METHODS FOR LANDFILL VOLUME REDUCTION**  
[54] **PROCEDES AMELIORES DE REDUCTION DE VOLUME DE DECHARGES**  
[72] OPPENHEIM, JUDITH P., US  
[71] DEBRIS DIVERSION SOLUTIONS, US  
[85] 2020-12-31  
[86] 2019-07-23 (PCT/US2019/042956)  
[87] (WO2020/023465)  
[30] US (62/702,034) 2018-07-23

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[21] **3,105,526**  
[13] A1

[51] **Int.Cl. C02F 1/52 (2006.01)**  
[25] EN  
[54] **A TREATMENT OF ACID MINE DRAINAGE BY HYDRIDES, AND FORMATION OF ZERO VALENT IRON NANOPARTICLES**

[54] **TRAITEMENT DE DRAINAGE MINIER ACIDE PAR DES HYDRURES, ET FORMATION DE NANOPARTICULES DE FER DE VALENCE ZERO**

[72] BARNES, HUBERT LLOYD, US  
[72] LASAGA, ANTONIO C., US  
[71] GEOKINETICS, LLC, US  
[85] 2020-12-31  
[86] 2019-07-08 (PCT/IB2019/055815)  
[87] (WO2020/008444)  
[30] US (62/694,449) 2018-07-06  
[30] US (16/206,886) 2019-02-07

[21] **3,105,527**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 37/02 (2006.01) C12N 15/13 (2006.01)**  
[25] EN  
[54] **HUMAN IL-4R BINDING ANTIBODY, ANTIGEN BINDING FRAGMENT THEREOF, AND MEDICAL USE THEREOF**

[54] **ANTICORPS DE LIAISON A IL-4R HUMAIN, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION MEDICALE ASSOCIEE**

[72] LIAO, CHENG, CN  
[72] XU, ZUPENG, CN  
[72] JIANG, JIAHUA, CN  
[72] ZHANG, LIANSHAN, CN  
[72] QIAN, XUEMING, CN  
[72] TENG, FEI, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2021-01-04  
[86] 2019-08-23 (PCT/CN2019/102169)  
[87] (WO2020/038454)  
[30] CN (201810971269.2) 2018-08-24  
[30] CN (201811472752.2) 2018-12-04  
[30] CN (201910221311.3) 2019-03-22  
[30] CN (201910401923.0) 2019-05-15

[21] **3,105,528**  
[13] A1

[51] **Int.Cl. E21B 34/08 (2006.01) E21B 43/12 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PREVENTING SAND ACCUMULATION IN INVERTED ELECTRIC SUBMERSIBLE PUMP**

[54] **SYSTEMES ET PROCEDES DESTINES A EMPECHER L'ACCUMULATION DE SABLE DANS UNE POMPE SUBMERSIBLE ELECTRIQUE INVERSEE**

[72] EJIM, CHDIRIM ENOCH, SA  
[72] XIAO, JINJIANG, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-12-31  
[86] 2019-07-30 (PCT/US2019/044121)  
[87] (WO2020/028355)  
[30] US (16/049,016) 2018-07-30

[21] **3,105,529**  
[13] A1

[51] **Int.Cl. A01H 3/00 (2006.01) A01N 63/00 (2020.01) A01P 21/00 (2006.01) C05C 1/00 (2006.01) C05C 11/00 (2006.01)**  
[25] EN  
[54] **TEMPORALLY AND SPATIALLY TARGETED DYNAMIC NITROGEN DELIVERY BY REMODELED MICROBES**

[54] **DISTRIBUTION D'AZOTE DYNAMIQUE CIBLEE DANS LE TEMPS ET DANS L'ESPACE PAR DES MICROBES MODIFIES**

[72] TAMSIR, ALVIN, US  
[72] BLOCH, SARAH, US  
[72] REISINGER, MARK, US  
[72] SANDERS, ERNEST, US  
[72] BROGLIE, RICHARD, US  
[72] CLARK, ROSEMARY, US  
[72] TEMME, KARSTEN, US  
[71] PIVOT BIO, INC., US  
[85] 2020-12-30  
[86] 2019-07-11 (PCT/US2019/041429)  
[87] (WO2020/014498)  
[30] US (62/696,452) 2018-07-11  
[30] US (62/801,504) 2019-02-05

[21] **3,105,530**  
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01)**  
[25] EN  
[54] **SORBENT CARTRIDGE FOR DIALYSATE REGENERATION**

[54] **CARTOUCHE DE SORBANT POUR REGENERATION DE DIALYSAT**

[72] ADAMS, KERISSA, US  
[72] MOSS, JON, US  
[72] JENSEN, LYNN, US  
[72] MERCHANT, STEPHEN, US  
[71] FRESenius MEDICAL CARE HOLDINGS, INC., US  
[85] 2020-12-31  
[86] 2019-07-31 (PCT/US2019/044306)  
[87] (WO2020/028473)  
[30] US (62/712,674) 2018-07-31

[21] **3,105,531**  
[13] A1

[51] **Int.Cl. C07D 475/04 (2006.01) A23L 33/10 (2016.01) A23L 33/175 (2016.01) A61K 31/223 (2006.01) A61K 31/519 (2006.01) A61P 3/02 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01) A61P 19/10 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) C07C 229/08 (2006.01) C30B 7/08 (2006.01)**  
[25] EN  
[54] **CRYSTALLINE SALT OF 5-METHYL-(6S)-TETRAHYDROFOLIC ACID AND L-ISOLEUCINE ETHYL ESTER**

[54] **SEL CRISTALLIN D'ACIDE 5-METHYL-(6S)-TETRAHYDROFOLIQUE ET D'ESTER ETHYLIQUE DE L-ISOLEUCINE**

[72] MOSER, RUDOLF, CH  
[72] GROEHN, VIOLA, CH  
[72] BOEHNI STAMM, RUTH, CH  
[72] BLATTER, FRITZ, CH  
[72] SZELAGIEWICZ, MARTIN, CH  
[71] MERCK PATENT GMBH, DE  
[85] 2021-01-04  
[86] 2019-07-02 (PCT/EP2019/067694)  
[87] (WO2020/007836)  
[30] EP (18182278.4) 2018-07-06

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[21] **3,105,532**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/90 (2017.01)**

[25] EN

[54] **COMPUTER-IMPLEMENTED PROCESS ON AN IMAGE OF A BIOLOGICAL SAMPLE**

[54] **PROCEDE MIS EN ŒUVRE PAR ORDINATEUR SUR UNE IMAGE D'UN ECHANTILLON BIOLOGIQUE**

[72] POULAIN, LAURENT, FR

[72] LAURINAVICIUS, ARVYDAS, LT

[72] PLANCOULAIN, BENOIT, FR

[72] ELIE, NICOLAS, FR

[71] VILNIAUS UNIVERSITETAS, LT

[71] UNIVERSITE DE CAEN NORMANDIE, FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR

[71] CENTRE REGIONAL FRANCOIS BACLESSE, FR

[85] 2021-01-04

[86] 2019-06-27 (PCT/EP2019/067180)

[87] (WO2020/011549)

[30] EP (18182961.5) 2018-07-11

[21] **3,105,533**  
[13] A1

[51] **Int.Cl. G06F 21/60 (2013.01) G16H 10/60 (2018.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR GENERATING SYNTHETICALLY ANONYMIZED DATA FOR A GIVEN TASK**

[54] **PROCEDE ET SYSTEME DE GENERATION DE DONNEES SYNTHETIQUEMENT ANONYMISEES POUR UNE TACHE DONNEE**

[72] CHANDELIER, FLORENT, CA

[72] JESSON, ANDREW, CA

[72] DIJORIO, LISA, CA

[72] LOW-KAM, CECILE, CA

[72] SOUDAN, FLORIAN, CA

[72] HAVAEI, MOHAMMAD, CA

[72] CHAPADOS, NICOLAS, CA

[71] IMAGIA CYBERNETICS INC., CA

[85] 2020-12-31

[86] 2019-07-12 (PCT/IB2019/055972)

[87] (WO2020/012439)

[30] US (62/697,804) 2018-07-13

[21] **3,105,534**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **THIADIAZOLE IRAK4 INHIBITORS**

[54] **INHIBITEURS DE THIADIAZOLE IRAK4**

[72] AMMANN, STEPHEN, US

[72] BACON, ELIZABETH M., US

[72] BRIZGYS, GEDIMINAS, US

[72] CHIN, ELBERT, US

[72] CHOU, CHIENHUNG, US

[72] COTTELL, JEROMY J., US

[72] NDUKWE, MARILYN, US

[72] SHATSKIKH, MARINA, US

[72] TAYLOR, JAMES G., US

[72] WRIGHT, NATHAN E., US

[72] YANG, ZHENG-YU, US

[72] ZIPFEL, SHEILA M., US

[71] GILEAD SCIENCES, INC., US

[85] 2020-12-31

[86] 2019-08-13 (PCT/US2019/046391)

[87] (WO2020/036986)

[21] **3,105,535**  
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01) A61M 21/02 (2006.01) B32B 3/06 (2006.01) B32B 3/26 (2006.01) B32B 7/04 (2019.01) B32B 7/08 (2019.01) D02G 3/00 (2006.01) D02G 3/38 (2006.01) D04B 1/14 (2006.01) D04B 21/14 (2006.01)**

[25] EN

[54] **LAYERED YARN AND WEIGHTED BLANKET FOR DEEP PRESSURE THERAPY**

[54] **FIL EN COUCHES ET COUVERTURE LESTEE POUR UNE THERAPIE PAR PRESSION PROFONDE**

[72] HAMM, KATHRIN, US

[71] BEARABY INC., US

[85] 2020-12-31

[86] 2019-10-08 (PCT/US2019/055194)

[87] (WO2020/101823)

[30] US (16/193,792) 2018-11-16

[21] **3,105,538**  
[13] A1

[51] **Int.Cl. B65D 88/52 (2006.01) B65D 90/02 (2019.01) B65D 90/08 (2006.01)**

[25] EN

[54] **COLLAPSIBLE STORAGE AND TRANSPORTATION UNIT**

[54] **UNITE DE STOCKAGE ET DE TRANSPORT PLIABLE**

[72] LAWEE, ERIC, CA

[72] MADRUGA, DAVID, CA

[72] BOTELHO, ANTONIO, CA

[71] WORLD TRANS BIN INC., CA

[85] 2020-12-31

[86] 2019-07-23 (PCT/IB2019/056289)

[87] (WO2020/021452)

[30] US (62/701,966) 2018-07-23

[21] **3,105,540**  
[13] A1

[51] **Int.Cl. H04B 1/38 (2015.01) H04W 4/00 (2018.01)**

[25] EN

[54] **MOBILE DEVICE CASE AND METHOD OF DETECTING GUN SOUNDS USING A MOBILE DEVICE CASE**

[54] **BOITIER DE DISPOSITIF MOBILE ET PROCEDE DE DETECTION DE SONS D'ARME A FEU A L'AIDE D'UN BOITIER DE DISPOSITIF MOBILE**

[72] D'AMICO, JOSEPH N., US

[71] SECURITY SERVICES NORTHWEST, INC., US

[85] 2020-12-31

[86] 2020-06-08 (PCT/US2020/036620)

[87] (WO2020/251890)

[30] US (62/859,852) 2019-06-11

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[21] **3,105,541**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5517 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **CROSS-LINKED PYRROLOBENZODIAZEPINE DIMER (PBD) DERIVATIVE AND ITS CONJUGATES**

[54] **DERIVE DE DIMERE DE PYRROLOBENZODIAZEPINE RETICULE (PBD) ET SES CONJUGUES**

[72] ZHAO, ROBERT YONGXIN, US

[72] ZHUO, XIAOTAO, CN

[72] YANG, QINGLIANG, CN

[72] ZHAO, LINYAO, CN

[72] HUANG, YUANYUAN, CN

[72] YE, HANGBO, CN

[72] YANG, CHENGYU, CN

[72] LEI, JUN, CN

[72] GAI, SHUN, CN

[72] GUO, HUIHUI, CN

[72] JIA, JUNXIANG, CN

[72] BAI, LU, CN

[72] XIE, HONGSHENG, CN

[72] ZHOU, XIAOMAI, CN

[72] GUO, ZHIXIANG, CN

[72] LI, WENJUN, CN

[72] CAO, MINGJUN, CN

[72] ZHENG, JUN, CN

[72] YE, ZHICHANG, CN

[72] YANG, YANLEI, CN

[71] HANGZHOU DAC BIOTECH CO., LTD, CN

[85] 2021-01-04

[86] 2018-07-05 (PCT/CN2018/094586)

[87] (WO2020/006722)

[21] **3,105,542**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4439 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **CRYSTALLINE FORMS OF A LTA4H INHIBITOR**

[54] **FORMES CRISTALLINES D'UN INHIBITEUR DE LTA4H**

[72] KORDIKOWSKI, ANDREAS, CH

[72] WU, YANXIANG, CN

[71] NOVARTIS AG, CH

[85] 2020-12-31

[86] 2019-07-29 (PCT/IB2019/056436)

[87] (WO2020/026108)

[30] CN (PCT/CN2018/000278) 2018-07-31

[21] **3,105,543**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01)**

[25] EN

[54] **MEDICAL DEVICES FOR SHUNTS, OCCLUDERS, FENESTRATIONS AND RELATED SYSTEMS AND METHODS**

[54] **DISPOSITIFS MEDICAUX POUR DERIVATIONS, DISPOSITIFS D'OCCLUSION, FENESTRAGE ET SYSTEMES ET PROCEDES ASSOCIES**

[72] COLE, DANIEL S., US

[72] MCDANIEL, TOM R., US

[72] SHAW, EDWARD E., US

[72] SMITH, BENJAMIN A., US

[71] W. L. GORE & ASSOCIATES, INC., US

[85] 2020-12-30

[86] 2019-07-17 (PCT/US2019/042252)

[87] (WO2020/018699)

[30] US (62/699,815) 2018-07-18

[21] **3,105,545**  
[13] A1

[51] **Int.Cl. C07D 475/04 (2006.01) A61K 31/198 (2006.01) A61K 31/519 (2006.01) C07C 229/08 (2006.01)**

[25] EN

[54] **CRYSTALLINE SALTS OF 5-METHYL-(6S)-TETRAHYDROFOLIC ACID AND L-LEUCINE ETHYL ESTER**

[54] **SELS CRISTALLINS D'ACIDE 5-METHYL-(6S)-TETRAHYDROFOLIQUE ET D'ESTER ETHYLIQUE DE L-LEUCINE**

[72] MOSER, RUDOLF, CH

[72] GROEHN, VIOLA, CH

[72] BOEHNI STAMM, RUTH, CH

[72] BLATTER, FRITZ, CH

[72] SZELAGIEWICZ, MARTIN, CH

[71] MERCK PATENT GMBH, DE

[85] 2021-01-04

[86] 2019-07-02 (PCT/EP2019/067698)

[87] (WO2020/007839)

[30] EP (18182279.2) 2018-07-06

[21] **3,105,547**  
[13] A1

[51] **Int.Cl. A47F 10/04 (2006.01) G07F 7/06 (2006.01)**

[25] EN

[54] **CART LOCKING AND DISPENSING DEVICE**

[54] **DISPOSITIF DE VERROUILLAGE ET DE DISTRIBUTION DE CHARIOTS**

[72] LEVIN, ARYE, IL

[71] FREETAILE TECHNOLOGIES LTD., IL

[85] 2020-12-31

[86] 2019-07-08 (PCT/IL2019/050757)

[87] (WO2020/012466)

[30] IL (260455) 2018-07-08

[21] **3,105,550**  
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) A61G 11/00 (2006.01)**

[25] EN

[54] **PHOTOTHERAPY SYSTEM, APPARATUS, AND KIT**

[54] **SYSTEME, APPAREIL ET KIT DE PHOTOTHERAPIE**

[72] SUBRAHMANYAM PRASAD, MUDDAM, IN

[72] KOLLOJU, AKITHA, IN

[71] SUBRAHMANYAM PRASAD, MUDDAM, IN

[85] 2020-12-31

[86] 2019-07-02 (PCT/IN2019/050493)

[87] (WO2020/008476)

[30] IN (201841024663) 2018-07-02

[21] **3,105,551**  
[13] A1

[51] **Int.Cl. B65D 71/36 (2006.01) B65D 5/54 (2006.01)**

[25] EN

[54] **CARTON FOR CONTAINERS**

[54] **CARTON POUR RECIPIENTS**

[72] SMALLEY, BRIAN, GB

[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2020-12-30

[86] 2019-07-18 (PCT/US2019/042350)

[87] (WO2020/018756)

[30] US (62/700,534) 2018-07-19

[30] US (62/727,148) 2018-09-05

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[21] <b>3,105,554</b> [13] A1	[21] <b>3,105,555</b> [13] A1	[21] <b>3,105,557</b> [13] A1
[51] <b>Int.Cl. A61K 35/741 (2015.01) A23L 33/10 (2016.01) A23L 33/135 (2016.01) A61K 31/166 (2006.01) A61K 31/365 (2006.01) A61P 7/06 (2006.01) C12N 1/21 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01) C12P 17/08 (2006.01)</b>	[51] <b>Int.Cl. A61K 35/744 (2015.01) A23L 33/135 (2016.01) A61P 1/00 (2006.01) A61P 1/12 (2006.01) A61P 37/06 (2006.01)</b>	[51] <b>Int.Cl. A23C 9/123 (2006.01)</b>
[25] EN	[25] FR	[25] EN
[54] <b>METHODS, SYSTEMS AND COMPOSITIONS FOR THE NOVEL USE OF ENTEROBACTIN TO TREAT IRON DEFICIENCY AND RELATED ANEMIA</b>	[54] <b>THERMOPHILUS CNRZ160 STRAIN FOR THE TREATMENT AND PREVENTION OF INTESTINAL INFLAMMATION AND ASSOCIATED DISORDERS IN AN INDIVIDUAL</b>	[54] <b>A METHOD FOR PRODUCING A CHEESE WITH REDUCED AMOUNT OF GALACTOSE</b>
[54] <b>METHODES, SYSTEMES ET COMPOSITIONS DESTINES A UNE NOUVELLE UTILISATION D'ENTEROBACTINE POUR TRAITER UNE CARENCE EN FER ET UNE ANEMIE ASSOCIEE</b>	[54] <b>SOUCHE DE STREPTOCOCCUS THERMOPHILUS CNRZ160 POUR LE TRAITEMENT ET LA PREVENTION DE L'INFLAMMATION INTESTINALE ET DES DESORDRES ASSOCIES, CHEZ UN INDIVIDU</b>	[54] <b>PROCEDE DE PRODUCTION D'UN FROMAGE A TENEUR REDUITE EN GALACTOSE</b>
[72] HAN, MIN, US	[72] DARDEVET, DOMINIQUE, FR	[72] JANZEN, THOMAS, DK
[72] QI, BIN, US	[72] AUZELOUX, ISABELLE, FR	[72] CHRISTIANSEN, DITTE ELLEGAARD, DK
[72] CUI, MINGXUE, US	[72] JARZAGUET, MARIANNE, FR	[72] JACTAT, VERONIQUE, DK
[72] SEWELL, AILEEN K., US	[72] DAVID, JEREMIE, FR	[72] ROSENKVIST, KASPER, DK
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, US	[72] CHATEL, JEAN-MARC, FR	[72] SCHOLLER, CHARLOTTE ELISABETH GRUNER, DK
[85] 2020-12-30	[72] DARY-MOUROT, ANNIE, FR	[71] CHR. HANSEN A/S, DK
[86] 2019-07-18 (PCT/US2019/042425)	[72] CHERBUY, CLAIRE, FR	[85] 2020-12-14
[87] (WO2020/018807)	[72] LANGELLA, PHILIPPE, FR	[86] 2019-06-20 (PCT/EP2019/066348)
[30] US (62/700,480) 2018-07-19	[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR	[87] (WO2019/243497)
	[71] UNIVERSITE DE LORRAINE, FR	[30] EP (18178708.6) 2018-06-20
	[71] UNIVERSITE CLERMONT AUVERGNE, FR	
	[85] 2021-01-04	[21] <b>3,105,558</b> [13] A1
	[86] 2019-06-19 (PCT/EP2019/066178)	[51] <b>Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 29/00 (2006.01)</b>
	[87] (WO2020/020540)	[25] EN
	[30] FR (1856950) 2018-07-26	[54] <b>PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES AS IRAK4 INHIBITORS</b>
		[54] <b>DERIVES DE PYRROLO [1,2-B] PYRIDAZINE EN TANT QU'INHIBITEURS D'IRAK4</b>
		[72] AMMANN, STEPHEN, US
		[72] BACON, ELIZABETH M., US
		[72] BRIZGYS, GEDIMINAS, US
		[72] CHIN, ELBERT, US
		[72] CHOU, CHIENHUNG, US
		[72] COTTELL, JEROMY J., US
		[72] NDUKWE, MARILYN, US
		[72] TAYLOR, JAMES G., US
		[72] WRIGHT, NATHAN E., US
		[72] YANG, ZHENG-YU, US
		[72] ZIPFEL, SHEILA M., US
		[71] GILEAD SCIENCES, INC., US
		[85] 2020-12-30
		[86] 2019-08-09 (PCT/US2019/046026)
		[87] (WO2020/036830)
		[30] US (62/718,204) 2018-08-13

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[13] A1

[51] **Int.Cl. C07D 213/75 (2006.01) C07C 201/16 (2006.01) C07C 205/12 (2006.01)**

[25] EN

[54] **CRYSTALLINE 2-FLUORO-3-NITROTOLUENE AND PROCESS FOR THE PREPARATION THEREOF**

[54] **2-FLUORO-3-NITROTOLUENE CRISTALLIN ET SON PROCEDURE DE PREPARATION**

[72] BRASOLA, ELENA, IT  
[72] DI SILVESTRO, MARCO, IT  
[71] F.I.S. - FABBRICA ITALIANA SINTETICI S.P.A., IT  
[71] AMGEN INC., US  
[85] 2021-01-04  
[86] 2019-07-03 (PCT/EP2019/067894)  
[87] (WO2020/011626)  
[30] EP (18182368.3) 2018-07-09

[21] **3,105,561**  
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01) E02F 9/26 (2006.01)**

[25] EN

[54] **SYSTEM FOR FIXING AN ADAPTER FOR EARTH-MOVING MACHINES**

[54] **SYSTEME PERMETTANT DE FIXER UN ADAPTATEUR POUR MACHINES DE TERRASSEMENT**

[72] MARQUEZ LLINAS, JORDI, ES  
[72] VALLVE, NIL, ES  
[72] JARAS VILLAR, RAUL, ES  
[72] FERNANDEZ HERNANDEZ, JAIME, ES  
[72] TRIGINER BOIXEDA, JORGE, ES  
[72] ALONSO FRIGOLA, ESTER, ES  
[71] METALOGENIA RESEARCH & TECHNOLOGIES S.L., ES  
[85] 2021-01-04  
[86] 2019-07-04 (PCT/EP2019/067935)  
[87] (WO2020/007958)  
[30] EP (18382496.0) 2018-07-05

[21] **3,105,563**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/00 (2006.01) A61K 31/575 (2006.01) A61K 47/44 (2017.01)**

[25] EN

[54] **COMPOSITION CONTAINING A 7BETA-HYDROXYCHOLESTEROL AND A LIPID VEHICLE, AND ITS USE IN THE TREATMENT OF NEOPLASTIC PATHOLOGIES**

[54] **COMPOSITION CONTENANT UN 7 BETA-HYDROXYCHOLESTEROL ET UN VEHICULE LIPIDIQUE, ET SON UTILISATION DANS LE TRAITEMENT DE PATHOLOGIES NEOPLASIQUES**

[72] MERSEL, MARCEL, FR  
[72] RAKOTOARIVELO, CLOVIS, FR  
[71] BETA INNOV, FR  
[85] 2021-01-04  
[86] 2019-07-11 (PCT/EP2019/068670)  
[87] (WO2020/011916)  
[30] EP (18305933.6) 2018-07-11

[21] **3,105,564**  
[13] A1

[51] **Int.Cl. C09J 101/02 (2006.01) C09J 103/00 (2006.01) C09J 103/02 (2006.01)**

[25] EN

[54] **MICROFIBRILLATED CELLULOSE FOR CONTROLLING VISCOSITY AND GEL TEMPERATURE IN STARCH-BASED ADHESIVES**

[54] **CELLULOSE MICROFIBRILLEE PERMETTANT DE REGULER LA VISCOSITE ET LA TEMPERATURE DE GEL DANS DES ADHESIFS A BASE D'AMIDON**

[72] HOLTAN, SYNNOVE, NO  
[72] LIAPIS, KATERINA, NO  
[72] BERG, JAN, NO  
[71] BORREGAARD AS, NO  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/EP2019/068074)  
[87] (WO2020/008023)  
[30] EP (18182239.6) 2018-07-06

[21] **3,105,566**  
[13] A1

[51] **Int.Cl. C07F 9/6561 (2006.01) A61K 31/675 (2006.01) A61P 1/16 (2006.01) A61P 9/10 (2006.01) A61P 11/06 (2006.01) A61P 13/12 (2006.01) A61P 19/02 (2006.01) A61P 19/08 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHOSPHATE AND PHOSPHONATE DERIVATIVES OF 7-AMINO-5-THIO-THIAZOLO[4,5-D]PYRIMIDINES AND THEIR USE IN TREATING CONDITIONS ASSOCIATED WITH ELEVATED LEVELS OF CX3CR1 AND/OR CX3CL1**

[54] **DERIVES DE PHOSPHATE ET DE PHOSPHONATE DE 7-AMINO-5-THIO-THIAZOLO[4,5-D]PYRIMIDINES ET LEUR UTILISATION DANS LE TRAITEMENT D'ETATS ASSOCIES A DES NIVEAUX ELEVES DE CX3CR1 ET/OU CX3CL1**

[72] VAGBERG, JAN, SE  
[72] BYSTROM, STYRBJORN, SE  
[72] OLSSON, ELISABETH, SE  
[72] JONSSON, MATTIAS, SE  
[71] KANCERA AB, SE  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/EP2019/068169)  
[87] (WO2020/008064)  
[30] GB (1811169.0) 2018-07-06



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[21] **3,105,567**  
[13] A1

[51] **Int.Cl. C09K 8/584 (2006.01)**  
[25] FR  
[54] **SULPHONATED INTERNAL KETONE-BASED FORMULATIONS FOR ASSISTED RECOVERY OF OIL**

[54] **FORMULATIONS A BASE DE CETONES INTERNES SULFONEES POUR LA RECUPERATION ASSISTEE DU PETROLE**

[72] MORVAN, MIKEL, FR  
[72] PITIOT, PASCAL, FR  
[72] BAUSSARON, LOIC, FR  
[72] COMPANY, ROBERTO, FR  
[71] RHODIA OPERATIONS, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/EP2019/068073)  
[87] (WO2020/016025)  
[30] FR (1856273) 2018-07-19

[21] **3,105,569**  
[13] A1

[51] **Int.Cl. B01L 9/00 (2006.01) B01L 9/06 (2006.01) C12M 1/00 (2006.01) C12M 1/22 (2006.01) C12M 1/26 (2006.01) C12M 1/36 (2006.01) C12M 3/00 (2006.01) G01N 35/00 (2006.01) G01N 35/04 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR CENTERING A CIRCULAR OBJECT**

[54] **SYSTEMES ET PROCEDES DE CENTRAGE D'UN OBJET CIRCULAIRE**

[72] KUIPER, WOUTER, NL  
[72] VAN DER DONG, HARM W., NL  
[72] VAN DER VIJVER, JAN BART, NL  
[72] KLEEFSTRA, MARTIJN, NL  
[71] BD KIESTRA B.V., NL  
[85] 2021-01-04  
[86] 2019-07-10 (PCT/EP2019/068588)  
[87] (WO2020/011875)  
[30] US (62/697,197) 2018-07-12

[21] **3,105,570**  
[13] A1

[51] **Int.Cl. G06F 21/85 (2013.01) G06Q 20/08 (2012.01)**

[25] EN  
[54] **A SYSTEM AND A METHOD FOR SIGNING TRANSACTIONS USING AIRGAPPED PRIVATE KEYS**

[54] **SYSTEME ET PROCEDE DE SIGNATURE DE TRANSACTIONS A L'AIDE DE CLES PRIVEES A ISOLEMENT**

[72] GANCARZ, KAMIL RAFAL, PL  
[71] FUNDACJA "BLOCKCHAIN DEVELOPMENT FOUNDATION", PL  
[85] 2021-01-04  
[86] 2019-07-12 (PCT/EP2019/068923)  
[87] (WO2020/020674)  
[30] EP (18461588.8) 2018-07-21

[21] **3,105,581**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01)**

[25] EN  
[54] **CONTOURED SAMPLE PATH FOR FLUID ANALYZER**

[54] **TRAJET D'ECHANTILLON OPTIMISE POUR ANALYSEUR DE FLUIDE**

[72] PUDDUCK, CHRISTIAN, US  
[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US  
[85] 2020-12-23  
[86] 2019-06-20 (PCT/US2019/038153)  
[87] (WO2020/005692)  
[30] US (62/692,061) 2018-06-29

[21] **3,105,582**  
[13] A1

[51] **Int.Cl. G06F 21/32 (2013.01)**

[25] EN  
[54] **CORRELATING AUDIO SIGNALS FOR AUTHENTICATION**

[54] **CORRELATION DE SIGNAUX AUDIO POUR L'AUTHENTIFICATION**

[72] WOSZCZYNA, MONIKA, US  
[71] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2020-12-31  
[86] 2019-07-03 (PCT/IB2019/055655)  
[87] (WO2020/008374)  
[30] US (62/693,716) 2018-07-03

[21] **3,105,584**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) C07K 7/08 (2006.01)**

[25] EN  
[54] **PEPTIDES FOR USE AS CELL-PENETRATING PEPTIDES**

[54] **PEPTIDES DESTINES A ETRE UTILISES EN TANT QUE PEPTIDES DE PENETRATION CELLULAIRE**

[72] DESHAYES, SEBASTIEN, FR  
[72] KONATE, KARIDIA, FR  
[72] VIVES, ERIC, FR  
[72] ALDRIAN, GUDRUN, FR  
[72] BOISGUERIN, PRISCA, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] UNIVERSITE DE MONTPELLIER, FR  
[85] 2021-01-04  
[86] 2019-07-16 (PCT/EP2019/069149)  
[87] (WO2020/016242)  
[30] EP (18183966.3) 2018-07-17

[21] **3,105,585**  
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/506 (2006.01) A61P 11/06 (2006.01)**

[25] EN  
[54] **A XINAFOATE SALT OF A JAK INHIBITING COMPOUND**

[54] **SEL DE XINAFOATE D'UN COMPOSE INHIBITEUR DE JAK**

[72] PETERSEN, ANNA MATILDA ANGELICA, SE  
[72] MCCABE, JAMES, GB  
[72] AURELL, CARL-JOHAN, SE  
[71] ASTRAZENECA AB, SE  
[85] 2021-01-04  
[86] 2019-07-17 (PCT/EP2019/069252)  
[87] (WO2020/016302)  
[30] US (62/699,955) 2018-07-18  
[30] US (62/866,013) 2019-06-25

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[21] **3,105,586**  
[13] A1

[51] **Int.Cl. C25D 17/10 (2006.01) C23C 18/08 (2006.01) C23C 18/12 (2006.01)**

[25] EN

[54] **ELECTRODE FOR THE ELECTROPLATING OR ELECTRODEPOSITION OF A METAL**

[54] **ELECTRODE POUR ELECTROPLACAGE OU ELECTRODEPOSITION D'UN METAL**

[72] BONOMETTI, VALENTINA, IT

[71] INDUSTRIE DE NORA S.P.A., IT

[85] 2021-01-04

[86] 2019-07-18 (PCT/EP2019/069443)

[87] (WO2020/025351)

[30] IT (102018000007835) 2018-08-03

[21] **3,105,587**  
[13] A1

[51] **Int.Cl. A61M 15/06 (2006.01) A24F 47/00 (2020.01) A61M 11/04 (2006.01)**

[25] EN

[54] **TEMPERATURE REGULATION FOR PERSONAL VAPORIZING DEVICE**

[54] **REGULATION DE TEMPERATURE POUR DISPOSITIF DE VAPORISATION PERSONNEL**

[72] O'HARE, AIDAN, GB

[72] MOLYNEUX, BRIAN, GB

[71] JT INTERNATIONAL S.A., CH

[85] 2021-01-04

[86] 2019-07-19 (PCT/EP2019/069560)

[87] (WO2020/020788)

[30] EP (18185092.6) 2018-07-24

[21] **3,105,588**  
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01)**

[25] EN

[54] **SIDE-BY-SIDE TERMINAL FOR PERSONAL VAPORIZING DEVICE**

[54] **BORNE JUXTAPOSEE POUR DISPOSITIF DE VAPOTAGE PERSONNEL**

[72] JAMES, ALED MEREDYDD, GB

[72] O'HARE, AIDAN, GB

[72] DAY, SHANE, GB

[71] JT INTERNATIONAL S.A., CH

[85] 2021-01-04

[86] 2019-07-22 (PCT/EP2019/069668)

[87] (WO2020/020818)

[30] EP (18185093.4) 2018-07-24

[21] **3,105,589**  
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/00 (2006.01) A61M 5/142 (2006.01) A61M 39/00 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **IMPROVED INJECTION SYSTEM AND DAY SET ASSEMBLY THEREFOR**

[54] **SYSTEME D'INJECTION AMELIORE ET ENSEMBLE KIT DE JOURS POUR CELUI-CI**

[72] CHASSOT, PIERRE-YVES, FR

[72] VULLIET, FRANCOIS, CH

[71] ACIST MEDICAL SYSTEMS INC., US

[85] 2021-01-04

[86] 2019-07-23 (PCT/EP2019/069794)

[87] (WO2020/020884)

[30] EP (18185442.3) 2018-07-25

[21] **3,105,591**  
[13] A1

[51] **Int.Cl. C09D 167/08 (2006.01) C07D 487/08 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **OXIDATIVELY CURABLE COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT DURCISSABLE PAR OXYDATION**

[72] DE BOER, JOHANNES WIETSE, NL

[72] MAAIJEN, KARIN, NL

[72] ROELOFSEN, YFRANKA PETRONELLA AREKE, NL

[72] HAGE, RONALD, NL

[72] COMBA, PETER, DE

[71] CATEXEL TECHNOLOGIES LIMITED, GB

[85] 2021-01-04

[86] 2019-07-04 (PCT/GB2019/051901)

[87] (WO2020/008205)

[30] EP (18181908.7) 2018-07-05

[21] **3,105,592**  
[13] A1

[51] **Int.Cl. B01J 19/18 (2006.01) B01D 9/00 (2006.01) B01J 4/00 (2006.01) B01J 19/24 (2006.01)**

[25] EN

[54] **LIQUID PROCESS ASSEMBLY**

[54] **ENSEMBLE DE TRAITEMENT DE LIQUIDE**

[72] BARTON, ALASTAIR WILLIAM, GB

[71] NITECH SOLUTIONS LIMITED, GB

[85] 2021-01-04

[86] 2019-07-12 (PCT/GB2019/051960)

[87] (WO2020/012192)

[21] **3,105,593**  
[13] A1

[51] **Int.Cl. B01D 47/06 (2006.01) A01N 25/00 (2006.01) A62D 3/00 (2007.01) B01D 53/00 (2006.01) B09B 3/00 (2006.01) G21F 9/00 (2006.01)**

[25] FR

[54] **METHOD FOR DECONTAMINATING A GASEOUS MEDIUM CONTAMINATED WITH CONTAMINATING SPECIES IN SUSPENSION**

[54] **PROCEDE DE DECONTAMINATION D'UN MILIEU GAZEUX CONTAMINE PAR DES ESPECES CONTAMINANTES EN SUSPENSION**

[72] GOSSARD, ALBAN, FR

[72] TURC, HUBERT ALEXANDRE, FR

[72] VENDITTI, PIERRE, FR

[72] GRANDJEAN, AGNES, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2021-01-04

[86] 2019-07-10 (PCT/FR2019/051735)

[87] (WO2020/012125)

[30] FR (1856386) 2018-07-11

[21] **3,105,594**  
[13] A1

[51] **Int.Cl. G01J 3/26 (2006.01) G01J 3/02 (2006.01) G01J 3/28 (2006.01) H01L 27/146 (2006.01)**

[25] FR

[54] **MULTISPECTRAL IMAGING SENSOR PROVIDED WITH MEANS FOR LIMITING CROSSTALK**

[54] **CAPTEUR D'IMAGERIE MULTISPECTRALE POURVU DE MOYENS DE LIMITATION DE LA DIAPHONIE**

[72] TISSERAND, STEPHANE, FR

[72] ROUX, LAURENT, FR

[72] HUBERT, MARC, FR

[72] SAUGET, VINCENT, FR

[71] SILIOS TECHNOLOGIES, FR

[85] 2021-01-04

[86] 2019-07-29 (PCT/FR2019/051864)

[87] (WO2020/025888)

[30] FR (FR1800822) 2018-07-30

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[21] **3,105,595**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61P 29/02 (2006.01) C07K 14/47 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR REGULATING AN IMMUNE RESPONSE**

[54] **METHODS ET COMPOSITIONS POUR REGULER UNE REPOSE IMMUNITAIRE**

[72] BEUTLER, BRUCE, US  
[72] CHOI, JIN HUK, US  
[72] ZHONG, XUE, US  
[72] NAIR-GILL, EVAN, US  
[71] BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US  
[85] 2020-12-23  
[86] 2019-06-26 (PCT/US2019/039343)  
[87] (WO2020/006143)  
[30] US (62/689,907) 2018-06-26

[21] **3,105,596**  
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) C08J 5/00 (2006.01) C08K 5/1539 (2006.01) C08L 77/00 (2006.01) E21B 23/00 (2006.01) E21B 33/13 (2006.01) E21B 43/16 (2006.01)**

[25] EN

[54] **DOWNHOLE TOOL**

[54] **OUTIL DE FOND DE TROU**

[72] KOBAYASHI, FUMINORI, JP  
[72] SAIJO, HIKARU, JP  
[71] KUREHA CORPORATION, JP  
[85] 2021-01-04  
[86] 2019-06-06 (PCT/JP2019/022564)  
[87] (WO2020/012839)  
[30] JP (2018-132602) 2018-07-12

[21] **3,105,597**  
[13] A1

[51] **Int.Cl. C22B 3/02 (2006.01) C22B 3/22 (2006.01)**

[25] EN

[54] **HYDROMETALLURGICAL SOLVENT EXTRACTION METHODS**

[54] **PROCEDES D'EXTRACTION PAR SOLVANT HYDROMETALLURGIQUE**

[72] MOYA, LUIS, US  
[72] SODERSTROM, MATTHEW DEAN, US  
[72] FISCHMANN, ADAM JAMES, AU  
[72] MOSER, MICHAEL, US  
[72] ZHANG, LEI, US  
[71] CYTEC INDUSTRIES INC., US  
[85] 2021-01-04  
[86] 2019-07-01 (PCT/US2019/040119)  
[87] (WO2020/009987)  
[30] US (62/694,213) 2018-07-05

[21] **3,105,598**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/02 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **TREATING ULCERATIVE COLITIS WITH BRAZIKUMAB**

[54] **TRAITEMENT DE LA RECTOCOLITE HEMORRAGIQUE AU MOYEN DE BRAZIKUMAB**

[72] GOMMOLL, CARL, US  
[72] SAHOO, APARNA, US  
[71] ASTRAZENCA COLLABORATION VENTURES, LLC, US  
[85] 2021-01-04  
[86] 2019-07-11 (PCT/IB2019/000720)  
[87] (WO2020/012244)  
[30] US (62/697,939) 2018-07-13

[21] **3,105,599**  
[13] A1

[51] **Int.Cl. C07C 317/28 (2006.01) A61K 31/145 (2006.01) A61K 31/166 (2006.01) A61K 31/18 (2006.01) A61K 31/4402 (2006.01) A61K 31/4406 (2006.01) A61K 31/4409 (2006.01) A61K 31/47 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 17/02 (2006.01) A61P 35/00 (2006.01) C07D 209/10 (2006.01) C07D 213/71 (2006.01) C07D 215/36 (2006.01) C07D 277/64 (2006.01)**

[25] EN

[54] **HALOALLYLAMINE SULFONE DERIVATIVE INHIBITORS OF LYSYL OXIDASES AND USES THEREOF**

[54] **INHIBITEURS DE LYSYL OXYDASES DERIVES D'HALOGENOALLYLAMINE SULFONE ET UTILISATIONS ASSOCIEES**

[72] FINDLAY, ALISON DOROTHY, AU  
[72] TURNER, CRAIG IVAN, AU  
[72] DEODHAR, MANDAR, AU  
[72] FOOT, JONATHAN STUART, AU  
[72] JAROLIMEK, WOLFGANG, AU  
[72] ZHOU, WENBIN, AU  
[72] BUSON, ALBERTO, AU  
[72] GRECO, ANGELIQUE ELSA, AU  
[71] PHARMAXIS LTD., AU  
[85] 2021-01-05  
[86] 2019-08-02 (PCT/AU2019/050811)  
[87] (WO2020/024017)  
[30] AU (2018902829) 2018-08-03

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[21] **3,105,600**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 8/37 (2006.01) A61K 8/46 (2006.01) A61K 8/64 (2006.01) A61K 8/73 (2006.01) A61K 8/86 (2006.01) A61K 9/48 (2006.01) A61K 47/02 (2006.01) A61K 47/04 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/20 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/42 (2017.01) A61Q 1/00 (2006.01)**

[25] EN

[54] **FILM FORMING COMPOSITION CONTAINING EITHER SURFACTANT OR BOTH SURFACTANT AND SALT AS WHITENING AGENT**

[54] **COMPOSITION FILMOGENE CONTENANT UN TENSIOACTIF, OU UN TENSIOACTIF ET UN SEL, EN TANT QU'AGENT DE BLANCHIMENT**

[72] SATO, KAORI, JP  
[72] TAKUBO, TAKAHISA, JP  
[72] DOI, HITOMI, JP  
[71] CAPSUGEL BELGIUM NV, BE  
[85] 2021-01-04  
[86] 2019-07-03 (PCT/JP2019/026430)  
[87] (WO2020/009142)  
[30] JP (2018-127350) 2018-07-04  
[30] JP (2019-036083) 2019-02-28

[21] **3,105,601**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**

[25] EN

[54] **GENERATING CIK NKT CELLS FROM CORD BLOOD**

[54] **GENERATION DE CELLULES CIK NKT A PARTIR DE SANG DE CORDON**

[72] DUGGAL, ROHIT, US  
[72] SINHA, RANJEET, US  
[71] NANTKWEST, INC., US  
[85] 2021-01-04  
[86] 2019-07-01 (PCT/US2019/040145)  
[87] (WO2020/014029)  
[30] US (62/696,131) 2018-07-10

[21] **3,105,602**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **BIARYL ETHER-TYPE QUINAZOLINE DERIVATIVES**

[54] **DERIVE DE QUINAZOLINE DE TYPE ETHER DE BIARYLE**

[72] YOSHIDA, KENICHI, JP  
[72] TAKEUCHI, KOSUKE, JP  
[72] INOUE, HIDEKAZU, JP  
[72] KAGEJI, HIDEAKI, JP  
[72] MOMOSE, TAKAYUKI, JP  
[72] YOSHIDA, KEISUKE, JP  
[72] JIMBO, TAKESHI, JP  
[72] EGAMI, AKIKO, JP  
[71] DAIICHI SANKYO COMPANY, LIMITED, JP  
[85] 2021-01-04  
[86] 2019-07-03 (PCT/JP2019/026483)  
[87] (WO2020/009156)  
[30] JP (2018-127829) 2018-07-04

[21] **3,105,603**  
[13] A1

[51] **Int.Cl. F16C 17/18 (2006.01) F16C 33/04 (2006.01)**

[25] FR

[54] **HINGED COMPONENT, AND MECHANICAL SYSTEM COMPRISING SUCH A COMPONENT**

[54] **COMPOSANT ARTICULE, ET SYSTEME MECANIQUE COMPRENANT UN TEL COMPOSANT**

[72] PROST, FABRICE, FR  
[72] PAVALLIER, PIERRICK, FR  
[71] HYDROMECHANIQUE ET FROTTEMENT, FR  
[85] 2021-01-05  
[86] 2019-07-03 (PCT/FR2019/051651)  
[87] (WO2020/012092)  
[30] FR (1856323) 2018-07-10

[21] **3,105,604**  
[13] A1

[51] **Int.Cl. G02B 6/255 (2006.01) H01S 5/06 (2006.01)**

[25] EN

[54] **METHOD OF FUSION SPLICING OPTICAL FIBERS WITH LASERS**

[54] **PROCEDE D'EPISSURAGE PAR FUSION DE FIBRES OPTIQUES A L'AIDE DE LASERS**

[72] GONTHIER, FRANCOIS, CA  
[71] O'FIBERTY TECHNOLOGIES INC., CA  
[85] 2021-01-04  
[86] 2019-07-04 (PCT/IB2019/055736)  
[87] (WO2020/008421)  
[30] US (62/694,669) 2018-07-06

[21] **3,105,605**  
[13] A1

[51] **Int.Cl. H05B 33/08 (2020.01)**

[25] EN

[54] **OPEN-CIRCUIT ELECTROLUMINESCENCE**

[54] **ELECTROLUMINESCENCE EN CIRCUIT OUVERT**

[72] AKHAVAN-TAFTI, HASHEM, US  
[72] AKHAVAN-TAFTI, MOJTABA, US  
[72] BOLANDI, ALI, US  
[72] HANDLEY, RICHARD, US  
[71] AHURATECH LLC, US  
[85] 2021-01-04  
[86] 2019-07-02 (PCT/US2019/040256)  
[87] (WO2020/010057)  
[30] US (16/027,471) 2018-07-05  
[30] US (16/376,643) 2019-04-05

[21] **3,105,606**  
[13] A1

[51] **Int.Cl. E02D 17/13 (2006.01) E02F 3/20 (2006.01) E02F 3/47 (2006.01) E02F 5/08 (2006.01)**

[25] EN

[54] **ANCHORING KIT FOR A DRILLING MACHINE**

[54] **KIT D'ANCRAGE POUR MACHINE DE FORAGE**

[72] RODRIGUEZ, PASCAL, FR  
[72] VIARGUES, DANIEL, FR  
[71] SOLETANCHE FREYSSINET, FR  
[85] 2021-01-05  
[86] 2019-07-10 (PCT/FR2019/051734)  
[87] (WO2020/012124)  
[30] FR (18 56478) 2018-07-13

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[21] **3,105,607**  
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**  
[25] EN  
[54] **OPTICAL FIBER CABLE**  
[54] **CABLE A FIBRES OPTIQUES**  
[72] SHIMIZU, SHOGO, JP  
[72] NAMAZUE, AKIRA, JP  
[72] OSATO, KEN, JP  
[71] FUJIKURA LTD., JP  
[85] 2021-01-04  
[86] 2019-10-09 (PCT/JP2019/039740)  
[87] (WO2020/075734)  
[30] JP (2018-192706) 2018-10-11

[21] **3,105,608**  
[13] A1

[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/38 (2006.01)**  
[25] EN  
[54] **SELF-SEALING BUILDING MODULE WITH A SELF-ALIGNING CONNECTOR**  
[54] **MODULE DE BATIMENT AUTO-OBTURANT AVEC CONNECTEUR A AUTO-ALIGNEMENT**  
[72] LIGETI, FRED, CA  
[72] STEPHENSON, MARK, CA  
[71] QUBE BUILDING SYSTEMS INC., CA  
[85] 2021-01-05  
[86] 2019-01-22 (PCT/CA2019/050080)  
[87] (WO2019/144224)  
[30] US (62/620,725) 2018-01-23

[21] **3,105,609**  
[13] A1

[51] **Int.Cl. C12P 19/14 (2006.01) C12P 19/02 (2006.01)**  
[25] EN  
[54] **GLUCOAMYLASES AND METHODS OF USE, THEREOF**  
[54] **GLUCOAMYLASES ET LEURS PROCEDES D'UTILISATION**  
[72] TANG, ZHONGMEI, CN  
[72] WU, QIHUI, CN  
[72] XI, XINGXIANG, CN  
[72] ZHANG, ZHENGHONG, CN  
[71] DANISCO US INC, US  
[85] 2021-01-04  
[86] 2019-07-02 (PCT/US2019/040331)  
[87] (WO2020/010101)  
[30] CN (PCT/CN2018/094473) 2018-07-04

[21] **3,105,610**  
[13] A1

[51] **Int.Cl. C07D 471/08 (2006.01) A61K 49/10 (2006.01)**  
[25] EN  
[54] **GADOLINIUM BEARING PCTA-BASED CONTRAST AGENTS**  
[54] **AGENTS DE CONTRASTE A BASE DE PCTA PORTANT DU GADOLINIUM**  
[72] NAPOLITANO, ROBERTA, IT  
[72] LATTUADA, LUCIANO, IT  
[72] BARANYAI, ZSOLT, IT  
[72] GUIDOLIN, NICOLE, IT  
[72] MARAZZI, GIUSEPPE, IT  
[71] BRACCO IMAGING SPA, IT  
[85] 2021-01-05  
[86] 2019-08-06 (PCT/EP2019/071075)  
[87] (WO2020/030618)  
[30] EP (18187422.3) 2018-08-06

[21] **3,105,611**  
[13] A1

[51] **Int.Cl. B65B 35/44 (2006.01) B65B 5/06 (2006.01) B65B 5/10 (2006.01) B65B 35/52 (2006.01) B65G 47/08 (2006.01)**  
[25] EN  
[54] **A PACKING METHOD OF PACKING ARTICLES INTO A PACKING BOX, AND CORRESPONDING PACKING DEVICE**  
[54] **PROCEDE D'EMBALLAGE D'ARTICLES D'EMBALLAGE DANS UNE BOITE D'EMBALLAGE, ET DISPOSITIF D'EMBALLAGE CORRESPONDANT**  
[72] PRAKKEN, NICOLAAS MARTIN, NL  
[72] RENOUX, GERALD EUGENE, US  
[71] BLUEPRINT HOLDING B.V., NL  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/NL2019/050424)  
[87] (WO2020/013687)  
[30] US (62/695,423) 2018-07-09  
[30] NL (2021352) 2018-07-19

[21] **3,105,612**  
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 16/95 (2019.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **AN ON-LINE SYSTEM AND METHOD FOR SEARCHING RECIPES FOR MEAL PLANNING**  
[54] **SYSTEME EN LIGNE ET PROCEDE DE RECHERCHE DE RECETTES POUR LA PLANIFICATION DE REPAS**  
[72] KNIGHT, CHRIS, CA  
[71] 7262591 CANADA LTD., CA  
[85] 2021-01-05  
[86] 2019-06-17 (PCT/CA2019/050851)  
[87] (WO2020/010437)  
[30] US (62/695,257) 2018-07-09

[21] **3,105,613**  
[13] A1

[51] **Int.Cl. E06B 9/24 (2006.01) G02B 26/08 (2006.01)**  
[25] EN  
[54] **ELECTRIC POTENTIALLY-DRIVEN SHADE WITH IMPROVED COIL STRENGTH, METHOD OF MAKING THE SAME AND METHOD OF OPERATING THE SAME**  
[54] **STORE ELECTRIQUE COMMANDE PAR POTENTIEL A RESISTANCE D'ENROULEMENT AMELIOREE, SON PROCEDE DE FABRICATION ET SON PROCEDE DE FONCTIONNEMENT**  
[72] BLUSH, JASON, US  
[72] FREY, TIMOTHY, US  
[72] GU, YABEI, US  
[72] PETRMICHL, RUDOLPH, US  
[71] GUARDIAN GLASS, LLC, US  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/IB2019/055760)  
[87] (WO2020/008434)  
[30] US (16/028,593) 2018-07-06

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[21] <b>3,105,615</b> [13] A1	[21] <b>3,105,616</b> [13] A1	[21] <b>3,105,619</b> [13] A1
[51] <b>Int.Cl. C07D 213/64 (2006.01) A61K 31/4402 (2006.01) A61K 31/4406 (2006.01) A61K 31/4409 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 1/00 (2006.01) A61P 1/06 (2006.01) A61P 3/10 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07C 15/12 (2006.01) C07C 43/164 (2006.01) C07D 213/46 (2006.01) C07D 213/65 (2006.01) C07D 213/68 (2006.01) C07D 213/69 (2006.01) C07D 213/70 (2006.01) C07D 213/73 (2006.01) C07D 401/14 (2006.01)</b>	[51] <b>Int.Cl. A24C 5/01 (2020.01) B65B 57/10 (2006.01) B65G 37/02 (2006.01) B65G 47/84 (2006.01)</b>	[51] <b>Int.Cl. A61J 1/05 (2006.01) A61J 1/00 (2006.01) A61J 1/10 (2006.01) A61J 1/20 (2006.01) B65D 30/22 (2006.01) B65D 81/32 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>1,3,5-TRIS(6-METHYLPYRIDIN-2-YLOXY)BENZENE DERIVATIVES AND RELATED COMPOUNDS AS NLRX1 LIGANDS FOR TREATING INFLAMMATORY DISEASES</b>	[54] <b>PROCESSING LINE COMPRISING PROCESSING MODULES FOR PERFORMING PROCESSING OPERATIONS ON A PRODUCT OR PART THEREOF, AND SIMULATED SMOKING DEVICE MANUFACTURING LINE</b>	[54] <b>SAMPLE CONTAINER WITH PEELABLE SEAL AND ACCESS PORT</b>
[54] <b>DERIVES DE 1,3,5-TRIS(6-METHYLPYRIDIN-2-YLOXY)BENZENE ET COMPOSES APPARENTES EN TANT QUE LIGANDS DE NLRX1 POUR LE TRAITEMENT DE MALADIES INFLAMMATOIRES</b>	[54] <b>LIGNE DE TRAITEMENT COMPRENANT DES MODULES DE TRAITEMENT POUR EFFECTUER DES OPERATIONS DE TRAITEMENT SUR UN PRODUIT OU UNE PARTIE DE CELUI-CI, ET LIGNE DE FABRICATION DE DISPOSITIF A FUMER DE SIMULATION</b>	[54] <b>RECIPIENT D'ECHANTILLONS AVEC JOINT PELABLE ET ORIFICE D'ACCES</b>
[72] BASSAGANYA-RIERA, JOSEP, US	[72] SLURINK, OSCAR, NL	[72] ALDEN, MADELINE C., US
[72] LEBER, ANDREW, US	[71] SLUIS CIGAR MACHINERY B.V., NL	[72] BURLEY, KIMBER L., US
[72] HONTECILLAS, RAQUEL, US	[85] 2021-01-04	[72] RAMSEY, TARA C., US
[71] LANDOS BIOPHARMA, INC., US	[86] 2019-07-19 (PCT/NL2019/050465)	[71] INSTANT SYSTEMS, INC., US
[85] 2021-01-04	[87] (WO2020/017971)	[85] 2021-01-04
[86] 2019-07-02 (PCT/US2019/040386)	[30] NL (2021348) 2018-07-19	[86] 2019-07-02 (PCT/US2019/040419)
[87] (WO2020/010132)		[87] (WO2020/010156)
[30] US (62/694,076) 2018-07-05		[30] US (62/694,662) 2018-07-06
[30] US (16/270,350) 2019-02-07		
	[21] <b>3,105,617</b> [13] A1	[21] <b>3,105,620</b> [13] A1
	[51] <b>Int.Cl. G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01) G01B 21/04 (2006.01)</b>	[51] <b>Int.Cl. A61M 5/142 (2006.01) A61M 5/14 (2006.01) F04B 43/12 (2006.01)</b>
	[25] FR	[25] EN
	[54] <b>MEASURING ARM WITH MULTIFUNCTIONAL END</b>	[54] <b>IMPROVED INJECTION SYSTEM AND PATIENT SET ASSEMBLY THEREFOR</b>
	[54] <b>BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION</b>	[54] <b>SYSTEME D'INJECTION AMELIORE ET ENSEMBLE DE DISPOSITIFS PATIENT ASSOCIE</b>
	[72] DESFORGES, LAURENT, FR	[72] CHASSOT, PIERRE-YVES, FR
	[72] DUPORTAL, THIBAUT, FR	[72] WARMING, JENS, CH
	[72] ROUX, DENIS, FR	[71] ACIST MEDICAL SYSTEMS INC., US
	[72] FAMECHON, JEAN-LUC, FR	[85] 2021-01-04
	[72] INGLIS, WES, US	[86] 2019-07-15 (PCT/EP2019/068988)
	[71] HEXAGON METROLOGY SAS, FR	[87] (WO2020/016172)
	[85] 2021-01-05	[30] EP (18183892.1) 2018-07-17
	[86] 2019-07-04 (PCT/EP2019/068037)	
	[87] (WO2020/008004)	
	[30] FR (18 56249) 2018-07-06	
		[21] <b>3,105,622</b> [13] A1
		[51] <b>Int.Cl. F42B 7/08 (2006.01)</b>
		[25] FR
		[54] <b>BIODEGRADABLE WADDING CUP FOR A SHOTGUN CARTRIDGE</b>
		[54] <b>BOURRE A GODET BIODEGRADABLE POUR CARTOUCHE DE FUSIL</b>
		[72] MARICAILLE, PATRICK, FR
		[71] SHOOT HUNTING OUTDOOR, FR
		[85] 2021-01-04
		[86] 2019-07-03 (PCT/IB2019/055682)
		[87] (WO2020/008390)
		[30] FR (18/70802) 2018-07-05

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[21] **3,105,625**  
[13] A1

[51] **Int.Cl. C12Q 1/682 (2018.01)**  
[25] EN  
[54] **VISUAL AND MODULAR DETECTION OF NUCLEIC ACIDS WITH ENZYME-ASSISTED NANOTECHNOLOGY**

[54] **DETECTION VISUELLE ET MODULAIRE D'ACIDES NUCLEIQUES A L'AIDE D'UNE NANOTECHNOLOGIE ASSISTEE PAR DES ENZYMES**

[72] SHAO, HUILIN, SG  
[72] HO, NICHOLAS RUI YUAN, SG  
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG  
[71] AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, SG  
[85] 2021-01-04  
[86] 2019-07-02 (PCT/SG2019/050328)  
[87] (WO2020/009660)  
[30] SG (10201805745P) 2018-07-03

[21] **3,105,626**  
[13] A1

[51] **Int.Cl. A61K 31/70 (2006.01) A61P 9/00 (2006.01) A61P 9/04 (2006.01)**  
[25] EN  
[54] **METHODS OF TREATING HFPEF EMPLOYING DAPAGLIFLOZIN AND COMPOSITIONS COMPRISING THE SAME**

[54] **METHODES DE TRAITEMENT DE HFPEF AU MOYEN DE DAPAGLIFLOZINE ET COMPOSITIONS COMPRENANT CELLE-CI**

[72] LANGKILDE, ANNA MARIA, SE  
[71] ASTRAZENECA AB, SE  
[85] 2021-01-05  
[86] 2019-07-18 (PCT/EP2019/069323)  
[87] (WO2020/016335)  
[30] US (62/700,463) 2018-07-19

[21] **3,105,628**  
[13] A1

[51] **Int.Cl. A61K 8/22 (2006.01) A61K 8/34 (2006.01) A61K 8/81 (2006.01) A61Q 11/02 (2006.01)**  
[25] EN  
[54] **ORAL CARE COMPOSITION**

[54] **COMPOSITION DE SOIN BUCCAL**

[72] CHEN, XIANG, US  
[72] CHOPRA, SUMAN, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2021-01-04  
[86] 2018-07-18 (PCT/US2018/042697)  
[87] (WO2020/018089)

[21] **3,105,629**  
[13] A1

[51] **Int.Cl. F28F 3/12 (2006.01) H01M 10/60 (2014.01) F28F 9/26 (2006.01) H05K 7/20 (2006.01) F28D 21/00 (2006.01)**  
[25] EN  
[54] **THERMAL MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION THERMIQUE**

[72] LESTER, STEPHEN, GB  
[72] JOUHARA, HUSSAM, GB  
[71] FLINT ENGINEERING LTD, GB  
[85] 2021-01-05  
[86] 2019-07-16 (PCT/EP2019/069161)  
[87] (WO2020/016251)  
[30] GB (1811746.5) 2018-07-18

[21] **3,105,631**  
[13] A1

[51] **Int.Cl. B23K 9/32 (2006.01) H01R 4/56 (2006.01)**  
[25] EN  
[54] **RECONFIGURABLE WELDING-TYPE POWER SOCKETS AND POWER PLUGS**

[54] **PRISES DE COURANT DE TYPE SOUDAGE RECONFIGURABLES ET FICHES DE COURANT**

[72] ALTEKRUSE, KENNETH C., US  
[72] OTT, BRIAN L., US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2021-01-04  
[86] 2019-06-14 (PCT/US2019/037271)  
[87] (WO2020/013953)  
[30] US (16/033,922) 2018-07-12

[21] **3,105,632**  
[13] A1

[51] **Int.Cl. B65D 88/62 (2006.01) A01F 25/14 (2006.01) A01F 25/20 (2006.01) B65D 88/26 (2006.01) B65D 88/52 (2006.01) E04H 7/22 (2006.01)**  
[25] EN  
[54] **SKID MOUNTED STORAGE SYSTEM WITH COLLAPSIBLE SILO FOR FLOWABLE MATERIAL**

[54] **SYSTEME DE STOCKAGE MONTE SUR PATIN A SILO REPLIABLE POUR MATERIAU FLUIDE**

[72] THIESSEN, LONNY JAMES, CA  
[72] THIESSEN, RONALD DEAN, CA  
[72] SLEEMAN, MARLEA, CA  
[71] WESTCAP AG CORP., CA  
[71] SLEEMAN, MARLEA, CA  
[85] 2021-01-05  
[86] 2019-07-22 (PCT/CA2019/051006)  
[87] (WO2020/019064)  
[30] US (62/701,891) 2018-07-23  
[30] US (62/809,341) 2019-02-22

[21] **3,105,633**  
[13] A1

[51] **Int.Cl. H01R 13/453 (2006.01)**  
[25] EN  
[54] **TAMPER RESISTANT MECHANISM FOR ELECTRICAL WIRING DEVICES**

[54] **MECANISME INVOLABLE POUR DISPOSITIFS DE CABLAGE ELECTRIQUE**

[72] MOZDZER, MARK ANTHONY, US  
[72] SCANZILLO, THOMAS L., US  
[72] BAZAYEV, EDWARD, US  
[72] WALKER, JASON ZACHARY, US  
[71] HUBBELL INCORPORATED, US  
[85] 2021-01-04  
[86] 2019-07-03 (PCT/US2019/040555)  
[87] (WO2020/010231)  
[30] US (62/694,677) 2018-07-06

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[21] **3,105,634**  
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASURING ARM WITH MULTI-FUNCTION END**

[54] **BRAS DE MESURE AVEC EXTREMITÉ MULTIFONCTION**

[72] DESFORGES, LAURENT, FR

[72] DUPORTAL, THIBAUT, FR

[72] ROUX, DENIS, FR

[72] FAMECHON, JEAN-LUC, FR

[72] INGLIS, WES, US

[71] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05

[86] 2019-07-04 (PCT/EP2019/068018)

[87] (WO2020/007992)

[30] FR (1856257) 2018-07-06

[21] **3,105,636**  
[13] A1

[51] **Int.Cl. H04M 1/725 (2021.01) G06K 19/06 (2006.01)**

[25] EN

[54] **LASER LIGHT DETECTION AND BARCODE DISPLAY AT MOBILE PHONE**

[54] **DETECTION DE LUMIERE LASER ET AFFICHAGE DE CODE-BARRES AU NIVEAU D'UN TELEPHONE MOBILE**

[72] HOLMAN, JACOB, US

[71] T-MOBILE USA, INC., US

[85] 2021-01-04

[86] 2019-06-14 (PCT/US2019/037387)

[87] (WO2019/241757)

[30] US (16/009,169) 2018-06-14

[21] **3,105,637**  
[13] A1

[51] **Int.Cl. G01N 21/25 (2006.01) G01N 21/3577 (2014.01) G01N 21/359 (2014.01) G01N 33/03 (2006.01) G01N 35/00 (2006.01)**

[25] EN

[54] **SPECTROSCOPIC EVALUATION OF EDIBLE OIL USING PROFILES**

[54] **EVALUATION SPECTROSCOPIQUE D'HUILE COMESTIBLE EN UTILISANT DES PROFILS**

[72] DONG, JINPING, US

[72] HANSEN, STEVEN, US

[72] SCHALLER, JACOB, US

[72] SMITH, SEAN, US

[71] CARGILL, INCORPORATED, US

[85] 2021-01-04

[86] 2019-07-03 (PCT/US2019/040571)

[87] (WO2020/014073)

[30] US (62/695,444) 2018-07-09

[21] **3,105,639**  
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASURING ARM HAVING A MULTI-FUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITÉ MULTIFONCTION**

[72] DESFORGES, LAURENT, FR

[72] DUPORTAL, THIBAUT, FR

[72] ROUX, DENIS, FR

[72] FAMECHON, JEAN-LUC, FR

[72] INGLIS, WES, US

[71] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05

[86] 2019-07-04 (PCT/EP2019/068019)

[87] (WO2020/007993)

[30] FR (1856255) 2018-07-06

[21] **3,105,640**  
[13] A1

[51] **Int.Cl. B05D 1/26 (2006.01) B05C 5/02 (2006.01) B05D 3/02 (2006.01) B05D 3/04 (2006.01)**

[25] EN

[54] **METHOD FOR COATING A TILE ELEMENT**

[54] **METHODE DE REVETEMENT D'UN ELEMENT DE TUILE**

[72] NILSSON, THOMAS, SE

[72] LOVDAHL, ROGER, SE

[71] SAINT-GOBAIN ECOPHON AB, SE

[85] 2021-01-05

[86] 2019-07-01 (PCT/EP2019/067568)

[87] (WO2020/007782)

[30] EP (18182178.6) 2018-07-06

[21] **3,105,641**  
[13] A1

[51] **Int.Cl. G02B 23/00 (2006.01) G02B 23/12 (2006.01) G02B 27/18 (2006.01) G03B 21/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHOD FOR IMPROVED NIGHT VISION**

[54] **SYSTEMES ET PROCEDE POUR UNE VISION NOCTURNE AMELIOREE**

[72] THOMAS, NILS, US

[72] ESTRERA, JOSEPH, US

[72] THOMAS, JAMES, US

[71] MARANON, INC., US

[71] THOMAS, NILS, US

[71] ESTRERA, JOSEPH, US

[71] THOMAS, JAMES, US

[85] 2021-01-04

[86] 2019-07-03 (PCT/US2019/040636)

[87] (WO2020/010274)

[30] US (62/694,326) 2018-07-05

[21] **3,105,642**  
[13] A1

[51] **Int.Cl. C02F 11/04 (2006.01) C02F 11/08 (2006.01) F02C 3/28 (2006.01)**

[25] EN

[54] **SUPERCRITICAL OXIDATION OF WASTE**

[54] **OXYDATION SUPERCRITIQUE DE DECHETS**

[72] STROUD, MATTHEW BRANDON, US

[72] MANCUSO, SOPHIE, US

[71] BEYOND THE DOME, INC., US

[85] 2021-01-04

[86] 2019-07-05 (PCT/US2019/040704)

[87] (WO2020/010316)

[30] US (62/694,900) 2018-07-06



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[21] **3,105,643**  
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASUREMENT ARM WITH MULTIFUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITÉ MULTIFONCTION**

[72] DESFORGES, LAURENT, FR

[72] DUPORTAL, THIBAUT, FR

[72] ROUX, DENIS, FR

[72] FAMECHON, JEAN-LUC, FR

[72] INGLIS, WES, US

[71] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05

[86] 2019-07-04 (PCT/EP2019/068024)

[87] (WO2020/007996)

[30] FR (18 56254) 2018-07-06

[21] **3,105,644**  
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASUREMENT ARM WITH MULTIFUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITÉ MULTIFONCTION**

[72] DESFORGES, LAURENT, FR

[72] DUPORTAL, THIBAUT, FR

[72] ROUX, DENIS, FR

[72] FAMECHON, JEAN-LUC, FR

[72] INGLIS, WES, US

[71] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05

[86] 2019-07-04 (PCT/EP2019/068028)

[87] (WO2020/007998)

[30] FR (1856251) 2018-07-06

[21] **3,105,645**  
[13] A1

[51] **Int.Cl. A61F 5/02 (2006.01)**

[25] EN

[54] **BACK SUPPORT BELT**

[54] **CEINTURE DE SOUTIEN DORSAL**

[72] SCHIERMEISTER, LINDA, DE

[72] HOLTER, TONI, DE

[72] BAUERFEIND, HANS B., DE

[71] BAUERFEIND AG, DE

[85] 2021-01-05

[86] 2019-07-02 (PCT/EP2019/067766)

[87] (WO2020/011604)

[30] DE (10 2018 211 431.5) 2018-07-10

[21] **3,105,647**  
[13] A1

[51] **Int.Cl. F16K 17/194 (2006.01) B65D 90/10 (2006.01) B65D 90/34 (2006.01) B65D 90/48 (2006.01) F16K 24/06 (2006.01) F16K 35/00 (2006.01) F16K 37/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF MONITORING A DIAGNOSTIC SYSTEM OF A PROCESS CONTROL SYSTEM**

[54] **SYSTEME ET PROCÉDE DE SURVEILLANCE D'UN SYSTEME DE DIAGNOSTIC D'UN SYSTEME DE COMMANDE DE PROCESSUS**

[72] DURANT, TONY A., US

[72] QUINN, NATHAN A., US

[72] COCKERHAM, JOHN D., US

[71] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US

[85] 2021-01-04

[86] 2019-06-26 (PCT/US2019/039137)

[87] (WO2020/009843)

[30] US (16/027,058) 2018-07-03

[21] **3,105,648**  
[13] A1

[51] **Int.Cl. E02F 3/43 (2006.01) A01G 23/08 (2006.01) B66C 13/12 (2006.01) B66C 13/20 (2006.01) E02F 9/22 (2006.01)**

[25] EN

[54] **HEAVY EQUIPMENT BOOM SYSTEM AND METHOD AND HYDRAULIC CIRCUIT THEREFOR**

[54] **SYSTEME DE FLECHE D'EQUIPEMENT LOURD ET PROCÉDE ET CIRCUIT HYDRAULIQUE POUR CELUI-CI**

[72] CARLYLE, MICHAEL WAYNE, CA

[71] TIGERCAT INDUSTRIES INC., CA

[85] 2020-12-28

[86] 2018-06-28 (PCT/CA2018/050801)

[87] (WO2020/000078)

[21] **3,105,651**  
[13] A1

[51] **Int.Cl. E06B 9/24 (2006.01) G02B 26/08 (2006.01)**

[25] EN

[54] **ELECTRIC POTENTIALLY-DRIVEN SHADE WITH IMPROVED COIL STRENGTH, METHOD OF MAKING THE SAME AND METHOD OF OPERATING THE SAME**

[54] **STORE ELECTRIQUE COMMANDE PAR POTENTIEL A ENROULEMENT AMELIORE, SON PROCÉDE DE FABRICATION ET SON PROCÉDE DE FONCTIONNEMENT**

[72] BLUSH, JASON, US

[72] FREY, TIMOTHY, US

[72] PETRMICHL, RUDOLPH, US

[71] GUARDIAN GLASS, LLC, US

[85] 2021-01-04

[86] 2019-07-05 (PCT/IB2019/055765)

[87] (WO2020/008437)

[30] US (16/028,718) 2018-07-06

[21] **3,105,652**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 10/00 (2018.01)**

[25] EN

[54] **SYSTEM FOR REMOTE NONINVASIVE CONTACTLESS ASSESSMENT AND PREDICTION OF BODY ORGAN HEALTH**

[54] **SYSTEME D'EVALUATION SANS CONTACT NON INVASIVE A DISTANCE ET DE PREDICTION DE LA SANTE D'UN ORGANE CORPOREL**

[72] SALEM, AYMAN, US

[71] MORES, INC., US

[85] 2021-01-04

[86] 2019-06-27 (PCT/US2019/039533)

[87] (WO2020/009900)

[30] US (16/027,352) 2018-07-04

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[21] **3,105,653**  
[13] A1

[51] **Int.Cl. E06B 9/24 (2006.01) G02B 26/08 (2006.01)**  
[25] EN  
[54] **ELECTRIC POTENTIALLY-DRIVEN SHADE WITH IMPROVED COIL STRENGTH, METHODS OF MAKING THE SAME AND METHOD OF OPERATING THE SAME**  
[54] **STORE ENTRAINEE PAR POTENTIEL ELECTRIQUE A RESISTANCE D'ENROULEMENT AMELIOREE, PROCEDES DE FABRICATION DE CE STORE ET PROCEDE POUR FAIRE FONCTIONNER CE STORE**  
[72] BLUSH, JASON, US  
[72] FREY, TIMOTHY, US  
[72] GU, YABEI, US  
[71] GUARDIAN GLASS, LLC, US  
[85] 2021-01-04  
[86] 2019-07-05 (PCT/IB2019/055767)  
[87] (WO2020/008439)  
[30] US (16/028,546) 2018-07-06

[21] **3,105,654**  
[13] A1

[51] **Int.Cl. C07D 311/80 (2006.01) C07C 63/06 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PURIFICATION OF TETRAHYDROCANNABINOLIC- AND CANNABIDIOLIC ACID FROM PLANT MATERIAL EXTRACT**  
[54] **PROCEDE DE PURIFICATION D'UN ACIDE TETRAHYDROCANNABIDIOLIQUE ET CANNABIDIOLIQUE D'UN EXTRAIT DE MATERIAU VEGETAL**  
[72] AIZIKOVICH, ALEXANDER, IL  
[71] AL&AM PHARMACHEM LTD., IL  
[85] 2021-01-04  
[86] 2019-05-22 (PCT/IL2019/050578)  
[87] (WO2020/016875)  
[30] US (62/700,413) 2018-07-19

[21] **3,105,655**  
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR LOCATING AND ELIMINATING INSECTS**  
[54] **SYSTEME ET PROCEDE PERMETTANT DE LOCALISER ET D'ELIMINER DES INSECTES**  
[72] BENEDEK, NADAV, IL  
[72] WILF, SAAR, IL  
[71] BZIGO LTD, IL  
[85] 2021-01-04  
[86] 2019-07-24 (PCT/IL2019/050839)  
[87] (WO2020/026230)  
[30] IL (260844) 2018-07-29  
[30] US (62/743,593) 2018-10-10

[21] **3,105,656**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) A61K 35/28 (2015.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR MODULATING MYELOPEROXIDASE (MPO) EXPRESSION**  
[54] **PROCEDES ET COMPOSITIONS PERMETTANT DE MODULER L'EXPRESSION DE LA MYELOPEROXIDASE (MPO)**  
[72] KAHANA, ANAT, IL  
[72] VOLKMAN, ROTEM, IL  
[72] GARTY, BEN ZION, IL  
[72] OFFEN, DANIEL, IL  
[71] LEMPO THERAPEUTICS LTD, IL  
[71] RAMOT AT TEL-AVIV UNIVERSITY LTD., IL  
[85] 2021-01-04  
[86] 2019-07-04 (PCT/IL2019/050745)  
[87] (WO2020/008466)  
[30] IL (260445) 2018-07-05

[21] **3,105,657**  
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) A61P 29/00 (2006.01) C07D 213/56 (2006.01) C07D 401/12 (2006.01) C07D 413/12 (2006.01)**  
[25] EN  
[54] **PYRIDINE CARBOXAMIDE COMPOUNDS FOR INHIBITING NAV1.8**  
[54] **COMPOSES DE PYRIDINE CARBOXAMIDE POUR INHIBER NAV1.8**  
[72] HUANG, YIFANG, US  
[72] POSLUSNEY, MICHAEL, US  
[72] ERNST, GLEN, US  
[72] BARROW, JAMES, US  
[71] LIEBER INSTITUTE, INC., US  
[85] 2021-01-04  
[86] 2019-07-09 (PCT/US2019/041029)  
[87] (WO2020/014246)  
[30] US (62/695,571) 2018-07-09

[21] **3,105,658**  
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/52 (2006.01) C12N 15/63 (2006.01)**  
[25] EN  
[54] **RETROTRANSPOSON-BASED DELIVERY VEHICLE AND METHODS OF USE THEREOF**  
[54] **VEHICULE D'ADMINISTRATION A BASE DE RETROTRANSPOSON ET SES PROCEDES D'UTILISATION**  
[72] SCHAFFER, DAVID V., US  
[72] BARNES, CHRISTOPHER, US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2021-01-04  
[86] 2019-07-11 (PCT/US2019/041472)  
[87] (WO2020/014528)  
[30] US (62/697,829) 2018-07-13

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[21] **3,105,659**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12Q 1/6809 (2018.01) C12N 15/10 (2006.01) C12N 15/11 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS AND REAGENTS FOR CHARACTERIZING GENOMIC EDITING, CLONAL EXPANSION, AND ASSOCIATED APPLICATIONS**

[54] **PROCEDES ET REACTIFS POUR CARACTERISER UNE EDITION GENOMIQUE ET UNE EXPANSION CLONALE, ET APPLICATIONS ASSOCIEES**

[72] SALK, JESSE J., US

[72] VALENTINE, CHARLES CLINTON, III, US

[71] TWINSTRAND BIOSCIENCES, INC., US

[85] 2021-01-04

[86] 2019-07-12 (PCT/US2019/041735)

[87] (WO2020/014693)

[30] US (62/697,397) 2018-07-12

[21] **3,105,660**  
[13] A1

[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/32 (2006.01) B23K 37/02 (2006.01) B60P 3/14 (2006.01)**

[25] EN

[54] **PLURALITY OF REMOTE PANELS FOR A VEHICLE MOUNTED WELDING-TYPE POWER SYSTEM; CORRESPONDING POWER SYSTEM AND VEHICLE**

[54] **PLURALITE DE PANNEAUX DISTANTS DESTINES A UN SYSTEME D'ALIMENTATION DE TYPE SOUDAGE MONTE SUR VEHICULE ; SYSTEME D'ALIMENTATION ET VEHICULE CORRESPONDANTS**

[72] NELSON, JONATHAN JAMES, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2021-01-04

[86] 2019-07-17 (PCT/US2019/042149)

[87] (WO2020/018636)

[30] US (62/699,421) 2018-07-17

[30] US (16/513,273) 2019-07-16

[21] **3,105,662**  
[13] A1

[51] **Int.Cl. C07D 413/04 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61P 3/00 (2006.01) A61P 25/00 (2006.01) A61P 27/02 (2006.01) A61P 31/00 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **1,3,4-OXADIAZOLE DERIVATIVE COMPOUNDS AS HISTONE DEACETYLASE 6 INHIBITOR, AND PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**

[54] **COMPOSES DERIVES DE 1,3,4-OXADIAZOLE UTILISES EN TANT QU'INHIBITEUR DE L'HISTONE DESACETYLASE 6, ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT**

[72] LEE, CHANG SIK, KR

[72] OH, JUNG TAEK, KR

[72] YUN, HOKEUN, KR

[72] SONG, HYESEUNG, KR

[72] KIM, HYUNJIN MICHAEL, KR

[71] CHONG KUN DANG PHARMACEUTICAL CORP., KR

[85] 2021-01-05

[86] 2019-07-25 (PCT/KR2019/009228)

[87] (WO2020/022794)

[30] KR (10-2018-0087455) 2018-07-26

[21] **3,105,663**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**

[25] EN

[54] **SERVICE PROCESSING METHOD AND RELATED APPARATUS**

[54] **PROCEDE DE TRAITEMENT DE SERVICE ET APPAREIL ASSOCIE**

[72] JIANG, HAN, CN

[72] REN, CHAO, CN

[72] QIAN, LIANGFANG, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-01-05

[86] 2019-05-09 (PCT/CN2019/086127)

[87] (WO2020/103404)

[30] CN (201811392818.7) 2018-11-21

[21] **3,105,666**  
[13] A1

[51] **Int.Cl. C07K 14/195 (2006.01) C12P 13/22 (2006.01)**

[25] EN

[54] **NOVEL L-TRYPTOPHAN-EXPORTING PROTEIN VARIANT AND METHOD FOR PRODUCING L-TRYPTOPHAN USING THE SAME**

[54] **NOUVEAU VARIANT DE PROTEINE D'EXPORTATION DE L-TRYPTOPHANE ET PROCEDE DE PRODUCTION DE L-TRYPTOPHANE L'UTILISANT**

[72] JUNG, MOO YOUNG, KR

[72] KIM, HYUN AH, KR

[72] SEO, CHANG IL, KR

[72] LEE, IMSANG, KR

[72] KIM, JI-WON, KR

[72] KIM, TAE YEON, KR

[72] SON, SUNG KWANG, KR

[72] CHEONG, KI YONG, KR

[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2021-01-05

[86] 2020-03-20 (PCT/KR2020/003855)

[87] (WO2020/204427)

[30] KR (10-2019-0040397) 2019-04-05

[21] **3,105,668**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01)**

[25] EN

[54] **EXON SKIPPING OLIGOMERS FOR MUSCULAR DYSTROPHY**

[54] **OLIGOMERES A SAUTS D'EXONS ASSOCIES A LA DYSTROPHIE MUSCULAIRE**

[72] SCHNELL, FREDERICK JOSEPH, US

[72] SOMMELET, ANAT, US

[71] SAREPTA THERAPEUTICS, INC., US

[85] 2021-01-04

[86] 2019-07-25 (PCT/US2019/043330)

[87] (WO2020/023688)

[30] US (62/711,215) 2018-07-27

[30] US (62/868,003) 2019-06-28

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[21] **3,105,669**  
[13] A1

[51] **Int.Cl. B29C 64/393 (2017.01) B29C 64/118 (2017.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR MANAGING OOZE FROM A PRINT NOZZLE**  
[54] **PROCEDE ET APPAREIL DE GESTION DE SUINTEMENT A PARTIR D'UNE BUSE D'IMPRESSION**  
[72] CANDLER, PAUL ANTHONY, NL  
[71] ULTIMAKER B.V., NL  
[85] 2021-01-05  
[86] 2019-07-09 (PCT/NL2019/050427)  
[87] (WO2020/022874)  
[30] NL (2021381) 2018-07-24

[21] **3,105,670**  
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01)**  
[25] EN  
[54] **COMPOSITIONS FOR THERAPEUTICS PRESCREENING**  
[54] **COMPOSITIONS POUR LE PRE-CRIBLAGE D'AGENTS THERAPEUTIQUES**  
[72] EAVRI, RONEN, IL  
[72] SABBAAH, ANNIE, IL  
[72] BADINTER, FELIX, IL  
[72] TSHUVA, RAPHAEL, IL  
[72] SCHROEDER, AVI, IL  
[71] BARCODE DIAGNOSTICS LTD., IL  
[85] 2021-01-05  
[86] 2019-07-04 (PCT/IL2019/050748)  
[87] (WO2020/008467)  
[30] US (62/694,103) 2018-07-05

[21] **3,105,671**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01)**  
[25] EN  
[54] **METHOD OF REMOVING LIPOPEPTIDES FROM SOLUTIONS AND CHANGING THEIR STRUCTURE**  
[54] **PROCEDE D'ELIMINATION DE LIPOPEPTIDES PRESENTS DANS DES SOLUTIONS ET DE MODIFICATION DE LEUR STRUCTURE**  
[72] KULAZYNSKI, MAREK, PL  
[72] LUKASZEWICZ, MARCIN, PL  
[72] FALTYNOWICZ, HANNA, PL  
[71] INVENTIONBIO SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL  
[85] 2020-11-19  
[86] 2019-05-30 (PCT/IB2019/054480)  
[87] (WO2019/229690)  
[30] PL (PL425775) 2018-05-30

[21] **3,105,672**  
[13] A1

[51] **Int.Cl. B62B 7/08 (2006.01)**  
[25] EN  
[54] **MOVABLE CARRIER AND FOLDING METHOD THEREFOR**  
[54] **VEHICULE PORTEUR MOBILE ET PROCEDE DE PLIAGE ASSOCIE**  
[72] CHENG, CHIH-CHING, CN  
[71] UNIQUE PRODUCT & DESIGN CO., LTD., CN  
[85] 2021-01-05  
[86] 2019-05-13 (PCT/CN2019/086524)  
[87] (WO2020/007123)  
[30] US (62/694,237) 2018-07-05

[21] **3,105,673**  
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01)**  
[25] EN  
[54] **NETWORK ARCHITECTURE FOR GAMING INDUSTRY ACCOUNTING**  
[54] **ARCHITECTURE DE RESEAU POUR LA COMPTABILITE DE L'INDUSTRIE DU JEU**  
[72] MOHRHARDT, DOMINIC, US  
[72] KUBAJAK, DAVE, US  
[72] NGUYEN, MIKE, US  
[71] JCM AMERICAN CORPORATION, US  
[85] 2021-01-04  
[86] 2019-09-11 (PCT/US2019/050677)  
[87] (WO2020/056043)  
[30] US (16/130,346) 2018-09-13

[21] **3,105,674**  
[13] A1

[51] **Int.Cl. H04N 19/176 (2014.01) H04N 19/503 (2014.01) H04N 19/70 (2014.01) H04N 19/90 (2014.01) H04N 19/96 (2014.01)**  
[25] EN  
[54] **BOUNDARY BLOCK PARTITIONING IN VIDEO CODING**  
[54] **PARTITIONNEMENT DE BLOCS LIMITES EN CODAGE DE VIDEO**  
[72] GAO, HAN, DE  
[72] CHEN, JIANLE, US  
[72] ESENLIK, SEMIH, DE  
[72] ZHAO, ZHIJIE, DE  
[72] KOTRA, ANAND MEHER, DE  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2021-01-05  
[86] 2019-06-27 (PCT/CN2019/093396)  
[87] (WO2020/011024)  
[30] US (62/697,274) 2018-07-12  
[30] US (62/818,996) 2019-03-15

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[21] **3,105,675**  
[13] A1

[51] **Int.Cl. G06F 16/2452 (2019.01)**  
[25] EN  
[54] **MACHINE INTELLIGENCE FOR RESEARCH AND ANALYTICS (MIRA) SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE D'INTELLIGENCE ARTIFICIELLE POUR LA RECHERCHE ET L'ANALYSE (MIRA)**  
[72] MOHANTY, SATYAKAM, IN  
[72] RISHI, ASHISH, IN  
[72] MISHRA, PRADEEPTA, IN  
[71] LYMBYC SOLUTIONS PRIVATE LIMITED, IN  
[85] 2021-01-05  
[86] 2019-07-09 (PCT/IN2019/000017)  
[87] (WO2020/012495)  
[30] IN (201841025668) 2018-07-10

[21] **3,105,678**  
[13] A1

[51] **Int.Cl. C04B 20/10 (2006.01) C04B 20/12 (2006.01) C04B 26/02 (2006.01) C04B 28/02 (2006.01)**  
[25] EN  
[54] **THERMAL INSULATING COMPOSITION BASED ON SILICA GRANULATES**  
[54] **COMPOSITION ISOLANTE THERMIQUE A BASE DE GRANULES DE SILICE**  
[72] GEISLER, MATTHIAS, DE  
[72] NARGIELLO, MARIA, US  
[72] GERHARZ-KALTE, BETTINA, DE  
[72] LAZAR, BJORN, DE  
[72] NUMRICH, UWE, DE  
[72] BOES, ULRICH, DE  
[72] LIN, BOB TSE-WENG, US  
[72] BIESIADA, CRAIG, US  
[71] EVONIK OPERATIONS GMBH, DE  
[85] 2021-01-05  
[86] 2019-07-08 (PCT/EP2019/068190)  
[87] (WO2020/016034)  
[30] US (62/699,187) 2018-07-17

[21] **3,105,679**  
[13] A1

[51] **Int.Cl. C12Q 1/6881 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/686 (2018.01)**  
[25] EN  
[54] **METHOD FOR EPIGENETIC IMMUNE CELL DETECTION AND COUNTING IN HUMAN BLOOD SAMPLES FOR IMMUNODIAGNOSTICS AND NEWBORN SCREENING**  
[54] **PROCEDE DE DETECTION ET DE COMPTAGE DE CELLULES IMMUNITAIRES EPIGENETIQUES DANS DES ECHANTILLONS DE SANG HUMAIN POUR L'IMMUNODIAGNOSTIC ET LE DEPISTAGE DU NOUVEAU-NE**  
[72] OLEK, SVEN, DE  
[71] PRECISION FOR MEDICINE GMGH, DE  
[85] 2021-01-05  
[86] 2019-07-03 (PCT/EP2019/067876)  
[87] (WO2020/007928)  
[30] DE (10 2018 116 353.3) 2018-07-05

[21] **3,105,680**  
[13] A1

[51] **Int.Cl. A61K 31/485 (2006.01) A61P 17/04 (2006.01) C07D 489/08 (2006.01)**  
[25] EN  
[54] **TREATMENT OF THE PRURITIC SYMPTOMS OF LIVER DISEASE**  
[54] **TRAITEMENT DES SYMPTOMES PRURIGINEUX DE LA MALADIE DU FOIE**  
[72] SCIASCIA, THOMAS, US  
[72] HAWI, AMALE, US  
[71] TREVI THERAPEUTICS, INC., US  
[85] 2021-01-05  
[86] 2019-07-10 (PCT/US2019/041177)  
[87] (WO2020/014342)  
[30] US (62/696,610) 2018-07-11

[21] **3,105,681**  
[13] A1

[51] **Int.Cl. C07D 237/14 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/538 (2006.01) A61K 31/55 (2006.01) A61K 31/551 (2006.01) A61P 21/02 (2006.01) A61P 25/08 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 43/00 (2006.01) C07D 237/22 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 487/10 (2006.01) C07D 491/048 (2006.01) C07D 491/08 (2006.01)**  
[25] EN  
[54] **PYRIDAZINONE DERIVATIVE**  
[54] **DERIVE DE PYRIDAZINONE**  
[72] NISHIDA, TOMOAKI, JP  
[72] UEMACHI, HIRO, JP  
[72] IWATA, MASATO, JP  
[72] SHIBATA, HAJIME, JP  
[72] NISHIMAKI, TAKUYA, JP  
[72] KIYOSHIGE, SAORI, JP  
[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP  
[85] 2021-01-05  
[86] 2019-07-18 (PCT/JP2019/028256)  
[87] (WO2020/017587)  
[30] JP (2018-136152) 2018-07-19

[21] **3,105,684**  
[13] A1

[51] **Int.Cl. B01L 7/00 (2006.01) C12Q 1/6851 (2018.01) C12Q 1/686 (2018.01) G16B 40/10 (2019.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR DETECTING AND QUANTIFYING NUCLEIC ACIDS**  
[54] **PROCEDES ET SYSTEMES DE DETECTION ET DE QUANTIFICATION D'ACIDES NUCLEIQUES**  
[72] WANG, XIANQUN, US  
[72] TUGGLE, JAMES T., US  
[72] SHAH, ANKUR H., US  
[71] GEN-PROBE INCORPORATED, US  
[85] 2021-01-05  
[86] 2019-07-10 (PCT/US2019/041260)  
[87] (WO2020/014400)  
[30] US (62/696,147) 2018-07-10  
[30] US (62/764,946) 2018-08-17

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[13] A1

[51] **Int.Cl. C08J 5/06 (2006.01) C08J 3/14 (2006.01) C08L 23/12 (2006.01)**

[25] EN

[54] **METHOD OF PREPARING A MICROCRYSTALLINE CELLULOSE REINFORCED POLYMER COMPOSITE**

[54] **PROCEDE DE PREPARATION D'UN COMPOSITE POLYMERRE RENFORCE PAR DE LA CELLULOSE MICROCRISTALLINE**

[72] PHONTHAMMACHAI, NOPPHAWAN, TH

[72] TREETHAMMAKUL, SUPAKITT, TH

[72] NICHARAT, APIRADEE, TH

[71] THAI POLYETHYLENE CO., LTD., TH

[85] 2021-01-05

[86] 2019-07-12 (PCT/TH2019/000022)

[87] (WO2020/018023)

[30] SG (10201806087X) 2018-07-16

[21] **3,105,686**  
[13] A1

[51] **Int.Cl. A61B 5/097 (2006.01) A61B 5/00 (2006.01) A61B 5/08 (2006.01) A61B 5/087 (2006.01)**

[25] EN

[54] **BREATH ANALYTE DETECTION DEVICE**

[54] **DISPOSITIF DE DETECTION D'ANALYTE DANS L'HALEINE**

[72] RATTO, TIMOTHY V., US

[72] RATTO, MATTHEW V., US

[71] READOUT, INC., US

[85] 2021-01-05

[86] 2019-06-27 (PCT/US2019/039623)

[87] (WO2020/014001)

[30] US (62/695,882) 2018-07-10

[21] **3,105,687**  
[13] A1

[51] **Int.Cl. A63B 47/00 (2006.01) A63B 69/00 (2006.01) A63B 71/06 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM FOR REGULATION BALLS IN A FOOTBALL FIELD AND REGULATION BALL SUPPORT FOR SAME**

[54] **SYSTEME DE COMMANDE DE BALLONS DE REGULATION DANS UN TERRAIN DE FOOTBALL ET SUPPORT DE BALLON DE REGULATION POUR CELUI-CI**

[72] RODRIGUEZ PEREZ, JAVIER, ES

[71] RODRIGUEZ PEREZ, JAVIER, ES

[85] 2021-01-05

[86] 2019-07-10 (PCT/EP2019/068510)

[87] (WO2020/011844)

[30] ES (U 201800413) 2018-07-10

[21] **3,105,690**  
[13] A1

[51] **Int.Cl. H01M 10/48 (2006.01) B60L 58/16 (2019.01) G01R 31/392 (2019.01) B60L 3/00 (2019.01) H02J 7/00 (2006.01)**

[25] EN

[54] **BATTERY RESIDUAL VALUE DISPLAY DEVICE**

[54] **DISPOSITIF D'AFFICHAGE DE VALEUR RESIDUELLE DE BATTERIE**

[72] MUNAKATA, ICHIRO, JP

[72] KANARI, TOSHIKI, JP

[72] SHOJI, MASAHIRO, JP

[72] MATSUMOTO, KATSUNARI, JP

[72] ISHIGAMI, RYO, JP

[72] ANRUI, TAKANORI, JP

[72] SHIMOYAMADA, MISAKI, JP

[72] SHOJI, HIDEKI, JP

[71] TOYO SYSTEM CO., LTD., JP

[85] 2021-01-05

[86] 2020-01-29 (PCT/JP2020/003244)

[87] (WO2020/202751)

[30] JP (2019-070855) 2019-04-02

[21] **3,105,691**  
[13] A1

[51] **Int.Cl. B01D 53/22 (2006.01) B01D 63/08 (2006.01) B01D 67/00 (2006.01) B01D 69/12 (2006.01) C01B 3/02 (2006.01)**

[25] EN

[54] **GAS SEPARATION DEVICE**

[54] **DISPOSITIF DE SEPARATION DE GAZ**

[72] GRANLUND, KNUT HARALD, NO

[72] RONESS, FRODE, NO

[72] EGGEN, NILS ANDREAS, NO

[72] REINERTSEN, THOMAS, NO

[71] HYDROGEN MEM-TECH AS, NO

[85] 2021-01-05

[86] 2019-07-12 (PCT/EP2019/068893)

[87] (WO2020/012018)

[30] GB (1811436.3) 2018-07-12

[21] **3,105,693**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01)**

[25] EN

[54] **METHOD FOR DETERMINING SCHEDULING PARAMETER, METHOD FOR CONFIGURING SCHEDULING PARAMETER, TERMINAL, AND NETWORK-SIDE DEVICE**

[54] **PROCEDE DE DETERMINATION DE PARAMETRE DE PLANIFICATION ET PROCEDE DE CONFIGURATION DE PARAMETRE DE PLANIFICATION, TERMINAL, ET DISPOSITIF COTE RESEAU**

[72] YANG, YU, CN

[72] SUN, PENG, CN

[71] VIVO MOBILE COMMUNICATION CO., LTD., CN

[85] 2021-01-05

[86] 2019-07-03 (PCT/CN2019/094522)

[87] (WO2020/011084)

[30] CN (201810762971.8) 2018-07-12

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[21] **3,105,694**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 14/725 (2006.01)**

[25] EN

[54] **AFFINITY MATURED CD22-SPECIFIC MONOCLONAL ANTIBODY AND USES THEREOF**

[54] **ANTICORPS MONOCLONAL SPECIFIQUE POUR CD22 A MATURATION PAR AFFINITE ET UTILISATIONS ASSOCIEES**

[72] DIMITROV, DIMITER S., US

[72] ZHU, ZHONGYU, US

[72] RAMAKRISHNA, SNEHA, US

[72] FRY, TERRY J., US

[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[85] 2021-01-05

[86] 2019-07-11 (PCT/US2019/041401)

[87] (WO2020/014482)

[30] US (62/697,185) 2018-07-12

[21] **3,105,696**  
[13] A1

[51] **Int.Cl. B02C 13/04 (2006.01) B02C 13/28 (2006.01) B02C 13/30 (2006.01)**

[25] EN

[54] **HIGH EFFICIENCY IMPACT MILL**

[54] **BROYEUR A PERCUSSION A EFFICACITE ELEVEE**

[72] CHEN, MICHAEL M., US

[72] PODMOKLY, DAVID M., US

[72] CHEN, JIANRONG, US

[71] SCHENCK PROCESS LLC, US

[85] 2021-01-05

[86] 2018-07-10 (PCT/US2018/041383)

[87] (WO2020/013808)

[21] **3,105,698**  
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 9/127 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **USE OF MITOXANTRONE LIPOSOME FOR TREATING NON-HODGKIN'S LYMPHOMA**

[54] **UTILISATION DE LIPOSOME DE MITOXANTRONE POUR TRAITER LE LYMPHOME NON HODGKINIEN**

[72] LI, CHUNLEI, CN

[72] PENG, YUEYING, CN

[72] LOU, KUN, CN

[72] WANG, YAJUAN, CN

[72] WANG, YUMEI, CN

[72] CHEN, SHAN, CN

[72] MENG, ZHIBIN, CN

[72] XUE, JIANFEI, CN

[72] YUAN, JING, CN

[72] LUO, HONGMEI, CN

[72] YAO, XUEKUN, CN

[72] WANG, SHIXIA, CN

[71] CSPC ZHONGQI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD., CN

[85] 2021-01-05

[86] 2019-07-10 (PCT/CN2019/095396)

[87] (WO2020/011189)

[30] CN (201810756315.7) 2018-07-11

[21] **3,105,700**  
[13] A1

[51] **Int.Cl. G01V 99/00 (2009.01)**

[25] EN

[54] **SECURE RECONSTRUCTION OF GEOSPATIAL DATA**

[54] **RECONSTRUCTION SECURISEE DE DONNEES GEOSPATIALES**

[72] RUSHFORTH, ALEXANDER JAMES, US

[72] VYAVAHARE, NILESH AMBADAS, GB

[72] WROBEL-DAVEAU, JEAN-CHRISTOPHE, GB

[71] LANDMARK GRAPHICS CORPORATION, US

[85] 2021-01-05

[86] 2018-08-06 (PCT/US2018/045365)

[87] (WO2020/032917)

[21] **3,105,701**  
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/13 (2018.01) A61J 1/03 (2006.01) A61J 7/04 (2006.01) B65D 75/36 (2006.01)**

[25] EN

[54] **BLISTER PACK STATION**

[54] **SUPPORT POUR PLAQUETTE ALVEOLAIRE**

[72] VAN TENAC, PHILLIP JOHN, GB

[71] ALERTAPACK LTD, GB

[85] 2020-12-30

[86] 2019-07-03 (PCT/IB2019/055676)

[87] (WO2020/008386)

[30] GB (1810882.9) 2018-07-03

[21] **3,105,704**  
[13] A1

[51] **Int.Cl. A44C 17/04 (2006.01) A44C 27/00 (2006.01)**

[25] EN

[54] **GEM APPLICATOR ASSEMBLY**

[54] **ENSEMBLE APPLICATEUR DE PIERRE PRECIEUSE**

[72] CELLA, ANGIE, US

[72] DIAZ, FEDERICO, GB

[72] MERCIER, MATTHEW, US

[72] BURRILL, JOHN, US

[72] VERMA, VISHAAL, US

[72] ABBOTT, BRADLEY, US

[71] GEMC2, LLC, US

[85] 2021-01-05

[86] 2018-10-02 (PCT/US2018/053922)

[87] (WO2020/009716)

[30] US (16/028,628) 2018-07-06

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[13] A1

[51] **Int.Cl. C07H 21/00 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **OLIGONUCLEOTIDES COMPRISING A PHOSPHOROTRITHIOATE INTERNUCLEOSIDE LINKAGE**

[54] **OLIGONUCLEOTIDES COMPRENANT UNE LIAISON INTERNUCLEOSIDIQUE PHOSPHOROTRITHIOATE**

[72] BLEICHER, KONRAD, CH  
[72] KOCH, TROELS, DK  
[72] SCHAEUBLIN, ADRIAN, CH  
[72] DUSCHMALE, JOERG JAKOB ANDREAS, CH

[72] DUSCHMALE, MARTINA BRIGITTE, CH

[72] LI, MEILING, CH  
[72] KOLLER, ERICH, CH

[71] ROCHE INNOVATION CENTER COPENHAGEN A/S, DK

[85] 2021-01-05  
[86] 2019-07-30 (PCT/EP2019/070406)  
[87] (WO2020/025563)  
[30] EP (18186679.9) 2018-07-31

[21] **3,105,706**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 47/64 (2017.01) A61K 39/385 (2006.01) A61P 37/04 (2006.01) C07K 7/06 (2006.01) C07K 14/00 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **SELF-ASSEMBLING PEPTIDE SCAFFOLD**

[54] **ECHAFAUDAGE PEPTIDIQUE AUTOASSEMBLE**

[72] MILLER, KEITH DOUGLAS, US  
[71] HEXAMER THERAPEUTICS INC., US

[85] 2021-01-05  
[86] 2019-07-12 (PCT/US2019/041601)  
[87] (WO2020/014609)  
[30] US (62/697,132) 2018-07-12

[21] **3,105,707**  
[13] A1

[51] **Int.Cl. F24D 10/00 (2006.01) F24D 19/10 (2006.01)**

[25] EN

[54] **DISTRIBUTED HEATING AND COOLING NETWORK**

[54] **RESEAU DE CHAUFFAGE ET DE REFROIDISSEMENT REPARTI**

[72] BETZ, MARTIN, IE  
[71] BASIC HOLDINGS, IE

[85] 2021-01-05  
[86] 2019-07-04 (PCT/EP2019/068006)  
[87] (WO2020/007986)  
[30] GB (1811105.4) 2018-07-06

[21] **3,105,708**  
[13] A1

[51] **Int.Cl. H04M 3/51 (2006.01) H04M 1/725 (2021.01) H04M 3/523 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR OMNI-CHANNEL NOTIFICATION AND SELECTION**

[54] **SYSTEME ET PROCEDE DE NOTIFICATION ET DE SELECTION OMNI-CANAL**

[72] ANANDADOSS, PRAVEEN KUMAR, IN  
[72] SUBRAMANIAN, RAJESHKUMAR, IN

[72] SIVAKUMAR, VENKATESH, IN  
[71] GREENEDEN U.S. HOLIDNGS II, LLC, US

[85] 2021-01-05  
[86] 2018-11-21 (PCT/US2018/062160)  
[87] (WO2020/009720)  
[30] US (16/028,972) 2018-07-06

[21] **3,105,709**  
[13] A1

[51] **Int.Cl. A61L 27/20 (2006.01) A61F 2/00 (2006.01) A61K 9/00 (2006.01) A61L 27/52 (2006.01) A61L 27/54 (2006.01) C08L 5/08 (2006.01)**

[25] EN

[54] **HYALURONIC ACID FILLER HAVING HIGH VISCOELASTICITY AND HIGH COHESIVENESS**

[54] **PRODUIT DE COMPLEMENT A BASE D'ACIDE HYALURONIQUE PRESENTANT UNE VISCOELASTICITE ET UNE COHESION ELEVEES**

[72] JANG, CHEOL, KR  
[72] LEE, CHUNG, KR  
[72] KIM, JI SUN, KR  
[72] JUNG, HYUN TAE, KR  
[72] LEE, CHANG HYUN, KR  
[72] SO, JINEON, KR  
[72] REE, HWAYOUN, KR  
[71] LG CHEM, LTD., KR

[85] 2021-01-05  
[86] 2019-07-08 (PCT/KR2019/008374)  
[87] (WO2020/009555)  
[30] KR (10-2018-0078989) 2018-07-06

[21] **3,105,710**  
[13] A1

[51] **Int.Cl. C01B 32/318 (2017.01) B01J 20/20 (2006.01) B01J 20/30 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING POROUS CARBON, AND ELECTRODE AND CATALYST CARRIER CONTAINING POROUS CARBON PRODUCED BY THE METHOD**

[54] **METHODE DE PRODUCTION DE CARBONE POREUX, ET ELECTRODE ET SUPPORT DE CATALYSEUR CONTENANT DU CARBONE POREUX PRODUIT PAR LADITE METHODE DE PRODUCTION**

[72] ANZAI, MIZUHO, JP  
[72] MORISHITA, TAKAHIRO, JP  
[72] SHODAI, YOSHIO, JP  
[71] TOYO TANSO CO., LTD., JP

[85] 2020-12-29  
[86] 2019-07-01 (PCT/JP2019/026199)  
[87] (WO2020/004674)  
[30] JP (2018-125618) 2018-06-29



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[21] **3,105,711**  
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/00 (2006.01) G06N 3/04 (2006.01) G06N 3/08 (2006.01)**

[25] EN

[54] **HYBRID PHYSICS-BASED AND MACHINE LEARNING MODELS FOR RESERVOIR SIMULATIONS**

[54] **MODELES HYBRIDES D'APPRENTISSAGE AUTOMATIQUE BASES SUR LA PHYSIQUE POUR SIMULATIONS DE RESERVOIR**

[72] MADASU, SRINATH, US

[72] RANGARAJAN, KESHAVA PRASAD, US

[71] LANDMARK GRAPHICS CORPORATION, US

[85] 2021-01-05

[86] 2019-04-30 (PCT/US2019/030059)

[87] (WO2020/040829)

[30] US (62/720,070) 2018-08-20

[21] **3,105,713**  
[13] A1

[51] **Int.Cl. F25D 3/08 (2006.01) B60B 37/00 (2006.01) B62B 1/18 (2006.01) B65D 25/20 (2006.01) B65D 90/18 (2006.01)**

[25] EN

[54] **CONTAINER WITH AXLE-LESS WHEEL ASSEMBLY**

[54] **RECIPIENT CONTENANT UN ENSEMBLE ROUES SANS AXE**

[72] BARROS, ROQUE, US

[72] ROSS, ROBERT ALLAN, US

[72] DUONG, QUANG LEE, US

[72] DEKEYSER, NICHOLAS, US

[72] MCKENRICK, JAMES, US

[72] PHAM, NINH, US

[71] IGLOO PRODUCTS CORP., US

[85] 2021-01-05

[86] 2019-05-14 (PCT/US2019/032206)

[87] (WO2020/013913)

[30] US (62/697,036) 2018-07-12

[21] **3,105,714**  
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/13 (2018.01) A61J 1/03 (2006.01) A61J 7/04 (2006.01) B65D 75/36 (2006.01)**

[25] EN

[54] **SMART MEDICATION BLISTER PACK**

[54] **PLAQUETTE DE MEDICAMENT INTELLIGENTE**

[72] VAN TENAC, PHILLIP JOHN, GB

[71] ALERTAPACK LTD, GB

[85] 2020-12-30

[86] 2019-07-03 (PCT/IB2019/055674)

[87] (WO2020/008385)

[30] GB (1810881.1) 2018-07-03

[21] **3,105,715**  
[13] A1

[51] **Int.Cl. C09B 57/00 (2006.01) C07D 413/14 (2006.01) C07H 21/00 (2006.01) C09B 11/24 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **BICONJUGATABLE LABELS AND METHODS OF USE**

[54] **INDICATEURS BIOCONJUGABLES ET METHODES D'UTILISATION**

[72] ROTHBERG, JONATHAN M., US

[72] LACKEY, JEREMY, US

[72] NANI, ROGER, US

[72] DODD, DAVID, US

[71] QUANTUM-SI INCORPORATED, US

[85] 2021-01-05

[86] 2019-07-12 (PCT/US2019/041717)

[87] (WO2020/014681)

[30] US (62/698,006) 2018-07-13

[21] **3,105,716**  
[13] A1

[51] **Int.Cl. G01B 21/04 (2006.01) B23Q 3/155 (2006.01) B25J 15/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**

[25] FR

[54] **MEASURING ARM WITH MULTIFUNCTIONAL END**

[54] **BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION**

[72] DESFORGES, LAURENT, FR

[72] DUPORTAL, THIBAUT, FR

[72] ROUX, DENIS, FR

[72] FAMECHON, JEAN-LUC, FR

[72] INGLIS, WES, US

[71] HEXAGON METROLOGY SAS, FR

[85] 2021-01-05

[86] 2019-07-04 (PCT/EP2019/068032)

[87] (WO2020/008001)

[30] FR (18 56250) 2018-07-06

[21] **3,105,717**  
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 38/00 (2006.01) A61K 38/17 (2006.01)**

[25] EN

[54] **TUMOR REDUCTION FORMULATIONS AND METHODS OF USE THEREOF**

[54] **FORMULATIONS DE REDUCTION DE TUMEUR ET LEURS PROCEDES D'UTILISATION**

[72] HOFFMAN, STEVEN, US

[72] ROTHMAN, JOHN, US

[71] TYME, INC, US

[85] 2021-01-05

[86] 2019-07-02 (PCT/US2019/040264)

[87] (WO2020/023191)

[30] US (62/695,614) 2018-07-09

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[21] **3,105,718**  
[13] A1

[51] **Int.Cl. G06F 7/00 (2006.01)**  
[25] EN  
[54] **METHOD, SYSTEM, AND APPARATUS FOR RAPID GEOGRAPHIC SEARCH IN AN ACTOR-BASED GEOGRAPHIC SEARCH NETWORK**

[54] **PROCEDE, SYSTEME ET APPAREIL DE RECHERCHE GEOGRAPHIQUE RAPIDE DANS UN RESEAU DE RECHERCHE GEOGRAPHIQUE BASE SUR UN ACTEUR**

[72] GONZALEZ, MATIAS SEBASTIAN, US  
[72] COSTA, THIAGO FERREIRA, US  
[72] BASTARDO, ANTONIO, US  
[72] VILORIA, ALVARO, US  
[71] GROUPON, INC., US  
[85] 2021-01-05  
[86] 2019-07-02 (PCT/US2019/040403)  
[87] (WO2020/010145)  
[30] US (62/694,333) 2018-07-05

[21] **3,105,720**  
[13] A1

[51] **Int.Cl. B65D 25/10 (2006.01) B65D 5/50 (2006.01) B65D 57/00 (2006.01)**  
[25] EN  
[54] **ORIENTING ASSEMBLY FOR SECONDARY PACKAGES**

[54] **ENSEMBLE D'ORIENTATION POUR EMBALLAGES SECONDAIRES**

[72] DEKOCKER, WIM, BE  
[72] THOMPSON, KEENAN, BE  
[71] ANHEUSER-BUSCH INBEV S.A., BE  
[85] 2021-01-05  
[86] 2019-07-05 (PCT/EP2019/068161)  
[87] (WO2020/008059)  
[30] BE (BE2018/5476) 2018-07-06  
[30] US (62/694,531) 2018-07-06

[21] **3,105,721**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 9/00 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **FUSED PYRAZINE DERIVATIVES AS A2A / A2B INHIBITORS**

[54] **DERIVES DE PYRAZINE FUSIONNES EN TANT QU'INHIBITEURS D'A2A/A2B**

[72] HOANG, GIA, US  
[72] WANG, XIAOZHAO, US  
[72] CARLSEN, PETER NIELS, US  
[72] GAN, PEI, US  
[72] LI, YONG, US  
[72] QI, CHAO, US  
[72] WU, LIANGXING, US  
[72] YAO, WENQING, US  
[72] YU, ZHIYONG, US  
[72] ZHU, WENYU, US  
[71] INCYTE CORPORATION, US  
[85] 2021-01-05  
[86] 2019-07-03 (PCT/US2019/040496)  
[87] (WO2020/010197)  
[30] US (62/694,138) 2018-07-05  
[30] US (62/755,845) 2018-11-05

[21] **3,105,723**  
[13] A1

[51] **Int.Cl. A61K 31/4015 (2006.01) A61K 35/747 (2015.01) A61P 3/04 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **REUTERICYCLIN OR LACTOBACILLUS REUTERII FOR REDUCING WEIGHT GAIN**

[54] **REUTERICYCLINE OU LACTOBACILLUS REUTERII POUR REDUIRE LE GAIN DE POIDS**

[72] KIRBY, JOHN RICHARD, US  
[72] DE LEON, ORLANDO GRAJO, US  
[71] THE MEDICAL COLLEGE OF WISCONSIN, INC., US  
[85] 2021-01-05  
[86] 2019-07-15 (PCT/US2019/041803)  
[87] (WO2020/018420)  
[30] US (62/698,601) 2018-07-16

[21] **3,105,725**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) A01B 69/00 (2006.01) A01B 69/04 (2006.01) A01D 41/127 (2006.01) G05D 1/00 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL CONTROL AND INTERFACE SYSTEM**

[54] **SYSTEME AGRICOLE D'INTERFACE ET DE COMMANDE**

[72] KOCER, JARED ERNEST, US  
[72] WALKES, DOMINIC, US  
[72] MUNDT, CLINTON HOWARD, CA  
[72] THOMPSON, BRUCE, CA  
[72] TIBOUT, MARC ROGER, CA  
[72] BARROWS, AMY, US  
[72] SKANDERUP, JOSHUA JAMES, US  
[72] WELBIG, PAUL, US  
[71] RAVEN INDUSTRIES, INC., US  
[85] 2021-01-05  
[86] 2019-07-11 (PCT/US2019/041477)  
[87] (WO2020/014533)  
[30] US (62/696,747) 2018-07-11

[21] **3,105,726**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) G01N 33/574 (2006.01) G01N 33/577 (2006.01)**  
[25] EN  
[54] **BCL-2 ANTIBODIES AND IMMUNOASSAY FOR DIAGNOSIS OF CANCER**

[54] **ANTICORPS ANTI-BCL-2 ET DOSAGE IMMUNOLOGIQUE POUR LE DIAGNOSTIC DU CANCER**

[72] BOHANNON, ROBERT, US  
[72] KINJAL, BHAVSAR, IN  
[72] ARUNDOY, SUR, US  
[71] OVATION DIAGNOSTICS LLC, US  
[85] 2021-01-05  
[86] 2019-07-05 (PCT/US2019/040683)  
[87] (WO2020/010304)  
[30] US (62/694,142) 2018-07-05

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[21] **3,105,728**  
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61M 1/00 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR CONTROLLED CLOT ASPIRATION**  
[54] **APPAREIL ET METHODES D'ASPIRATION CONTROLEE DE CAILLOTS**  
[72] TEIGEN, SCOTT, US  
[72] LOISEL, STEVEN, US  
[72] PONS, STEPHEN, US  
[72] TOMPKINS, BEN, US  
[71] PENUMBRA, INC., US  
[85] 2021-01-05  
[86] 2019-07-23 (PCT/US2019/043095)  
[87] (WO2020/023541)  
[30] US (62/702,804) 2018-07-24  
[30] US (62/778,708) 2018-12-12

[21] **3,105,729**  
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **DOSING REGIMEN FOR BCMA-CD3 BISPECIFIC ANTIBODIES**  
[54] **REGIME POSOLOGIQUE POUR ANTICORPS BISPECIFIQUES BCMA-CD3**  
[72] ZUGMAIER, GERHARD, DE  
[72] TOPP, MAX, DE  
[72] MUNZERT, GERD, DE  
[71] AMGEN RESEARCH (MUNICH) GMBH, DE  
[71] AMGEN INC., US  
[85] 2021-01-05  
[86] 2019-07-30 (PCT/EP2019/070455)  
[87] (WO2020/025596)  
[30] US (62/712,357) 2018-07-31

[21] **3,105,731**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/51 (2006.01) A61K 31/35 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **POLYMERIC NANOPARTICLES COMPRISING SALINOMYCIN**  
[54] **NANOPARTICULES POLYMERES COMPRENANT DE LA SALINOMYCINE**  
[72] KHARBANDA, SURENDER, US  
[72] HILL, JAMES, US  
[72] APPAJOSYULAN, SIREESH, US  
[72] ROSENBERG, MARK, US  
[72] SINGH, HARPAL, US  
[71] HILLSTREAM BIOPHARMA INC., US  
[85] 2021-01-05  
[86] 2019-07-18 (PCT/US2019/042382)  
[87] (WO2020/018778)  
[30] US (62/699,963) 2018-07-18

[21] **3,105,732**  
[13] A1

[51] **Int.Cl. G01M 5/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING RISK OF DAMAGE TO A STRUCTURE AND ASSOCIATED SYSTEM**  
[54] **PROCEDE DE DETERMINATION D'UN RISQUE D'ENDOMMAGEMENT D'UNE STRUCTURE ET SYSTEME ASSOCIE**  
[72] JUDENHERC, SEBASTIEN, FR  
[72] FRIGUI, FAROUK, FR  
[72] DALVERNY, OLIVIER, FR  
[71] STANEO, FR  
[85] 2021-01-06  
[86] 2019-07-15 (PCT/FR2019/051772)  
[87] (WO2020/012141)  
[30] FR (18 56501) 2018-07-13

[21] **3,105,734**  
[13] A1

[51] **Int.Cl. A61M 11/00 (2006.01)**  
[25] EN  
[54] **HIGH PRESSURE INHALATION DEVICE**  
[54] **DISPOSITIF D'INHALATION A HAUTE PRESSION**  
[72] BARTELS, FRANK, DE  
[72] RAWERT, JURGEN, DE  
[71] SOFTHALE NV, BE  
[85] 2021-01-05  
[86] 2019-08-07 (PCT/EP2019/071195)  
[87] (WO2020/030682)  
[30] EP (18188584.9) 2018-08-10  
[30] US (62/717,614) 2018-08-10

[21] **3,105,735**  
[13] A1

[51] **Int.Cl. B65D 21/02 (2006.01) B65D 21/04 (2006.01) B65D 90/02 (2019.01) B65G 1/00 (2006.01)**  
[25] EN  
[54] **CONTAINER WITH NESTABLE STRUCTURE**  
[54] **RECIPIENT A STRUCTURE EMBOITABLE**  
[72] LUBURIC, FRANO, US  
[71] BWAY CORPORATION, US  
[85] 2021-01-05  
[86] 2019-07-05 (PCT/US2019/040721)  
[87] (WO2020/010327)  
[30] US (62/694,262) 2018-07-05

[21] **3,105,737**  
[13] A1

[51] **Int.Cl. G01N 27/62 (2021.01) H01J 49/00 (2006.01)**  
[25] EN  
[54] **DEVICE AND SYSTEM FOR SELECTIVE IONIZATION AND ANALYTE DETECTION AND METHOD OF USING THE SAME**  
[54] **DISPOSITIF ET SYSTEME D'IONISATION SELECTIVE ET DE DETECTION D'ANALYTE ET PROCEDE CORRESPONDANT**  
[72] EWING, ROBERT, US  
[72] VALENZUELA, BLANDINA, US  
[72] FREEBURG, ERIC, US  
[71] BATTELLE MEMORIAL INSTITUTE, US  
[85] 2021-01-05  
[86] 2019-07-18 (PCT/US2019/042460)  
[87] (WO2020/018830)  
[30] US (62/701,174) 2018-07-20  
[30] US (16/258,338) 2019-01-25

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[21] **3,105,739**  
[13] A1

[51] **Int.Cl. H04L 29/08 (2006.01)**  
[25] EN  
[54] **ELASTIC CLOUD STORAGE ON MULTIPLE LOCATIONS**  
[54] **STOCKAGE ELASTIQUE EN NUAGE SUR EMPLACEMENTS MULTIPLES**  
[72] ZHANG, JUN, US  
[71] CITRIX SYSTEMS, INC., US  
[85] 2021-01-05  
[86] 2019-07-19 (PCT/US2019/042632)  
[87] (WO2020/023313)  
[30] US (16/044,942) 2018-07-25

[21] **3,105,740**  
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G16H 20/17 (2018.01)**  
[25] EN  
[54] **METHOD FOR DETECTING ISSUES IN THE BASAL RATE IN INSULIN TREATED DIABETES PATIENTS**  
[54] **PROCEDE DE DETECTION DE PROBLEMES DANS LE TAUX BASAL CHEZ DES PATIENTS DIABETIQUES TRAITES A L'INSULINE**  
[72] DEBONG, FREDRIK, AT  
[72] SCHUSTER, LUKAS, AT  
[72] WREDE, JAN, AT  
[72] BANKOSEGGER, RAFAEL, AT  
[71] MYSUGR GMBH, AT  
[85] 2021-01-06  
[86] 2019-07-15 (PCT/EP2019/069018)  
[87] (WO2020/016181)  
[30] EP (18183576.0) 2018-07-15

[21] **3,105,741**  
[13] A1

[51] **Int.Cl. G06F 21/10 (2013.01) G06F 21/60 (2013.01) G06F 21/64 (2013.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **A METHOD AND SYSTEM FOR MANAGING DIGITAL EVIDENCE USING A BLOCKCHAIN**  
[54] **PROCEDE ET SYSTEME DE GESTION DE PREUVE NUMERIQUE A L'AIDE D'UNE CHAINE DE BLOCS**  
[72] SACHS, PAUL, GB  
[71] NETMASTER SOLUTIONS LTD, GB  
[85] 2021-01-05  
[86] 2019-06-28 (PCT/GB2019/051851)  
[87] (WO2020/012156)  
[30] GB (1811263.1) 2018-07-10

[21] **3,105,742**  
[13] A1

[51] **Int.Cl. B29C 48/23 (2019.01) B29C 48/11 (2019.01) B29C 48/21 (2019.01) A61M 25/00 (2006.01) A61M 25/06 (2006.01)**  
[25] EN  
[54] **METHODS OF MAKING AN EXPANDABLE SHEATH**  
[54] **METHODES DE FABRICATION D'UNE GAINE EXPANSIBLE**  
[72] BULMAN, ERIK, US  
[72] NGUYEN, DUY, US  
[72] NGUYEN, KIM D., US  
[71] EDWARDS LIFESCIENCES CORPORATION, US  
[85] 2021-01-05  
[86] 2019-07-19 (PCT/US2019/042531)  
[87] (WO2020/023294)  
[30] US (62/702,993) 2018-07-25  
[30] US (16/514,021) 2019-07-17

[21] **3,105,743**  
[13] A1

[51] **Int.Cl. A61K 31/573 (2006.01) A61K 9/00 (2006.01) A61K 9/127 (2006.01) A61K 31/58 (2006.01) A61K 31/661 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **METHODS TO REDUCE COMPLICATIONS OF INTRA-ARTICULAR STEROID**  
[54] **METHODES POUR REDUIRE LES COMPLICATIONS D'UN STEROIDE INTRA-ARTICULAIRE**  
[72] SHIH, SHEUE-FANG, TW  
[72] CHANG, PO-CHUN, TW  
[72] WU, MING-JU, TW  
[71] TAIWAN LIPOSOME CO., LTD., TW  
[71] TLC BIOPHARMACEUTICALS, INC., US  
[85] 2021-01-05  
[86] 2019-07-08 (PCT/US2019/040794)  
[87] (WO2020/014118)  
[30] US (62/695,763) 2018-07-09  
[30] US (62/839,231) 2019-04-26

[21] **3,105,744**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/0215 (2006.01) A61B 5/026 (2006.01) A61B 8/06 (2006.01) A61M 25/00 (2006.01)**  
[25] EN  
[54] **SENSOR HEAD DEVICE FOR A MINIMALLY INVASIVE HEART SUPPORT SYSTEM AND METHOD FOR PRODUCING SUCH A SENSOR HEAD DEVICE**  
[54] **DISPOSITIF DE TETE DE CAPTEURS POUR UN SYSTEME D'ASSISTANCE CARDIAQUE PEU INVASIF ET PROCEDE DESTINE A FABRIQUER UN TEL DISPOSITIF DE TETE DE CAPTEURS**  
[72] SCHLEBUSCH, THOMAS ALEXANDER, DE  
[72] KASSEL, JULIAN, DE  
[71] KARDION GMBH, DE  
[85] 2021-01-06  
[86] 2019-06-06 (PCT/EP2019/064780)  
[87] (WO2019/234149)  
[30] DE (10 2018 208 892.6) 2018-06-06

[21] **3,105,745**  
[13] A1

[51] **Int.Cl. B32B 1/02 (2006.01) B32B 27/08 (2006.01) B32B 27/20 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01) B65D 81/00 (2006.01)**  
[25] EN  
[54] **FOOD PACKAGING PRODUCTS AND METHODS**  
[54] **PRODUITS D'EMBALLAGE ALIMENTAIRE ET PROCEDES ASSOCIES**  
[72] SCHWARZ, DICK, US  
[71] SONOCO DEVELOPMENT, INC., US  
[85] 2021-01-05  
[86] 2019-07-08 (PCT/US2019/040847)  
[87] (WO2020/010354)  
[30] US (62/694,820) 2018-07-06  
[30] US (62/846,977) 2019-05-13

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[21] **3,105,746**  
[13] A1

[51] **Int.Cl. A61M 25/10 (2013.01) A61M 25/00 (2006.01) A61M 29/02 (2006.01) A61M 31/00 (2006.01)**

[25] EN

[54] **MEDICAL BALLOON CATHETERS WITH ENHANCED PUSHABILITY**

[54] **CATHETERS A BALLONNET MEDICAUX AVEC MANIABILITE AMELIOREE**

[72] GIASOLLI, ROBERT M., US  
[72] SCHNEIDER, PETER, US  
[72] JOHANSSON, PETER, US  
[72] BURNS, CAROL, US  
[71] CAGENT VASCULAR, LLC, US  
[85] 2021-01-05  
[86] 2019-07-25 (PCT/US2019/043443)  
[87] (WO2020/023749)  
[30] US (62/703,419) 2018-07-25  
[30] US (62/827,124) 2019-03-31

[21] **3,105,747**  
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 9/16 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **GENETICALLY ENCODED SYSTEM FOR CONSTRUCTING AND DETECTING BIOLOGICALLY ACTIVE AGENTS**

[54] **SYSTEME GENETIQUEMENT CODE POUR LA CONSTRUCTION ET LA DETECTION D'AGENTS BIOLOGIQUEMENT ACTIFS**

[72] FOX, JEROME, US  
[72] SARKAR, ANKUR, US  
[72] HONGDUSIT, AKARAWIN, US  
[72] KIM, EDWARD, US  
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US  
[85] 2021-01-05  
[86] 2019-07-08 (PCT/US2019/040896)  
[87] (WO2020/010364)  
[30] US (62/694,838) 2018-07-06

[21] **3,105,748**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61P 29/00 (2006.01) C07D 237/24 (2006.01) C07D 413/14 (2006.01) C07D 491/06 (2006.01)**

[25] EN

[54] **PYRIDAZINE COMPOUNDS FOR INHIBITING NAV1.8**

[54] **COMPOSES PYRIDAZINEG POUR INHIBER NAV1.8**

[72] POSLUSNEY, MICHAEL, US  
[72] ERNST, GLEN, US  
[72] BARROW, JAMES, US  
[71] LIEBER INSTITUTE, INC., US  
[85] 2021-01-05  
[86] 2019-07-09 (PCT/US2019/041026)  
[87] (WO2020/014243)  
[30] US (62/695,510) 2018-07-09

[21] **3,105,749**  
[13] A1

[51] **Int.Cl. A45F 5/10 (2006.01) B65D 5/46 (2006.01) B65D 33/06 (2006.01)**

[25] EN

[54] **MODULAR HANDLE FOR SECONDARY PACKAGING**

[54] **POIGNEE MODULAIRE POUR SUREMBALLAGE**

[72] DEKOCKER, WIM, BE  
[72] THOMPSON, KEENAN, BE  
[71] ANHEUSER-BUSCH INBEV S.A., BE  
[85] 2021-01-06  
[86] 2019-07-05 (PCT/EP2019/068162)  
[87] (WO2020/008060)  
[30] BE (BE2018/5475) 2018-07-06  
[30] US (62/694,552) 2018-07-06

[21] **3,105,750**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **FUSION CONSTRUCTS AND METHODS OF USING THEREOF**

[54] **CONSTRUCTIONS DE FUSION ET LEURS METHODES D'UTILISATION**

[72] SABZEVARI, HELEN, US  
[72] METENOU, SIMON, US  
[72] CHEN, CHANGHUNG, US  
[72] SHAH, RUTUL R., US  
[71] PRECIGEN, INC., US  
[85] 2021-01-05  
[86] 2019-07-09 (PCT/US2019/041085)  
[87] (WO2020/014285)  
[30] US (62/695,623) 2018-07-09  
[30] US (62/695,627) 2018-07-09  
[30] US (62/863,710) 2019-06-19  
[30] US (62/864,367) 2019-06-20  
[30] US (62/866,420) 2019-06-25

[21] **3,105,751**  
[13] A1

[51] **Int.Cl. A61K 47/26 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL FORMULATIONS OF MASKED ANTIBODIES**

[54] **FORMULATIONS PHARMACEUTIQUES D'ANTICORPS MASQUES**

[72] TREUHEIT, MICHAEL JOHN, US  
[72] GHATTYVENKATAKRISHNA, PAVAN, US  
[72] JAGANNATHAN, BHARADWAJ, US  
[71] AMGEN INC., US  
[85] 2021-01-05  
[86] 2019-07-30 (PCT/US2019/044197)  
[87] (WO2020/028401)  
[30] US (62/712,906) 2018-07-31

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[21] **3,105,752**  
[13] A1

[51] **Int.Cl. G01N 21/3563 (2014.01) G01N 21/64 (2006.01) G01N 21/3554 (2014.01) G01N 21/359 (2014.01) G01N 21/17 (2006.01) G01N 21/85 (2006.01) G01N 33/10 (2006.01)**

[25] FR

[54] **DEVICE FOR ANALYSING GRAINS BY MEANS OF INFRARED AND FLUORESCENCE SPECTROSCOPY**

[54] **DISPOSITIF D'ANALYSE DE GRAINS PAR SPECTROSCOPIE DE FLUORESCENCE ET INFRAROUGE**

[72] VOISIN, CLEMENT, FR  
[72] CHARLES-FRANCOIS, OLIVIER, FR  
[72] BOUTAOUAKOU, PAPUS, FR  
[72] MESSAOUDI, MONJI, FR  
[72] ODDOS, STEPHANE, FR  
[71] SPECTRALYS INNOVATION, FR  
[85] 2021-01-06  
[86] 2019-07-12 (PCT/EP2019/068916)  
[87] (WO2020/012029)  
[30] FR (1856531) 2018-07-13

[21] **3,105,753**  
[13] A1

[51] **Int.Cl. A61K 8/68 (2006.01) A23L 33/105 (2016.01) A61K 31/00 (2006.01) A61P 29/00 (2006.01) A61P 37/08 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **ANTI-ALLERGENIC OCULAR COMPOSITIONS AND EYELID CLEANSING WIPES**

[54] **COMPOSITIONS OCULAIRES ANTI-ALLERGENES ET LINGETTES NETTOYANTES POUR PAUPIERES**

[72] ADKINS, JR., NAT, US  
[72] SMITH, TROY, US  
[72] SARKAR, PARAMITA, US  
[71] OCUSOFT, INC., US  
[85] 2021-01-05  
[86] 2019-07-11 (PCT/US2019/041320)  
[87] (WO2020/014427)  
[30] US (62/697,213) 2018-07-12

[21] **3,105,755**  
[13] A1

[51] **Int.Cl. C08J 7/04 (2020.01) B32B 7/14 (2006.01) B32B 27/12 (2006.01) B32B 27/32 (2006.01)**

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[54] **POLYETHYLENE FILM**

[54] **FILM DE POLYETHYLENE**

[72] BELL, BRENT, US  
[72] LEONE, SHAUN, US  
[72] SBRIGLIA, GUY, US  
[71] W.L. GORE & ASSOCIATES, INC., US  
[85] 2021-01-05  
[86] 2019-07-30 (PCT/US2019/044082)  
[87] (WO2020/028328)  
[30] US (62/712,249) 2018-07-31

[21] **3,105,757**  
[13] A1

[51] **Int.Cl. C07D 233/28 (2006.01) A61K 31/4164 (2006.01) A61K 31/4178 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) C07D 401/12 (2006.01) C07D 403/06 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 409/12 (2006.01)**

[25] EN

[54] **HETEROCYCLIC SULFONAMIDE DERIVATIVES AND PHARMACEUTICAL USES THEREOF**

[54] **DERIVES DE SULFONAMIDE HETEROCYCLIQUES ET LEURS UTILISATIONS PHARMACEUTIQUES**

[72] ROGERS, MARC, GB  
[72] KIRBY, ROBERT, GB  
[72] SHOMI, GAKUJUN, GB  
[72] MATSUO, TAKUYA, GB  
[72] KOBAYASHI, SATORU, GB  
[72] KANAZAWA, JUNICHIRO, GB  
[72] YAMAOKA, NOBUTAKA, GB  
[72] TORIZUKA, MAKOTO, GB  
[72] SUZAWA, KOICHI, GB  
[71] METRION BIOSCIENCES LIMITED, GB  
[85] 2021-01-05  
[86] 2019-07-05 (PCT/GB2019/051903)  
[87] (WO2020/008206)  
[30] GB (1811165.8) 2018-07-06

[21] **3,105,759**  
[13] A1

[51] **Int.Cl. A61J 1/20 (2006.01)**

[25] EN

[54] **FEMALE-FEMALE ADAPTER**

[54] **ADAPTATEUR FEMELLE-FEMELLE**

[72] ARIAGNO, SCOTT RICHARD, US  
[72] SCHILLING, MARK, US  
[72] MATHAKARI, AMEY, US  
[72] SANCHEZ, DAN, US  
[72] BLACKLEDGE, CHRIS, US  
[71] BAXALTA INCORPORATED, US  
[71] BAXALTA GMBH, CH  
[85] 2021-01-05  
[86] 2019-07-11 (PCT/US2019/041354)  
[87] (WO2020/014447)  
[30] US (62/697,677) 2018-07-13

[21] **3,105,760**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR ENDOSCOPIC PATCH DELIVERY**

[54] **DISPOSITIFS ET PROCEDES D'ADMINISTRATION DE PATCH ENDOSCOPIQUE**

[72] SMITH, AMANDA, US  
[72] PIC, ANDREW, US  
[72] REBAR, HANNAH, US  
[71] BOSTON SCIENTIFIC SCIMED, INC., US  
[85] 2021-01-05  
[86] 2019-07-30 (PCT/US2019/044035)  
[87] (WO2020/028297)  
[30] US (62/712,361) 2018-07-31

[21] **3,105,761**  
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A01N 25/08 (2006.01) A01N 25/10 (2006.01) A01N 25/12 (2006.01) A01N 43/16 (2006.01) A01N 59/00 (2006.01) A61K 8/25 (2006.01) A61K 8/73 (2006.01) A61Q 5/02 (2006.01) A61Q 17/02 (2006.01)**

[25] EN

[54] **DRY SHAMPOO HEAD LICE TREATMENT**

[54] **TRAITEMENT DE POUX DE TETE AVEC UN SHAMPOOING SEC**

[72] KELLY, JOANNA, GB  
[72] KELLY, RACHEL, GB  
[71] KELLY GREEN LIVING LTD, GB  
[85] 2021-01-05  
[86] 2019-07-09 (PCT/GB2019/051927)  
[87] (WO2020/012171)  
[30] GB (1811233.4) 2018-07-09

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[13] A1

[51] **Int.Cl. A61K 39/04 (2006.01) C07K 14/35 (2006.01)**  
[25] EN  
[54] **IMMUNOGENIC COMPOSITION FOR PARATUBERCULOSIS**  
[54] **COMPOSITION IMMUNOGENE POUR LA PARATUBERCULOSE**  
[72] HERMON-TAYLOR, JOHN, GB  
[71] HAV VACCINES LIMITED, GB  
[85] 2021-01-06  
[86] 2019-07-10 (PCT/GB2019/051933)  
[87] (WO2020/012177)  
[30] GB (1811382.9) 2018-07-11

[21] **3,105,770**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01)**  
[25] EN  
[54] **AN AQUEOUS-BASED COMPOSITION CONTAINING XANTAN GUM AS INHIBITOR OF MICROBIAL GROWTH**  
[54] **COMPOSITION A BASE AQUEUSE CONTENANT DE LA GOMME DE XANTHANE EN TANT QU'INHIBITEUR DE LA CROISSANCE MICROBIENNE**  
[72] BADEJO, OLUFOYEKEMI, US  
[72] BRADLEY, REGINALD, US  
[71] BAYER HEALTHCARE LLC, US  
[71] BADEJO, OLUFOYEKEMI, US  
[71] BRADLEY, REGINALD, US  
[85] 2021-01-06  
[86] 2019-06-21 (PCT/US2019/038384)  
[87] (WO2020/013973)  
[30] US (62/695,589) 2018-07-09

[21] **3,105,773**  
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/25 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **TAGGING OF FRACKING SAND**  
[54] **MARQUAGE DE SABLE DE FRACTURATION**  
[72] COLLINS, JOSHUA E., US  
[72] BELL, HOWARD Y., US  
[71] INTELLIGENT MATERIAL SOLUTIONS, INC., US  
[85] 2021-01-06  
[86] 2019-07-10 (PCT/US2019/041115)  
[87] (WO2020/014300)  
[30] US (62/697,003) 2018-07-12

[21] **3,105,774**  
[13] A1

[51] **Int.Cl. B23P 15/00 (2006.01) B29C 70/00 (2006.01) B65H 49/00 (2006.01) B65H 54/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MANUFACTURING REINFORCING ELEMENTS FOR REINFORCED CONCRETE**  
[54] **SYSTEME ET PROCEDE DE FABRICATION D'ELEMENTS DE RENFORCEMENT POUR BETON ARME**  
[72] BALCONI, GABRIELE, IT  
[72] BRUSCHI, FLAVIO, IT  
[71] SIREG GEOTECH S.R.L., IT  
[85] 2021-01-05  
[86] 2019-05-24 (PCT/IB2019/054336)  
[87] (WO2020/016668)  
[30] IT (102018000007220) 2018-07-16

[21] **3,105,775**  
[13] A1

[51] **Int.Cl. E05F 3/10 (2006.01) E05F 3/12 (2006.01) E05F 3/22 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND DEVICES FOR ADJUSTABLE DOOR CLOSURE CONTROL**  
[54] **SYSTEMES ET DISPOSITIFS DE COMMANDE DE FERMETURE DE PORTE REGLABLE**  
[72] BOUNDY, TIM J., US  
[71] BOUNDY, TIM J., US  
[85] 2021-01-06  
[86] 2019-07-03 (PCT/US2019/040533)  
[87] (WO2020/010220)  
[30] US (62/694,762) 2018-07-06  
[30] US (16/502,470) 2019-07-03

[21] **3,105,777**  
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**  
[25] EN  
[54] **ENHANCED CUSTOMER INTERACTION PLATFORM FOR ENTERPRISES**  
[54] **PLATE-FORME D'INTERACTION CLIENT AMELIOREE POUR LES ENTREPRISES**  
[72] SIDI, DENNIS, US  
[72] KOZAK, KEVIN, US  
[72] GRAYLIN, WILLIAM, US  
[72] YEAGER, DOUGLAS, US  
[71] OV LOOP, INC., US  
[85] 2021-01-06  
[86] 2019-07-08 (PCT/US2019/040765)  
[87] (WO2020/014100)  
[30] US (62/695,726) 2018-07-09  
[30] US (62/748,086) 2018-10-19  
[30] US (16/502,158) 2019-07-03

[21] **3,105,778**  
[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61K 39/395 (2006.01) A61P 25/06 (2006.01)**  
[25] EN  
[54] **COMBINATION THERAPY WITH CGRP ANTAGONISTS AND CLOSTRIDIAL DERIVATIVES**  
[54] **POLYTHERAPIE AVEC DES ANTAGONISTES DU CGRP ET DES DERIVES DE CLOSTRIDIUM**  
[72] BLUMENFELD, ANDREW M., US  
[72] BRIN, MITCHELL F., US  
[71] ALLERGAN PHARMACEUTICALS INTERNATIONAL LIMITED, IE  
[85] 2021-01-05  
[86] 2019-07-04 (PCT/IB2019/055704)  
[87] (WO2020/008402)  
[30] US (62/694,358) 2018-07-05

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[21] **3,105,779**  
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/80 (2006.01)**  
[25] EN  
[54] **IMPLANTS, ALIGNMENT GUIDES, SYSTEMS AND METHODS OF USE**  
[54] **IMPLANTS, GUIDES D'ALIGNEMENT, SYSTEMES ET PROCEDES D'UTILISATION**  
[72] DACOSTA, ALBERT, US  
[72] BONO, FRANK S., US  
[72] ALLARD, RANDY, US  
[72] HUNT, RICHARD DAVID, US  
[72] RAYMOND, SPANKY, US  
[72] BRINKER, LAURA ZAGROCKI, US  
[71] PARAGON 28, INC., US  
[85] 2021-01-06  
[86] 2019-07-11 (PCT/US2019/041305)  
[87] (WO2020/014418)  
[30] US (62/696,788) 2018-07-11  
[30] US (62/811,980) 2019-02-28

[21] **3,105,780**  
[13] A1

[51] **Int.Cl. B65G 21/20 (2006.01) B03C 1/23 (2006.01) B03C 1/247 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR IMPROVING THE STABILITY OF NON-FERROUS METALS ON A CONVEYOR**  
[54] **SYSTEMES ET PROCEDES D'AMELIORATION DE LA STABILITE DE METAUX NON FERREUX SUR UN TRANSPORTEUR**  
[72] KOSMICKI, MICHAEL R., US  
[72] THAKUR, ADWAIT A., US  
[71] NOVELIS INC., US  
[85] 2021-01-06  
[86] 2019-07-08 (PCT/US2019/040774)  
[87] (WO2020/014105)  
[30] US (62/695,254) 2018-07-09

[21] **3,105,782**  
[13] A1

[51] **Int.Cl. B65D 33/00 (2006.01) B65D 33/25 (2006.01) B65D 75/58 (2006.01) B65D 81/32 (2006.01)**  
[25] EN  
[54] **SELF-SEALING TISSUE STORAGE CONTAINER**  
[54] **RECIPIENT DE STOCKAGE DE TISSU AUTO-OBTURANT**  
[72] RAMSEY, TARA C., US  
[72] BURLEY, KIMBER L., US  
[71] INSTANT SYSTEMS, INC., US  
[85] 2021-01-06  
[86] 2019-07-08 (PCT/US2019/040892)  
[87] (WO2020/014162)  
[30] US (62/695,669) 2018-07-09

[21] **3,105,783**  
[13] A1

[51] **Int.Cl. A61F 2/00 (2006.01) A61B 90/00 (2016.01) A61F 2/12 (2006.01)**  
[25] EN  
[54] **IMPLANT DELIVERY SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE POSE D'IMPLANT**  
[72] GEIGER, STEVEN CHARLES, US  
[72] KRIEGER-CARLISLE, DAN ALAN, US  
[72] GOODNER, DOUGLAS M., US  
[72] BENNETT, OLIVER CHRISTIAN, US  
[72] WERNER, NANCY, US  
[71] SIENRA, INC, US  
[85] 2021-01-06  
[86] 2019-07-09 (PCT/US2019/041045)  
[87] (WO2020/014255)  
[30] US (62/695,540) 2018-07-09

[21] **3,105,785**  
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR REDUCING FRICTION AT A SOLID:LIQUID INTERFACE**  
[54] **COMPOSITIONS ET PROCEDES POUR REDUIRE LE FROTTEMENT AU NIVEAU D'UNE INTERFACE SOLIDE : LIQUIDE**  
[72] DAVIES, MICHAEL C., US  
[71] GLOBAL BARRIER SERVICES, INC., US  
[85] 2021-01-06  
[86] 2018-07-17 (PCT/US2018/042536)  
[87] (WO2020/018081)

[21] **3,105,786**  
[13] A1

[51] **Int.Cl. C07D 207/16 (2006.01) A61K 31/40 (2006.01)**  
[25] EN  
[54] **(R)-4-(1-(1-(4-(TRIFLUOROMETHYL)BENZYL)P YRROLIDINE-2-CARBOXAMIDE)CYCLOPROPYL) -BENZOIC ACID AS EP4 RECEPTOR ANTAGONIST**  
[54] **ACIDE (R)-4-(1-(1-(4-(TRIFLUOROMETHYL)BENZYL)P YRROLIDINE-2-CARBOXAMIDE)CYCLOPROPYL) -BENZOIQUE EN TANT QU'ANTAGONISTE DU RECEPTEUR EP4**  
[72] PUCCI, SABRINA, IT  
[72] MAKOVEC, FRANCESCO (DECEASED), IT  
[72] ROVATI, LUCIO CLAUDIO, IT  
[71] ROTTAPHARM BIOTECH S.R.L., IT  
[85] 2021-01-05  
[86] 2019-07-04 (PCT/IB2019/055711)  
[87] (WO2020/012305)  
[30] IT (102018000007134) 2018-07-12

[21] **3,105,788**  
[13] A1

[51] **Int.Cl. A23L 21/20 (2016.01) A61K 35/644 (2015.01) A61K 35/747 (2015.01) A23K 10/18 (2016.01) A23L 33/135 (2016.01) A61K 35/00 (2006.01) A61Q 5/00 (2006.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01)**  
[25] EN  
[54] **MICROBIOLOGICAL PROCESS FOR THE PRODUCTION OF BEE BREAD**  
[54] **PROCEDE MICROBIOLOGIQUE POUR LA PRODUCTION DE PAIN D'ABEILLES**  
[72] GIULIANI, GIAMMARIA, CH  
[72] GOBBETTI, MARCO, IT  
[72] DI CAGNO, RAFFAELLA, IT  
[72] FILANNINO, PASQUALE, IT  
[72] CANTATORE, VINCENZO, IT  
[72] MASCOLO, ANTONIO, IT  
[72] MARZANI, BARBARA, IT  
[71] GIULIANI S.P.A., IT  
[85] 2021-01-05  
[86] 2019-07-16 (PCT/IB2019/056055)  
[87] (WO2020/016770)  
[30] IT (102018000007229) 2018-07-16



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[21] **3,105,790**  
[13] A1

[51] **Int.Cl. A46B 15/00 (2006.01)**  
[25] EN  
[54] **POWERED ORAL CARE IMPLEMENT INCLUDING A TRACKING MODULE AND TRACKING MODULE THEREOF**  
[54] **INSTRUMENT MOTORISE DE SOIN BUCCAL COMPRENANT UN MODULE DE SUIVI ET SON MODULE DE SUIVI**  
[72] GATZEMEYER, JOHN, US  
[72] OKAI, TAKAHIDE, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2021-01-06  
[86] 2019-08-02 (PCT/US2019/044780)  
[87] (WO2020/028742)  
[30] US (16/053,840) 2018-08-03

[21] **3,105,794**  
[13] A1

[51] **Int.Cl. A23L 7/109 (2016.01) A21D 10/02 (2006.01)**  
[25] EN  
[54] **METHOD OF MAKING A FOOD KIT FOR THE PREPARATION OF FRESH FILLED PASTA, FOOD KIT OBTAINED THEREBY AND METHOD OF USE**  
[54] **PROCEDE DE FABRICATION DE KIT ALIMENTAIRE POUR LA PREPARATION DE PATES FARCIES FRAICHES, KIT ALIMENTAIRE OBTENU PAR CELUI-CI ET PROCEDE D'UTILISATION**  
[72] BOLLA, ENRICO, IT  
[71] BERTAGNI 1882 S.P.A., IT  
[85] 2021-01-05  
[86] 2019-07-23 (PCT/IB2019/056260)  
[87] (WO2020/021438)  
[30] IT (102018000007432) 2018-07-23

[21] **3,105,795**  
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61P 29/00 (2006.01) C07D 487/04 (2006.01)**  
[25] EN  
[54] **PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES AS IRAK4 INHIBITORS**  
[54] **DERIVES DE PYRROLO [1,2-B] PYRIDAZINE EN TANT QU'INHIBITEURS D'IRAK4**  
[72] AMMANN, STEPHEN, US  
[72] BACON, ELIZABETH M., US  
[72] BRIZGYS, GEDIMINAS, US  
[72] CHIN, ELBERT, US  
[72] CHOU, CHIENHUNG, US  
[72] COTTELL, JEROMY J., US  
[72] NDUKWE, MARILYN, US  
[72] TAYLOR, JAMES G., US  
[72] WRIGHT, NATHAN E., US  
[72] YANG, ZHENG-YU, US  
[72] ZIPFEL, SHEILA M., US  
[71] GILEAD SCIENCES, INC., US  
[85] 2021-01-05  
[86] 2019-08-13 (PCT/US2019/046380)  
[87] (WO2020/036979)  
[30] US (62/718,273) 2018-08-13

[21] **3,105,798**  
[13] A1

[51] **Int.Cl. A01N 37/36 (2006.01) A01N 37/50 (2006.01) A01N 43/10 (2006.01) A01N 43/12 (2006.01) A01N 43/40 (2006.01) A01N 43/56 (2006.01) A01N 43/647 (2006.01) A01N 55/10 (2006.01) A01P 3/00 (2006.01) C07C 69/54 (2006.01) C07C 69/618 (2006.01) C07D 231/12 (2006.01)**  
[25] EN  
[54] **METHOD OF CONTROLLING SOYBEAN RUST FUNGUS THAT IS RESISTANT TO Q0 INHIBITORS**  
[54] **PROCEDE DE LUTTE CONTRE LA ROUILLE DU SOJA RESISTANT AUX INHIBITEURS DE Q0**  
[72] MATSUZAKI, YUICHI, JP  
[72] TOBITA, HIDEKATSU, JP  
[72] TAMASHIMA, HIROTO, JP  
[72] SEMBA, YUKO, JP  
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP  
[85] 2021-01-06  
[86] 2019-07-31 (PCT/JP2019/030058)  
[87] (WO2020/027214)  
[30] JP (2018-143528) 2018-07-31

[21] **3,105,801**  
[13] A1

[51] **Int.Cl. A23L 3/40 (2006.01) A23B 7/02 (2006.01)**  
[25] EN  
[54] **PRODUCTION METHOD, DRY METHOD, DRIED FOOD PLANT COMPOSITION AND FOOD AND BEVERAGE FOR DRIED FOOD PLANT COMPOSITION**  
[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION DE PLANTE COMESTIBLE SECHEE, PROCEDE DE SECHAGE, COMPOSITION DE PLANTE COMESTIBLE SECHEE ET ALIMENT ET BOISSON**  
[72] SAITO, TAKEKI, JP  
[72] KAKUDA, HIROYUKI, JP  
[72] KATSUKI, MAO, JP  
[71] MIZKAN HOLDINGS CO., LTD., JP  
[85] 2021-01-06  
[86] 2019-08-09 (PCT/JP2019/031588)  
[87] (WO2020/136981)  
[30] JP (2018-243734) 2018-12-26

[21] **3,105,811**  
[13] A1

[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/32 (2006.01) A61M 5/34 (2006.01)**  
[25] EN  
[54] **NEEDLE HUB AND SYRINGE ARRANGEMENT**  
[54] **EMBASE D'AIGUILLE ET AGENCEMENT DE SERINGUE**  
[72] SCHOOTSTRA, SANDER, NL  
[72] SCHOOTSTRA, JOOST, NL  
[72] SCHOOTSTRA, JASPER, NL  
[71] SJJ SOLUTIONS B.V., NL  
[85] 2021-01-06  
[86] 2019-07-10 (PCT/NL2019/050430)  
[87] (WO2020/013692)  
[30] NL (2021294) 2018-07-12

[21] **3,105,812**  
[13] A1

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/04 (2006.01) G01J 3/28 (2006.01)**  
[25] EN  
[54] **HYPERSPECTRAL CAMERA**  
[54] **CAMERA HYPERSPECTRALE**  
[72] FRIDMAN, ANDREI L., NO  
[71] NORSK ELEKTRO OPTIKK AS, NO  
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[86] 2019-07-09 (PCT/NO2019/050146)  
[87] (WO2020/013704)  
[30] NO (20180965) 2018-07-10

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[25] EN

[54] **USES OF ANTI-BCMA CHIMERIC ANTIGEN RECEPTORS**

[54] **UTILISATIONS DE RECEPTEURS D'ANTIGENES CHIMERIQUES ANTI-BCMA**

[72] HEGE, KRISTEN, US

[72] PATEL, PAYAL, US

[72] NOVICK, STEVEN, US

[72] STERNAS, LARS, US

[71] CELGENE CORPORATION, US

[85] 2021-01-06

[86] 2019-07-10 (PCT/US2019/041165)

[87] (WO2020/014333)

[30] US (62/696,802) 2018-07-11

[21] **3,105,814**  
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR INTERACTING WITH AN ENTITY**

[54] **PROCEDE ET SYSTEME D'INTERACTION AVEC UNE ENTITE**

[72] BOGOSIAN, BRIAN, US

[72] HUANG, CLARK, US

[72] SHOOLERY, JUSTIN, US

[71] STICKY.IO, INC., US

[85] 2021-01-06

[86] 2018-07-06 (PCT/US2018/041089)

[87] (WO2020/009707)

[21] **3,105,815**  
[13] A1

[51] **Int.Cl. G06F 21/60 (2013.01) G06F 21/33 (2013.01) H04L 9/06 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **ELECTRONIC DOCUMENT SIGNING USING BLOCKCHAIN**

[54] **SIGNATURE DE DOCUMENTS ELECTRONIQUES A L'AIDE D'UNE CHAINE DE BLOCS**

[72] ADLURI, MAHENDER RAJU, US

[71] ADVANCED MESSAGING TECHNOLOGIES, INC., US

[85] 2021-01-06

[86] 2019-07-24 (PCT/US2019/043266)

[87] (WO2020/046498)

[30] US (16/116,723) 2018-08-29

[21] **3,105,816**  
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 35/12 (2015.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/02 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **ROR-1 SPECIFIC CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES SPECIFIQUES DE ROR-1 ET UTILISATIONS ASSOCIEES**

[72] SHAH, RUTUL R., US

[72] CHEN, CHANGHUNG, US

[72] BOLINGER, CHERYL G., US

[72] KURELLA, VINODHABABU, US

[72] WESA, AMY, US

[71] PRECIGEN, INC., US

[85] 2021-01-06

[86] 2019-07-10 (PCT/US2019/041213)

[87] (WO2020/014366)

[30] US (62/696,075) 2018-07-10

[21] **3,105,817**  
[13] A1

[51] **Int.Cl. G02B 7/08 (2021.01) G02B 7/10 (2021.01) G02B 13/00 (2006.01)**

[25] EN

[54] **FOCUS AND ZOOM OBJECTIVE AND METHOD FOR OPERATING A FOCUS AND ZOOM OBJECTIVE**

[54] **OBJECTIF DE MISE AU POINT ET A FOCAL VARIABLE ET PROCEDE DE FONCTIONNEMENT D'UN OBJECTIF DE MISE AU POINT ET A FOCAL VARIABLE**

[72] BODENDORFER, THOMAS, DE

[72] BOLLWEIN, ANDREAS, DE

[71] QIOPTIQ PHOTONICS GMBH & CO. KG, DE

[85] 2021-01-06

[86] 2018-09-27 (PCT/US2018/053054)

[87] (WO2020/013875)

[30] US (62/696,406) 2018-07-11

[21] **3,105,818**  
[13] A1

[51] **Int.Cl. G06F 16/81 (2019.01) G06F 16/835 (2019.01)**

[25] EN

[54] **STRUCTURED RECORD RETRIEVAL**

[54] **RECUPERATION D'ENREGISTREMENTS STRUCTUREE**

[72] IKAI, TARO, SG

[71] AB INITIO TECHNOLOGY LLC, US

[85] 2021-01-06

[86] 2019-07-25 (PCT/US2019/043387)

[87] (WO2020/023719)

[30] US (62/702,992) 2018-07-25

[21] **3,105,818**  
[13] A1

[51] **Int.Cl. G05D 1/03 (2006.01) E05F 15/70 (2015.01) A01D 34/00 (2006.01)**

[25] EN

[54] **GROUND WIRE GUIDANCE SYSTEM FOR ROBOTIC VEHICLE WITH DOORWAY ACCESS**

[54] **SYSTEME DE GUIDAGE PAR FIL AU SOL POUR VEHICULE ROBOTIQUE AVEC ACCES PAR UN PASSAGE**

[72] CRANDALL, JUSTIN, US

[72] LOMONT, BART M., US

[72] MELBOURNE, DAVID J., US

[71] ROBIN TECHNOLOGIES, INC., US

[85] 2021-01-06

[86] 2019-07-26 (PCT/US2019/043592)

[87] (WO2020/028160)

[30] US (16/050,256) 2018-07-31

[21] **3,105,819**  
[13] A1

[51] **Int.Cl. G05D 1/03 (2006.01) E05F 15/70 (2015.01) A01D 34/00 (2006.01)**

[25] EN

[54] **GROUND WIRE GUIDANCE SYSTEM FOR ROBOTIC VEHICLE WITH DOORWAY ACCESS**

[54] **SYSTEME DE GUIDAGE PAR FIL AU SOL POUR VEHICULE ROBOTIQUE AVEC ACCES PAR UN PASSAGE**

[72] CRANDALL, JUSTIN, US

[72] LOMONT, BART M., US

[72] MELBOURNE, DAVID J., US

[71] ROBIN TECHNOLOGIES, INC., US

[85] 2021-01-06

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[87] (WO2020/028160)

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[13] A1

[51] **Int.Cl. C08J 7/04 (2020.01) B32B 7/14 (2006.01) B32B 27/12 (2006.01) B32B 27/32 (2006.01)**

[25] EN

[54] **POLYETHYLENE FILM**

[54] **FILM DE POLYETHYLENE**

[72] BELL, BRENT, US

[72] LEONE, SHAUN, US

[72] SBRIGLIA, GUY, US

[71] W. L. GORE & ASSOCIATES, INC., US

[85] 2021-01-06

[86] 2019-07-30 (PCT/US2019/044086)

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[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
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[54] **DETECTION ET QUANTIFICATION DE PEPTIDES GLYCOSYLES**  
[72] ROSENBERG, AVRAHAM Z., US  
[72] SHEN, BIAO, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2021-01-06  
[86] 2019-07-12 (PCT/US2019/041541)  
[87] (WO2020/014572)  
[30] US (62/697,547) 2018-07-13

[21] **3,105,822**  
[13] A1

[51] **Int.Cl. C01B 21/00 (2006.01) C01B 21/06 (2006.01) C01B 21/064 (2006.01) C04B 35/583 (2006.01) H01L 21/00 (2006.01)**  
[25] EN  
[54] **BORON NITRIDE NANOTUBE SYNTHESIS VIA LASER DIODE**  
[54] **SYNTHESE DE NANOTUBES DE NITRURE DE BORE PAR DIODE LASER**  
[72] STEVENS, JONATHAN C., US  
[72] HENNEBERG, THOMAS W., US  
[72] JORDAN, KEVIN C., US  
[72] SMITH, MICHAEL W., US  
[72] WHITNEY, R. ROY, US  
[71] BNNT, LLC, US  
[85] 2020-11-18  
[86] 2019-05-29 (PCT/US2019/034372)  
[87] (WO2019/232030)  
[30] US (62/677,502) 2018-05-29

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[13] A1

[51] **Int.Cl. C07H 11/04 (2006.01) C07C 29/92 (2006.01) C07C 33/042 (2006.01) C07F 9/113 (2006.01) C07H 19/173 (2006.01) C12P 9/00 (2006.01) C12P 19/38 (2006.01) C12P 19/40 (2006.01)**  
[25] EN  
[54] **ENZYMATIC SYNTHESIS OF 4'-ETHYNYL NUCLEOSIDE ANALOGS**  
[54] **SYNTHESE ENZYMATIQUE D'ANALOGUES DE NUCLEOSIDES DE TYPE 4'-ETHYNYLE**  
[72] HUFFMAN, MARK A., US  
[72] FRYSZKOWSKA, ANNA, US  
[72] KOLEV, JOSHUA N., US  
[72] DEVINE, PAUL N., US  
[72] CAMPOS, KEVIN R., US  
[72] TRUPPO, MATTHEW, US  
[72] NAWRAT, CHRISTOPHER C., US  
[71] MERCK SHARP & DOHME CORP., US  
[85] 2021-01-06  
[86] 2019-07-02 (PCT/US2019/040316)  
[87] (WO2020/014041)  
[30] US (62/695,508) 2018-07-09  
[30] US (62/822,320) 2019-03-22

[21] **3,105,824**  
[13] A1

[51] **Int.Cl. C09D 133/10 (2006.01)**  
[25] EN  
[54] **COATING COMPOSITIONS FOR BITUMINOUS MATERIALS**  
[54] **COMPOSITIONS DE REVETEMENT POUR MATERIAUX BITUMINEUX**  
[72] CRENSHAW, BRENT, US  
[72] BULICK, ALLEN, US  
[72] FRAZEE, GLENN, US  
[72] HIBBEN, MARY JANE, US  
[72] SANDOVAL, ROBERT, US  
[71] SWIMC LLC, US  
[85] 2021-01-06  
[86] 2019-07-12 (PCT/US2019/041643)  
[87] (WO2020/014635)  
[30] US (62/697,863) 2018-07-13

[21] **3,105,825**  
[13] A1

[51] **Int.Cl. A01D 41/14 (2006.01) A01B 69/00 (2006.01) A01D 34/00 (2006.01) A01D 34/74 (2006.01) E02F 9/20 (2006.01) E02F 9/26 (2006.01)**  
[25] EN  
[54] **IMPLEMENT POSITION CONTROL SYSTEM AND METHOD FOR SAME**  
[54] **SYSTEME DE COMMANDE DE POSITION D'INSTRUMENT ET PROCEDE ASSOCIE**  
[72] WEIDENBACH, ALEX, US  
[72] PREHEIM, JOHN D., US  
[71] RAVEN INDUSTRIES, INC., US  
[85] 2021-01-06  
[86] 2019-07-12 (PCT/US2019/041729)  
[87] (WO2020/014689)  
[30] US (62/697,195) 2018-07-12

[21] **3,105,826**  
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/315 (2006.01) A61M 5/32 (2006.01)**  
[25] EN  
[54] **ACTIVATION MECHANISM FOR DRUG DELIVERY DEVICE**  
[54] **MECANISME D'ACTIVATION POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**  
[72] MELANDER, MATIAS, US  
[72] DUDMAN, JOSHUA, US  
[72] IGLESIAS, JOSEPH MICHAEL, US  
[72] LUDVIG SVENDSEN, BJARKE LYKKE, US  
[72] MCCULLOUGH, ADAM B., US  
[72] PLAMBECH, CHRISTIAN, US  
[72] SANCHEZ, STEVE, US  
[71] AMGEN INC., US  
[85] 2021-01-06  
[86] 2019-08-16 (PCT/US2019/046899)  
[87] (WO2020/037256)  
[30] US (62/719,367) 2018-08-17

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[13] A1

[51] **Int.Cl. A01L 3/00 (2006.01) A01K 13/00 (2006.01)**  
[25] EN  
[54] **STRAP FOR EQUINE HOOF BOOT AND BOOT**  
[54] **SANGLE POUR BOTTE DE SABOT EQUIN ET BOTTE**  
[72] MACDONALD, DAVID DUNCAN, AU  
[71] SCOOTBOOT PTY LTD, AU  
[85] 2021-01-06  
[86] 2019-07-22 (PCT/AU2019/050761)  
[87] (WO2020/019018)  
[30] AU (2018902662) 2018-07-23  
[30] AU (2018904555) 2018-11-29

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[21] **3,105,828**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**  
[25] EN  
[54] **REMOTE DESKTOP PROTOCOL PROXY WITH SINGLE SIGN-ON AND ENFORCEMENT SUPPORT**  
[54] **MANDATAIRE DE PROTOCOLE DE BUREAU A DISTANCE DOTE D'UN SUPPORT D'AUTHENTIFICATION UNIQUE ET DE MISE EN CONFORMITE**  
[72] SURESH, VISWANATH YARANGATTA, US  
[72] KUMAR, ARKESH, US  
[72] REDDEM, DILEEP, US  
[72] GAVINI, ANIL KUMAR, US  
[71] CITRIX SYSTEMS, INC., US  
[85] 2021-01-06  
[86] 2019-07-15 (PCT/US2019/041826)  
[87] (WO2020/023237)  
[30] US (16/047,109) 2018-07-27

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[13] A1

[51] **Int.Cl. C07F 9/6558 (2006.01) A61K 47/54 (2017.01) A61P 19/08 (2006.01) A61P 31/04 (2006.01) C07F 9/6561 (2006.01)**  
[25] EN  
[54] **BISPHOSPHONATE QUINOLONE CONJUGATES AND USES THEREOF**  
[54] **CONJUGUES BISPHOSPHONATE QUINOLONE ET UTILISATIONS ASSOCIEES**  
[72] EBETINO, FRANK H., US  
[72] SUN, SHUTING, US  
[72] CHERIAN, PHILIP T., US  
[71] BIOVINC, LLC., US  
[85] 2021-01-06  
[86] 2019-07-09 (PCT/US2019/041063)  
[87] (WO2020/014269)  
[30] US (62/695,583) 2018-07-09

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[13] A1

[51] **Int.Cl. H05B 6/46 (2006.01) E21B 43/24 (2006.01) H01B 7/17 (2006.01) H01B 9/04 (2006.01) H01Q 13/10 (2006.01) H01R 4/56 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR CONNECTING SECTIONS OF A COAXIAL LINE**  
[54] **APPAREIL ET PROCEDES DE CONNEXION DE SEGMENTS D'UNE LIGNE COAXIALE**  
[72] OKONIEWSKI, MICHAL, CA  
[72] TESSIER, LYNN P., CA  
[71] ACCELEWARE LTD., CA  
[85] 2021-01-06  
[86] 2019-06-28 (PCT/CA2019/050900)  
[87] (WO2020/010439)  
[30] US (62/695,335) 2018-07-09

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[21] **3,105,832**  
[13] A1

[51] **Int.Cl. B32B 27/12 (2006.01) B32B 27/30 (2006.01)**  
[25] EN  
[54] **MULTILAYER COMPOSITE MATERIAL HAVING LIGHT-TRANSMISSION AND TENSILE PROPERTIES**  
[54] **MATERIAU COMPOSITE MULTICOUCHE PRESENTANT DES PROPRIETES DE TRANSMISSION DE LUMIERE ET DE TRACTION**  
[72] ROE, PAUL JOSEPH, US  
[72] BRADENBURG, FRANK E., US  
[71] SEAMAN CORPORATION, US  
[85] 2021-01-06  
[86] 2019-08-23 (PCT/US2019/047853)  
[87] (WO2020/041670)  
[30] US (62/765,379) 2018-08-23  
[30] US (62/837,429) 2019-04-23

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[13] A1

[51] **Int.Cl. A61K 31/4545 (2006.01) A61K 31/44 (2006.01) A61K 31/4465 (2006.01) A61K 31/451 (2006.01) A61K 31/454 (2006.01) A61P 1/06 (2006.01)**  
[25] EN  
[54] **COMPOUNDS FOR TREATMENT OF INFLAMMATORY BOWEL DISEASE AND METHODS THEREOF**  
[54] **COMPOSES POUR LE TRAITEMENT DE LA MALADIE INTESTINALE INFLAMMATOIRE ET PROCEDES ASSOCIES**  
[72] WILLIAMS, MARK, CA  
[71] ALGERNON PHARMACEUTICALS INC., CA  
[85] 2021-01-06  
[86] 2019-07-03 (PCT/CA2019/050913)  
[87] (WO2020/006629)  
[30] US (62/694,898) 2018-07-06  
[30] US (62/778,744) 2018-12-12  
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[51] **Int.Cl. B60R 21/0132 (2006.01) G06Q 40/08 (2012.01) B60R 21/01 (2006.01) B60R 21/0136 (2006.01) G06Q 40/00 (2012.01) G07C 5/08 (2006.01)**

[25] EN

[54] **VEHICLE TELEMATICS OF VEHICLE CRASHES**

[54] **TELEMATIQUE DE VEHICULE D'ACCIDENTS DE VEHICULE**

[72] SHEA, KIMBERLY, CA

[72] MIRANO, GERONIMO, US

[72] PARK, JUN-GEUN, US

[72] BRADLEY, WILLIAM, US

[71] CAMBRIDGE MOBILE TELEMATICS INC., US

[85] 2021-01-06

[86] 2019-07-15 (PCT/US2019/041830)

[87] (WO2020/018435)

[30] US (16/035,861) 2018-07-16

[30] US (16/289,797) 2019-03-01

[21] **3,105,837**  
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/15 (2006.01) A61B 17/16 (2006.01) A61B 17/32 (2006.01)**

[25] EN

[54] **GUIDES, INSTRUMENTS, SYSTEMS AND METHODS OF USE**

[54] **GUIDES, INSTRUMENTS, SYSTEMES ET PROCEDES D'UTILISATION**

[72] HARTSON, KYLE JAMES, US

[72] ALLARD, RANDY, US

[72] DACOSTA, ALBERT, US

[71] PARAGON 28, INC., US

[85] 2021-01-06

[86] 2019-07-10 (PCT/US2019/041146)

[87] (WO2020/014320)

[30] US (62/695,838) 2018-07-10

[21] **3,105,843**  
[13] A1

[51] **Int.Cl. A61N 1/02 (2006.01) A61N 1/32 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **APPLICATION OF JERK ELECTROMAGNETIC FIELDS FOR MATERIAL AND TISSUE STIMULATION**

[54] **APPLICATION DE CHAMPS ELECTROMAGNETIQUES EN SACCADÉ POUR LA STIMULATION DE MATERIAUX ET DE TISSU**

[72] VELASCO VALCKE, FRANCISCO JAVIER, CO

[71] PANACEA QUANTUM LEAP TECHNOLOGY LLC, US

[85] 2021-01-06

[86] 2019-07-16 (PCT/US2019/042081)

[87] (WO2020/018594)

[30] CO (NC2018/0007468) 2018-07-16

[21] **3,105,844**  
[13] A1

[51] **Int.Cl. A61B 18/24 (2006.01) A61M 25/092 (2006.01)**

[25] EN

[54] **CATHETER ABLATION DEVICE WITH TEMPERATURE MONITORING**

[54] **DISPOSITIF D'ABLATION A CATHETER AVEC SURVEILLANCE DE TEMPERATURE**

[72] QIAN, PIERRE, AU

[72] BARRY, MICHAEL ANTHONY, AU

[71] WESTERN SYDNEY LOCAL HEALTH DISTRICT, AU

[71] THE UNIVERSITY OF SYDNEY, AU

[85] 2021-01-07

[86] 2019-08-13 (PCT/AU2019/050846)

[87] (WO2020/033999)

[30] AU (2018902956) 2018-08-13

[21] **3,105,847**  
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C07K 14/415 (2006.01) C12N 15/09 (2006.01) C12N 15/29 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS TO INCREASE YIELD THROUGH MODIFICATIONS OF FEA3 GENOMIC LOCUS AND ASSOCIATED LIGANDS**

[54] **PROCEDES ET COMPOSITIONS POUR AUGMENTER LE RENDEMENT AU MOYEN DE MODIFICATIONS DU LOCUS GENOMIQUE FEA3 ET LIGANDS ASSOCIES**

[72] GAO, HUIRONG, US

[72] HOU, ZHENGLIN, US

[72] MEELEY, ROBERT B., US

[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[85] 2021-01-06

[86] 2019-07-17 (PCT/US2019/042148)

[87] (WO2020/023258)

[30] US (62/702,237) 2018-07-23

[21] **3,105,850**  
[13] A1

[51] **Int.Cl. A61K 31/53 (2006.01) A61K 31/136 (2006.01) A61K 31/196 (2006.01) A61K 31/4184 (2006.01) A61K 31/4468 (2006.01) A61K 31/4741 (2006.01) A61K 31/519 (2006.01) A61K 31/522 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING NON-ALCOHOLIC STEATOHEPATITIS**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA STEATOHEPATITE NON ALCOOLIQUE**

[72] WILLIAMS, MARK, CA

[71] ALGERNON PHARMACEUTICALS INC., CA

[85] 2021-01-06

[86] 2019-07-03 (PCT/CA2019/050915)

[87] (WO2020/006631)

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[13] A1

[51] **Int.Cl. F02D 29/06 (2006.01) F02B 63/04 (2006.01) F02B 63/06 (2006.01) F02D 29/04 (2006.01) B23K 9/10 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS TO CONTROL ENGINE SPEED OF A POWER SYSTEM**

[54] **PROCEDES ET APPAREILS DE REGULATION DE VITESSE DE MOTEUR DE SYSTEME DE PUISSANCE**

[72] SMITH, ALAN F., US

[72] JOYCE, RICHARD, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2021-01-06

[86] 2019-07-17 (PCT/US2019/042153)

[87] (WO2020/018638)

[30] US (62/699,401) 2018-07-17

[30] US (16/513,122) 2019-07-16

[21] **3,105,854**  
[13] A1

[51] **Int.Cl. B60K 25/00 (2006.01) B60K 25/02 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS TO USE A SWITCHED-MODE POWER SUPPLY AS A SOURCE OF POWER IN A SERVICE PACK**

[54] **PROCEDES ET APPAREIL POUR UTILISER UNE ALIMENTATION ELECTRIQUE A DECOUPAGE EN TANT QUE SOURCE D'ENERGIE DANS UN BLOC DE SERVICES**

[72] SMITH, ALAN F., US

[72] JOCHMAN, NATHAN J., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2021-01-06

[86] 2019-07-17 (PCT/US2019/042156)

[87] (WO2020/018640)

[30] US (62/700,037) 2018-07-18

[30] US (16/513,127) 2019-07-16

[21] **3,105,858**  
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) G06F 16/90 (2019.01) G06N 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF CYBER-MONITORING WHICH UTILIZES A KNOWLEDGE DATABASE**

[54] **SYSTEMES ET PROCEDES DE CYBER-SURVEILLANCE UTILISANT UNE BASE DE DONNEES DE CONNAISSANCES**

[72] DE JESUS, TIAGO ALVES, CA

[71] CYBER DEFENCE QCD CORPORATION, CA

[85] 2021-01-07

[86] 2019-07-12 (PCT/CA2019/050958)

[87] (WO2020/010461)

[30] US (62/697,177) 2018-07-12

[30] US (62/699,868) 2018-07-18

[21] **3,105,853**  
[13] A1

[51] **Int.Cl. B60W 10/184 (2012.01) B60T 7/12 (2006.01) B60T 8/17 (2006.01) B60W 10/20 (2006.01) B60W 50/08 (2020.01) B64C 19/00 (2006.01) B64C 25/42 (2006.01) B64C 25/46 (2006.01)**

[25] EN

[54] **ADAPTIVE BRAKING AND DIRECTIONAL CONTROL SYSTEM (ABADCS)**

[54] **SYSTEME ADAPTATIF DE FREINAGE ET DE COMMANDE DIRECTIONNELLE (ABADCS)**

[72] MCKEOWN, STEPHEN LYLE, CA

[72] SHATTUCK, TY, CA

[72] CUDMORE, PAUL EDWARD, CA

[71] EAGLE AEROSPACE LTD., CA

[85] 2021-01-06

[86] 2019-07-04 (PCT/CA2019/050927)

[87] (WO2020/006641)

[30] US (62/694,719) 2018-07-06

[21] **3,105,856**  
[13] A1

[51] **Int.Cl. C25B 1/02 (2006.01) C01B 32/60 (2017.01) C01B 3/02 (2006.01) C25B 15/08 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR PRODUCING CARBON MONOXIDE AND DIHYDROGEN FROM A CO<sub>2</sub>-CONTAINING GAS**

[54] **PROCEDE ET SYSTEME DE PRODUCTION DE MONOXYDE DE CARBONE ET DE DIHYDROGENE A PARTIR D'UN GAZ CONTENANT DU CO<sub>2</sub>**

[72] FRADETTE, LOUIS, CA

[72] FRADETTE, SYLVIE, CA

[71] SAIPEM S.P.A., IT

[85] 2021-01-06

[86] 2019-07-08 (PCT/CA2019/050940)

[87] (WO2020/010447)

[30] US (62/696,002) 2018-07-10

[21] **3,105,861**  
[13] A1

[51] **Int.Cl. D21B 1/30 (2006.01) B82Y 40/00 (2011.01) C08B 15/08 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING A NANOCELLULOSIC MATERIAL COMPRISING AT LEAST TWO STAGES OF DEFIBRILLATION OF CELLULOSIC FEEDSTOCK AND AT LEAST ONE INTERMEDIATE FRACTIONING STAGE**

[54] **PROCEDE DE PRODUCTION D'UNE MATIERE NANOCELLULOSIQUE COMPRENANT AU MOINS DEUX ETAPES DE DEFIBRILLATION DE MATIERE PREMIERE CELLULOSIQUE ET AU MOINS UNE ETAPE DE FRACTIONNEMENT INTERMEDIAIRE**

[72] SILVEIRA, MARCOS HENRIQUE LUCIANO, BR

[72] SIQUEIRA, GERMANO ANDRADE, BR

[72] RUBINI, BIBIANA RIBEIRO, BR

[72] RAMIRES, HELOISA OGUSHI ROMERO, BR

[71] SUZANO S.A., BR

[85] 2021-01-07

[86] 2019-07-17 (PCT/BR2019/050281)

[87] (WO2020/014762)

[30] BR (102018014608-4) 2018-07-17

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[21] **3,105,863**  
[13] A1

[25] FR  
[54] **BATTERY SAFETY VENT ASSEMBLY**  
[54] **ENSEMBLE EVENT DE SECURITE DE BATTERIE**  
[72] EL MAZOUZI, MUSTAPHA, CA  
[72] ZAGHIB, KARIM, CA  
[72] WANG, PU, CA  
[71] HYDRO-QUEBEC, CA  
[85] 2021-01-07  
[86] 2019-07-10 (PCT/CA2019/050947)  
[87] (WO2020/010453)  
[30] US (62/697,861) 2018-07-13

[21] **3,105,864**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 47/51 (2017.01) A61K 47/64 (2017.01) A61K 47/69 (2017.01) A61K 31/7088 (2006.01) A61P 21/00 (2006.01) C07H 21/04 (2006.01)**  
[25] EN  
[54] **ANTISENSE OLIGONUCLEOTIDES THAT BIND TO EXON 51 OF HUMAN DYSTROPHIN PRE-MRNA**  
[54] **OLIGONUCLEOTIDES ANTISENS QUI SE LIENT A L'EXON 51 DU PRE-ARNM DE LA DYSTROPHINE HUMAINE**  
[72] YOKOTA, TOSHIFUMI, CA  
[72] ECHIGOYA, YUSUKE, JP  
[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA  
[85] 2021-01-07  
[86] 2018-07-20 (PCT/CA2018/050881)  
[87] (WO2019/014772)  
[30] GB (1711809.2) 2017-07-21

[21] **3,105,866**  
[13] A1

[51] **Int.Cl. A61M 21/00 (2006.01) B60R 21/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR STIMULATING ALERTNESS IN A SUBJECT**  
[54] **SYSTEME ET PROCEDE POUR STIMULER LA VIGILANCE CHEZ UN SUJET**  
[72] HEBERT, MARC, CA  
[72] DENOMMEE, JACQUES, CA  
[72] MANDJEE, ERIC, CA  
[72] DROUIN, MARC, CA  
[71] UNIVERSITE LAVAL, CA  
[85] 2021-01-07  
[86] 2019-07-19 (PCT/CA2019/050993)  
[87] (WO2020/019062)  
[30] US (62/703,982) 2018-07-27

[21] **3,105,867**  
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) A61K 35/741 (2015.01) A61K 35/74 (2015.01) A61K 38/46 (2006.01) C12N 1/21 (2006.01) C12N 15/00 (2006.01) C12N 15/03 (2006.01) C12N 15/09 (2006.01) C12N 15/63 (2006.01) C12N 15/64 (2006.01)**  
[25] EN  
[54] **BACTERIAL CONJUGATIVE SYSTEM AND THERAPEUTIC USES THEREOF**  
[54] **SYSTEME DE CONJUGAISON BACTERIEN ET SES UTILISATIONS THERAPEUTIQUES**  
[72] RODRIGUE, SEBASTIEN, CA  
[72] NEIL, KEVIN, CA  
[72] ALLARD, NANCY, CA  
[72] BURRUS, VINCENT, CA  
[71] SOCIETE DE COMMERCIALISATION DES PRODUITS DE LA RECHERCHE APPLIQUEE SOCPRA SCIENCES SANTE ET HUMAINES S.E.C., CA  
[85] 2021-01-06  
[86] 2019-07-09 (PCT/CA2019/050945)  
[87] (WO2020/010452)  
[30] US (62/696,367) 2018-07-11

[21] **3,105,868**  
[13] A1

[51] **Int.Cl. H02J 7/14 (2006.01) B23K 9/10 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS TO CONTROL AN OUTPUT OF A SWITCHED MODE POWER SUPPLY IN A SERVICE PACK**  
[54] **PROCEDES ET APPAREIL POUR COMMANDER UNE SORTIE D'UNE ALIMENTATION A DECOUPAGE DANS UN BLOC DE SERVICE**  
[72] SMITH, ALAN F., US  
[72] JOYCE, RICHARD, US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2021-01-06  
[86] 2019-07-17 (PCT/US2019/042157)  
[87] (WO2020/018641)  
[30] US (62/700,030) 2018-07-18  
[30] US (16/513,133) 2019-07-16

[21] **3,105,871**  
[13] A1

[51] **Int.Cl. G06T 19/20 (2011.01) A61B 34/10 (2016.01) G16H 30/40 (2018.01)**  
[25] EN  
[54] **VIRTUAL OR AUGMENTED REALITY AIDED 3D VISUALIZATION AND MARKING SYSTEM**  
[54] **SYSTEME DE VISUALISATION ET DE MARQUAGE 3D ASSISTE PAR REALITE VIRTUELLE OU AUGMENTEE**  
[72] SUTHERLAND, JUSTIN, CA  
[72] LA RUSSA, DANIEL, CA  
[71] OTTAWA HOSPITAL RESEARCH INSTITUTE, CA  
[85] 2021-01-07  
[86] 2019-07-08 (PCT/CA2019/050941)  
[87] (WO2020/010448)  
[30] US (62/695,580) 2018-07-09

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[21] **3,105,874**  
[13] A1

[51] **Int.Cl. E04G 21/00 (2006.01) E04F 11/02 (2006.01) E04G 21/14 (2006.01) F16S 1/14 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATING CONSTRUCTION AND INSTALLATION OF SURFACES IN CONSTRUCTION**

[54] **SYSTEME ET PROCEDE POUR AUTOMATISER LA CONSTRUCTION ET L'INSTALLATION DE SURFACES EN CONSTRUCTION**

[72] BLUMER, BENJAMIN AARON, CA

[72] GALTS, DAIN JAMESON DYPVIK, CA

[71] FORM ROBOTICS INC., CA

[85] 2021-01-06

[86] 2019-07-19 (PCT/CA2019/051004)

[87] (WO2020/014793)

[30] US (62/700,340) 2018-07-19

[21] **3,105,875**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/12 (2006.01)**

[25] EN

[54] **ANTI-CD40 ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-CD40 ET LEURS UTILISATIONS**

[72] YANG, YI, CN

[72] DONG, CHUNYAN, CN

[72] YANG, FANG, CN

[72] LU, CHENGYUAN, CN

[72] SHEN, YUELEI, CN

[72] NI, JIAN, CN

[72] GUO, YANAN, CN

[72] CHEN, YUNYUN, CN

[72] XIE, JINGSHU, CN

[71] EUCURE (BEIJING) BIOPHARMA CO., LTD, CN

[85] 2021-01-07

[86] 2018-07-20 (PCT/CN2018/096494)

[87] (WO2020/014974)

[21] **3,105,876**  
[13] A1

[51] **Int.Cl. F01P 3/18 (2006.01) B23K 9/10 (2006.01) B23K 37/00 (2006.01) F01P 5/06 (2006.01) F01P 11/02 (2006.01) F01P 11/10 (2006.01) F02B 63/04 (2006.01)**

[25] EN

[54] **POWER SYSTEM RADIATORS AND POWER SYSTEMS HAVING RADIATORS**

[54] **RADIATEURS DE SYSTEME D'ALIMENTATION ET SYSTEMES D'ALIMENTATION AYANT DES RADIATEURS**

[72] JOCHMAN, NATHAN J., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2021-01-06

[86] 2019-07-17 (PCT/US2019/042162)

[87] (WO2020/018643)

[30] US (62/700,034) 2018-07-18

[30] US (16/513,139) 2019-07-16

[21] **3,105,877**  
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN BEDDING INCLUDING PUSH-PIN SECURING ASSEMBLY**

[54] **AMELIORATIONS APPORTEES A DE LA LITERIE COMPRENANT UN ENSEMBLE DE FIXATION A PUNAISE**

[72] SAVAGE, JANINE, AU

[72] SAVAGE, SHANE, AU

[71] ZAVARGE PTY LTD, AU

[85] 2021-01-07

[86] 2018-07-06 (PCT/AU2018/050703)

[87] (WO2019/006515)

[30] AU (2017902678) 2017-07-07

[21] **3,105,878**  
[13] A1

[51] **Int.Cl. A46B 15/00 (2006.01) A61C 17/00 (2006.01)**

[25] EN

[54] **ORAL CARE SYSTEM INCLUDING AN ORAL CARE IMPLEMENT AND A TRACKING ATTACHMENT, TRACKING ATTACHMENT THEREOF, AND METHOD OF ASSEMBLING THE SAME**

[54] **SYSTEME D'HYGIENE BUCCALE COMPRENANT UN INSTRUMENT D'HYGIENE BUCCALE ET UN ACCESSOIRE DE SUIVI, SON ACCESSOIRE DE SUIVI ET PROCEDE D'ASSEMBLAGE D'UN TEL SYSTEME**

[72] YANG, WU, CN

[72] OKAI, TAKAHIDE, US

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2021-01-07

[86] 2018-08-03 (PCT/CN2018/098400)

[87] (WO2020/024238)

[21] **3,105,879**  
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61K 31/136 (2006.01) A61K 31/416 (2006.01) A61K 31/4196 (2006.01) A61K 31/46 (2006.01) A61K 31/496 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **CONJUGATES FOR DELIVERING AN ANTI-CANCER AGENT TO NERVE CELLS, METHODS OF USE AND METHODS OF MAKING THEREOF**

[54] **CONJUGUES POUR ADMINISTRER UN AGENT ANTICANCEREUX A DES CELLULES NERVEUSES, METHODES D'UTILISATION ET LEURS PROCEDES DE FABRICATION**

[72] KAHL, STEPHEN B., US

[72] MCKEE, CONSTANCE, US

[71] MANZANITA PHARMACEUTICALS, INC., US

[85] 2021-01-06

[86] 2019-07-17 (PCT/US2019/042253)

[87] (WO2020/018700)

[30] US (62/700,131) 2018-07-18



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[21] **3,105,880**  
[13] A1

[51] **Int.Cl. A61K 39/145 (2006.01) C07K 14/11 (2006.01) C12N 13/00 (2006.01)**  
[25] EN  
[54] **REMOVAL OF AGGLOMERATES**  
[54] **ELIMINATION D'AGGLOMERATS**  
[72] ROCKMAN, STEVEN, AU  
[72] BODLE, JESSE, AU  
[72] GUZZO-PERNELL, NANCY, AU  
[71] SEQIRUS PTY LTD, AU  
[85] 2021-01-07  
[86] 2019-07-10 (PCT/AU2019/050721)  
[87] (WO2020/010394)  
[30] AU (2018902497) 2018-07-10

[21] **3,105,883**  
[13] A1

[51] **Int.Cl. H04L 1/16 (2006.01) H04W 72/12 (2009.01)**  
[25] EN  
[54] **UPLINK CONTROL INFORMATION DETERMINATION METHOD AND COMMUNICATION DEVICE**  
[54] **PROCEDE DE DETERMINATION D'INFORMATIONS DE COMMANDE DE LIAISON MONTANTE ET DISPOSITIF DE COMMUNICATION**  
[72] LIN, YANAN, CN  
[72] XU, JING, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2021-01-07  
[86] 2018-11-02 (PCT/CN2018/113844)  
[87] (WO2020/087545)

[21] **3,105,884**  
[13] A1

[51] **Int.Cl. A61K 31/04 (2006.01) A61K 31/06 (2006.01) A61K 31/664 (2006.01) A61P 29/00 (2006.01) C07B 55/00 (2006.01) C07C 205/38 (2006.01) C07F 9/22 (2006.01) C07F 9/564 (2006.01)**

[25] EN  
[54] **USE OF COMPOUND IN DRUG FOR PREVENTING, TREATING, OR ALLEVIATING PAIN**  
[54] **UTILISATION D'UN COMPOSE DANS UN MEDICAMENT SERVANT A PREVENIR, A TRAITER OU A SOULAGER LA DOULEUR**  
[72] DUAN, JIANXIN, CN  
[72] LI, ANRONG, US  
[72] MENG, FANYING, US  
[72] JUNG, DONALD T., US  
[71] ASCENTAWITS PHARMACEUTICAL, LTD., CN  
[85] 2021-01-06  
[86] 2019-04-26 (PCT/CN2019/084604)  
[87] (WO2020/010900)  
[30] CN (201810745871.4) 2018-07-09

[21] **3,105,885**  
[13] A1

[51] **Int.Cl. A63F 13/27 (2014.01) H04N 21/8358 (2011.01) A63F 13/50 (2014.01) A63F 13/73 (2014.01) H04N 19/467 (2014.01) A63G 31/02 (2006.01) G06T 1/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR IDENTIFYING B-ROLL CONDITIONS IN LIVE STREAMS OR LIVE RENDERED CONTENT**  
[54] **SYSTEME ET PROCEDE POUR IDENTIFIER DES CONDITIONS DE ROULEAU B DANS DES DIFFUSIONS EN CONTINU EN DIRECT OU UN CONTENU RENDU EN DIRECT**  
[72] GOERGEN, PATRICK J., US  
[72] HOLSTINE, DANIELLE MARIE, US  
[72] HERBERT, CHRISTOPHER, US  
[72] YEH, WEI CHENG, US  
[72] COSSAIRT, TRAVIS JON, US  
[71] UNIVERSAL CITY STUDIOS LLC, US  
[85] 2021-01-06  
[86] 2019-07-17 (PCT/US2019/042283)  
[87] (WO2020/018717)  
[30] US (62/699,739) 2018-07-18  
[30] US (16/513,428) 2019-07-16

[21] **3,105,886**  
[13] A1

[51] **Int.Cl. A61B 18/18 (2006.01) A61B 5/053 (2021.01) A61B 5/107 (2006.01)**  
[25] EN  
[54] **CATHETER ABLATION DEVICE WITH IMPEDANCE MONITORING**  
[54] **DISPOSITIF D'ABLATION DE CATHETER AVEC SURVEILLANCE D'IMPEDANCE**  
[72] QIAN, PIERRE, AU  
[72] BARRY, MICHAEL ANTHONY, AU  
[71] THE UNIVERSITY OF SYDNEY, AU  
[71] WESTERN SYDNEY LOCAL HEALTH DISTRICT, AU  
[85] 2021-01-07  
[86] 2019-08-13 (PCT/AU2019/050844)  
[87] (WO2020/033998)  
[30] AU (2018902954) 2018-08-13

[21] **3,105,888**  
[13] A1

[51] **Int.Cl. G06F 21/56 (2013.01) G06N 20/00 (2019.01) H04L 29/06 (2006.01)**  
[25] EN  
[54] **DIFFERENCING ENGINE FOR DIGITAL FORENSICS**  
[54] **MOTEUR DE DIFFERENCIATION DE MEDECINE LEGALE NUMERIQUE**  
[72] MONSEN, FOREST, US  
[72] GLISSON, KEVIN, US  
[71] NETFLIX, INC., US  
[85] 2021-01-06  
[86] 2019-07-17 (PCT/US2019/042285)  
[87] (WO2020/018719)  
[30] US (62/699,711) 2018-07-17

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[21] **3,105,890**  
[13] A1

[51] **Int.Cl. C12N 15/79 (2006.01) C12N 15/85 (2006.01)**  
[25] EN  
[54] **A CELL SURFACE TAG EXCHANGE (CSTE) SYSTEM FOR TRACING AND MANIPULATION OF CELLS DURING RECOMBINASE MEDIATED CASSETTE EXCHANGE INTEGRATION OF NUCLEIC ACID SEQUENCES TO ENGINEERED RECEIVER CELLS**  
[54] **SYSTEME D'ECHANGE D'ETIQUETTE DE SURFACE CELLULAIRE (CSTE) POUR LE TRACAGE ET LA MANIPULATION DE CELLULES DURANT L'INTEGRATION A ECHANGE DE CASSETTE A MEDIATION PAR RECOMBINASE DESEQUENCES D'ACIDES NUCLEIQUES EN CELLULES RECEPTRICES MODIFIEES**  
[72] JARVIS, REAGAN MICHEAL, SE  
[72] PASE, LUKE BENJAMIN, SE  
[72] HILL, RYAN EDWARD, SE  
[71] GENOVIE AB, SE  
[85] 2021-01-07  
[86] 2019-07-09 (PCT/EP2019/068343)  
[87] (WO2020/011757)  
[30] EP (18182353.5) 2018-07-09

[21] **3,105,891**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01)**  
[25] EN  
[54] **MULTISPECIFIC POLYPEPTIDE CONSTRUCTS CONTAINING A CONSTRAINED CD3 BINDING DOMAIN AND A RECEPTOR BINDING REGION AND METHODS OF USING THE SAME**  
[54] **CONSTRUCTIONS POLYPEPTIDIQUES MULTISPECIFIQUES CONTENANT UN DOMAINE DE LIAISON A CD3 CONTRAINT ET UNE REGION DE LIAISON A UN RECEPTEUR, ET LEURS PROCEDES D'UTILISATION**  
[72] ECKELMAN, BRENDAN P., US  
[72] KAPLAN, MICHAEL D., US  
[72] WILLIS, KATELYN M., US  
[72] DEVERAUX, QUINN, US  
[72] JONES, KYLE S., US  
[72] PANDIT, RAJAY A., US  
[72] TIMMER, JOHN C., US  
[71] INHIBRX, INC., US  
[85] 2021-01-06  
[86] 2019-07-23 (PCT/US2019/043115)  
[87] (WO2020/023553)  
[30] US (62/702,888) 2018-07-24  
[30] US (62/744,641) 2018-10-11  
[30] US (62/832,268) 2019-04-10

[21] **3,105,892**  
[13] A1

[51] **Int.Cl. B05B 7/24 (2006.01) B05B 1/26 (2006.01) B05B 7/00 (2006.01) B05B 14/00 (2018.01)**  
[25] EN  
[54] **NOZZLE FOR A NANO-AEROSOL**  
[54] **BUSE POUR NANO-AEROSOL**  
[72] ZARFL, HANS PETER, AT  
[71] ELYSION FAMILY OFFICE GMBH, AT  
[85] 2021-01-07  
[86] 2019-07-09 (PCT/EP2019/068447)  
[87] (WO2020/011803)  
[30] EP (18183510.9) 2018-07-13

[21] **3,105,894**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01)**  
[25] FR  
[54] **SECURITY GOVERNANCE OF THE PROCESSING OF A DIGITAL REQUEST**  
[54] **GOVERNANCE DE SECURITE DU TRAITEMENT D'UNE REQUETE NUMERIQUE**  
[72] BACCA, NICOLAS, FR  
[72] TOMAZ, OLIVIER, FR  
[71] LEDGER, SAS, FR  
[85] 2021-01-07  
[86] 2019-07-11 (PCT/FR2019/000113)  
[87] (WO2020/012079)  
[30] FR (1870826) 2018-07-11

[21] **3,105,895**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **CHANNEL DETECTION INSTRUCTION METHOD, TERMINAL, AND NETWORK DEVICE**  
[54] **PROCEDE D'INSTRUCTION DE DETECTION DE CANAL, TERMINAL ET DISPOSITIF DE RESEAU**  
[72] JIANG, DAJIE, CN  
[72] PAN, XUEMING, CN  
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN  
[85] 2021-01-07  
[86] 2019-07-19 (PCT/CN2019/096688)  
[87] (WO2020/015723)  
[30] CN (201810806639.7) 2018-07-20

[21] **3,105,896**  
[13] A1

[51] **Int.Cl. H04L 27/26 (2006.01) H04W 72/04 (2009.01)**  
[25] EN  
[54] **DATA SENDING METHOD AND APPARATUS**  
[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION DE DONNEES**  
[72] DONG, PENG PENG, CN  
[72] LI, YUANJIE, CN  
[72] DOU, SHENGYUE, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2021-01-06  
[86] 2019-06-03 (PCT/CN2019/089803)  
[87] (WO2020/019871)  
[30] CN (201810837621.3) 2018-07-26

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[21] **3,105,897**  
[13] A1

[51] **Int.Cl. C12N 5/077 (2010.01)**  
[25] EN  
[54] **NON-IMMUNOGENIC ENGINEERED TISSUE AND METHODS OF PRODUCING AND USING THE SAME**

[54] **TISSU MODIFIE NON IMMUNOGENE ET SES METHODES DE PRODUCTION ET D'UTILISATION**

[72] GERMEROOTH, LOTHAR, DE  
[71] GERMEROOTH, LOTHAR, DE  
[85] 2021-01-07  
[86] 2019-07-15 (PCT/EP2019/068944)  
[87] (WO2020/012033)

[21] **3,105,898**  
[13] A1

[51] **Int.Cl. G01Q 60/60 (2010.01) G01N 27/416 (2006.01)**  
[25] EN  
[54] **PORTABLE ELECTROCHEMICAL MICROSCOPY DEVICE, KITS COMPRISING SAME AND USES THEREOF**

[54] **DISPOSITIF PORTABLE DE MICROSCOPIE ELECTROCHIMIQUE, KITS LE COMPRENANT ET LEURS UTILISATIONS**

[72] CHARRIER, GAELLE, FR  
[72] DOUBLET, AURELIEN, FR  
[72] DENIAU, GUY, FR  
[72] CORNUT, RENAUD, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] PROTEC INDUSTRIE, FR  
[85] 2021-01-07  
[86] 2019-07-05 (PCT/FR2019/051681)  
[87] (WO2020/012097)  
[30] FR (1856295) 2018-07-09

[21] **3,105,901**  
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01)**  
[25] EN  
[54] **PROCESS AND SYSTEM TO PURIFY GAS**

[54] **PROCESSUS ET SYSTEME POUR PURIFIER LE GAZ**

[72] BERGMANN, RAYMOND PETRUS HENRICUS MARIA, NL  
[72] SPECHT, JOHN HENRY, NL  
[72] VAN DE LISDONK, CAROLUS ANTONIUS CORNELIS, NL  
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL  
[85] 2021-01-07  
[86] 2019-07-16 (PCT/EP2019/069125)  
[87] (WO2020/016229)  
[30] EP (18184106.5) 2018-07-18

[21] **3,105,902**  
[13] A1

[51] **Int.Cl. C22F 1/053 (2006.01) C22C 21/10 (2006.01)**  
[25] FR  
[54] **PROCESS FOR MANUFACTURING THIN SHEETS MADE OF 7XXX ALUMINUM ALLOY SUITABLE FOR SHAPING AND ASSEMBLY**

[54] **PROCEDE DE FABRICATION DE TOLES MINCES EN ALLIAGE D'ALUMINIUM 7XXX APRES A LA MISE EN FORME ET A L'ASSEMBLAGE**

[72] BARBIER, DAVID, FR  
[72] MASSE, JEAN-PHILIPPE, FR  
[72] REBUFFET, OLIVIER, FR  
[72] CERVI, LAURENT, FR  
[71] CONSTELLIUM NEUF-BRISACH, FR  
[85] 2021-01-07  
[86] 2019-07-11 (PCT/FR2019/051739)  
[87] (WO2020/016506)  
[30] FR (1856613) 2018-07-17

[21] **3,105,903**  
[13] A1

[51] **Int.Cl. A61K 38/18 (2006.01) A61P 21/00 (2006.01) A61P 21/06 (2006.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR THE TREATMENT OF SARCOPENIA OR DISUSE ATROPHY**

[54] **COMPOSITIONS POUR LE TRAITEMENT DE LA SARCOPENIE OU DE L'ATROPHIE PAR INACTION**

[72] PIETRI-ROUXEL, FRANCE, FR  
[72] FALCONE, SESTINA, FR  
[71] ASSOCIATION INSTITUT DE MYOLOGIE, FR  
[71] INSERM (INSTITUT DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[71] SORBONNE UNIVERSITE, FR  
[85] 2021-01-07  
[86] 2019-07-19 (PCT/EP2019/069545)  
[87] (WO2020/016425)  
[30] EP (18184861.5) 2018-07-20  
[30] EP (19152677.1) 2019-01-18

[21] **3,105,904**  
[13] A1

[51] **Int.Cl. B29C 65/20 (2006.01) B29C 65/22 (2006.01) B29C 65/32 (2006.01) B29C 65/08 (2006.01) B29C 65/10 (2006.01) B29C 65/14 (2006.01) B29C 65/72 (2006.01) B29C 70/30 (2006.01)**  
[25] FR  
[54] **METHOD FOR WELDING PARTS MADE OF THERMOPLASTIC MATERIAL**

[54] **PROCEDE DE SOUDAGE DE PIECES A BASE DE MATERIAU THERMOPLASTIQUE**

[72] GLOTIN, MICHEL, FR  
[72] CAUCHOIS, JEAN-PIERRE, FR  
[72] PHILIPPE, AURELIEN, FR  
[72] KLEIN, PHILIPPE, FR  
[71] ARKEMA FRANCE, FR  
[71] INSTITUT DE SOUDURE, FR  
[85] 2021-01-07  
[86] 2019-07-16 (PCT/FR2019/051775)  
[87] (WO2020/016514)  
[30] FR (1856537) 2018-07-16  
[30] FR (1905222) 2019-05-17  
[30] FR (1905223) 2019-05-17

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[21] **3,105,905**  
[13] A1

[51] **Int.Cl. H04N 5/272 (2006.01) H04N 21/2187 (2011.01) H04N 21/2365 (2011.01) H04N 21/414 (2011.01) G06T 7/194 (2017.01) H04N 5/275 (2006.01) H04N 9/75 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DYNAMIC IMAGE CONTENT REPLACEMENT IN A VIDEO STREAM**

[54] **PROCEDE ET SYSTEME DE REMPLACEMENT DE CONTENU D'IMAGE DYNAMIQUE DANS UN FLUX VIDEO**

[72] VON BRAUN, MAX, DE

[71] APPARIO GLOBAL SOLUTIONS (AGS) AG, CH

[85] 2021-01-07

[86] 2019-07-26 (PCT/EP2019/070185)

[87] (WO2020/021067)

[30] EP (18186201.2) 2018-07-27

[21] **3,105,907**  
[13] A1

[51] **Int.Cl. A61G 3/06 (2006.01) A61G 3/08 (2006.01)**

[25] EN

[54] **A VEHICULAR LIFT**

[54] **DISPOSITIF DE LEVAGE DE VEHICULE**

[72] MCELMEEL, MARTIN, GB

[71] MCELMEEL MOBILITY SERVICES LIMITED, GB

[85] 2021-01-07

[86] 2018-07-09 (PCT/EP2018/068583)

[87] (WO2019/008191)

[30] GB (1710998.4) 2017-07-07

[30] GB (1711009.9) 2017-07-07

[21] **3,105,908**  
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**

[25] EN

[54] **SAFE COLLABORATIVE GRIPPING DEVICE**

[54] **DISPOSITIF DE PREHENSION COLLABORATIF SUR**

[72] KIEFFER, LASSE, DK

[71] ONROBOT A/S, DK

[85] 2021-01-06

[86] 2019-07-08 (PCT/DK2019/050224)

[87] (WO2020/015802)

[30] DK (PA 2018 00394) 2018-07-16

[21] **3,105,910**  
[13] A1

[51] **Int.Cl. C07D 311/80 (2006.01) A61K 36/185 (2006.01) C07C 211/10 (2006.01) C07C 211/63 (2006.01) C07D 211/06 (2006.01) C07D 453/02 (2006.01)**

[25] EN

[54] **METHODS FOR EXTRACTION, PROCESSING, AND PURIFICATION OF A SELECTED FAMILY OF TARGET COMPOUNDS FROM CANNABIS**

[54] **PROCEDES D'EXTRACTION, DE TRAITEMENT ET DE PURIFICATION D'UNE FAMILLE SELECTIONNEE DE COMPOSES CIBLES A PARTIR DE CANNABIS**

[72] DURST, TONY, CA

[72] VAN DER VLUGT, JAY, CA

[72] SAIKALEY, AMANDA, CA

[71] NECTAR HEALTH SCIENCES INC., CA

[85] 2021-01-07

[86] 2020-06-12 (PCT/CA2020/050825)

[87] (WO2020/248077)

[30] US (62/860,382) 2019-06-12

[30] US (62/891,013) 2019-08-23

[21] **3,105,912**  
[13] A1

[51] **Int.Cl. E06B 3/26 (2006.01) E04B 2/88 (2006.01) E06B 3/663 (2006.01) E06B 3/67 (2006.01)**

[25] EN

[54] **BUILDING ENVELOPE**

[54] **COUVERTURE DE BATIMENT COMPORTANT UN ELEMENT EN VERRE MULTIFONCTIONNEL**

[72] LANGE, MICHAEL, DE

[71] PROF. MICHAEL LANGE INGENIEURGESELLSCHAFT MBH, DE

[85] 2021-01-07

[86] 2018-07-10 (PCT/EP2018/068630)

[87] (WO2020/011338)

[21] **3,105,915**  
[13] A1

[51] **Int.Cl. A61M 60/135 (2021.01) A61M 60/148 (2021.01) A61M 60/857 (2021.01)**

[25] EN

[54] **LINE DEVICE FOR A VENTRICULAR ASSIST SYSTEM AND METHOD FOR PRODUCING A LINE DEVICE**

[54] **SYSTEME DE LIGNE ELECTRIQUE POUR DISPOSITIF D'ASSISTANCE VENTRICULAIRE ET PROCEDE POUR REALISER LE SYSTEME DE LIGNE ELECTRIQUE**

[72] SCHLEBUSCH, THOMAS ALEXANDER, DE

[72] MINZENMAY, DAVID, DE

[72] KASSEL, JULIAN, DE

[72] BAECHLE, TOBIAS, DE

[71] KARDION GMBH, DE

[85] 2021-01-06

[86] 2019-06-06 (PCT/EP2019/064775)

[87] (WO2019/234146)

[30] DE (10 2018 208 911.6) 2018-06-06

[21] **3,105,918**  
[13] A1

[51] **Int.Cl. B21D 37/04 (2006.01) B21D 28/04 (2006.01) B21D 37/14 (2006.01) B23Q 41/02 (2006.01) B25J 11/00 (2006.01) B25J 13/00 (2006.01)**

[25] EN

[54] **BENT TUBE AUTOMATION TOOLING**

[54] **OUTILLAGE D'AUTOMATISATION A TUBE COUDE**

[72] CHAMBERLAIN, CORNELL C., US

[72] HANSEN, MARK, US

[72] BANNEN, JEFF, US

[71] 3-D SOLUTIONS DESIGN SERVICE, LLC, US

[85] 2021-01-07

[86] 2019-06-17 (PCT/IB2019/055051)

[87] (WO2020/012267)

[30] US (62/696,721) 2018-07-11

[30] US (62/820,528) 2019-03-19

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[21] **3,105,919**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/026 (2006.01) A61B 8/06 (2006.01) A61B 8/08 (2006.01) A61B 8/12 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING A FLOW VELOCITY OF A FLUID FLOWING THROUGH AN IMPLANTED VASCULAR SUPPORT SYSTEM AND IMPLANTABLE VASCULAR SUPPORT SYSTEM**

[54] **PROCEDE DE DETERMINATION DE LA VITESSE D'ECOULEMENT D'UN FLUIDE S'ECOULANT A TRAVERS UN SYSTEME D'ASSISTANCE VASCULAIRE IMPLANTE ET SYSTEME D'ASSISTANCE VASCULAIRE IMPLANTABLE**

[72] SCHLEBUSCH, THOMAS  
ALEXANDER, DE

[72] SCHMID, TOBIAS, DE

[71] KARDION GMBH, DE

[85] 2021-01-06

[86] 2019-06-06 (PCT/EP2019/064807)

[87] (WO2019/234166)

[30] DE (10 2018 208 933.7) 2018-06-06

[21] **3,105,920**  
[13] A1

[51] **Int.Cl. B01D 53/00 (2006.01) C01B 3/02 (2006.01) C02F 1/20 (2006.01) C10K 1/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR COOLING A SYNTHESIS GAS FLOW**

[54] **PROCEDE ET DISPOSITIF DE REFROIDISSEMENT D'UN FLUX DE GAZ DE SYNTHESE**

[72] LANG, MARTIN, DE

[72] HIRSCH, ALEXANDER, DE

[71] LINDE GMBH, DE

[85] 2021-01-07

[86] 2019-07-04 (PCT/EP2019/025211)

[87] (WO2020/015854)

[30] DE (10 2018 005 695.4) 2018-07-19

[21] **3,105,922**  
[13] A1

[51] **Int.Cl. A24B 3/04 (2006.01) A24B 3/12 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CUT STEM TOBACCO MATERIAL**

[54] **PROCEDES DE TRAITEMENT DE MATERIAU DE TABAC DE COTES HACHEES**

[72] FRANKE, DIETMAR, DE

[72] PLUECKHAHN, FRANK, DE

[72] LINK, MATTHIAS, DE

[72] GRZONKA, HORST, DE

[72] LINDNER, THOMAS, DE

[71] BRITISH-AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB

[85] 2021-01-07

[86] 2019-07-10 (PCT/GB2019/051932)

[87] (WO2020/012176)

[30] GB (1811370.4) 2018-07-11

[21] **3,105,923**  
[13] A1

[51] **Int.Cl. G07C 9/00 (2020.01)**

[25] EN

[54] **IDENTITY DOCUMENT VERIFICATION**

[54] **VERIFICATION DE DOCUMENTS D'IDENTITE**

[72] O'SULLIVAN, KEVIN, GB

[71] SITA INFORMATION NETWORKING COMPUTING UK LIMITED, GB

[85] 2021-01-07

[86] 2019-04-08 (PCT/EP2019/058840)

[87] (WO2020/015869)

[30] GB (1811642.6) 2018-07-16

[21] **3,105,925**  
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) C12N 15/113 (2010.01) C12N 15/88 (2006.01)**

[25] EN

[54] **VESICLES FOR TRACELESS DELIVERY OF GUIDE RNA MOLECULES AND/OR GUIDE RNA MOLECULE/RNA-GUIDED NUCLEASE COMPLEX(ES) AND A PRODUCTION METHOD THEREOF**

[54] **VESICULES POUR L'ADMINISTRATION SANS TRACE DE MOLECULES D'ARN DE GUIDAGE ET/OU D'UN COMPLEXE DE NUCLEASE GUIDE PAR UNE MOLECULE D'ARN GUIDE (ES) ET SON PROCEDE DE PRODUCTION**

[72] PETRIS, GIANLUCA, IT

[72] CASINI, ANTONIO, IT

[72] CERASETO, ANNA, IT

[71] ALIA THERAPEUTICS S.R.L., IT

[85] 2021-01-07

[86] 2019-07-08 (PCT/IB2019/055805)

[87] (WO2020/012335)

[30] IT (102018000007055) 2018-07-10

[21] **3,105,926**  
[13] A1

[51] **Int.Cl. B42D 25/24 (2014.01) B42D 25/21 (2014.01) B42D 25/28 (2014.01) B42D 25/305 (2014.01) B42D 25/405 (2014.01) B42D 25/48 (2014.01) B42D 13/00 (2006.01) G06K 7/00 (2006.01) G07D 7/00 (2016.01) G09F 3/00 (2006.01) H04L 9/00 (2006.01)**

[25] EN

[54] **ARTICLE ANTI-FORGERY PROTECTION**

[54] **PROTECTION ANTI-CONTREFAÇON D'ARTICLE**

[72] DECOUX, ERIC, CH

[72] GILLET, PHILIPPE, CH

[72] THEVOZ, PHILIPPE, CH

[72] WALLACE, ELISABETH, CH

[71] SICPA HOLDING SA, CH

[85] 2021-01-07

[86] 2019-06-03 (PCT/EP2019/064359)

[87] (WO2020/011447)

[30] EP (18182697.5) 2018-07-10

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[21] **3,105,928**  
[13] A1

[51] **Int.Cl. A61C 17/22 (2006.01) A46B 13/02 (2006.01) A61C 17/32 (2006.01) A61C 17/34 (2006.01)**

[25] EN

[54] **SILICONE CASING FOR A VIBRATING TOOTH CLEANING DEVICE AND METHOD FOR MANUFACTURING THE SAME**

[54] **COQUE EN SILICONE POUR UN DISPOSITIF DE NETTOYAGE DE DENTS PAR VIBRATIONS ET PROCEDE DE FABRICATION DE CELLE-CI**

[72] KEINER, MICHAEL, DE  
[71] BLBR GMBH, DE  
[85] 2021-01-06  
[86] 2019-06-28 (PCT/EP2019/067434)  
[87] (WO2020/020576)  
[30] EP (18185450.6) 2018-07-25

[21] **3,105,930**  
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01)**

[25] EN

[54] **ADJUSTABLE DRILLING DEVICE AND A METHOD FOR USE THEREOF**

[54] **DISPOSITIF DE PERCAGE REGLABLE ET SON PROCEDE D'UTILISATION**

[72] BITON, DROR, IL  
[72] WEISMAN, RAN, IL  
[72] ZILBERMAN, ROY, IL  
[72] BOTANSKY, HAGAY, IL  
[72] SITRY, HAGAY, IL  
[71] T.A.G. MEDICAL DEVICES - AGRICULTURE COOPERATIVE LTD., IL  
[85] 2021-01-07  
[86] 2019-08-01 (PCT/IL2019/050876)  
[87] (WO2020/026252)  
[30] US (62/713,014) 2018-08-01

[21] **3,105,935**  
[13] A1

[51] **Int.Cl. B65H 19/30 (2006.01)**

[25] EN

[54] **DEVICE FOR LOADING ROLLS ON A MACHINE AND A MACHINE COMPRISING SAID DEVICE**

[54] **DISPOSITIF DE CHARGEMENT DE ROULEAUX SUR UNE MACHINE ET MACHINE COMPRENANT LEDIT DISPOSITIF**

[72] DETTORI, DANIELE, IT  
[72] PARDINI, GIONATA, IT  
[71] MAXIMA S.R.L., IT  
[85] 2021-01-06  
[86] 2019-07-09 (PCT/EP2019/068423)  
[87] (WO2020/011792)  
[30] IT (102018000007089) 2018-07-10

[21] **3,105,938**  
[13] A1

[51] **Int.Cl. H04N 19/52 (2014.01)**

[25] EN

[54] **ENCODER, DECODER, ENCODING METHOD, AND DECODING METHOD**

[54] **DISPOSITIF DE CODAGE, DISPOSITIF DE DECODAGE, PROCEDE DE CODAGE, ET PROCEDE DE DECODAGE**

[72] LI, JING YA, SG  
[72] LIM, CHONG SOON, SG  
[72] SHASHIDHAR, SUGHOSH PAVAN, SG  
[72] LIAO, RU LING, SG  
[72] SUN, HAI WEI, SG  
[72] TEO, HAN BOON, SG  
[72] ABE, KIYOFUMI, JP  
[72] TOMA, TADAMASA, JP  
[72] NISHI, TAKAHIRO, JP  
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US  
[85] 2021-01-07  
[86] 2019-07-05 (PCT/JP2019/026898)  
[87] (WO2020/017367)  
[30] US (62/699,930) 2018-07-18

[21] **3,105,939**  
[13] A1

[51] **Int.Cl. A01N 37/42 (2006.01) A01N 25/02 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **PLANT GROWTH REGULATOR CONCENTRATE AND USE THEREOF**

[54] **CONCENTRE DE REGULATEUR DE CROISSANCE DE PLANTE ET SON UTILISATION**

[72] WIKELEY, PHILIP SIMON, GB  
[72] SCOTT, GRAHAM VAUGHAN, GB  
[72] SEAMAN, GRAHAM DAVID, GB  
[72] BEVILLE, MARK, GB  
[71] FINE AGROCHEMICALS LIMITED, GB  
[85] 2021-01-06  
[86] 2019-07-11 (PCT/EP2019/068754)  
[87] (WO2020/011950)  
[30] EP (18183000.1) 2018-07-11

[21] **3,105,940**  
[13] A1

[51] **Int.Cl. C07D 309/10 (2006.01) A61K 31/7034 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **C-MANNOSE COMPOUNDS USEFUL FOR THE TREATMENT OF URINARY TRACT INFECTIONS**

[54] **COMPOSES DE C-MANNOSE UTILES POUR LE TRAITEMENT D'INFECTIONS DES VOIES URINAIRES**

[72] BISHOP, MICHAEL JOSEPH, US  
[72] COLANDREA, VINCENT J., US  
[72] LI, YUEHU, US  
[72] STEWART, EUGENE L., US  
[72] STRAMBEANU, IULIA, US  
[72] WIDDOWSON, KATHERINE LOUISA, US  
[72] JANETKA, JAMES WALTER, US  
[72] MCGRANE, LAUREL KATHRYN, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB  
[71] FIMBRION THERAPEUTICS, INC., US  
[85] 2021-01-07  
[86] 2019-07-08 (PCT/IB2019/055806)  
[87] (WO2020/012336)  
[30] US (62/695,993) 2018-07-10  
[30] US (62/755,588) 2018-11-05

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[21] **3,105,942**  
[13] A1

[51] **Int.Cl. C07D 207/273 (2006.01) A61K 31/17 (2006.01) A61K 31/4015 (2006.01) A61K 31/44 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 23/00 (2006.01) A61P 25/00 (2006.01) A61P 27/00 (2006.01) A61P 29/00 (2006.01) C07C 235/20 (2006.01) C07C 271/28 (2006.01) C07C 275/30 (2006.01) C07D 213/64 (2006.01)**

[25] EN

[54] **CHEMICAL COMPOUNDS**

[54] **COMPOSES CHIMIQUES**

[72] DEMARTINO, MICHAEL P., US

[72] EVANS, KAREN ANDERSON, US

[72] PENDRAK, ISRAIL, US

[72] PERO, JOSEPH E., US

[71] GLAXOSMITHKLINE  
INTELLECTUAL PROPERTY  
DEVELOPMENT LIMITED, GB

[85] 2021-01-07

[86] 2019-07-08 (PCT/IB2019/055811)

[87] (WO2020/012339)

[30] US (62/695,384) 2018-07-09

[21] **3,105,946**  
[13] A1

[51] **Int.Cl. C25C 3/12 (2006.01) C04B 35/532 (2006.01) H05B 7/09 (2006.01)**

[25] EN

[54] **BLEND COMPOSITION**  
**COMPRISE PETROLEUM**  
**COKE AND PYROLYTIC CARBON**  
**FOR ELECTRODES**

[54] **COMPOSITION DE MELANGE**  
**COMPRENANT DU COKE DE**  
**PETROLE ET DU CARBONE**  
**PYROLYTIQUE POUR**  
**ELECTRODES**

[72] SCHEIFF, FREDERIK, DE

[72] LEDUC, MARC, DE

[72] BODE, ANDREAS, DE

[72] EICHHORN, SABINE, DE

[72] DALOZ, WILLIAM, US

[72] WYSS, JULIEN, CH

[71] BASF SE, DE

[85] 2021-01-06

[86] 2019-07-15 (PCT/EP2019/069029)

[87] (WO2020/016186)

[30] EP (18184459.8) 2018-07-19

[21] **3,105,948**  
[13] A1

[51] **Int.Cl. G06T 9/00 (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] HAN, CHUNG DEAN, SG

[72] LASANG, PONGSAK, JP

[72] WANG, CHI, SG

[72] IGUCHI, NORITAKA, JP

[72] SUGIO, TOSHIYASU, JP

[71] PANASONIC INTELLECTUAL  
PROPERTY CORPORATION OF  
AMERICA, US

[85] 2021-01-07

[86] 2019-07-10 (PCT/JP2019/027401)

[87] (WO2020/013249)

[30] US (62/697,598) 2018-07-13

[21] **3,105,949**  
[13] A1

[51] **Int.Cl. C12Q 1/6813 (2018.01) G01N 33/483 (2006.01)**

[25] EN

[54] **METHOD FOR ANALYZING CELL**  
**SAMPLE HETEROGENEITY**

[54] **METHODE D'ANALYSE DE**  
**L'HETEROGENEITE D'UN**  
**ECHANTILLON CELLULAIRE**

[72] SUNKEL, CHRISTIN, DE

[72] KARAIKOS, NIKOLAOS, DE

[72] RAJEWSKY, NIKOLAUS, DE

[71] MAX-DELBRUCK-CENTRUM FUR  
MOLEKULARE MEDIZIN IN DER  
HELMHOLTZ-GEMEINSCHAFT, DE

[85] 2021-01-06

[86] 2019-07-17 (PCT/EP2019/069295)

[87] (WO2020/016327)

[30] EP (18184151.1) 2018-07-18

[21] **3,105,951**  
[13] A1

[51] **Int.Cl. C08J 5/04 (2006.01) D04H 3/115 (2012.01) B32B 5/28 (2006.01) D03D 1/00 (2006.01) D04H 3/04 (2012.01) D06M 17/00 (2006.01) C08L 67/00 (2006.01)**

[25] EN

[54] **MULTIAXIAL TEXTILE RESIN**  
**BASE MATERIAL AND METHOD**  
**FOR PRODUCTION THEREOF**

[54] **MATERIAU DE BASE DE RESINE**  
**TEXTILE MULTIAXIAL ET**  
**PROCEDE DE PRODUCTION**  
**ASSOCIE**

[72] OUCHIYAMA, NAOYA, JP

[72] OME, HIROYUKI, JP

[72] SHIRAHASE, AKIHIKO, JP

[71] TORAY INDUSTRIES, INC., JP

[85] 2021-01-07

[86] 2019-08-01 (PCT/JP2019/030184)

[87] (WO2020/031834)

[30] JP (2018-148316) 2018-08-07

[30] JP (2018-148317) 2018-08-07

[21] **3,105,952**  
[13] A1

[51] **Int.Cl. H04W 28/02 (2009.01)**

[25] EN

[54] **METHOD FOR TRANSMITTING**  
**DATA TO TWO SEPARATE**  
**GATEWAYS, AND**  
**CORRESPONDING DEVICE**

[54] **PROCEDE DE TRANSMISSION DE**  
**DONNEES VERS DEUX**  
**PASSERELLES DISTINCTES, ET**  
**DISPOSITIF CORRESPONDANT**

[72] DE SA COSTA, SYLVAIN, FR

[72] MENARDAIS, MICHAEL, FR

[72] BOUYAUD, MICKAEL, FR

[71] BANKS AND ACQUIRERS  
INTERNATIONAL HOLDING, FR

[85] 2021-01-06

[86] 2019-07-24 (PCT/EP2019/069989)

[87] (WO2020/025430)

[30] FR (1857103) 2018-07-30

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[21] **3,105,954**  
[13] A1

[51] **Int.Cl. G16B 50/20 (2019.01)**  
[25] EN  
[54] **ACCESSING DATA STORAGE PROVIDED USING DOUBLE-STRANDED NUCLEIC ACID MOLECULES**

[54] **ACCES A UN STOCKAGE DE DONNEES FOURNI A L'AIDE DE MOLECULES D'ACIDE NUCLEIQUE DOUBLE BRIN**

[72] HAYES, MATTHEW JAMES, GB  
[72] SANCHES-KUIPER, RAQUEL MARIA, GB

[71] EVONETIX LTD, GB  
[85] 2021-01-06  
[86] 2019-05-29 (PCT/GB2019/051462)  
[87] (WO2020/021221)  
[30] GB (1812169.9) 2018-07-26

[21] **3,105,955**  
[13] A1

[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/052 (2010.01) H01B 1/06 (2006.01) H01B 13/00 (2006.01) H01M 4/36 (2006.01)**

[25] EN  
[54] **ION CONDUCTOR CONTAINING HIGH-TEMPERATURE PHASE OF LICB9H10, METHOD FOR MANUFACTURING SAME, AND SOLID ELECTROLYTE FOR ALL-SOLID-STATE BATTERY CONTAINING SAID ION CONDUCTOR**

[54] **CONDUCTEUR IONIQUE CONTENANT UNE PHASE HAUTE TEMPERATURE DE LICB9H10, SON PROCEDE DE FABRICATION, ET ELECTROLYTE SOLIDE POUR BATTERIE ENTIEREMENT SOLIDE CONTENANT LEDIT CONDUCTEURIONIQUE**

[72] NOGAMI, GENKI, JP  
[72] NOGUCHI, KEITA, JP  
[72] KIM, SANGRYUN, JP  
[72] ORIMO, SHIN-ICHI, JP  
[71] MITSUBISHI GAS CHEMICAL COMPANY, INC., JP  
[71] TOHOKU TECO ARCH CO., LTD., JP  
[85] 2021-01-07  
[86] 2019-08-16 (PCT/JP2019/032094)  
[87] (WO2020/040044)  
[30] JP (2018-156211) 2018-08-23

[21] **3,105,957**  
[13] A1

[51] **Int.Cl. A01G 22/30 (2018.01) A01G 24/44 (2018.01)**

[25] EN  
[54] **VEGETATION SHEET**  
[54] **FEUILLE DE VEGETATION**

[72] SATO, SEIYA, JP  
[71] GREEN'S GREEN CO., LTD., JP  
[85] 2021-01-07  
[86] 2019-12-10 (PCT/JP2019/048334)  
[87] (WO2020/129756)  
[30] JP (2018-239983) 2018-12-21

[21] **3,105,958**  
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01) A01G 31/06 (2006.01)**

[25] EN  
[54] **PLANTER, PLANTER TOWER AND HYDROPONIC GREENHOUSE**

[54] **PLANTEUSE, TOUR DE PLANTATION ET SERRE HYDROPONIQUE**

[72] VAN BUUREN, EUGENE, ZA  
[72] VAN BUUREN, JACQUES, ZA  
[72] EHLERS, JAN, ZA  
[71] EDEN GREEN GLOBAL TECHNOLOGIES LIMITED, IE  
[85] 2021-01-06  
[86] 2019-07-04 (PCT/IB2019/055702)  
[87] (WO2020/008400)  
[30] US (62/694,760) 2018-07-06

[21] **3,105,961**  
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/06 (2006.01)**

[25] EN  
[54] **A SUTURE MEMBER, SUTURING NEEDLE AND SUTURING DEVICE**

[54] **ELEMENT DE SUTURE, AIGUILLE DE SUTURE ET DISPOSITIF DE SUTURE**

[72] OCAK, UBBAT, NO  
[72] PAVELS PETERSEN, ERIK, NO  
[72] RONNINGEN, MARTIN W., NO  
[71] OCAK, UBBAT, NO  
[85] 2021-01-07  
[86] 2019-06-27 (PCT/NO2019/050135)  
[87] (WO2020/017976)  
[30] NO (20180994) 2018-07-16

[21] **3,105,967**  
[13] A1

[51] **Int.Cl. G10L 15/06 (2013.01) G10L 15/22 (2006.01)**

[25] EN  
[54] **THE ERRONEOUS CONVERSION DICTIONARY CREATION SYSTEM**

[54] **SYSTEME DE CREATION DE DICTIONNAIRE D'ERREURS DE CONVERSION**

[72] SEKINE, KIYOSHI, JP  
[71] INTERACTIVE SOLUTIONS CORP., JP  
[85] 2021-01-07  
[86] 2020-02-10 (PCT/JP2020/005198)  
[87] (WO2020/225949)  
[30] JP (2019-088361) 2019-05-08

[21] **3,105,969**  
[13] A1

[51] **Int.Cl. G09F 13/04 (2006.01) G09F 13/08 (2006.01) H05B 33/08 (2020.01)**

[25] EN  
[54] **HYBRID LED / PHOTOLUMINESCENT SIGNS**

[54] **ENSEIGNES HYBRIDES A DEL ET PHOTOLUMINESCENCE**

[72] MCKENZIE, ROGER, NZ  
[72] DIMOND, TREVOR, NZ  
[71] ECOGLO INTERNATIONAL LIMITED, NZ  
[85] 2021-01-07  
[86] 2019-07-12 (PCT/NZ2019/050081)  
[87] (WO2020/013713)  
[30] NZ (NZ744322) 2018-07-13



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[21] **3,105,975**  
[13] A1

[51] **Int.Cl. A61K 31/7034 (2006.01) A61K 8/35 (2006.01) A61K 8/42 (2006.01) A61K 8/49 (2006.01) A61K 8/60 (2006.01) A61K 31/122 (2006.01) A61K 31/16 (2006.01) A61P 17/14 (2006.01) A61Q 5/00 (2006.01) A61Q 7/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING HAIR LOSS OR PROMOTING HAIR REGROWTH**

[54] **COMPOSITION POUR PREVENIR LA CHUTE DES CHEVEUX OU STIMULER LA REPOUSSE DES CHEVEUX**

[72] SHIN, JAE-YOUNG, KR

[72] LEE, SANG-HWA, KR

[72] KIM, JAE-YOON, KR

[72] LEE, SO-YOUNG, KR

[71] LG HOUSEHOLD & HEALTH CARE LTD., KR

[85] 2021-01-07

[86] 2019-07-09 (PCT/KR2019/008438)

[87] (WO2020/013581)

[30] KR (10-2018-0079534) 2018-07-09

[30] KR (10-2018-0126283) 2018-10-22

[21] **3,105,978**  
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61K 9/72 (2006.01) G06M 1/16 (2006.01)**

[25] EN

[54] **DEVICE COUNTER**

[54] **COMPTEUR POUR DISPOSITIF**

[72] HOLROYD, MICHAEL, IE

[72] BOWMAN, NICOLAS JOHN, GB

[71] YOUNGBLOOD, WILLIAM C., US

[85] 2021-01-07

[86] 2018-07-10 (PCT/US2018/041424)

[87] (WO2020/013809)

[21] **3,105,981**  
[13] A1

[51] **Int.Cl. B66C 13/28 (2006.01) B66C 1/54 (2006.01) B66C 23/28 (2006.01) F03G 3/00 (2006.01)**

[25] EN

[54] **ENERGY STORAGE SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE STOCKAGE D'ENERGIE**

[72] PEDRETTI, ANDREA, US

[72] GROSS, WILLIAM, US

[71] ENERGY VAULT, INC., US

[85] 2021-01-07

[86] 2019-07-10 (PCT/US2019/041249)

[87] (WO2020/018329)

[30] US (62/700,694) 2018-07-19

[30] US (62/800,905) 2019-02-04

[30] US (62/800,919) 2019-02-04

[30] US (62/800,929) 2019-02-04

[21] **3,105,982**  
[13] A1

[51] **Int.Cl. C07H 17/00 (2006.01) A61K 31/7028 (2006.01) A61K 31/7048 (2006.01) A61K 31/7056 (2006.01) A61K 31/706 (2006.01) A61K 31/7064 (2006.01) A61K 31/7072 (2006.01) C07H 13/02 (2006.01) C07H 15/26 (2006.01) C07H 99/00 (2006.01)**

[25] EN

[54] **SENOLYTIC COMPOSITIONS AND USES THEREOF**

[54] **COMPOSITIONS SENOLYTIQUES ET UTILISATIONS ASSOCIEES**

[72] GALLOP, MARK A., US

[72] QUARTA, MARCO, US

[72] KLEIN, JULIAN, US

[71] RUBEDO LIFE SCIENCES, INC., US

[85] 2021-01-07

[86] 2019-07-11 (PCT/US2019/041283)

[87] (WO2020/014409)

[30] US (62/696,486) 2018-07-11

[21] **3,105,985**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS RELATED TO ENGINEERED FC-ANTIGEN BINDING DOMAIN CONSTRUCTS TARGETED TO CCR4**

[54] **COMPOSITIONS ET METHODES ASSOCIEES A DES CONSTRUCTIONS DE DOMAINE DE LIAISON A UN ANTIGENE FC CIBLEES SUR CCR4**

[72] KURTAGIC, ELMA, US

[72] RUTITZKY, LAURA, US

[72] ORTIZ, DANIEL, US

[72] LANSING, JONATHAN C., US

[72] MANNING, ANTHONY, US

[71] MOMENTA PHARMACEUTICALS, INC., US

[85] 2021-01-07

[86] 2019-07-11 (PCT/US2019/041324)

[87] (WO2020/014429)

[30] US (62/696,746) 2018-07-11

[21] **3,105,986**  
[13] A1

[51] **Int.Cl. G01V 1/28 (2006.01)**

[25] EN

[54] **GENERATING DIFFRACTION IMAGES BASED ON WAVE EQUATIONS**

[54] **GENERATION D'IMAGES DE DIFFRACTION SUR LA BASE D'EQUATIONS D'ONDES**

[72] ZHANG, DONGLIANG, SA

[72] FEL, TONG WANG, SA

[72] TSINGAS, CONSTANTINOS, SA

[72] LUO, YI, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2021-01-07

[86] 2019-05-09 (PCT/US2019/031421)

[87] (WO2019/222011)

[30] US (15/981,033) 2018-05-16

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[21] **3,105,988**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **HIGH-AFFINITY, ISOFORM-SELECTIVE TGF.BETA.1 INHIBITORS AND USE THEREOF**

[54] **INHIBITEURS DE TGFS1 SELECTIFS SELON L'ISOFORME A AFFINITE ELEVEE**

[72] DATTA, ABHISHEK, US

[72] CAPILI, ALLAN, US

[72] SCHURPF, THOMAS, US

[72] MARTIN, CONSTANCE, US

[72] DAGBAY, KEVIN B., US

[72] CHAPRON, CHRISTOPHER, US

[72] WAWERSIK, STEFAN, US

[72] LITTLEFIELD, CHRISTOPHER, US

[72] CARVEN, GREGORY J., US

[72] BUCKLER, ALAN, US

[72] LIN, SUSAN, US

[72] JACKSON, JUSTIN W., US

[72] STEIN, CAITLIN, US

[72] AVERY, ANDREW, US

[72] COOPER, ANTHONY, US

[72] SALOTTO, MATTHEW, US

[71] SCHOLAR ROCK, INC., US

[85] 2021-01-07

[86] 2019-07-11 (PCT/US2019/041373)

[87] (WO2020/014460)

[30] US (62/696,752) 2018-07-11

[30] US (62/718,196) 2018-08-13

[30] US (62/737,534) 2018-09-27

[30] US (62/758,180) 2018-11-09

[30] US (62/810,263) 2019-02-25

[30] US (62/827,552) 2019-04-01

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[21] **3,105,990**  
[13] A1

[51] **Int.Cl. C09K 3/32 (2006.01) C02F 1/28 (2006.01) C08L 1/02 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR RECOVERY AND/OR BIOREMEDIATION OF OIL SPILLS AND/OR HYDROCARBONS**

[54] **COMPOSITION ET PROCEDE DE RECUPERATION ET/OU DE BIORESTAURATION DE DEVERSEMENTS DE PETROLE ET/OU D'HYDROCARBURES**

[72] OTTENHALL, ANNA, SE

[72] EK, MONICA, SE

[72] SIDENMARK, JOHAN, SE

[72] TEGELSTRAND, CLAS, SE

[72] JOSEPHSSON, ERIK, SE

[72] MELIN, LARS, SE

[71] BIOSORBE AB, SE

[85] 2021-01-07

[86] 2019-07-12 (PCT/SE2019/050690)

[87] (WO2020/013758)

[30] SE (1850897-8) 2018-07-13

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[21] **3,105,991**  
[13] A1

[51] **Int.Cl. E03D 7/00 (2006.01) A47K 11/12 (2006.01) E04H 1/12 (2006.01)**

[25] EN

[54] **PORTABLE BODY WASTE COLLECTION AND SANITATION SYSTEM**

[54] **SYSTEME PORTATIF DE COLLECTE ET D'ASSAINISSEMENT DE DECHETS CORPORELS**

[72] WARREN, JOHN, US

[71] ALASKA NATIVE TRIBAL HEALTH CONSORTIUM, US

[85] 2021-01-07

[86] 2019-07-11 (PCT/US2019/041460)

[87] (WO2020/014520)

[30] US (62/696,763) 2018-07-11

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[21] **3,105,992**  
[13] A1

[51] **Int.Cl. A63B 60/62 (2015.01) A63B 57/00 (2015.01)**

[25] EN

[54] **GOLF CLUB HEAD COVER**

[54] **COIFFE POUR TETE DE CLUB DE GOLF**

[72] GONZALEZ, VICTOR MANUEL, US

[71] GONZALEZ, VICTOR MANUEL, US

[85] 2021-01-07

[86] 2019-06-11 (PCT/US2019/036613)

[87] (WO2020/013941)

[30] US (62/695,360) 2018-07-09

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[21] **3,106,000**  
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01) E02F 5/32 (2006.01)**

[25] EN

[54] **RIPPER SHANK POCKET WITH WEAR INSERTS**

[54] **POCHE DE TIGE DE DEFONCEUSE AVEC INSERTS D'USURE**

[72] GERBER, BYRON L., US

[71] CATERPILLAR INC., US

[85] 2021-01-07

[86] 2019-06-13 (PCT/US2019/036934)

[87] (WO2020/018205)

[30] US (62/698,370) 2018-07-16

[30] US (16/395,380) 2019-04-26

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[21] **3,106,001**  
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **ONE RUN SETTING TOOL**

[54] **OUTIL DE REGLAGE A UNE COURSE**

[72] BAKER, TREA, US

[72] BAKER, JUSTICE, US

[71] KINGDOM DOWNHOLE TOOLS, LLC, US

[85] 2021-01-07

[86] 2019-06-13 (PCT/US2019/037125)

[87] (WO2020/013949)

[30] US (62/697,590) 2018-07-13

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[21] <b>3,106,008</b> [13] A1	[21] <b>3,106,014</b> [13] A1	[21] <b>3,106,018</b> [13] A1
[51] <b>Int.Cl. A61K 41/00 (2020.01) A61K 9/127 (2006.01) A61K 31/4745 (2006.01) A61P 35/00 (2006.01)</b>	[51] <b>Int.Cl. G05D 1/00 (2006.01) A63B 47/02 (2006.01) H04N 5/232 (2006.01)</b>	[51] <b>Int.Cl. G06F 3/02 (2006.01) G06Q 30/00 (2012.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>BINARY LIPID BILAYER-CONTAINING VESICLES COMPRISING EMBEDDED CYTOTOXIC AGENTS AND METHODS OF MAKING AND USING THE SAME</b>	[54] <b>OBJECT IDENTIFICATION AND COLLECTION SYSTEM AND METHOD</b>	[54] <b>IMMERSIVE DISPLAY CONTROLLED BY HAPTIC SWITCH</b>
[54] <b>VESICULES CONTENANT UNE BICOUCHE LIPIDIQUE BINAIRE COMPRENANT DES AGENTS CYTOTOXIQUES NOYES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION</b>	[54] <b>SYSTEME ET PROCEDE D'IDENTIFICATION ET COLLECTE D'OBJETS</b>	[54] <b>AFFICHAGE IMMERSIF COMMANDE PAR INTERRUPTEUR HAPTIQUE</b>
[72] PURI, ANU, US	[72] FREI, BRENT RONALD, US	[72] KHAN, ARNAB, US
[72] VIARD, MATHIAS, US	[72] MCMASTER, DWIGHT GALEN, US	[72] GORDON, BLAKE, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US	[72] RACINE, MICHAEL, US	[71] INVISTA TEXTILES (U.K.) LIMITED, GB
[85] 2021-01-07	[72] DU PREEZ, JACOBUS, US	[85] 2021-01-07
[86] 2019-07-11 (PCT/US2019/041464)	[72] DIMMIT, WILLIAM DAVID, US	[86] 2019-07-15 (PCT/US2019/041749)
[87] (WO2020/014522)	[72] BUTTERFIELD, ISABELLE, US	[87] (WO2020/018396)
[30] US (62/697,287) 2018-07-12	[72] HOLMGREN, CLIFFORD, US	[30] US (62/698,573) 2018-07-16
	[72] RHYS-JONES, DAFYDD DANIEL, US	[30] US (62/725,534) 2018-08-31
	[72] KOLLMORGEN, THAYNE, US	
	[72] NAYAK, VIVEK ULLAL, US	[21] <b>3,106,020</b> [13] A1
	[71] TERRACLEAR INC., US	[51] <b>Int.Cl. A61M 5/00 (2006.01) A61M 5/162 (2006.01) A61M 5/168 (2006.01) A61M 37/00 (2006.01)</b>
	[85] 2021-01-07	[25] EN
	[86] 2019-07-12 (PCT/US2019/041716)	[54] <b>SYSTEMS AND METHODS FOR REMOVING A COVERING FROM A BODILY SURFACE</b>
	[87] (WO2020/014680)	[54] <b>SYSTEMES ET PROCEDES POUR RETIRER UN ELEMENT DE RECOUVREMENT D'UNE SURFACE CORPORELLE</b>
	[30] US (62/697,057) 2018-07-12	[72] LAFAUCI, MICHAEL A., US
		[72] WAHL, JEFFREY R., US
[21] <b>3,106,010</b> [13] A1	[21] <b>3,106,016</b> [13] A1	[72] BROWN, ANDREW M., US
[51] <b>Int.Cl. A61K 48/00 (2006.01) C07K 14/47 (2006.01) C12N 15/09 (2006.01) C12N 15/63 (2006.01) C12N 15/79 (2006.01)</b>	[51] <b>Int.Cl. B60T 17/18 (2006.01) B60T 17/00 (2006.01) B60T 17/22 (2006.01) B61H 1/00 (2006.01)</b>	[72] PINSKY, JONATHAN, US
[25] EN	[25] EN	[71] MIDAS HEALTHCARE SOLUTIONS, INC., US
[54] <b>GENE THERAPY VECTORS FOR TREATMENT OF DANON DISEASE</b>	[54] <b>BRAKE MONITORING SYSTEMS FOR RAILCARS</b>	[85] 2021-01-07
[54] <b>VECTEURS DE THERAPIE GENIQUE POUR LE TRAITEMENT DE LA MALADIE DE DANON</b>	[54] <b>SYSTEMES DE SURVEILLANCE DE FREIN POUR WAGONS DE CHEMIN DE FER</b>	[86] 2019-07-16 (PCT/US2019/042059)
[72] KERAVALA, ANNAHITA, US	[72] MARTIN, ANDREW H., US	[87] (WO2020/018577)
[72] MOORE, SIMON, US	[71] AMSTED RAIL COMPANY, INC., US	[30] US (62/699,505) 2018-07-17
[72] RICKS, DAVID, US	[85] 2021-01-07	[30] US (62/711,872) 2018-07-30
[71] ROCKET PHARMACEUTICALS, LTD., US	[86] 2019-07-12 (PCT/US2019/041734)	[30] US (62/728,595) 2018-09-07
[85] 2021-01-07	[87] (WO2020/014692)	
[86] 2019-07-11 (PCT/US2019/041465)	[30] US (62/697,054) 2018-07-12	
[87] (WO2020/014523)		
[30] US (62/697,302) 2018-07-12		

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[21] **3,106,022**  
[13] A1

[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 35/545 (2015.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTOR T CELLS DERIVED FROM IMMUNOENGINEERED PLURIPOTENT STEM CELLS LYMPHOCYTES T RECEPTEURS D'ANTIGENES CHIMERIQUES DERIVES DE CELLULES SOUCHES PLURIPOTENTES OBTENUES PAR GENIE GENETIQUE**

[72] SCHREPPFER, SONJA, US  
[72] DEUSE, TOBIAS, US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2021-01-07  
[86] 2019-07-17 (PCT/US2019/042123)  
[87] (WO2020/018620)  
[30] US (62/698,941) 2018-07-17

[21] **3,106,027**  
[13] A1

[51] **Int.Cl. H01L 31/0224 (2006.01) H01L 31/09 (2006.01) H01L 31/107 (2006.01)**

[25] EN

[54] **A PHOTODETECTOR  
PHOTODETECTEUR**

[72] APPLGATE, MATTHEW, GB  
[72] IRVINE, ANDREW, GB  
[72] BARNES, CRISPIN, GB  
[71] CAMBRIDGE ENTERPRISE LIMITED, GB

[85] 2021-01-07  
[86] 2019-07-16 (PCT/GB2019/051977)  
[87] (WO2020/016564)  
[30] GB (1811693.9) 2018-07-17

[21] **3,106,028**  
[13] A1

[51] **Int.Cl. C25B 1/04 (2021.01) C01B 3/10 (2006.01) C25C 1/00 (2006.01)**

[25] EN

[54] **A CONTINUOUS PROCESS FOR SUSTAINABLE PRODUCTION OF HYDROGEN  
PROCEDE DE PRODUCTION DURABLE D'HYDROGENE EN CONTINU**

[72] AMINI HORRI, BAHMAN, GB  
[72] GU, SAI, GB  
[71] UNIVERSITY OF SURREY, GB

[85] 2021-01-07  
[86] 2019-07-18 (PCT/GB2019/052002)  
[87] (WO2020/016580)  
[30] GB (1811785.3) 2018-07-19

[21] **3,106,029**  
[13] A1

[51] **Int.Cl. B61L 15/00 (2006.01) B61L 17/00 (2006.01) B61L 25/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR BUILDING AND MANAGING A TRAIN CONSIST  
SYSTEME ET PROCEDE DE CONSTRUCTION ET DE GESTION DE COMPOSITION DE TRAIN**

[72] MANFIELD, EDWARD J., US  
[71] AMSTED RAIL COMPANY, INC., US

[85] 2021-01-07  
[86] 2019-07-17 (PCT/US2019/042185)  
[87] (WO2020/018655)  
[30] US (62/699,368) 2018-07-17

[21] **3,106,030**  
[13] A1

[51] **Int.Cl. B01D 71/44 (2006.01) B01D 61/14 (2006.01) B01D 61/18 (2006.01) B01D 67/00 (2006.01) B01D 69/12 (2006.01)**

[25] EN

[54] **HIGH FLOW LIQUID FILTRATION DEVICE INCLUDING A POROUS POLYPARAXYLYLENE MEMBRANE OR A POROUS POLYPARAXYLYLENE/POLYTETRAFLUOROETHYLENE COMPOSITE MEMBRANE  
DISPOSITIF DE FILTRATION DE LIQUIDE A ECOULEMENT ELEVE COMPRENANT UNE MEMBRANE DE POLYPARAXYLYLENE POREUSE OU UNE MEMBRANE COMPOSITE DE POLYPARAXYLYLENE/POLYTETRAFLUOROETHYLENE POREUX**

[72] ZERO, SCOTT J., US  
[71] W.L. GORE & ASSOCIATES, INC., US

[85] 2021-01-07  
[86] 2019-07-19 (PCT/US2019/042638)  
[87] (WO2020/018925)  
[30] US (62/700,546) 2018-07-19

[21] **3,106,031**  
[13] A1

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 31/235 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING EPILEPSY  
METHODES DE TRAITEMENT DE L'EPILEPSIE**

[72] BECHARD, JEFFREY PAUL, CA  
[72] SHERRINGTON, ROBIN PAUL, CA  
[72] CADIEUX, JEAN-JACQUES ALEXANDRE, CA

[72] TARI, PARISA KARIMI, CA  
[71] XENON PHARMACEUTICALS INC., CA

[85] 2021-01-07  
[86] 2019-07-26 (PCT/US2019/043765)  
[87] (WO2020/023923)  
[30] US (62/711,051) 2018-07-27

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[21] **3,106,032**  
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F04B 9/00 (2006.01) F04B 9/02 (2006.01) F04B 17/05 (2006.01) F04B 17/06 (2006.01) F04B 19/04 (2006.01)**

[25] EN

[54] **ENGAGEMENT AND DISENGAGEMENT WITH EXTERNAL GEAR BOX STYLE PUMPS**

[54] **MISE EN PRISE ET DESOLIDARISATION AVEC POMPES DE STYLE A BOITE D'ENGRENAGE EXTERNE**

[72] MORRIS, JEFFREY G., US

[71] TYPHON TECHNOLOGY SOLUTIONS, LLC, US

[85] 2021-01-07

[86] 2019-07-29 (PCT/US2019/043982)

[87] (WO2020/033181)

[30] US (62/715,165) 2018-08-06

[30] US (62/786,174) 2018-12-28

[21] **3,106,033**  
[13] A1

[51] **Int.Cl. C07D 261/08 (2006.01) A61K 31/42 (2006.01) A61K 31/46 (2006.01) C07D 413/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **COMPOUNDS USEFUL IN MODULATING THE FARNESOID X RECEPTOR AND METHODS OF MAKING AND USING THE SAME**

[54] **COMPOSES UTILES DANS LA MODULATION DU RECEPTEUR FARNESOIDE X ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] SHARMA, RAJIV, US

[72] BENTHEM, LAMBERTUS, SE

[72] JUDKINS, ROBERT, SE

[71] INORBIT THERAPEUTICS AB, SE

[85] 2021-01-07

[86] 2019-08-06 (PCT/US2019/045266)

[87] (WO2020/033382)

[30] US (62/716,015) 2018-08-08

[21] **3,106,034**  
[13] A1

[51] **Int.Cl. B32B 27/22 (2006.01) B32B 7/02 (2019.01) B32B 9/02 (2006.01)**

[25] EN

[54] **COLLOIDAL BARRIER MATERIALS AND METHODS OF MAKING AND USING THE SAME**

[54] **MATERIAUX DE BARRIERES COLLOIDALE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] GOSSE, JIMMY, US

[72] JORGENSEN, RANAE, US

[72] ROOT, DOUGLAS, US

[72] STUTELBERG, MICHAEL, US

[71] AGRICULTURAL UTILIZATION RESEARCH INSTITUTE, US

[85] 2021-01-07

[86] 2019-07-12 (PCT/US2019/041510)

[87] (WO2020/014556)

[30] US (62/697,120) 2018-07-12

[30] US (16/508,424) 2019-07-11

[21] **3,106,035**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 9/22 (2006.01)**

[25] EN

[54] **NOVEL CAS12B ENZYMES AND SYSTEMS**

[54] **NOUVEAUX SYSTEMES ET ENZYMES CAS12B**

[72] ZHANG, FENG, US

[72] STRECKER, JONATHAN, US

[72] SLAYMAKER, IAN, US

[72] JONES, SARA, US

[71] THE BROAD INSTITUTE, INC., US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[85] 2021-01-07

[86] 2019-08-07 (PCT/US2019/045582)

[87] (WO2020/033601)

[30] US (62/715,640) 2018-08-07

[30] US (62/744,080) 2018-10-10

[30] US (62/751,196) 2018-10-26

[30] US (62/794,929) 2019-01-21

[30] US (62/831,028) 2019-04-08

[21] **3,106,036**  
[13] A1

[51] **Int.Cl. H01J 49/14 (2006.01) H01J 49/20 (2006.01) H01J 49/22 (2006.01)**

[25] EN

[54] **DYNAMIC ELECTRON IMPACT ION SOURCE**

[54] **SOURCE D'IONS A IMPACT ELECTRONIQUE DYNAMIQUE**

[72] WELKIE, DAVID G., US

[72] CHENG, TONG, US

[71] PERKINELMER HEALTH SCIENCES, INC., US

[85] 2021-01-07

[86] 2019-07-12 (PCT/US2019/041540)

[87] (WO2020/014571)

[30] US (16/033,927) 2018-07-12

[21] **3,106,037**  
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/02 (2006.01) A61B 17/42 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR COMPRESSING TUMORS**

[54] **DISPOSITIFS ET PROCEDES POUR LA COMPRESSION DE TUMEURS**

[72] TAL, MICHAEL GABRIEL, IL

[72] MAGNAZI, GILAD, IL

[72] HENN, OHAD, IL

[71] EMPRESS MEDICAL, INC., US

[85] 2021-01-07

[86] 2019-08-13 (PCT/US2019/046384)

[87] (WO2020/036981)

[30] US (62/719,177) 2018-08-17

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[21] **3,106,038**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING AND TREATING CANCERS HAVING ADENOSINE PATHWAY ACTIVATION**

[54] **PROCEDES DE DETECTION ET DE TRAITEMENT DE CANCERS PRESENTANT UNE ACTIVATION DE LA VOIE DE L'ADENOSINE**

[72] WILLINGHAM, STEPHEN, US  
[72] HOTSON, ANDREW, US  
[72] MILLER, RICHARD A., US  
[71] CORVUS PHARMACEUTICALS, INC., US

[85] 2021-01-07  
[86] 2019-07-12 (PCT/US2019/041682)  
[87] (WO2020/014657)  
[30] US (62/697,303) 2018-07-12  
[30] US (62/742,912) 2018-10-08  
[30] US (62/757,623) 2018-11-08  
[30] US (62/846,524) 2019-05-10

[21] **3,106,039**  
[13] A1

[51] **Int.Cl. G05D 16/20 (2006.01) F16K 17/00 (2006.01)**

[25] EN

[54] **REMOTE GAS REGULATING AND CONTROL SYSTEMS AND RELATED DEVICES**

[54] **SYSTEMES DE COMMANDE ET DE REGULATION DE GAZ A DISTANCE ET DISPOSITIFS ASSOCIES**

[72] PEACE, DANIEL W., US  
[71] SENSUS SPECTRUM, LLC, US

[85] 2021-01-07  
[86] 2019-08-19 (PCT/US2019/047005)  
[87] (WO2020/046610)  
[30] US (62/723,109) 2018-08-27  
[30] US (16/378,793) 2019-04-09

[21] **3,106,040**  
[13] A1

[51] **Int.Cl. C11D 1/38 (2006.01) C11D 3/00 (2006.01) C11D 3/30 (2006.01)**

[25] EN

[54] **ESTERQUAT COMPOSITIONS**

[54] **COMPOSITIONS D'ESTERQUATS**

[72] FAUNCE, JAMES ANTHONY, US  
[72] BUTIKAS, RENATA, US  
[72] BERNHARDT, RANDAL JAY, US  
[72] KOVACH, ELIZABETH SARAH, US  
[72] GERMAIN, TERESA, US  
[72] WOLFE, PATRICK SHANE, US  
[72] ZAPOROWSKI, LEONARD FRANK, US

[72] DAMESHEK, ANATOLIY A., US  
[71] STEPAN COMPANY, US

[85] 2021-01-07  
[86] 2019-07-12 (PCT/US2019/041684)  
[87] (WO2020/014659)  
[30] US (62/697,235) 2018-07-12  
[30] US (62/839,081) 2019-04-26

[21] **3,106,041**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING AND TREATING CANCERS HAVING ADENOSINE PATHWAY ACTIVATION**

[54] **PROCEDES DE DETECTION ET DE TRAITEMENT DE CANCERS PRESENTANT UNE ACTIVATION DE LA VOIE DE L'ADENOSINE**

[72] WILLINGHAM, STEPHEN, US  
[72] HOTSON, ANDREW, US  
[72] MILLER, RICHARD A., US  
[71] CORVUS PHARMACEUTICALS, INC., US

[85] 2021-01-07  
[86] 2019-07-12 (PCT/US2019/041695)  
[87] (WO2020/014666)  
[30] US (62/697,303) 2018-07-12  
[30] US (62/742,919) 2018-10-08  
[30] US (62/757,630) 2018-11-08  
[30] US (62/846,525) 2019-05-10

[21] **3,106,042**  
[13] A1

[51] **Int.Cl. G01N 15/14 (2006.01) G01N 33/49 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SORTING T CELLS BY ACTIVATION STATE**

[54] **SYSTEMES ET METHODES DE TRI DE LYMPHOCYTES T PAR ETAT D'ACTIVATION**

[72] SKALA, MELISSA CAROLINE, US  
[72] WALSH, ALEXANDRA JULE, US  
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US

[85] 2021-01-07  
[86] 2019-08-28 (PCT/US2019/048616)  
[87] (WO2020/047133)  
[30] US (62/724,428) 2018-08-29

[21] **3,106,043**  
[13] A1

[51] **Int.Cl. H04W 72/02 (2009.01)**

[25] EN

[54] **METHOD FOR DATA TRANSMISSION IN SIDELINK AND TERMINAL DEVICE**

[54] **PROCEDE DE TRANSMISSION DE DONNEES DANS UNE LIAISON LATERALE ET DISPOSITIF TERMINAL**

[72] LU, QIANXI, CN  
[72] LIN, HUEI-MING, AU  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2021-01-08  
[86] 2019-01-16 (PCT/CN2019/072052)  
[87] (WO2020/015345)  
[30] CN (PCT/CN2018/095961) 2018-07-17  
[30] CN (PCT/CN2018/096531) 2018-07-20  
[30] CN (PCT/CN2018/114613) 2018-11-08

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[21] **3,106,044**  
[13] A1

[51] **Int.Cl. G06N 5/04 (2006.01) H04L 29/08 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING AN ENVIRONMENTAL ANOMALY AND INITIATING AN ENHANCED AUTOMATIC RESPONSE**

[54] **PROCEDES DE DETECTION D'UNE ANOMALIE ENVIRONNEMENTALE ET D'INITIATION D'UNE REPONSE AUTOMATIQUE AMELIOREE**

[72] SKAAKSRUD, OLE-PETTER, US

[71] FEDEX CORPORATE SERVICES, INC., US

[85] 2021-01-07

[86] 2019-09-11 (PCT/US2019/050528)

[87] (WO2020/060810)

[30] US (62/735,075) 2018-09-22

[21] **3,106,045**  
[13] A1

[51] **Int.Cl. H04W 76/19 (2018.01)**

[25] EN

[54] **CONTROL METHOD FOR USER EQUIPMENT, AND USER EQUIPMENT**

[54] **PROCEDE DE COMMANDE POUR UN EQUIPEMENT UTILISATEUR, ET EQUIPEMENT UTILISATEUR**

[72] ZHANG, CHONGMING, CN

[72] LIU, RENMAO, CN

[72] YAMADA, SHOHEI, JP

[71] SHARP KABUSHIKI KAISHA, JP

[71] FG INNOVATION COMPANY LIMITED, CN

[85] 2021-01-08

[86] 2019-07-09 (PCT/CN2019/095232)

[87] (WO2020/011157)

[30] CN (201810754064.9) 2018-07-10

[21] **3,106,046**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTIBODY MOLECULES THAT BIND PD-L1 AND CD137**

[54] **MOLECULES D'ANTICORPS QUI SE LIENT A PD-L1 ET CD137**

[72] LAKINS, MATTHEW, GB

[72] MUNOZ-OLAYA, JOSE, GB

[72] WOLLERTON, FRANCISCA, GB

[72] BATEY, SARAH, GB

[72] TUNA, MIHRIBAN, GB

[72] KOERS, ALEXANDER, GB

[71] F-STAR BETA LIMITED, GB

[85] 2021-01-08

[86] 2019-07-12 (PCT/EP2019/068793)

[87] (WO2020/011964)

[30] GB (1811405.8) 2018-07-12

[30] GB (1818283.2) 2018-11-09

[30] GB (1902594.9) 2019-02-26

[21] **3,106,047**  
[13] A1

[51] **Int.Cl. E04B 2/56 (2006.01)**

[25] EN

[54] **PREFABRICATED WALL AND ASSEMBLY STRUCTURE FOR PREFABRICATED BUILDING, AND CONSTRUCTION METHOD THEREFOR**

[54] **PAROI PREFABRIQUEE ET STRUCTURE D'ASSEMBLAGE POUR BATIMENT PREFABRIQUE, ET PROCEDE DE CONSTRUCTION ASSOCIE**

[72] ZHOU, ZHAODI, CN

[71] ZHOU, ZHAODI, CN

[85] 2021-01-08

[86] 2019-07-10 (PCT/CN2019/095384)

[87] (WO2020/011186)

[30] CN (201810753058.1) 2018-07-10

[21] **3,106,048**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **ANTIBODY MOLECULES THAT BIND CD137 AND OX40**

[54] **MOLECULES D'ANTICORPS SE LIANT A CD137 ET OX40**

[72] TUNA, MIHRIBAN, GB

[72] GASPAR, MIGUEL, GB

[72] MORROW, MICHELLE, GB

[72] POON, EDMUND, GB

[71] F-STAR BETA LIMITED, GB

[85] 2021-01-08

[86] 2019-07-12 (PCT/EP2019/068796)

[87] (WO2020/011966)

[30] GB (1811407.4) 2018-07-12

[30] GB (1818281.6) 2018-11-09

[30] GB (1902598.0) 2019-02-26

[21] **3,106,050**  
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-CD137 ANTIBODIES**

[54] **ANTICORPS ANTI-CD137**

[72] PECHOUCKOVA, SARKA, GB

[72] WOLLERTON, FRANCISCA, GB

[72] GASPAR, MIGUEL, GB

[71] F-STAR BETA LIMITED, GB

[85] 2021-01-08

[86] 2019-07-12 (PCT/EP2019/068798)

[87] (WO2020/011968)

[30] GB (1811404.1) 2018-07-12

[21] **3,106,051**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **FC BINDING FRAGMENTS COMPRISING AN OX40 ANTIGEN-BINDING SITE**

[54] **FRAGMENTS DE LIAISON FC COMPRENANT UN SITE DE LIAISON A L'ANTIGENE OX40**

[72] TUNA, MIHRIBAN, GB

[72] GASPAR, MIGUEL, GB

[72] UHLENBROICH, SANDRA, GB

[72] EVERETT, KATY, GB

[72] BUFFET, DELPHINE, GB

[71] F-STAR BETA LIMITED, GB

[85] 2021-01-08

[86] 2019-07-12 (PCT/EP2019/068808)

[87] (WO2020/011974)

[30] GB (1811410.8) 2018-07-12

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[21] **3,106,052**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 11/08 (2006.01)**

[25] EN

[54] **FUSED TRI-CYCLIC COMPOUND AS PDE3/PDE4 DUAL INHIBITOR**

[54] **COMPOSE TRI-CYCLIQUE CONDENSE EN TANT QUE DOUBLE INHIBITEUR DE PDE3/PDE4**

[72] LUO, YUNFU, CN  
[72] PAN, JIANFENG, CN  
[72] ZHANG, GUOLI, CN  
[72] SU, SHENG, CN  
[72] WANG, YONG, CN  
[72] CHEN, SHUHUI, CN  
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2021-01-08  
[86] 2019-07-12 (PCT/CN2019/095826)  
[87] (WO2020/011254)  
[30] CN (201810772374.3) 2018-07-13

[21] **3,106,053**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **METHOD OF IDENTIFICATION OF ENTITIES FROM MASS SPECTRA**

[54] **PROCEDE D'IDENTIFICATION D'ENTITES A PARTIR DE SPECTRES DE MASSE**

[72] HRUSKA, MIROSLAV, SK  
[72] HAJDUCH, MARIAN, CZ  
[72] DZUBAK, PETR, CZ  
[71] UNIVERZITA PALACKEHO V OLOMOUCI, CZ

[85] 2021-01-08  
[86] 2019-07-19 (PCT/EP2019/069552)  
[87] (WO2020/016428)  
[30] EP (18184710.4) 2018-07-20

[21] **3,106,055**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07D 215/233 (2006.01)**

[25] EN

[54] **THERAPEUTIC COMBINATION OF QUINOLINE DERIVATIVE AND ANTIBODY**

[54] **COMBINAISON MEDICAMENTEUSE DE DERIVE DE QUINOLEINE ET D'ANTICORPS**

[72] TIAN, XIN, CN  
[72] SHEN, CHEN, CN  
[72] LYU, PENG, CN  
[72] WANG, XIANGJIAN, CN  
[72] ZHANG, XIQUAN, CN  
[72] LIU, ZHENG, CN  
[72] XIA, YU, CN  
[72] JIN, XIAOPING, CN  
[72] LI, BAIYONG, CN  
[72] WANG, ZHONGMIN MAXWELL, CN  
[72] HAN, BAOHUI, CN  
[72] CHU, TIANQING, CN  
[72] ZHONG, HUA, CN  
[72] LI, RONG, CN  
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2021-01-08  
[86] 2019-07-18 (PCT/CN2019/096540)  
[87] (WO2020/015703)  
[30] CN (201810790198.6) 2018-07-18  
[30] CN (201811346173.3) 2018-11-13  
[30] CN (201910149525.4) 2019-02-28

[21] **3,106,056**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**

[25] EN

[54] **THERAPEUTIC PREPARATIONS OF GAMMA-DELTA T CELLS AND NATURAL KILLER CELLS AND METHODS FOR MANUFACTURE AND USE**

[54] **PREPARATIONS THERAPEUTIQUES DE LYMPHOCYTES T GAMMA-DELTA ET DE CELLULES TUEUSES NATURELLES ET METHODES DE PREPARATION ET D'UTILISATION**

[72] QUINTARELLI, CONCETTA, IT  
[72] DE ANGELIS, BIAGIO, IT  
[72] LOCATELLI, FRANCO, IT  
[71] OSPEDALE PEDIATRICO BAMBINO GESU (OPBG), IT

[85] 2021-01-08  
[86] 2019-07-25 (PCT/EP2019/070125)  
[87] (WO2020/021045)  
[30] US (62/703,654) 2018-07-26

[21] **3,106,057**  
[13] A1

[51] **Int.Cl. C07H 19/073 (2006.01) C07H 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING TRIFLURIDINE**

[54] **PROCEDE DE PREPARATION DE TRIFLURIDINE**

[72] LIU, LIN, CN  
[72] ZHAO, RUI, CN  
[72] SANG, GUANGMING, CN  
[72] ZHOU, XINGJIAN, CN  
[72] GUO, XIAOPENG, CN  
[72] ZHANG, AIMING, CN  
[72] WU, GANG, CN  
[72] XIA, CHUNGUANG, CN  
[72] ZHANG, XIQUAN, CN  
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2021-01-08  
[86] 2019-07-24 (PCT/CN2019/097439)  
[87] (WO2020/020208)  
[30] CN (201810817373.6) 2018-07-24



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[21] **3,106,058**  
[13] A1

[51] **Int.Cl. B65D 75/44 (2006.01) B65D 75/46 (2006.01) B65D 75/56 (2006.01) B65D 75/58 (2006.01)**

[25] EN  
[54] **PACKAGED FOOD**  
[54] **ALIMENT EMBALLE**  
[72] SHARPE, MIKE, GB  
[71] FRITO-LAY TRADING COMPANY GMBH, CH  
[85] 2021-01-08  
[86] 2019-09-19 (PCT/EP2019/075219)  
[87] (WO2020/058429)  
[30] GB (1815349.4) 2018-09-20

[21] **3,106,059**  
[13] A1

[51] **Int.Cl. F24D 11/02 (2006.01) F24S 60/00 (2018.01) F24T 10/13 (2018.01)**

[25] EN  
[54] **METHOD AND ARRANGEMENT IN CONNECTION WITH A BUILDING**  
[54] **PROCEDE ET AGENCEMENT EN LIEN AVEC UN BATIMENT**  
[72] NIEMI, RAMI, FI  
[71] QUANTITATIVE HEAT OY, FI  
[85] 2021-01-08  
[86] 2019-08-20 (PCT/FI2019/050592)  
[87] (WO2020/039123)  
[30] FI (20185691) 2018-08-20

[21] **3,106,060**  
[13] A1

[51] **Int.Cl. C07D 209/34 (2006.01) A61K 31/44 (2006.01) A61P 35/00 (2006.01)**

[25] EN  
[54] **AMMONIUM SALTS OF 3-(3,5-DIBROMO-4-HYDROXYBENZYLIDEN)-5-INDO-1,3-DIHYDROINDOL-2-ONE AND USES THEREOF**  
[54] **SELS D'AMMONIUM DE 3-(3, 5-DIBROMO-4-HYDROXYBENZYLIDENE)-5-INDO -1,3-DIHYDROINDOL-2-ONE ET LEURS UTILISATIONS**  
[72] CHA, TAI-LUNG, CN  
[72] LY, TAI-WEI, CN  
[72] TSAI, YI-TA, CN  
[72] LIN, SHENG-CHIEH, CN  
[72] YU, YUN, CN  
[71] METAGONE BIOTECH INC., CN  
[85] 2021-01-08  
[86] 2019-07-24 (PCT/CN2019/097525)  
[87] (WO2020/029799)  
[30] US (62/715,296) 2018-08-07

[21] **3,106,061**  
[13] A1

[51] **Int.Cl. C08L 33/14 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B29C 64/165 (2017.01) B29C 35/00 (2006.01)**

[25] EN  
[54] **COMPOSITIONS AND METHODS USEFUL FOR FORMING SINTERED ARTICLES**  
[54] **COMPOSITIONS ET PROCEDES UTILES POUR LA FORMATION D'ARTICLES FRITES**  
[72] LIU, DAVID SHIN-REN, US  
[72] WOLF, WILLIAM, US  
[72] MC GRAIL, BRENDAN, US  
[71] ARKEMA FRANCE, FR  
[85] 2021-01-08  
[86] 2019-05-29 (PCT/EP2019/063926)  
[87] (WO2020/015906)  
[30] US (62/699,976) 2018-07-18

[21] **3,106,063**  
[13] A1

[51] **Int.Cl. C07D 301/12 (2006.01) B01J 31/34 (2006.01) C07D 303/04 (2006.01) C07B 61/00 (2006.01)**

[25] EN  
[54] **METHOD FOR PRODUCING EPOXYALKANE AND SOLID OXIDATION CATALYST**  
[54] **PROCEDE DE PRODUCTION D'EPOXYALCANE ET CATALYSEUR D'OXYDATION SOLIDE**  
[72] YAP, MEE LIN, JP  
[72] TAKADA, SHINGO, JP  
[71] KAO CORPORATION, JP  
[85] 2021-01-08  
[86] 2019-06-11 (PCT/JP2019/023110)  
[87] (WO2020/026598)  
[30] JP (2018-142799) 2018-07-30

[21] **3,106,066**  
[13] A1

[51] **Int.Cl. A47L 13/58 (2006.01)**

[25] EN  
[54] **BUCKET AND CLEANING SYSTEM WHICH COMPRISES SUCH A BUCKET**  
[54] **SEAU ET SYSTEME DE NETTOYAGE COMPRENANT UN SEAU DE CE TYPE**  
[72] DINGERT, UWE, DE  
[72] WEIS, NORBERT, DE  
[71] CARL FREUDENBERG KG, DE  
[85] 2021-01-08  
[86] 2019-07-01 (PCT/EP2019/067553)  
[87] (WO2020/011579)  
[30] DE (10 2018 116 774.1) 2018-07-11

[21] **3,106,067**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 31/7088 (2006.01) A61K 39/00 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 7/08 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) G01N 33/574 (2006.01)**

[25] EN  
[54] **EPI TOPE SPECIFIC TO SMO PROTEIN, ANTIBODY RECOGNIZING SAME, AND COMPOSITION COMPRISING SAME**  
[54] **EPI TOPE SPECIFIQUE A UNE PROTEINE SMO, ANTICORPS RECONNAISSANT CELUI-CI, ET COMPOSITION LE COMPRENANT**  
[72] OH, SANG CHEUL, KR  
[72] LEE, DAE-HEE, KR  
[71] HEDGEHOG, INC., KR  
[85] 2021-01-08  
[86] 2019-07-11 (PCT/KR2019/008603)  
[87] (WO2020/013644)  
[30] KR (10-2018-0080489) 2018-07-11  
[30] KR (10-2019-0083901) 2019-07-11

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[21] **3,106,068**  
[13] A1

[51] **Int.Cl. A47J 36/02 (2006.01) A47J 36/06 (2006.01)**  
[25] FR  
[54] **ODORLESS LID**  
[54] **COUVERCLE ANTI-ODEUR**  
[72] SOM, MARIE-PIERRE, FR  
[72] TRAN-THI, THU-HOA, FR  
[72] THERON, CHRISTOPHE, FR  
[72] BAMOGO, WILLIAM, FR  
[72] NGUYEN, TRUNG-HIEU, FR  
[71] ETHERA, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[85] 2021-01-08  
[86] 2019-07-12 (PCT/FR2019/051752)  
[87] (WO2020/012135)  
[30] FR (1856413) 2018-07-12

[21] **3,106,069**  
[13] A1

[51] **Int.Cl. C02F 1/469 (2006.01) B01D 67/00 (2006.01) C02F 1/42 (2006.01) C25B 1/46 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD OF DEIONIZATION OF WATER**  
[54] **SYSTEME ET PROCEDE DE DESIONISATION DE L'EAU**  
[72] HOFFERLE, ERICH G., US  
[72] ROZARIO, ISABEL, US  
[72] MILDNER, STEPHEN, US  
[71] EVOQUA WATER TECHNOLOGIES LLC, US  
[85] 2021-01-08  
[86] 2019-03-19 (PCT/US2019/022903)  
[87] (WO2020/033011)  
[30] US (62/716,127) 2018-08-08

[21] **3,106,070**  
[13] A1

[51] **Int.Cl. C07D 301/12 (2006.01) B01J 31/34 (2006.01) C07D 303/04 (2006.01) C07B 61/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING EPOXYALKANE AND SOLID OXIDATION CATALYST**  
[54] **PROCEDE DE PRODUCTION D'UN EPOXYALCANE ET CATALYSEUR D'OXYDATION SOLIDE**  
[72] YAP, MEE LIN, JP  
[72] SHINGO TAKADA, JP  
[71] KAO CORPORATION, JP  
[85] 2021-01-08  
[86] 2019-06-11 (PCT/JP2019/023111)  
[87] (WO2020/026599)  
[30] JP (2018-142795) 2018-07-30

[21] **3,106,071**  
[13] A1

[51] **Int.Cl. G01V 1/30 (2006.01)**  
[25] EN  
[54] **EVALUATING PROCESSING IMPRINT ON SEISMIC SIGNALS**  
[54] **EVALUATION D'EMPREINTE DE TRAITEMENT SUR DES SIGNAUX SISMIQUES**  
[72] BAKULIN, ANDREY, SA  
[72] SMITH, ROBERT, SA  
[72] ALRAMADHAN, ABDULLAH, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2021-01-08  
[86] 2019-04-16 (PCT/US2019/027604)  
[87] (WO2019/212739)  
[30] US (15/968,261) 2018-05-01

[21] **3,106,072**  
[13] A1

[51] **Int.Cl. C08J 9/00 (2006.01) C08J 9/30 (2006.01)**  
[25] EN  
[54] **POROUS MATERIAL OF CELLULOSE FIBRES AND GLUTEN**  
[54] **MATERIAU POREUX DE FIBRES DE CELLULOSE ET DE GLUTEN**  
[72] SLATTEGARD, RIKARD, SE  
[71] CELLUTECH AB, SE  
[85] 2021-01-08  
[86] 2019-07-01 (PCT/EP2019/067639)  
[87] (WO2020/011587)  
[30] SE (1850873-9) 2018-07-10

[21] **3,106,073**  
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G01D 4/00 (2006.01) G01R 19/25 (2006.01) H01R 13/66 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR IDENTIFYING ELECTRICAL DEVICES**  
[54] **SYSTEME D'IDENTIFICATION DE DISPOSITIFS ELECTRIQUES**  
[72] SIAU, LOONG YEN JOHANN, GB  
[72] GODFREY, MICHAEL JAMES, GB  
[71] SOURCE TO SITE ACCESSORIES LIMITED, GB  
[85] 2021-01-08  
[86] 2019-07-09 (PCT/GB2019/051928)  
[87] (WO2020/012172)  
[30] GB (PCT/GB2018/051991) 2018-07-12

[21] **3,106,074**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/02 (2006.01)**  
[25] EN  
[54] **PREVENTION OR TREATMENT METHOD FOR PERIPHERAL NEUROPATHY OR PAIN ACCOMPANYING DISEASE IN WHICH PERIPHERAL NEUROPATHY OR ASTROCYTE DISORDER IS RECOGNIZED**  
[54] **METHODE DE PREVENTION OU DE TRAITEMENT DE LA NEUROPATHIE PERIPHERIQUE OU DE LA DOULEUR ACCOMPAGNANT UNE MALADIE DANS LAQUELLE UNE NEUROPATHIE PERIPHERIQUE OU UN TROUBLE ASTROCYTAIRE EST RECONNU**  
[72] ISHIDA, HAYATO, JP  
[72] ISHIDA, HIROKAZU, JP  
[72] PALUMBO, M. JOSEPH, US  
[72] SASAKI, ATSUSHI, JP  
[71] MITSUBISHI TANABE PHARMA CORPORATION, JP  
[85] 2021-01-08  
[86] 2019-07-10 (PCT/JP2019/027370)  
[87] (WO2020/013238)  
[30] US (62/696,052) 2018-07-10

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[21] **3,106,075**  
[13] A1

[51] **Int.Cl. A61K 31/315 (2006.01) A01N 65/22 (2009.01) A01N 65/36 (2009.01) A61K 8/34 (2006.01) A61K 8/86 (2006.01) A61K 9/06 (2006.01)**

[25] EN

[54] **BOTANICAL FILM-FORMING ACNE COMPOSITIONS**

[54] **COMPOSITIONS FILMOGENES BOTANIQUEES ANTI-ACNE**

[72] MODAK, SHANTA M., US

[72] DE SILVA, CHATHURANGA C., US

[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2021-01-08

[86] 2019-05-17 (PCT/US2019/032832)

[87] (WO2019/240908)

[30] US (62/684,030) 2018-06-12

[21] **3,106,076**  
[13] A1

[51] **Int.Cl. G06T 5/00 (2006.01) H04N 5/355 (2011.01) H04N 19/85 (2014.01)**

[25] EN

[54] **COMPRESSED HIGH DYNAMIC RANGE VIDEO**

[54] **SYSTEME DE VIDEO COMPRIMEE A GRANDE GAMME DYNAMIQUE**

[72] KISER, WILLIE C., US

[72] TOCCI, MICHAEL D., US

[72] TOCCI, NORA, US

[71] CONTRAST, INC., US

[85] 2021-01-08

[86] 2019-06-03 (PCT/US2019/035109)

[87] (WO2019/236439)

[30] US (62/680,242) 2018-06-04

[21] **3,106,077**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/395 (2006.01) A61P 43/00 (2006.01) A61Q 11/00 (2006.01) C07K 16/06 (2006.01)**

[25] EN

[54] **THERAPIES FOR TREATING ORAL MUCOSITIS WITH POLYCLONAL ANTI-TNFALPHA ANTIBODIES**

[54] **THERAPIES POUR LE TRAITEMENT DE LA MUCOSITE BUCCALE A L'AIDE D'ANTICORPS ANTI-TNFA POLYCLONAUX**

[72] LANDON, JOHN, GB

[72] COXON, RUTH ELIZABETH, GB

[71] MICROPHARM LIMITED, GB

[85] 2021-01-08

[86] 2019-07-29 (PCT/GB2019/052120)

[87] (WO2020/021289)

[30] GB (1812261.4) 2018-07-27

[21] **3,106,079**  
[13] A1

[51] **Int.Cl. C07K 16/06 (2006.01) A61K 9/00 (2006.01) A61P 43/00 (2006.01) C07K 16/24 (2006.01)**

[25] EN

[54] **THERAPIES FOR TREATING PROCTITIS WITH POLYCLONAL ANTI-TNFALPHA ANTIBODIES**

[54] **THERAPIES POUR LE TRAITEMENT DE LA PROCTITE PAR DES ANTICORPS ANTI-TNFALPHA POLYCLONAUX**

[72] LANDON, JOHN, GB

[72] COXON, RUTH ELIZABETH, GB

[71] MICROPHARM LIMITED, GB

[85] 2021-01-08

[86] 2019-07-29 (PCT/GB2019/052121)

[87] (WO2020/021290)

[30] GB (1812262.2) 2018-07-27

[21] **3,106,080**  
[13] A1

[51] **Int.Cl. C07K 5/078 (2006.01) A61K 31/12 (2006.01) A61K 33/30 (2006.01)**

[25] EN

[54] **NOVEL POLYMORPHIC FORMS OF CYCLO (-HIS-PRO)**

[54] **NOUVELLES FORMES POLYMORPHES DE CYCLO (-HIS-PRO)**

[72] OLMSTEAD, KAY, US

[72] PEARSON, DAVID, GB

[72] MCPHERSON, ELAINE, GB

[71] NOVOMETAPHARMA CO., LTD., KR

[85] 2021-01-08

[86] 2019-06-21 (PCT/US2019/038391)

[87] (WO2020/013974)

[30] US (62/696,190) 2018-07-10

[21] **3,106,081**  
[13] A1

[51] **Int.Cl. C04B 26/00 (2006.01) C04B 20/10 (2006.01) C04B 24/00 (2006.01) C04B 28/00 (2006.01) C04B 28/02 (2006.01) C04B 28/10 (2006.01) C04B 41/49 (2006.01) C12N 11/14 (2006.01) C04B 20/00 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING AT LEAST ONE MICROORGANISM AND USE THEREOF**

[54] **COMPOSITION COMPRENANT AU MOINS UN MICRO-ORGANISME ET SON UTILISATION**

[72] MULLER, TOBIAS, DE

[72] HINTERMAYER, SARAH, DE

[72] HELLRIEGEL, JAN, DE

[72] MARTENS-KRUCK, SUSANNE CHRISTINE, DE

[72] HAAS, ISABELLE, DE

[72] MOLCK, STELLA, DE

[72] KLOSTER, MAGNUS, DE

[72] REINSCHMIDT, ANKE, DE

[72] FALKE, LUKAS, DE

[72] STANNEK-GOEBEL, LORENA, DE

[71] EVONIK OPERATIONS GMBH, DE

[85] 2021-01-08

[86] 2019-07-08 (PCT/EP2019/068229)

[87] (WO2020/011703)

[30] EP (18182870.8) 2018-07-11

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[21] **3,106,082**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01) B60T 1/00 (2006.01)**  
[25] EN  
[54] **BRAKE DISC MOUNTING ARRANGEMENT**  
[54] **AGENCEMENT DE MONTAGE DE DISQUE DE FREIN**  
[72] SABETI, MANOUCHEHR, US  
[72] SEAMAN, JAMES, US  
[71] BENDIX SPICER FOUNDATION BRAKE LLC, US  
[85] 2021-01-08  
[86] 2019-07-02 (PCT/US2019/040260)  
[87] (WO2020/018274)  
[30] US (16/041,252) 2018-07-20

[21] **3,106,083**  
[13] A1

[51] **Int.Cl. F04B 19/02 (2006.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01) F04B 7/06 (2006.01) F04B 9/04 (2006.01) F04B 9/06 (2006.01) F15B 15/06 (2006.01)**  
[25] EN  
[54] **RECIPROCATING PUMP**  
[54] **POMPE ALTERNATIVE**  
[72] GYORY, J. RICHARD, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[85] 2021-01-08  
[86] 2019-07-10 (PCT/US2019/041130)  
[87] (WO2020/018322)  
[30] US (16/041,068) 2018-07-20

[21] **3,106,084**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01) B60T 1/06 (2006.01) F16D 49/00 (2006.01) F16D 55/00 (2006.01) F16D 65/00 (2006.01)**  
[25] EN  
[54] **BRAKE DISC MOUNTING ARRANGEMENT**  
[54] **AGENCEMENT DE MONTAGE DE DISQUE DE FREIN**  
[72] SABETI, MANOUCHEHR, US  
[72] SEAMAN, JAMES, US  
[71] BENDIX SPICER FOUNDATION BRAKE LLC, US  
[85] 2021-01-08  
[86] 2019-07-02 (PCT/US2019/040274)  
[87] (WO2020/018275)  
[30] US (16/041,266) 2018-07-20

[21] **3,106,086**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01)**  
[25] EN  
[54] **BRAKE DISC MOUNTING ARRANGEMENT**  
[54] **AGENCEMENT DE MONTAGE DE DISQUE DE FREIN**  
[72] SABETI, MANOUCHEHR, US  
[72] SEAMAN, JAMES, US  
[71] BENDIX SPICER FOUNDATION BRAKE LLC, US  
[85] 2021-01-08  
[86] 2019-07-02 (PCT/US2019/040281)  
[87] (WO2020/018277)  
[30] US (16/041,281) 2018-07-20

[21] **3,106,087**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01) B62L 1/00 (2006.01) B62L 1/02 (2006.01)**  
[25] EN  
[54] **BRAKE DISC MOUNTING ARRANGEMENT**  
[54] **AGENCEMENT DE MONTAGE DE DISQUE DE FREIN**  
[72] SABETI, MANOUCHEHR, US  
[72] SEAMAN, JAMES, US  
[71] BENDIX SPICER FOUNDATION BRAKE LLC, US  
[85] 2021-01-08  
[86] 2019-07-02 (PCT/US2019/040290)  
[87] (WO2020/018278)  
[30] US (16/041,292) 2018-07-20

[21] **3,106,089**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 5/10 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING .GAMMA..DELTA.T CELLS**  
[54] **PROCEDE DE PRODUCTION DE LYMPHOCYTES T ?D**  
[72] KANEKO, SHIN, JP  
[72] IRIGUCHI, SHOICHI, JP  
[72] UEDA, TATSUKI, JP  
[72] KASSAI, YOSHIAKI, JP  
[72] HAYASHI, AKIRA, JP  
[72] NAKAYAMA, KAZUHIDE, JP  
[71] KYOTO UNIVERSITY, JP  
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP  
[85] 2021-01-08  
[86] 2019-07-12 (PCT/JP2019/027697)  
[87] (WO2020/013315)  
[30] JP (2018-133727) 2018-07-13  
[30] JP (2019-117891) 2019-06-25

[21] **3,106,090**  
[13] A1

[51] **Int.Cl. C09D 13/00 (2006.01) B43K 19/02 (2006.01)**  
[25] EN  
[54] **PENCIL LEAD**  
[54] **MINE DE CRAYON**  
[72] MIURA, TAKAHIRO, JP  
[71] PENTEL KABUSHIKI KAISHA, JP  
[85] 2021-01-08  
[86] 2019-07-30 (PCT/JP2019/029866)  
[87] (WO2020/036059)  
[30] JP (2018-153363) 2018-08-17

[21] **3,106,092**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 33/10 (2006.01)**  
[25] EN  
[54] **ANTHELMINTHIC HETEROCYCLIC COMPOUNDS**  
[54] **COMPOSES HETEROCYCLIQUES ANTHELMINTHIQUES**  
[72] LONG, ALAN, US  
[72] LEE, HYOUNG, US  
[72] KOOLMAN, HANNES FIEPKO, DE  
[71] BOEHRINGER INGELHEIM PHARMA GMBH & CO. KG, DE  
[71] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US  
[85] 2021-01-08  
[86] 2019-07-03 (PCT/US2019/040509)  
[87] (WO2020/014068)  
[30] US (62/695,656) 2018-07-09

[21] **3,106,093**  
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) C12N 15/113 (2010.01) A61K 38/20 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/54 (2006.01)**  
[25] EN  
[54] **ANTI-TUMOR COMPOSITION**  
[54] **COMPOSITION ANTI-TUMORALE**  
[72] YUN, CHAE OK, KR  
[72] OH, EON JU, KR  
[71] GENEMEDICINE CO., LTD., KR  
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[25] EN  
[54] **ROBOTIC APPLICATORS IN AN ASSEMBLY LINE GROW POD AND METHODS OF PROVIDING FLUIDS AND SEEDS VIA ROBOTIC APPLICATORS**  
[54] **APPLICATEURS ROBOTIQUES DANS UN MODULE DE CULTURE DE CHAINE D'ASSEMBLAGE ET PROCEDES PERMETTANT DE FOURNIR DES FLUIDES ET DES SEMENCES PAR L'INTERMEDIAIRE D'APPLICATEURS ROBOTIQUES**  
[72] MILLAR, GARY BRET, US  
[72] WIRIG, MICHAEL TYLER, US  
[71] GROW SOLUTIONS TECH LLC, US  
[85] 2021-01-08  
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[87] (WO2020/018800)  
[30] US (62/699,768) 2018-07-18

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[51] **Int.Cl. E21B 25/18 (2006.01)**  
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[54] **SUCTION-ACTIVATED CORE CATCHER AND RELATED METHODS**  
[54] **EXTRACTEUR DE CAROTTE ACTIVE PAR ASPIRATION ET PROCEDES ASSOCIES**  
[72] TYDELSKI, MATTHEW, US  
[71] BENTHIC USA LLC, US  
[85] 2021-01-08  
[86] 2019-08-01 (PCT/US2019/044625)  
[87] (WO2020/028640)  
[30] US (62/713,842) 2018-08-02

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[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01) A61K 11/00 (2006.01)**  
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[54] **WHITENING COMPOSITIONS AND METHODS FOR THE SAME**  
[54] **COMPOSITIONS DE BLANCHIMENT ET PROCEDES POUR CELLES-CI**  
[72] HUANG, CHUN, US  
[72] XU, GUOFENG, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2021-01-08  
[86] 2019-08-08 (PCT/US2019/045674)  
[87] (WO2020/033661)  
[30] US (62/717,019) 2018-08-10

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[54] **HARNESS CONNECTION ARRANGEMENT**  
[54] **AGENCEMENT DE RACCORDEMENT DE HARNAIS**  
[72] SEPE, BENJAMIN T., US  
[72] JACOB, MATTHEW FREDERICK, US  
[72] QUIGLEY, MATTHEW, US  
[71] MSA TECHNOLOGY, LLC, US  
[85] 2021-01-08  
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[30] US (62/695,398) 2018-07-09  
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[51] **Int.Cl. G02B 23/16 (2006.01) G06K 9/32 (2006.01)**  
[25] EN  
[54] **OPTICAL OPEN LOOP POINTING TEST METHOD USING CELESTIAL BODIES**  
[54] **PROCEDE D'ESSAI DE POINTAGE EN BOUCLE OUVERTE OPTIQUE A L'AIDE DE CORPS CELESTES**  
[72] POWERS, MICHAEL J., US  
[71] BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC., US  
[85] 2021-01-08  
[86] 2019-07-10 (PCT/US2019/041149)  
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[13] A1

[51] **Int.Cl. G01N 1/28 (2006.01) G01N 1/30 (2006.01) G01N 35/10 (2006.01)**  
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[54] **AUTOMATED SAMPLE DEPOSITION AND STAINING SYSTEMS AND ASSOCIATED METHODS**  
[54] **SYSTEMES DE DEPOT ET DE COLORATION D'ECHANTILLON AUTOMATISES ET PROCEDES ASSOCIES**  
[72] VERLEYE, MICHAEL, US  
[72] LITOW, MICAH, US  
[72] DERBAS, JUSTIN, US  
[72] ROZHOK, SERGEY, US  
[72] HART, JOHN, US  
[72] HENDERSON, CHESTER, AU  
[72] BARTEL, REBECCA, AU  
[72] RAY, NATHAN, AU  
[72] WHITE, ANTHONY, AU  
[72] SUBRAMANIAN, HARIHARAN, US  
[71] NANOCYTOMICS, LLC, US  
[71] NORTHWESTERN UNIVERSITY, US  
[85] 2021-01-08  
[86] 2019-07-10 (PCT/US2019/041150)  
[87] (WO2020/014323)  
[30] US (62/696,119) 2018-07-10

[21] **3,106,105**  
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[51] **Int.Cl. A61K 31/192 (2006.01) A61B 8/12 (2006.01) A61K 31/11 (2006.01) A61P 31/04 (2006.01)**  
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[54] **METHODS OF DIAGNOSING AND TREATING INFECTED IMPLANTS**  
[54] **METHODES DE DIAGNOSTIC ET DE TRAITEMENT D'IMPLANTS INFECTES**  
[72] JOHNSON, LANNY LEO, US  
[71] JOHNSON, LANNY LEO, US  
[85] 2021-01-08  
[86] 2019-08-08 (PCT/US2019/045693)  
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[54] **SOLID COMPOSITIONS FOR TEETH WHITENING AND ANTI-MICROBIAL EFFECTS**

[54] **COMPOSITIONS SOLIDES POUR LE BLANCHIMENT DES DENTS ET LES EFFETS ANTIMICROBIENS**

[72] HUANG, CHUN, US

[72] PIMENTA, PALOMA, US

[72] RINAUDI MARRON, LUCIANA, US

[72] BANERJEE, INDRANI, US

[72] DONG, RONG, US

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2021-01-08

[86] 2019-08-09 (PCT/US2019/045843)

[87] (WO2020/033793)

[30] US (62/717,022) 2018-08-10

[21] **3,106,108**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/04 (2006.01) C07K 16/08 (2006.01) C07K 16/12 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 9/96 (2006.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS RELATED TO ENGINEERED FC-ANTIGEN BINDING DOMAIN CONSTRUCTS TARGETED TO PD-L1**

[54] **COMPOSITIONS ET PROCÉDES SE RAPPORTANT A DES CONSTRUCTIONS DE DOMAINE DE LIAISON FC-ANTIGÈNE MODIFIÉES CIBLANT PD-L1**

[72] RUTITZKY, LAURA, US

[72] LANSING, JONATHAN C., US

[72] ORTIZ, DANIEL, US

[72] MANNING, ANTHONY, US

[71] MOMENTA PHARMACEUTICALS, INC., US

[85] 2021-01-08

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[30] US (62/696,711) 2018-07-11

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[13] A1

[51] **Int.Cl. C11D 3/30 (2006.01) D06L 4/657 (2017.01) C11D 3/00 (2006.01) C11D 3/37 (2006.01) C11D 11/00 (2006.01) D06L 1/04 (2006.01) D06M 13/00 (2006.01) D06M 13/332 (2006.01)**

[25] EN

[54] **TREATMENT COMPOSITIONS COMPRISING LOW LEVELS OF AN OLIGOAMINE**

[54] **COMPOSITIONS DE TRAITEMENT COMPRENANT DE FAIBLES TAUX D'UNE OLIGOAMINE**

[72] RANDALL, SHERRI, LYNN, US

[72] MELI, FABRIZIO, US

[72] MIRACLE, GREGORY, SCOT, US

[72] STENGER, PATRICK, CHRISTOPHER, US

[72] VETTER, KERRY, ANDREW, US

[72] BIANCHETTI, GIULIA, OTTAVIA, BE

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2021-01-08

[86] 2019-08-14 (PCT/US2019/046479)

[87] (WO2020/041062)

[30] EP (18190606.6) 2018-08-24

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[13] A1

[51] **Int.Cl. A61K 31/522 (2006.01) A61K 47/55 (2017.01) A61K 31/7084 (2006.01)**

[25] EN

[54] **COMPOUNDS, COMPOSITIONS, AND METHODS FOR THE TREATMENT OF DISEASE**

[54] **COMPOSES, COMPOSITIONS ET PROCÉDES POUR LE TRAITEMENT D'UNE MALADIE**

[72] MEHER, GEETA, US

[72] CHALLA, SREERUPA, US

[72] ZHOU, SHENGHUA, US

[72] IYER, RADHAKRISHNAN P., US

[71] SPEROVIE BIOSCIENCES, INC., US

[85] 2021-01-08

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[87] (WO2020/014127)

[30] US (62/695,997) 2018-07-10

[21] **3,106,111**  
[13] A1

[51] **Int.Cl. F21V 21/35 (2006.01) F21V 23/02 (2006.01) F21V 23/06 (2006.01) H01R 33/00 (2006.01) H05B 7/10 (2006.01)**

[25] EN

[54] **MOUNTING ASSEMBLY FOR INSTALLATION OF POWERED MODULE**

[54] **ENSEMBLE DE MONTAGE POUR L'INSTALLATION D'UN MODULE ALIMENTÉ**

[72] RAFFERTY, DEBRA, US

[72] VALE, FRANK, US

[71] EMOOV, LLC, US

[85] 2021-01-08

[86] 2019-07-19 (PCT/US2019/042529)

[87] (WO2020/018870)

[30] US (62/701,207) 2018-07-20

[30] US (62/752,765) 2018-10-30

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[13] A1

[51] **Int.Cl. H01P 11/00 (2006.01) H01P 1/20 (2006.01)**

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[54] **FREQUENCY-SELECTIVE PLANAR RADIO FILTER**

[54] **FILTRE RADIO PLAN SELECTIF EN FREQUENCE**

[72] MARKLEY, LOIC, CA

[72] JAWAD, NIBIRH, CA

[72] GAUCHER, ANDREW JOSEPH WILLIAM, CA

[71] CLD WESTERN PROPERTY HOLDINGS LTD., CA

[85] 2021-01-11

[86] 2019-07-11 (PCT/CA2019/050956)

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[13] A1

[51] **Int.Cl. E05B 63/00 (2006.01)**  
[25] EN  
[54] **LOCK TONGUE MECHANISM AND LOCK TONGUE ACCOMMODATING MECHANISM**  
[54] **MECANISME DE LANGUETTE DE VERROUILLAGE ET MECANISME DE RECEPTION DE LANGUETTE DE VERROUILLAGE**  
[72] LEE, TSUI MAN, CN  
[71] LEE, TSUI MAN, CN  
[85] 2021-01-11  
[86] 2018-07-09 (PCT/CN2018/094941)  
[87] (WO2020/010483)

[21] **3,106,114**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/46 (2006.01)**  
[25] EN  
[54] **ANTI-CD112R COMPOSITIONS AND METHODS**  
[54] **COMPOSITIONS ANTI-CD112R ET PROCEDES**  
[72] PRINZ, BIANKA, US  
[72] BOLAND, NADTHAKARN, US  
[72] SCHUTZ, KEVIN, US  
[72] BUKOWSKI, JOHN, US  
[72] SYMONDS, JENNIFER, US  
[72] MOHAN, JAMES, US  
[72] SICHEVA, MARISELLA PANDURO, US  
[71] SURFACE ONCOLOGY, INC., US  
[85] 2021-01-08  
[86] 2019-07-19 (PCT/US2019/042545)  
[87] (WO2020/018879)  
[30] US (62/701,065) 2018-07-20  
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[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 15/09 (2006.01) C12P 21/08 (2006.01) C40B 40/08 (2006.01) C40B 40/10 (2006.01)**  
[25] EN  
[54] **ANTIBODY LIBRARIES WITH MAXIMIZED ANTIBODY DEVELOPABILITY CHARACTERISTICS**  
[54] **BANQUES D'ANTICORPS AYANT DES CARACTERISTIQUES MAXIMISEES D'APTITUDE AU DEVELOPPEMENT D'ANTICORPS**  
[72] BRADBURY, ANDREW RAYMON MORTON, US  
[72] ERASMUS, MICHAEL FRANK, US  
[72] TEIXEIRA, ANDRE, US  
[71] SPECIFICA INC., US  
[85] 2021-01-08  
[86] 2019-07-08 (PCT/US2019/040843)  
[87] (WO2020/014143)  
[30] US (62/695,065) 2018-07-08  
[30] US (62/822,671) 2019-03-22

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[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**  
[25] EN  
[54] **ANTI-ABETA ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF AND APPLICATION THEREOF**  
[54] **ANTICORPS ANTI-ABETA, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET SON APPLICATION**  
[72] YING, HUA, CN  
[72] ZHANG, LING, CN  
[72] SHI, JINPING, CN  
[72] ZHANG, XIAOMIN, CN  
[72] SUN, JIAKANG, CN  
[72] HU, QIYUE, CN  
[72] TAO, WEIKANG, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CH  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2021-01-11  
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[87] (WO2020/015637)  
[30] CN (201810782196.2) 2018-07-17

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[51] **Int.Cl. G08G 1/16 (2006.01) H04W 8/20 (2009.01) H04W 84/18 (2009.01) H04W 4/80 (2018.01) G08B 21/02 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR ACKNOWLEDGING PRESENCE IN A CONTEXT-AWARE ENVIRONMENT**  
[54] **PROCEDE ET SYSTEME PERMETTANT D'ACCUSER RECEPTION D'UNE PRESENCE DANS UN ENVIRONNEMENT SENSIBLE AU CONTEXTE**  
[72] CERVINKA, ALEXANDRE, CA  
[72] BOUCHARD, MARTIN, CA  
[71] NEWTRAX HOLDINGS INC., CA  
[85] 2021-01-11  
[86] 2019-07-23 (PCT/CA2019/051016)  
[87] (WO2020/019071)  
[30] US (62/702,313) 2018-07-23

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[13] A1

[51] **Int.Cl. C07D 213/56 (2006.01) C07D 401/04 (2006.01) C07D 417/14 (2006.01)**  
[25] EN  
[54] **IMPROVED COMPOUNDS FOR MYC INHIBITION**  
[54] **COMPOSES AMELIORES POUR L'INHIBITION DE MYC**  
[72] JANDA, KIM D., US  
[71] THE SCRIPPS RESEARCH INSTITUTE, US  
[85] 2021-01-08  
[86] 2019-07-08 (PCT/US2019/040844)  
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[30] US (62/695,496) 2018-07-09

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[51] **Int.Cl. A61B 90/50 (2016.01) A61B 50/28 (2016.01) F16D 49/16 (2006.01) F16D 65/06 (2006.01) F16M 11/08 (2006.01) F16M 13/02 (2006.01)**

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[54] **BRAKE ASSEMBLY FOR MEDICAL DEVICE SUPPORT SYSTEM**

[54] **ENSEMBLE FREIN POUR SYSTEME DE SUPPORT DE DISPOSITIF MEDICAL**

[72] BELLOWS, LANCE CLARK, US  
[72] MOHR, CHRISTOPHER ROY, US  
[71] AMERICAN STERILIZER COMPANY, US

[85] 2021-01-08  
[86] 2019-07-22 (PCT/US2019/042732)  
[87] (WO2020/023327)

[30] US (62/702,943) 2018-07-25  
[30] US (62/702,946) 2018-07-25  
[30] US (62/702,947) 2018-07-25  
[30] US (62/702,948) 2018-07-25  
[30] US (62/799,096) 2019-01-31  
[30] US (62/799,100) 2019-01-31  
[30] US (62/799,113) 2019-01-31  
[30] US (62/799,202) 2019-01-31  
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[30] US (62/828,090) 2019-04-02

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[51] **Int.Cl. C07D 401/12 (2006.01) A61P 9/10 (2006.01) A61P 11/00 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING COAGULATION FACTOR XIA INHIBITOR AND INTERMEDIATE THEREOF**

[54] **PROCEDE DE PREPARATION D'UN INHIBITEUR DU FACTEUR XIA DE COAGULATION ET INTERMEDIAIRE DE CELUI-CI**

[72] XI, ZHUOXUN, CN  
[72] FENG, YINGQIANG, CN  
[72] FENG, JUN, CN  
[72] HE, FENG, CN  
[72] HUANG, JIAN, CN  
[72] MAO, YANLI, CN  
[72] WANG, YONG, CN  
[72] GUAN, ZHONGJUN, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN

[85] 2021-01-11  
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[30] CN (201810796646.3) 2018-07-19

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[13] A1

[51] **Int.Cl. G01N 15/00 (2006.01) G01N 15/14 (2006.01) G01N 21/17 (2006.01)**

[25] EN

[54] **SYSTEM, APPARATUS AND METHOD FOR OFF-AXIS ILLUMINATION IN FLOW CYTOMETRY**

[54] **SYSTEME, APPAREIL ET PROCEDE D'ECLAIRAGE HORS AXE EN CYTOMETRIE DE FLUX**

[72] VAN DEN ENGH, GERRIT JAN, US  
[71] VAN DEN ENGH, GERRIT JAN, US

[85] 2021-01-08  
[86] 2019-07-09 (PCT/US2019/040942)  
[87] (WO2020/014187)  
[30] US (62/695,937) 2018-07-10

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[13] A1

[51] **Int.Cl. H04W 36/00 (2009.01)**

[25] EN

[54] **COMMUNICATION METHOD AND APPARATUS**

[54] **PROCEDE ET DISPOSITIF DE COMMUNICATION**

[72] LI, HUAN, CN  
[72] ZHU, HUALIN, CN  
[72] OUYANG, GUOWEI, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-01-11  
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[87] (WO2020/063316)  
[30] CN (201811154454.9) 2018-09-30

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[13] A1

[51] **Int.Cl. A21C 11/00 (2006.01)**

[25] EN

[54] **IMPROVED FOOD DOUGH-STRETCHING MACHINE**

[54] **MACHINE AMELIOREE D'ETIRAGE DE PATE ALIMENTAIRE**

[72] DALLA FONTANA, ENRICO, IT  
[72] SMIDERLE, LUCA, IT  
[71] ECOR INTERNATIONAL SPA, IT

[85] 2021-01-07  
[86] 2019-07-26 (PCT/IB2019/056391)  
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[30] IT (102018000007562) 2018-07-27



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[13] A1

[51] **Int.Cl. C07D 401/06 (2006.01)**  
[25] EN  
[54] **CHEMICAL PROCESS FOR PREPARING PHENYLPIPERIDINYL INDOLE DERIVATIVES**

[54] **PROCEDE CHIMIQUE POUR LA PREPARATION DE DERIVES DE PHENYLPIPERIDINYL INDOLE**

[72] FU, PENG, CN  
[72] GAI, YU, CN  
[72] GAO, FENG, CN  
[72] KONG, WEIYONG, CN  
[72] LU, YADONG, CN  
[72] MIN, ZHONGCHENG, CN  
[72] RONG, SHAOFENG, CN  
[72] SHU, CHUTIAN, CN  
[72] WANG, CAN, CN  
[72] WANG, RUIDONG, CN  
[72] ZHAO, JIBIN, CN  
[72] ZHAO, XIANGLIN, CN  
[72] ZHAO, YI, CN  
[72] ZHOU, JIANGUANG, CN  
[72] MARTIN, BENJAMIN, CH  
[71] NOVARTIS AG, CH  
[85] 2020-12-30  
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[87] (WO2020/016749)

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[51] **Int.Cl. H04N 19/86 (2014.01) H04N 19/174 (2014.01)**  
[25] EN  
[54] **INTER PREDICTION METHOD AND APPARATUS**

[54] **PROCEDE ET DISPOSITIF DE PREDICTION INTER-TRAMES**

[72] XU, WEIWEI, CN  
[72] YANG, HAITAO, CN  
[72] ZHAO, YIN, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2021-01-11  
[86] 2019-09-20 (PCT/CN2019/107060)  
[87] (WO2020/057648)  
[30] CN (201811109950.2) 2018-09-21  
[30] CN (PCT/CN2018/109233) 2018-10-01  
[30] CN (201811303754.9) 2018-11-02

[21] **3,106,126**  
[13] A1

[51] **Int.Cl. C10L 10/14 (2006.01) C10L 1/14 (2006.01)**  
[25] EN  
[54] **COLD FLOW ADDITIVE FOR MIDDLE DISTILLATE FUELS**

[54] **ADDITIF D'ECOULEMENT A FROID POUR COMBUSTIBLES DE DISTILLAT MOYEN**

[72] LI, XIAOJIN HARRY, US  
[72] SORIANO, NESTER U., JR., US  
[72] BODE, HEINRICH, US  
[71] ECOLAB USA INC., US  
[85] 2021-01-08  
[86] 2019-07-09 (PCT/US2019/040944)  
[87] (WO2020/014189)  
[30] US (62/696,512) 2018-07-11

[21] **3,106,127**  
[13] A1

[51] **Int.Cl. H02G 3/08 (2006.01) H01R 13/40 (2006.01) H02G 3/06 (2006.01) H02G 3/12 (2006.01) H02G 3/16 (2006.01) H02G 3/18 (2006.01)**

[25] EN  
[54] **ELECTRICAL BOX CABLE CONNECTOR**

[54] **CONNECTEUR DE CABLE DE BOITIER ELECTRIQUE**

[72] JOHNSON, STEVEN JAMES, US  
[71] HUBBELL CORPORATED, US  
[85] 2021-01-08  
[86] 2019-07-11 (PCT/US2019/041310)  
[87] (WO2020/014421)  
[30] US (62/696,647) 2018-07-11

[21] **3,106,128**  
[13] A1

[51] **Int.Cl. C07C 255/19 (2006.01) C08F 220/60 (2006.01) C09D 133/26 (2006.01)**  
[25] EN  
[54] **CH-ACIDIC METHACRYLIC ESTERS FOR THE PREPARATION OF AQUEOUS POLYMER DISPERSIONS**

[54] **ESTERS METHACRYLIQUES CH-ACIDES POUR LA PREPARATION DE DISPERSIONS POLYMERES AQUEUSES**

[72] TRESKOW, MARCEL, DE  
[72] CASPARI, MAIK, DE  
[72] SCHUTZ, THORBEN, DE  
[72] KRILL, STEFFEN, DE  
[71] EVONIK OPERATIONS GMBH, DE  
[85] 2021-01-11  
[86] 2019-07-08 (PCT/EP2019/068206)  
[87] (WO2020/016037)  
[30] EP (18183897.0) 2018-07-17

[21] **3,106,129**  
[13] A1

[51] **Int.Cl. C08G 63/672 (2006.01) C08G 63/20 (2006.01) C08L 67/02 (2006.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING A POLYESTER-POLYETHER POLYMER, A TRANSITION METAL CATALYST, AND AN ACTIVE MATERIAL**

[54] **COMPOSITION COMPRENANT UN POLYMERE POLYESTER-POLYETHER, UN CATALYSEUR A BASE DE METAL DE TRANSITION ET UN MATERIAU ACTIF**

[72] ROMEO, BERNARDO, FR  
[72] BOUKOBZA, SARAH, FR  
[71] CLARIANT PLASTICS & COATINGS LTD, CH  
[85] 2021-01-11  
[86] 2019-07-08 (PCT/EP2019/068240)  
[87] (WO2020/011704)  
[30] EP (18183387.2) 2018-07-13

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[21] **3,106,130**  
[13] A1

[51] **Int.Cl. H02K 16/02 (2006.01) H02K 21/02 (2006.01)**

[25] EN

[54] **ELECTRICAL MACHINE WITH AN AUXILIARY MOVABLE SELF-DIRECTING STATOR**

[54] **MACHINE ELECTRIQUE DOTEE D'UN STATOR AUTO-DIRECTEUR MOBILE AUXILIAIRE**

[72] HRISTOV, ALEXANDER  
ISKRENOV, BE

[72] HRISTOV, GEORGI ISKRENOV, BG

[72] HRISTOV, PLAMEN ISKRENOV, BG

[71] HRISTOV, ALEXANDER  
ISKRENOV, BG

[71] HRISTOV, GEORGI ISKRENOV, BG

[71] HRISTOV, PLAMEN ISKRENOV, BG

[85] 2020-12-30

[86] 2019-07-01 (PCT/IB2019/055551)

[87] (WO2020/008319)

[30] BG (112762) 2018-07-02

[21] **3,106,131**  
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/519 (2006.01) A61P 25/04 (2006.01) C07D 471/14 (2006.01) C07D 487/14 (2006.01) C07D 491/22 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **P2X3 RECEPTOR ANTAGONISTS**

[54] **ANTAGONISTES DU RECEPTEUR P2X3**

[72] GRAZIANI, DAVIDE, IT

[72] MENEGON, SERGIO, IT

[72] ANGELICO, PATRIZIA, IT

[72] RIVA, CARLO, IT

[71] RECORDATI INDUSTRIA CHIMICA E FARMACEUTICA SPA, IT

[85] 2021-01-11

[86] 2019-07-11 (PCT/EP2019/068681)

[87] (WO2020/011921)

[30] GB (1811452.0) 2018-07-12

[21] **3,106,133**  
[13] A1

[51] **Int.Cl. A47L 7/00 (2006.01) A47L 9/14 (2006.01)**

[25] EN

[54] **A PARTICLE RECEIVING DEVICE, ARRANGEMENT AND METHOD FOR OPERATING AN ARRANGEMENT**

[54] **DISPOSITIF DE RECEPTION DE PARTICULES, ENSEMBLE ET PROCEDE POUR FAIRE FONCTIONNER UN ENSEMBLE**

[72] GREBING, GERHARD, DE

[71] FESTOOL GMBH, DE

[85] 2021-01-11

[86] 2019-07-10 (PCT/EP2019/068490)

[87] (WO2020/011828)

[30] DE (10 2018 211 710.1) 2018-07-13

[21] **3,106,134**  
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01) H01R 35/04 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **ELECTRONIC AEROSOL PROVISION SYSTEM**

[54] **SYSTEME ELECTRONIQUE DE FOURNITURE D'AEROSOL**

[72] KOZLOWSKI, MARCIN, PL

[72] JAKOBCZYK, ADRIAN, PL

[72] ZIELAZEK, PAWEL, PL

[72] GRABOWSKI, LUKASZ, PL

[72] SZYKOWNY, ANDRZEJ CEZARY, PL

[72] MILEWSKI, LUKASZ, PL

[71] ESMOKING INSTITUTE SP. Z O.O., PL

[85] 2021-01-11

[86] 2019-07-15 (PCT/EP2019/069024)

[87] (WO2020/016184)

[30] PL (P.426350) 2018-07-18

[21] **3,106,135**  
[13] A1

[51] **Int.Cl. B29C 70/10 (2006.01) B29B 15/10 (2006.01) B29C 70/22 (2006.01) B29C 70/42 (2006.01) B29C 70/54 (2006.01) B32B 7/06 (2019.01)**

[25] FR

[54] **PEELABLE SHIM HAVING INCREASED STRENGTH**

[54] **CALE PELABLE A RESISTANCE ACCRUE**

[72] GASTEL, DANIEL ANDRE, FR

[71] SOCIETE LAMECO, FR

[85] 2021-01-11

[86] 2019-07-10 (PCT/EP2019/068634)

[87] (WO2020/011899)

[30] FR (1856368) 2018-07-11

[21] **3,106,136**  
[13] A1

[51] **Int.Cl. B01D 21/26 (2006.01) B04B 5/04 (2006.01) G01N 33/49 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR PLASMA SEPARATION AND STORAGE**

[54] **DISPOSITIFS ET PROCEDES DE SEPARATION DE PLASMA ET DE STOCKAGE**

[72] SCHAFF, ULRICH, US

[72] HONG, KYUNGJIN, US

[72] FREDRIKSEN, LAURA, US

[72] IACOVETTI, GABRIELLA, US

[72] EPPERSON, JON, US

[72] RAHIMIAN, ALI, US

[72] SOMMER, GREG, US

[72] HONG, SEAN, US

[72] KENDALL, ERIC, US

[71] SANDSTONE DIAGNOSTICS, INC., US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/040945)

[87] (WO2020/014190)

[30] US (62/695,387) 2018-07-09

[30] US (62/715,213) 2018-08-06

[30] US (62/719,626) 2018-08-18

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[21] **3,106,138**  
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 25/01 (2006.01)**  
[25] EN  
[54] **CATHETER AND TUBE INTRODUCER**  
[54] **CATHETER ET DISPOSITIF D'INTRODUCTION DE TUBE**  
[72] SCHMITZ, CHRISTOPH, CA  
[71] PATCOM MEDICAL INC., CA  
[85] 2020-11-06  
[86] 2019-05-30 (PCT/IB2019/054502)  
[87] (WO2019/229703)  
[30] US (62/679,490) 2018-06-01  
[30] US (16/420,019) 2019-05-22

[21] **3,106,140**  
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 9/00 (2006.01) A61M 5/00 (2006.01)**  
[25] EN  
[54] **HIGHLY CONCENTRATED FORMULATIONS AND METHODS FOR PRODUCING LARGE BATCH PHARMACEUTICAL FORMULATIONS**  
[54] **FORMULATIONS HAUTEMENT CONCENTREES ET PROCEDES DE PRODUCTION DE FORMULATIONS PHARMACEUTIQUES EN LOTS DE GRANDE TAILLE**  
[72] CREATURO, MICHAEL A., US  
[71] PARENTERAL TECHNOLOGIES, LLC, US  
[85] 2021-01-08  
[86] 2019-07-11 (PCT/US2019/041319)  
[87] (WO2020/014426)  
[30] US (62/696,598) 2018-07-11  
[30] US (62/798,604) 2019-01-30  
[30] US (62/840,572) 2019-04-30

[21] **3,106,142**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS RELATED TO ENGINEERED FC-ANTIGEN BINDING DOMAIN CONSTRUCTS TARGETED TO CD38**  
[54] **COMPOSITIONS ET PROCEDES ASSOCIES A DES CONSTRUCTIONS A DOMAINE DE LIAISON A L'ANTIGENE FC MANIPULE CIBLEES VERS CD38**  
[72] MANNING, ANTHONY, US  
[72] CHOUDHURY, AMIT, US  
[72] ORITZ, DANIEL, US  
[72] LANSING, JONATHAN C., US  
[71] MOMENTA PHARMACEUTICALS, INC., US  
[85] 2021-01-08  
[86] 2019-07-11 (PCT/US2019/041468)  
[87] (WO2020/014526)  
[30] US (62/696,759) 2018-07-11  
[30] US (62/733,036) 2018-09-18  
[30] US (62/744,067) 2018-10-10

[21] **3,106,143**  
[13] A1

[51] **Int.Cl. C12N 1/36 (2006.01) C12N 15/113 (2010.01) A61K 35/74 (2015.01) A61P 35/00 (2006.01) C07K 14/55 (2006.01)**  
[25] EN  
[54] **ENGINEERED IMMUNOSTIMULATORY BACTERIAL STRAINS AND USES THEREOF**  
[54] **SOUCHES BACTERIENNES IMMUNOSTIMULATRICES MODIFIEES ET UTILISATIONS ASSOCIEES**  
[72] THANOS, CHRISTOPHER D., US  
[72] GLICKMAN, LAURA HIX, US  
[72] SKOBLE, JUSTIN, US  
[72] IANNELLO, ALEXANDRE CHARLES MICHEL, US  
[71] ACTYM THERAPEUTICS, INC., US  
[85] 2021-01-08  
[86] 2019-07-11 (PCT/US2019/041489)  
[87] (WO2020/014543)  
[30] US (PCT/US2018/041713) 2018-07-11  
[30] US (16/033,187) 2018-07-11  
[30] US (62/789,983) 2019-01-08  
[30] US (62/828,990) 2019-04-03

[21] **3,106,145**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A01N 43/40 (2006.01) A01N 43/52 (2006.01)**  
[25] EN  
[54] **PESTICIDAL MIXTURES COMPRISING INDAZOLES**  
[54] **MELANGES PESTICIDES COMPRENANT DES INDAZOLES**  
[72] ZHANG, WENMING, US  
[71] FMC CORPORATION, US  
[85] 2021-01-08  
[86] 2019-07-12 (PCT/US2019/041547)  
[87] (WO2020/018362)  
[30] US (62/698,035) 2018-07-14  
[30] US (62/778,992) 2018-12-13

[21] **3,106,146**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01)**  
[25] EN  
[54] **VARIANTS OF CD38 ANTIBODY AND USES THEREOF**  
[54] **VARIANTS D'ANTICORPS CD38 ET LEURS UTILISATIONS**  
[72] DE GOEIJ, BART E. C. G., NL  
[72] ANDRINGA, GRIETJE, NL  
[72] BEURSKENS, FRANK, NL  
[72] SCHUURMAN, JANINE, NL  
[72] SATIJN, DAVID, NL  
[72] AHMADI, TAHAMTAN, US  
[71] GENMAB A/S, DK  
[85] 2021-01-11  
[86] 2019-07-15 (PCT/EP2019/069028)  
[87] (WO2020/012036)  
[30] US (62/697,730) 2018-07-13  
[30] US (62/848,874) 2019-05-16

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[21] **3,106,149**  
[13] A1

[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/34 (2006.01) C01C 1/04 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PRODUCING AMMONIA OR HYDROGEN AND USE OF THE DEVICE**

[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'AMMONIAQUE OU D'HYDROGENE ET UTILISATION DU DISPOSITIF**

[72] SIGGE, SEBASTIAN, DE

[72] NOLKER, KLAUS, DE

[72] JAHN, STEFFEN, DE

[71] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, DE

[71] THYSSENKRUPP AG, DE

[85] 2021-01-11

[86] 2019-07-18 (PCT/EP2019/069312)

[87] (WO2020/016333)

[30] DE (10 2018 117 657.0) 2018-07-20

[21] **3,106,152**  
[13] A1

[51] **Int.Cl. A61K 31/5415 (2006.01) A61K 45/06 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **OPTIMISED DOSAGE OF DIAMINOPHENOTHIAZINES IN POPULATIONS**

[54] **DOSAGE OPTIMISE DE DIAMINOPHENOTHIAZINES DANS DES POPULATIONS**

[72] WISCHIK, CLAUDE MICHEL, GB

[72] SCHELTER, BJORN OLAF, GB

[72] SHIELLS, HELEN CHRISTINE, GB

[71] WISTA LABORATORIES LTD., SG

[85] 2021-01-11

[86] 2019-07-18 (PCT/EP2019/069428)

[87] (WO2020/020751)

[30] GB (1812193.9) 2018-07-26

[30] GB (1909458.0) 2019-07-01

[21] **3,106,157**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **NON-STANDARD AMINO ACID CONTAINING COMPOSITIONS AND USES THEREOF**

[54] **COMPOSITIONS CONTENANT DES ACIDES AMINES NON STANDARD ET UTILISATIONS ASSOCIEES**

[72] MANDELL, DANIEL J., US

[72] GREGG, CHRISTOPHER J., US

[72] STRANGES, PETER B., US

[71] GRO BIOSCIENCES INC., US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/041006)

[87] (WO2020/014226)

[30] US (62/695,505) 2018-07-09

[21] **3,106,159**  
[13] A1

[51] **Int.Cl. B01J 20/04 (2006.01) C12M 1/00 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01) C12Q 1/02 (2006.01) C12Q 1/04 (2006.01)**

[25] EN

[54] **ASSAYS AND REAGENTS FOR ANTIMICROBIAL SUSCEPTIBILITY TESTING**

[54] **ESSAIS ET REACTIFS POUR LES EPREUVES DE SENSIBILITE AUX ANTIMICROBIENS**

[72] SPEARS, BENJAMIN, US

[72] FLENTIE, KELLY, US

[71] SELUX DIAGNOSTICS, INC., US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/041046)

[87] (WO2020/014256)

[30] US (62/696,732) 2018-07-11

[21] **3,106,161**  
[13] A1

[51] **Int.Cl. A61C 13/01 (2006.01) A61B 17/80 (2006.01) A61C 8/00 (2006.01) A61C 8/02 (2006.01) A61C 13/00 (2006.01) A61C 13/007 (2006.01)**

[25] EN

[54] **AN APPARATUS AND METHOD FOR A TRANSALVEOLAR DENTAL IMPLANT**

[54] **APPAREIL ET PROCEDE POUR UN IMPLANT DENTAIRE TRANSALVEOLAIRE**

[72] HALE, ROBERT G., US

[71] INDIVIDUAL IMPLANT SOLUTIONS, INC., US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/041049)

[87] (WO2020/014259)

[30] US (16/030,276) 2018-07-09

[21] **3,106,162**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) A61K 38/46 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/55 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **METHODS OF ACHIEVING HIGH SPECIFICITY OF GENOME EDITING**

[54] **PROCEDES D'OBTENTION D'UNE SPECIFICITE ELEVEE D'EDITION GENOMIQUE**

[72] WANG, JIWU, US

[72] CHAMMAS, ANDREW M., US

[72] WARD, ALEXANDER, US

[71] ALLELE BIOTECHNOLOGY AND PHARMACEUTICALS, INC., US

[85] 2021-01-08

[86] 2019-07-12 (PCT/US2019/041551)

[87] (WO2020/014577)

[30] US (62/697,955) 2018-07-13

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[21] **3,106,163**  
[13] A1

[51] **Int.Cl. D01F 1/10 (2006.01) C08K 3/02 (2006.01) C08K 3/08 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL POLYMER RESINS, FIBERS, AND YARNS WITH ZINC AND PHOSPHORUS CONTENT**

[54] **RESINES POLYMERES ANTIMICROBIENNES, FIBRES ET FILS CONTENANT DU ZINC ET DU PHOSPHORE**

[72] OSBORN, SCOTT E., US

[72] YUNG, WAI-SHING, US

[71] ASCEND PERFORMANCE MATERIALS OPERATIONS LLC, US

[85] 2021-01-08

[86] 2019-07-12 (PCT/US2019/041561)

[87] (WO2020/014585)

[30] US (62/697,786) 2018-07-13

[21] **3,106,164**  
[13] A1

[51] **Int.Cl. A47B 21/00 (2006.01) A47B 9/00 (2006.01) B25H 1/00 (2006.01) F16M 11/28 (2006.01) G06F 1/00 (2006.01)**

[25] EN

[54] **MOBILE BATTERY POWERED WORKSTATION**

[54] **POSTE DE TRAVAIL ALIMENTE PAR BATTERIE MOBILE**

[72] SUNG, GOO, US

[72] ALOBAIDI, MOHAMMED, US

[72] TING, CALVIN, US

[71] GREEN CUBES TECHNOLOGY, LLC, US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/041082)

[87] (WO2020/014283)

[30] US (62/695,495) 2018-07-09

[21] **3,106,166**  
[13] A1

[51] **Int.Cl. A61G 12/00 (2006.01) A61B 5/00 (2006.01) A61B 5/117 (2016.01) G05B 19/042 (2006.01) H02J 9/06 (2006.01)**

[25] EN

[54] **MOBILE BATTERY POWERED MEDICAL CART**

[54] **CHARIOT MEDICAL MOBILE ALIMENTE PAR BATTERIE**

[72] SUNG, GOO, US

[72] ALOBAIDI, MOHAMMED, US

[72] TING, CALVIN, US

[71] GREEN CUBES TECHNOLOGY, LLC, US

[85] 2021-01-08

[86] 2019-07-09 (PCT/US2019/041084)

[87] (WO2020/014284)

[21] **3,106,168**  
[13] A1

[51] **Int.Cl. B29C 43/34 (2006.01) B29D 99/00 (2010.01) B29B 11/16 (2006.01) B29C 70/08 (2006.01) B29C 70/20 (2006.01) B29C 70/46 (2006.01) B29C 70/54 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR COMPRESSION MOLDING**

[54] **PROCEDES ET COMPOSITIONS POUR LE MOULAGE PAR COMPRESSION**

[72] DAVIDSON, ERICK, US

[72] ESCOWITZ, ETHAN, US

[71] ARRIS COMPOSITES INC., US

[85] 2021-01-08

[86] 2019-07-12 (PCT/US2019/041565)

[87] (WO2020/014589)

[30] US (62/697,070) 2018-07-12

[30] US (16/509,801) 2019-07-12

[21] **3,106,169**  
[13] A1

[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/24 (2006.01) C08G 18/48 (2006.01) C08G 18/61 (2006.01) C08G 18/72 (2006.01) C08G 18/75 (2006.01) C08G 18/79 (2006.01) C09D 175/04 (2006.01)**

[25] EN

[54] **CURABLE COMPOSITIONS CONTAINING REACTIVE FUNCTIONAL COMPOUNDS AND POLYSILOXANE RESINS, ARTICLES OF MANUFACTURE AND COATED ARTICLES PREPARED THEREFROM, AND A METHOD OF MITIGATING DIRT BUILD-UP ON A SUBSTRATE**

[54] **COMPOSITIONS DURCISSABLES CONTENANT DES COMPOSES FONCTIONNELS REACTIFS ET DES RESINES DE POLYSILOXANE, ARTICLES MANUFACTURES ET ARTICLES REVETUS PREPARES A PARTIR DE CELLES-CI, ET PROCEDE D'ATTENUATION DE L'ACCUMULATION DE SALETES SUR UN SUBSTRAT**

[72] KABAGAMBE, BENJAMIN, US

[72] DONALDSON, SUSAN F., US

[72] KRALIK, JR., RONALD J., US

[71] PPG INDUSTRIES OHIO, INC., US

[85] 2021-01-08

[86] 2019-07-12 (PCT/US2019/041671)

[87] (WO2020/014651)

[30] US (16/033,835) 2018-07-12

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[21] **3,106,178**  
[13] A1

[51] **Int.Cl. B60G 17/016 (2006.01) A01M 7/00 (2006.01) B60G 17/00 (2006.01) B60G 17/015 (2006.01)**

[25] EN

[54] **AGRICULTURAL IMPLEMENT SUSPENSION SYSTEM**

[54] **SYSTEME DE SUSPENSION D'INSTRUMENT AGRICOLE**

[72] WEIDENBACH, ALEX, US

[72] WAGERS, JESSE LEE, US

[72] PREHEIM, JOHN D., US

[71] RAVEN INDUSTRIES, INC., US

[85] 2021-01-08

[86] 2019-07-12 (PCT/US2019/041731)

[87] (WO2020/014691)

[30] US (62/697,394) 2018-07-12

# 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

[21] <b>3,064,121</b> [13] A1	[21] <b>3,104,734</b> [13] A1	[21] <b>3,104,855</b> [13] A1
[51] <b>Int.Cl. G01R 33/02 (2006.01)</b> [25] EN [54] <b>A BACK-END DATA PROCESSING SYSTEM FOR MAGNETOMETER EQUIPMENT</b> [54] [72] SUN, SHUQUAN, CN [72] DU, AIMIN, CN [72] ZHAO, LIN, CN [72] LI, ZHI, CN [72] FENG, XIAO, CN [72] TANG, HENG, CN [71] INSTITUTE OF GEOLOGY AND GEOPHYSICS CHINESE ACADEMY OF SCIENCES (IGGCAS), CN [22] 2019-12-06 [41] 2020-01-31	[25] EN [54] <b>BATCH CARD SHUFFLING APPARATUSES INCLUDING MULTI CARD STORAGE COMPARTMENTS, AND RELATED METHODS</b> [54] <b>APPAREILS POUR BATTRE DES CARTES PAR LOTS CONTENANT DES COMPARTIMENTS DE STOCKAGE DE CARTES MULTIPLES, ET PROCEDES ASSOCIES</b> [72] STASSON, JAMES B., US [72] RYNDA, ROBERT J., US [72] HELGESEN, JAMES P., US [72] NELSON, TROY D., US [72] SCHEPER, PAUL K., US [72] SWANSON, RONALD R., US [72] KELLY, JAMES V., US [72] GRAUZER, ATTILA, US [71] SG GAMING, INC., US [22] 2013-08-12 [41] 2015-02-12 [62] 2,823,738	[25] EN [54] <b>SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL IMPLEMENT TRENCH DEPTH CONTROL AND SOIL MONITORING</b> [54] <b>SYSTEMES, PROCEDES ET APPAREIL POUR REGULATION DE PROFONDEUR DE SILLON D'INSTRUMENTS AGRICOLES ET SURVEILLANCE DU SOL</b> [72] SAUDER, DEREK (DECEASED), US [72] STOLLER, JASON, US [72] PLATTNER, TROY, US [71] PRECISION PLANTING LLC, US [22] 2014-03-14 [41] 2014-09-25 [62] 2,905,119 [30] US (61/783,591) 2013-03-14
[21] <b>3,104,707</b> [13] A1	[21] <b>3,104,805</b> [13] A1	[21] <b>3,104,865</b> [13] A1
[51] <b>Int.Cl. B25J 15/06 (2006.01) B65G 47/91 (2006.01)</b> [25] EN [54] <b>SYSTEMS AND METHODS FOR PROVIDING VACUUM VALVE ASSEMBLIES FOR END EFFECTORS</b> [54] [72] WAGNER, THOMAS, US [72] AHEARN, KEVIN, US [72] DAWSON-HAGGERTY, MICHAEL, US [72] GEYER, CHRISTOPHER, US [72] KOLETSCSKA, THOMAS, US [72] MARONEY, KYLE, US [72] MASON, MATTHEW, US [72] PRICE, GENE TEMPLE, US [72] ROMANO, JOSEPH, US [72] SMITH, DANIEL, US [72] SRINIVASA, SIDDHARTHA, US [72] VELAGAPUDI, PRASANNA, US [72] ALLEN, THOMAS, US [71] BERKSHIRE GREY, INC., US [22] 2016-08-26 [41] 2017-03-02 [62] 2,996,868 [30] US (62/210,246) 2015-08-26	[51] <b>Int.Cl. F16L 37/08 (2006.01) F16L 47/08 (2006.01) F16L 47/12 (2006.01)</b> [25] EN [54] <b>SYSTEM, METHOD AND APPARATUS FOR DEBRIS SHIELD FOR SQUEEZE-ACTIVATED RETAINER FOR A CONDUIT</b> [54] [72] CLAPPER, JOSHUA E., US [72] YASHIN, DMITRY, US [72] DEAN, ROY L., US [71] NORTH AMERICAN PIPE CORPORATION, US [22] 2018-09-18 [41] 2019-03-18 [62] 3,017,732 [30] US (62560045) 2017-09-18	[51] <b>Int.Cl. A61B 10/02 (2006.01) A61B 17/00 (2006.01)</b> [25] EN [54] <b>BIOPSY DRIVER ASSEMBLY HAVING A CONTROL CIRCUIT FOR CONSERVING BATTERY POWER</b> [54] <b>ENSEMBLE PILOTE DE BIOPSIE COMPRENANT UN CIRCUIT DE COMMANDE DESTINE A MAINTENIR UNE ALIMENTATION PAR BATTERIE</b> [72] VIDEBAEK, KARSTEN, DK [72] REUBER, CLAUS, DK [71] C.R. BARD, INC., US [22] 2010-10-29 [41] 2011-05-19 [62] 3,047,881 [30] US (12/608,554) 2009-10-29

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[21] **3,104,897**  
[13] A1

[51] **Int.Cl. A61H 3/02 (2006.01)**  
[25] EN  
[54] **HANDS-FREE CRUTCH**  
[54] **BEQUILLE SANS LES MAINS**  
[72] HUNTER, BRADLY, US  
[71] IWALKFREE, INC., CA  
[22] 2012-12-19  
[41] 2013-06-27  
[62] 2,859,683  
[30] US (61/577,892) 2011-12-20

[21] **3,104,940**  
[13] A1

[25] EN  
[54] **LIQUID PHARMACEUTICAL  
COMPOSITION COMPRISING  
ADALIMUMAB**  
[54] **COMPOSITION  
PHARMACEUTIQUE LIQUIDE  
COMPRENANT DE  
L'ADALIMUMAB**  
[72] DEL RIO, ALESSANDRA, IT  
[72] FRATARCANGELI, SILVIA, IT  
[72] RINALDI, GIANLUCA, IT  
[71] FRESENIUS KABI DEUTSCHLAND  
GMBH, DE  
[22] 2015-05-15  
[41] 2015-11-26  
[62] 2,948,746  
[30] EP (14169755.7) 2014-05-23

[21] **3,104,980**  
[13] A1

[25] EN  
[54] **SYSTEMS, METHODS, AND  
APPARATUS FOR  
AGRICULTURAL IMPLEMENT  
TRENCH DEPTH CONTROL AND  
SOIL MONITORING**  
[54] **SYSTEMES, PROCEDES ET  
APPAREIL POUR REGULATION  
DE PROFONDEUR DE SILLON  
D'INSTRUMENTS AGRICOLES ET  
SURVEILLANCE DU SOL**  
[72] SAUDER, DEREK (DECEASED), US  
[72] STOLLER, JASON, US  
[72] PLATTNER, TROY, US  
[71] PRECISION PLANTING LLC, US  
[22] 2014-03-14  
[41] 2014-09-25  
[62] 2,905,119  
[30] US (61/783,591) 2013-03-14

[21] **3,104,987**  
[13] A1

[25] EN  
[54] **FRONT TOW EXTENDED SADDLE**  
[54] **SABOT AVANT PROLONGE DE  
REMORQUAGE**  
[72] SCHUETTENBERG, DONALD W.,  
US  
[71] ATC TRANSPORTATION LLC, US  
[22] 2007-08-08  
[41] 2008-02-09  
[62] 3,004,069  
[30] US (11/463,390) 2006-08-09

[21] **3,104,988**  
[13] A1

[25] EN  
[54] **ALTERNATIVE HELICAL FLOW  
CONTROL DEVICE FOR  
POLYMER INJECTION IN  
HORIZONTAL WELLS**  
[54] **DISPOSITIF DE REGULATION  
D'ECOULEMENT HELICOIDAL  
ALTERNATIF POUR INJECTION  
DE POLYMERES DANS DES  
PUITS HORIZONTAUX**  
[72] GOHARI, KOUSHA, GB  
[72] JUTILA, HEIKKI ARMAS, GB  
[72] KSHIRSAGAR, ATUL H., GB  
[72] MASCAGNINI, CARLOS, GB  
[72] HARPER, CHRISTOPHER, GB  
[72] KIDD, PETER J., GB  
[72] ABDELFATTAH, TARIK, US  
[72] WOODWIJK, ROY, US  
[71] BAKER HUGHES, A GE COMPANY,  
LLC, US  
[22] 2017-06-19  
[41] 2018-01-11  
[62] 3,029,990  
[30] US (15/205,631) 2016-07-08  
[30] US (15/242,310) 2016-08-19

[21] **3,104,990**  
[13] A1

[25] EN  
[54] **FOAM PUMPS WITH LOST  
MOTION AND ADJUSTABLE  
OUTPUT FOAM PUMPS**  
[54] **POMPES A MOUSSE AYANT DES  
POMPES A MOUSSE A  
RATTRAPAGE DES JEUX ET A  
SORTIE REGLABLE**  
[72] CIAVARELLA, NICK E., US  
[72] TEDEROUS, CORY J., US  
[72] MCNULTY, JOHN J., US  
[72] ROSENKRANZ, MARK E., US  
[71] GOJO INDUSTRIES, INC., US  
[22] 2013-10-30  
[41] 2014-05-08  
[62] 2,889,995  
[30] US (61/720,490) 2012-10-31  
[30] US (13/791,332) 2013-03-08

[21] **3,105,007**  
[13] A1

[51] **Int.Cl. C07D 205/06 (2006.01) A61K  
31/337 (2006.01) A61K 31/397  
(2006.01) A61K 31/439 (2006.01)  
A61K 31/4427 (2006.01) A61K 31/445  
(2006.01) C07D 211/70 (2006.01)  
C07D 221/22 (2006.01) C07D 305/10  
(2006.01) C07D 401/06 (2006.01)**  
[25] EN  
[54] **HISTONE DEACETYLASE  
INHIBITORS**  
[54] **INHIBITEURS DE  
DESACETYLASE D'HISTONE**  
[72] JACQUES, VINCENT, US  
[72] RUSCHE, JAMES R., US  
[72] PEET, NORTON P., US  
[72] SINGH, JASBIR, US  
[71] BIOMARIN PHARMACEUTICAL  
INC., US  
[22] 2014-03-14  
[41] 2014-09-25  
[62] 2,903,486  
[30] US (13/843,261) 2013-03-15

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[21] **3,105,047**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C05F 11/08 (2006.01) C12N 1/00 (2006.01) A01H 17/00 (2006.01)**

[25] EN

[54] **PLANT GROWTH-PROMOTING MICROBES AND USES THEREOF**

[54] **MICROBES STIMULANT LA CROISSANCE DE PLANTE ET UTILISATIONS DE CEUX-CI**

[72] BULLIS, DAVID T., US  
[72] GRANDLIC, CHRISTOPHER J., US  
[72] MCCANN, RYAN, US  
[72] KEROVUO, JANNE S., US  
[71] MONSANTO TECHNOLOGY LLC, US

[22] 2012-12-13  
[41] 2013-06-20  
[62] 2,860,848  
[30] US (61/570,237) 2011-12-13

[21] **3,105,066**  
[13] A1

[51] **Int.Cl. G03G 21/18 (2006.01) F16H 1/08 (2006.01) F16H 1/26 (2006.01) G03G 15/06 (2006.01)**

[25] EN

[54] **PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS**

[54]

[72] MURAKAMI, RYUTA, JP  
[72] HORIKAWA, TADASHI, JP  
[72] URATANI, SHUNSUKE, JP  
[72] INABA, YUICHIRO, JP  
[71] CANON KABUSHIKI KAISHA, JP

[22] 2017-06-14  
[41] 2017-12-21  
[62] 3,025,140  
[30] JP (2016-118181) 2016-06-14

[21] **3,105,079**  
[13] A1

[51] **Int.Cl. C12N 9/16 (2006.01) A23K 10/10 (2016.01) A23K 20/189 (2016.01) A01H 5/00 (2018.01) C12C 11/00 (2006.01) C12G 1/022 (2006.01) C12N 15/55 (2006.01) C12N 15/82 (2006.01) C12P 7/06 (2006.01)**

[25] EN

[54] **THERMOSTABLE PHYTASE VARIANTS**

[54] **VARIANTS DE PHYTASE THERMOSTABLES**

[72] SKOV, LARS KOBBEROEE, DK  
[72] DE MARIA, LEONARDO, DK  
[72] MATSUI, TOMOKO, JP  
[71] NOVOZYMES A/S, DK

[22] 2011-03-25  
[41] 2011-09-29  
[62] 2,794,095  
[30] EP (10158027.2) 2010-03-26

[21] **3,105,095**  
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61B 5/15 (2006.01) A61M 5/158 (2006.01)**

[25] EN

[54] **BLOOD COLLECTION ASSEMBLY HAVING A MULTI-FUNCTION SHIELD**

[54] **ENSEMBLE POUR PRELEVEMENT SANGUIN AYANT UNE PROTECTION MULTIFONCTION**

[72] SIM, TIONG YEE, MY  
[72] SIM, LEE HOONG, MY  
[71] BECTON, DICKINSON AND COMPANY, US

[22] 2013-03-07  
[41] 2013-09-12  
[62] 3,003,110  
[30] US (61/608,195) 2012-03-08

[21] **3,105,098**  
[13] A1

[51] **Int.Cl. B60R 9/00 (2006.01) B60F 5/00 (2006.01) B60N 3/06 (2006.01)**

[25] EN

[54] **ATV HAVING ARRANGEMENT FOR A PASSENGER**

[54] **VTT CONFIGURE POUR ACCUEILLIR UN PASSAGER**

[72] RIPLEY, RICHARD D., US  
[72] SUNSDAHL, ROY A., US  
[72] TAYLOR, SCOTT D., US  
[71] POLARIS INDUSTRIES INC., US

[22] 2009-02-03  
[41] 2009-08-13  
[62] 3,022,732  
[30] US (12/012587) 2008-02-04

[21] **3,105,108**  
[13] A1

[51] **Int.Cl. G21C 13/02 (2006.01) B01D 46/00 (2006.01)**

[25] EN

[54] **CONVECTIVE DRY FILTERED CONTAINMENT VENTING SYSTEM**

[54] **SYSTEME CONVECTIF DE VENTILATION DE CONFINEMENT A FILTRATION SECHE**

[72] COOPER, WILLIAM HENRY, CA  
[71] AREVA INC., US

[22] 2015-07-14  
[41] 2016-01-21  
[62] 2,955,369  
[30] US (62/024,348) 2014-07-14



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demandes mises à la disponibilité du public non disponibles auparavant**

[21] <b>3,105,200</b> [13] A1	[21] <b>3,105,252</b> [13] A1	[21] <b>3,105,324</b> [13] A1
[25] EN [54] <b>AQUEOUS DISPERSIONS FOR USE AS COATINGS WITH VARIABLE WATER VAPOR PERMEANCE RATINGS</b> [54] <b>DISPERSIONS AQUEUSES POUR UNE UTILISATION EN TANT QUE REVETEMENTS AVEC COTES VARIABLES DE PERMEABILITE A LA VAPEUR D'EAU</b> [72] KNAPP, KENNETH D., US [72] GALLAGHER, KEVIN J., US [72] TOAS, MURRAY S., US [72] YUAN, SAM, US [72] MENDON, SHARATHKUMAR K., US [72] RAWLINS, JAMES W., US [71] CERTAIN TEED CORPORATION, US [22] 2014-12-19 [41] 2015-06-25 [62] 2,934,554 [30] US (61/918,521) 2013-12-19	[25] EN [54] <b>BARRIER OPERATOR FEATURE ENHANCEMENT</b> [54] <b>AMELIORATION DE CARACTERISTIQUE D'OPERATEUR DE BARRIERE</b> [72] CATE, CASPARUS, US [72] FITZGIBBON, JAMES J., US [72] KELLER, ROBERT R., JR., US [72] MURRAY, JAMES SCOTT, US [72] PUDIPEDDI, SAPTA GIREESH, US [72] SORICE, CORY, US [72] STANEK, GREGORY JOHN, US [72] WILLMOTT, COLIN BARNES, US [71] THE CHAMBERLAIN GROUP, INC., US [22] 2013-10-29 [41] 2014-05-08 [62] 2,831,589 [30] US (13/671,602) 2012-11-08	[51] <b>Int.Cl. A61B 5/145 (2006.01) A61B 5/1468 (2006.01) A61B 5/1473 (2006.01) A61B 5/1486 (2006.01) G01N 27/403 (2006.01) G01N 37/00 (2006.01)</b> [25] EN [54] <b>CONNECTORS FOR MAKING CONNECTIONS BETWEEN ANALYTE SENSORS AND OTHER DEVICES</b> [54] <b>CONNECTEURS POUR EFFECTUER DES CONNEXIONS ENTRE DES CAPTEURS D'ANALYTE ET D'AUTRES DISPOSITIFS</b> [72] MOEIN, MOHAMMAD E., US [72] PACE, LOUIS G., US [72] HOSS, UDO, US [72] LE, PHU X., US [72] CURRY, SAMUEL M., US [71] ABBOTT DIABETES CARE INC., US [22] 2012-06-18 [41] 2012-12-20 [62] 2,838,753 [30] US (61/498,142) 2011-06-17
[21] <b>3,105,248</b> [13] A1	[21] <b>3,105,266</b> [13] A1	[21] <b>3,105,346</b> [13] A1
[51] <b>Int.Cl. A24F 40/57 (2020.01) A24F 40/10 (2020.01) G01L 19/04 (2006.01) H05B 1/02 (2006.01)</b> [25] EN [54] <b>ELECTRONIC VAPOUR PROVISION DEVICE</b> [54] <b>DISPOSITIF DE FOURNITURE DE VAPEUR ELECTRONIQUE</b> [72] LORD, CHRISTOPHER, GB [71] NICOVENTURES TRADING LIMITED, GB [22] 2013-10-09 [41] 2014-04-24 [62] 2,997,089 [30] GB (1218816.5) 2012-10-19	[51] <b>Int.Cl. A47L 9/16 (2006.01)</b> [25] EN [54] <b>SURFACE CLEANING APPARATUS</b> [54] <b>APPAREIL DE NETTOYAGE DES SURFACES</b> [72] CONRAD, WAYNE ERNEST, CA [71] OMACHRON INTELLECTUAL PROPERTY INC., CA [22] 2009-03-20 [41] 2010-09-20 [62] 3,017,664	[54] <b>METHODS AND SYSTEMS FOR OLEFIN POLYMERIZATION</b> [54] <b>PROCEDES ET SYSTEMES POUR LA POLYMERISATION D'OLEFINES</b> [72] SAVATSKY, BRUCE J., US [72] PEQUENO, R. ERIC, US [72] LYNN, TIMOTHY R., US [72] HUSSEIN, F. DAVID, US [72] ZILKER, DANIEL P., US [71] UNIVATION TECHNOLOGIES, LLC, US [22] 2013-06-19 [41] 2014-02-06 [62] 2,878,582 [30] US (61/677,802) 2012-07-31

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[21] **3,105,353**  
[13] A1

[25] EN  
[54] **FLUID COMPONENT ANALYSIS SYSTEM AND METHOD FOR GLUCOSE MONITORING AND CONTROL**  
[54] **SYSTEME D'ANALYSE DE COMPOSANT DE FLUIDE ET PROCEDE POUR CONTROLER ET REGULER LE GLUCOSE**  
[72] BRAIG, JAMES, US  
[72] KEENAN, RICHARD, US  
[72] RULE, PETER, US  
[72] RIVAS, GIL, US  
[72] SEETHARAMAN, MAHESH, US  
[71] OPTISCAN BIOMEDICAL CORPORATION, US  
[22] 2008-10-10  
[41] 2009-04-16  
[62] 2,702,116  
[30] US (60/979,044) 2007-10-10  
[30] US (60/979,380) 2007-10-11  
[30] US (60/979,348) 2007-10-11  
[30] US (61/025,260) 2008-01-31  
[30] US (61/096,461) 2008-09-12  
[30] US (61/099,491) 2008-09-23

[21] **3,105,364**  
[13] A1

[51] **Int.Cl. A01N 43/40 (2006.01) A01N 37/06 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 43/90 (2006.01) A01N 47/12 (2006.01) A01N 47/24 (2006.01) A01N 59/02 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **FUNGICIDAL COMPOSITION AND METHOD FOR CONTROLLING PLANT DISEASES**  
[54] **COMPOSITION FONGICIDE ET PROCEDE POUR LUTTER CONTRE DES MALADIES DE PLANTES**  
[72] OGAWA, MUNEKAZU, JP  
[72] NISHIMURA, AKIHIRO, JP  
[71] ISHIHARA SANGYO KAISHA, LTD., JP  
[22] 2009-06-30  
[41] 2010-01-07  
[62] 2,995,175  
[30] JP (2008-174963) 2008-07-03  
[30] JP (2008-292511) 2008-11-14

[21] **3,105,365**  
[13] A1

[51] **Int.Cl. A01N 43/56 (2006.01) A01N 43/40 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **BINARY FUNGICIDAL MIXTURES**  
[54] **MELANGES FONGICIDES BINAIRES**  
[72] WACHENDORFF-NEUMANN, ULRIKE, DE  
[72] RIECK, HEIKO, DE  
[72] DUBOST, CHRISTOPHE, FR  
[71] BAYER CROPSCIENCE AG, DE  
[22] 2013-11-28  
[41] 2014-06-05  
[62] 2,892,693  
[30] EP (12195168.5) 2012-11-30  
[30] EP (12197380.4) 2012-12-16

[21] **3,105,496**  
[13] A1

[25] EN  
[54] **CONTENT FRAGMENT STORAGE AND DELIVERY**  
[54] **STOCKAGE ET DISTRIBUTION DE CONTENU DE FRAGMENTS**  
[72] MCMAHON, MICHAEL D., US  
[72] HOLDEN, DANIAL E., US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2012-09-18  
[41] 2013-03-19  
[62] 2,790,227  
[30] US (13/235,987) 2011-09-19

[21] **3,105,517**  
[13] A1

[25] EN  
[54] **ANDROGEN RECEPTOR MODULATOR AND USES THEREOF**  
[54] **MODULATEUR DU REPECTEUR DES ANDROGENES ET SES UTILISATIONS**  
[72] CHEN, ISAN, US  
[72] HAGER, JEFFREY H., US  
[72] MANEVAL, EDNA CHOW, US  
[72] HERBERT, MARK R., US  
[72] SMITH, NICHOLAS D., US  
[71] ARAGON PHARMACEUTICALS, INC., US  
[22] 2014-01-09  
[41] 2014-07-24  
[62] 2,898,025  
[30] US (61/752,842) 2013-01-15

[21] **3,105,548**  
[13] A1

[51] **Int.Cl. G01N 33/24 (2006.01)**  
[25] EN  
[54] **OIL SAND PROCESS LINE CONTROL**  
[54] **COMMANDE DE CONDUIT DE TRAITEMENT DE SABLES BITUMINEUX**  
[72] KADALI, RAMESH, CA  
[71] SUNCOR ENERGY INC., CA  
[22] 2013-09-27  
[41] 2014-05-30  
[62] 2,828,530  
[30] US (61/732,134) 2012-11-30  
[30] US (61/777,825) 2013-03-12

[21] **3,105,552**  
[13] A1

[25] EN  
[54] **ANDROGEN RECEPTOR MODULATOR AND USES THEREOF**  
[54] **ANDROGEN RECEPTOR MODULATOR AND USES THEREOF**  
[72] CHEN, ISAN, US  
[72] HAGER, JEFFREY H., US  
[72] MANEVAL, EDNA CHOW, US  
[72] HERBERT, MARK R., US  
[72] SMITH, NICHOLAS D., US  
[71] ARAGON PHARMACEUTICALS, INC., US  
[22] 2014-01-09  
[41] 2014-07-24  
[62] 2,898,025  
[30] US (61/752,842) 2013-01-15

[21] **3,105,560**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/28 (2012.01)**  
[25] EN  
[54] **LOGISTICS VERIFICATION SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE VERIFICATION LOGISTIQUE**  
[72] ZHANG, YI, CN  
[71] 10353744 CANADA LTD., CA  
[22] 2014-09-12  
[41] 2016-03-17  
[62] 3,075,345

**Demandes canadiennes apparentées par division et  
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[21] **3,105,562**  
[13] A1

[51] **Int.Cl. A61L 31/10 (2006.01) A61L 27/34 (2006.01) A61L 29/08 (2006.01)**  
[25] EN  
[54] **BIOACTIVE COATINGS**  
[54] **REVETEMENTS BIOACTIFS**  
[72] ONIS, SIMON, GB  
[72] BURROWS, FANNY, GB  
[72] KAPOOR, KRISHAN, GB  
[72] RHODES, ALAN, GB  
[72] LUTHRA, AJAY KUMAR, GB  
[71] BIOINTERACTIONS LIMITED, GB  
[22] 2014-04-28  
[41] 2014-10-30  
[62] 2,910,000  
[30] US (61/816,519) 2013-04-26

[21] **3,105,565**  
[13] A1

[25] EN  
[54] **BIOACTIVE COATINGS**  
[54] **REVETEMENTS BIOACTIFS**  
[72] ONIS, SIMON, GB  
[72] BURROWS, FANNY, GB  
[72] KAPOOR, KRISHAN, GB  
[72] RHODES, ALAN, GB  
[72] LUTHRA, AJAY KUMAR, GB  
[71] BIOINTERACTIONS LIMITED, GB  
[22] 2014-04-28  
[41] 2014-10-30  
[62] 2,910,000  
[30] US (61/816,519) 2013-04-26

[21] **3,105,568**  
[13] A1

[25] EN  
[54] **MEDICAL TUBES AND METHODS OF MANUFACTURE**  
[54] **TUBES MEDICAUX ET PROCEDES DE FABRICATION**  
[72] HARWOOD, JONATHAN DAVID, NZ  
[72] AMADIO, CHRISTOPHER JAYE NORMAN, NZ  
[72] STOKS, ELMO BENSON, NZ  
[72] BUSWELL, MATTHEW LIAM, NZ  
[72] STROOBANT, JOSHUA DANIEL, NZ  
[72] NORTH, CHARLES CHRISTOPHER, NZ  
[72] SUJAU, MAHRAN MAUMOON, NZ  
[72] MILLAR, GAVIN WALSH, NZ  
[72] AL-TIAY, IBRAHIM, NZ  
[72] MCCAULEY, DAVID LEON, NZ  
[72] VAN SCHALKWYK, ANDRE, NZ  
[72] MUNKELT, KATJA, NZ  
[72] BARKER, DEAN ANTONY, NZ  
[72] WILSON, MATTHEW ROBERT, NZ  
[72] OOSTHUYSEN, HELGARD, NZ  
[72] PATEL, SANJAY PARAG, NZ  
[72] D'ANDREA, DOMINIQUE RICHARD, NZ  
[72] DOVER, GRANT MARTIN, NZ  
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ  
[22] 2013-12-04  
[41] 2014-06-12  
[62] 2,896,601  
[30] US (61/733,359) 2012-12-04  
[30] US (61/733,360) 2012-12-04  
[30] US (61/877,736) 2013-09-13  
[30] US (61/877,784) 2013-09-13  
[30] US (61/877,566) 2013-09-13  
[30] US (61/877,622) 2013-09-13

[21] **3,105,571**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/64 (2006.01)**  
[25] EN  
[54] **CRYSTALLINE FORMS OF GRAPIPRANT**  
[54] **FORMES CRISTALLINES DE GRAPIPRANT**  
[72] NEWBOLD, TAMARA, US  
[72] SMITH, MELISSA, US  
[72] SEEKAMP, CHRIS, US  
[72] WENSLOW, ROBERT, US  
[72] LU, XIA, CN  
[71] ARATANA THERAPEUTICS, INC., US  
[22] 2015-03-05  
[41] 2015-09-11  
[62] 2,941,019  
[30] US (61/949,006) 2014-03-06  
[30] US (61/996,961) 2014-07-30

[21] **3,105,579**  
[13] A1

[51] **Int.Cl. G01N 27/00 (2006.01)**  
[25] EN  
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[54] **MESURE DU TAUX D'HEMATOCRITE PAR IMPEDANCE ELECTRIQUE ET BIOCAPTEUR HBA1C COMPRENANT UNE PLAQUE D'ECHANTILLONNAGE ET APPAREIL D'ECHANTILLONNAGE**  
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[72] BRYAN, MATTHEW ROBERT, GB  
[71] SMARTCARE TECHNOLOGIES LIMITED, GB  
[22] 2013-04-12  
[41] 2013-10-17  
[62] 2,870,354  
[30] GB (1206588.4) 2012-04-13

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[21] **3,105,722**

[13] A1

[51] **Int.Cl. G16B 99/00 (2019.01) G16B  
35/10 (2019.01) G16B 40/00 (2019.01)  
C12N 15/00 (2006.01)**

[25] EN

[54] **MICROBIAL STRAIN  
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[54] **AMELIORATION DE SOUCHES  
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[72] SHELLMAN, ERIN, US

[72] FREWEN, BARBARA, US

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[72] MANCHESTER, SHAWN, US

[72] FLASHMAN, MICHAEL, US

[72] BRUNO, KENNETH S., US

[72] GORA, KATHERINE, US

[72] SZYJKA, SHAWN, US

[71] ZYMERGEN INC., US

[22] 2016-12-07

[41] 2017-06-15

[62] 3,090,392

[30] US (62/264,232) 2015-12-07

[30] US (15/140,296) 2016-04-27

[30] US (62/368,786) 2016-07-29

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[21] **3,105,838**

[13] A1

[51] **Int.Cl. G09F 3/02 (2006.01) C09J 7/40  
(2018.01)**

[25] EN

[54] **SHEET HAVING REMOVABLE  
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[72] VEYNA, GERARDO, MX

[72] RAMIREZ, GILDARDO, MX

[72] MAMMEN, THOMAS, US

[71] CCL LABEL, INC., US

[22] 2009-04-23

[41] 2009-10-29

[62] 3,000,136

[30] US (61/047,724) 2008-04-24

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POMA	3,091,372	SEALEY, JAMES E., II	3,087,188	WEVER, MICHAEL C.	3,087,642
PORTALES MARTINEZ, BENJAMIN	3,087,543	SIDHU, APWINDER	3,050,439	WHITE, KATHIE	3,086,873
POTASEK, DAVID P.	3,063,270	SIMON, STEPHEN	3,087,386	WIEJAK, MAGDALENA	3,054,418
PRATT & WHITNEY CANADA CORP.	3,077,779	SINGLEY, JOSHUA	3,081,012	WIENECKE, HERMAN ALLAN	3,087,811
PRATT & WHITNEY CANADA CORP.	3,081,217	SMIRICINSCHI, VAL	3,087,413	WILEY, HUNT B.	3,086,852
PRATT & WHITNEY CANADA CORP.	3,086,029	SMIRICINSCHI, VAL	3,087,415	WILLIAMS, EDWARD JAMES	3,087,007
PRATT & WHITNEY CANADA CORP.	3,086,532	SMIRICINSCHI, VAL	3,087,424	WISCONSIN ALUMNI RESEARCH FOUNDATION	3,087,007
PRATT & WHITNEY CANADA CORP.	3,086,745	SNAP-ON INCORPORATED	3,076,049	WISNIESKI, RICHARD	3,087,002
PRATT & WHITNEY CANADA CORP.	3,086,913	SNAP-ON INCORPORATED	3,076,120	WONDERLAND SWITZERLAND AG	3,086,830
PRINZ, DAVID C.	3,086,123	SOBOOL, KENNETH DALE	3,050,225	WONDERLAND SWITZERLAND AG	3,086,994
PROKOPICH, NICHOLAS ALEXANDER	3,097,325	SOTO ESCALANTE, ISMAEL	3,087,543	WU, CHENG-HSUN	3,087,226
PRYSMIAN S.P.A.	3,086,833	SPX COOLING TECHNOLOGIES, INC.	3,081,214	WU, CHENG-HSUN	3,087,227
PYTEL, RACHEL Z.	3,087,547	STANCESCU, DANIEL	3,085,161	WU, CHENG-KONG C.	3,085,203
RABASCO, JOHN J.	3,084,652	STRUCTURED I, LLC	3,087,188	WU, SI-HAN	3,087,226
RADKE, GEORGE	3,050,112	SUBRAMANIAN, RAMESH	3,085,918	WU, SI-HAN	3,087,227
RAJEWSKI, ROBERT C.	3,087,752	SYNCRUDE CANADA LTD.	3,086,968	XIAO, MIN	3,087,181
RAMIREZ SABAG, JETZABETH	3,086,271	SYNERLINK	3,086,972	XIAO, MIN	3,087,224
RAPP, JOE A.	3,085,203	SZE, ROBERT	3,086,532	XIAO, MIN	3,087,225
REGENTS OF THE UNIVERSITY OF MINNESOTA	3,051,892	TERHEIDEN, ANNEGRET	3,086,873	XU, KAI	3,087,686
REID, PETER	3,080,510	THE BOEING COMPANY	3,078,890	YAN, LILI	3,087,427
RENNER, SAM	3,087,002	THE BOEING COMPANY	3,079,594	YI, YUNJUNG	3,087,686
REYNOLDS, STEPHEN W.	3,087,547	THE BOEING COMPANY	3,084,881	YI, YUNJUNG	3,087,757
		THE BOEING COMPANY	3,087,165	YU, TE-SHU	3,070,971
		THOMPSON, JEREMY	3,080,510	YU, TE-SHU	3,080,646
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		SHANNON	3,053,598	ZHANG, BELINDA	3,085,918
				ZHANG, CHAO	3,086,913
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3M INNOVATIVE PROPERTIES		ALERTAPACK LTD	3,105,714	S.A.	3,105,720
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3M INNOVATIVE PROPERTIES		PHARMACEUTICALS		S.A.	3,105,749
COMPANY	3,105,582	INC.	3,105,834	ANRUI, TAKANORI	3,105,690
7262591 CANADA LTD.	3,105,612	ALGERNON		ANZAI, MIZUHO	3,105,710
9260-2366 QUEBEC INC.	3,105,314	PHARMACEUTICALS		APPAJOSYULAN, SIREESH	3,105,731
AB INITIO TECHNOLOGY LLC	3,105,818	INC.	3,105,850	APPARIO GLOBAL	
ABASHKIN, ANDREJ		ALIA THERAPEUTICS S.R.L.	3,105,925	SOLUTIONS (AGS) AG	3,105,408
YUREVICH	3,105,275	ALIBEK, KEN	3,105,350	APPARIO GLOBAL	
ABBOTT, BRADLEY	3,105,704	ALLARD, NANCY	3,105,867	SOLUTIONS (AGS) AG	3,105,905
ABCENTRA, LLC	3,105,071	ALLARD, RANDY	3,105,779	APPLEGATE, MATTHEW	3,106,027
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ABE, KIYOFUMI	3,105,938	ALLELE BIOTECHNOLOGY		SYSTEMS POULTRY, INC.	3,105,378
ABIAN FRANCO, OLGA	3,105,295	AND		APR APPLIED PHARMA	
ACCELEWARE LTD.	3,105,830	PHARMACEUTICALS,		RESEARCH S.A.	3,105,341
ACCETTA, ALESSANDRO	3,104,955	INC.	3,106,162	APTAMIR THERAPEUTICS,	
ACIST MEDICAL SYSTEMS		ALLERGAN		INC.	3,105,394
INC.	3,105,589	PHARMACEUTICALS		AQUEDEON MEDICAL, INC.	3,105,480
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INC.	3,105,620	LIMITED	3,105,778	ARIAGNO, SCOTT RICHARD	3,105,759
ACTYM THERAPEUTICS, INC.	3,106,143	ALLGAIER, RYAN	3,105,338	ARKEMA FRANCE	3,105,904
ADACHI, SATOSHI	3,105,428	ALNYLAM		ARKEMA FRANCE	3,106,061
ADAMS, KERISSA	3,105,530	PHARMACEUTICALS,		ARLA FOODS AMBA	3,105,203
ADERMANN, TORBEN	3,105,510	INC.	3,105,385	ARRIS COMPOSITES INC.	3,106,168
ADKINS, JR., NAT	3,105,753	ALOBAIDI, MOHAMMED	3,106,164	ARUNDOY, SUR	3,105,726
ADLURI, MAHENDER RAJU	3,105,815	ALOBAIDI, MOHAMMED	3,106,166	ASCEND PERFORMANCE	
ADRIAN, FRANCISCO	3,105,333	ALOJ, ALBERT SEMENOVICH	3,105,275	MATERIALS	
ADVANCED INSTRUMENT		ALONSO FRIGOLA, ESTER	3,105,561	OPERATIONS LLC	3,106,163
PTE. LTD.	3,077,292	ALONSO ZARATE, JESUS	3,105,522	ASCENTAWITS	
ADVANCED MESSAGING		ALRAMADHAN, ABDULLAH	3,106,071	PHARMACEUTICAL, LTD.	3,105,884
TECHNOLOGIES, INC.	3,105,815	ALTEKRUSE, KENNETH C.	3,105,631	ASML NETHERLANDS B.V.	3,105,488
AGENCY FOR SCIENCE,		AMBROZIC, CHRISTOPHER	3,104,965	ASMUS, ELISABETH	3,105,217
TECHNOLOGY AND		AMERICAN STERILIZER		ASSOCIATION INSTITUT DE	
RESEARCH	3,105,625	COMPANY	3,106,119	MYOLOGIE	3,105,903
AGRICULTURAL		AMERSON GLOBAL GAMING		ASTRAZENCA	
UTILIZATION RESEARCH		PTY LTD	3,105,287	COLLABORATION	
INSTITUTE	3,106,034	AMGEN INC.	3,105,559	VENTURES, LLC	3,105,598
AHMAD, RIZWAN	3,105,053	AMGEN INC.	3,105,729	ASTRAZENECA AB	3,105,585
AHMADI, TAHAMTAN	3,106,146	AMGEN INC.	3,105,751	ASTRAZENECA AB	3,105,626
AHMADINIA, ALI	3,104,974	AMGEN INC.	3,105,826	ATG 20 S.R.L.	3,105,012
AHURATECH LLC	3,105,605	AMGEN RESEARCH		ATTAL, YOHAN	3,105,269
AIHARA, YOSHINORI	3,105,428	(MUNICH) GMBH	3,105,729	AURELL, CARL-JOHAN	3,105,585
AIZIKOVICH, ALEXANDER	3,105,654	AMINI HORRI, BAHMAN	3,106,028	AUZELOUX, ISABELLE	3,105,555
AKHAVAN-TAFTI, HASHEM	3,105,605	AMMANN, STEPHEN	3,105,485	AVERY, ANDREW	3,105,988
AKHAVAN-TAFTI, MOJTABA	3,105,605	AMMANN, STEPHEN	3,105,534	AXSOME THERAPEUTICS,	
AKI, YUICHI	3,105,328	AMMANN, STEPHEN	3,105,558	INC.	3,105,476
AKIU, MAYUKO	3,105,456	AMMANN, STEPHEN	3,105,795	AZTHERAPIES, INC.	3,105,392
AKKARAJU, SANDEEP	3,105,459	AMSTED RAIL COMPANY,		BACCA, NICOLAS	3,105,894
AL&AM PHARMACHEM LTD.	3,105,654	INC.	3,106,016	BACON, ELIZABETH M.	3,105,485
ALARM.COM		AMSTED RAIL COMPANY,		BACON, ELIZABETH M.	3,105,534
INCORPORATED	3,105,060	INC.	3,106,029	BACON, ELIZABETH M.	3,105,558
ALASKA NATIVE TRIBAL		ANANDADOSS, PRAVEEN		BACON, ELIZABETH M.	3,105,795
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INFORMATION AND		BAXTER, CLYDE EDWARD,		BERNIER, DAVID	3,105,407
ELECTRONIC SYSTEMS		JR.	3,105,355	BERNIER, DAVID	3,105,410
INTEGRATION INC.	3,106,099	BAYER		BERNIER, DAVID	3,105,411
BAECHLE, TOBIAS	3,105,915	AKTIENGESELLSCHAFT	3,105,217	BERTAGNI 1882 S.P.A.	3,105,794
BAEK, HYOUNGSU	3,105,462	BAYER		BERTELSEN, HANS	3,105,203
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BAKER, JUSTICE	3,106,001	AKTIENGESELLSCHAFT	3,105,261	BETZ, MARTIN	3,105,707
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BAKULIN, ANDREY	3,106,071	AKTIENGESELLSCHAFT	3,105,407	BEUTLER, BRUCE	3,105,595
BALCONI, GABRIELE	3,105,774	BAYER		BEVILLE, MARK	3,105,939
BALES, WILLIAM T.	3,105,402	AKTIENGESELLSCHAFT	3,105,409	BEYOND THE DOME, INC.	3,105,642
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BANERJEE, INDRANI	3,106,107	AKTIENGESELLSCHAFT	3,105,410	IVANOVICH	3,105,275
BANKOSEGGER, RAFAEL	3,105,740	BAYER		BHALAY, GURDIP	3,104,955
BANKS AND ACQUIRERS		AKTIENGESELLSCHAFT	3,105,411	BIANCHETTI, GIULIA,	
INTERNATIONAL		BAYER ANIMAL HEALTH		OTTAVIA	3,106,109
HOLDING	3,105,952	GMBH	3,105,234	BICKEL, JON A.	3,105,445
BANNEN, JEFF	3,105,918	BAYER HEALTHCARE LLC	3,105,449	BICKEL, JON A.	3,105,483
BAR, DAVID	3,105,325	BAYER HEALTHCARE LLC	3,105,770	BIDAMANT, FLORENCE	3,105,225
BAR, TAMI	3,105,082	BAYER, STEFAN	3,105,508	BIESIADA, CRAIG	3,105,678
BARAKAT, TAREK	3,105,254	BAZAYEV, EDWARD	3,105,633	BILSBOROUGH, JANINE	3,105,464
BARANYAI, ZSOLT	3,105,610	BD Kiestra B.V.	3,105,569	BIOSORBE AB	3,105,990
BARBIER, DAVID	3,105,902	BEARABY INC.	3,105,535	BIOURGE, VINCENT	3,105,376
BARCODE DIAGNOSTICS		BECHARD, JEFFREY PAUL	3,106,031	BIOVINC, LLC.	3,105,829
LTD.	3,105,670	BECTON, DICKINSON AND		BISHOP, MICHAEL JOSEPH	3,105,940
BARNES, CHRISTOPHER	3,105,658	COMPANY	3,106,083	BITON, DROR	3,105,930
BARNES, CRISPIN	3,106,027	BEGIN, JASMINE	3,104,992	BLACKLEDGE, CHRIS	3,105,759
BARNES, HUBERT LLOYD	3,105,526	BEI, FENGFENG	3,105,381	BLATTER, FRITZ	3,105,240
BARRICK, ADAM M.	3,105,357	BEIJING BYTEDANCE		BLATTER, FRITZ	3,105,251
BARROS, ROQUE	3,105,713	NETWORK		BLATTER, FRITZ	3,105,531
BARROW, JAMES	3,105,657	TECHNOLOGY CO., LTD.	3,105,330	BLATTER, FRITZ	3,105,545
BARROW, JAMES	3,105,748	BELL, ANDREW SIMON	3,105,428	BLBR GMBH	3,105,928
BARROWS, AMY	3,105,725	BELL, BRENT	3,105,755	BLECK, GREGORY T.	3,105,454
BARRY, KEVIN JAMES	3,105,512	BELL, BRENT	3,105,820	BLEICHER, KONRAD	3,105,705
BARRY, MICHAEL ANTHONY	3,105,844	BELL, HOWARD Y.	3,105,773	BLEICKER, DIRK	3,105,300
BARRY, MICHAEL ANTHONY	3,105,886	BELLOWS, LANCE CLARK	3,106,119	BLIVET, GUILLAUME	3,105,443
BARTEL, REBECCA	3,106,100	BELOKON', DENIS		BLOCH, SARAH	3,105,529
BARTELS, FRANK	3,105,734	EVGEN'EVICH	3,105,273	BLOOM, ROBBIE D.	3,105,497
BARTON, ALASTAIR		BENDIX SPICER		BLUEPRINT HOLDING B.V.	3,105,611
WILLIAM	3,105,592	FOUNDATION BRAKE		BLUMENFELD, ANDREW M.	3,105,778
BASF SE	3,105,264	LLC	3,106,082	BLUMER, BENJAMIN AARON	3,105,874
BASF SE	3,105,510	BENDIX SPICER		BLUSH, JASON	3,105,613
BASF SE	3,105,946	FOUNDATION BRAKE		BLUSH, JASON	3,105,651
BASIC HOLDINGS	3,105,707	LLC	3,106,084	BLUSH, JASON	3,105,653
BASSAGANYA-RIERA, JOSEP	3,105,615	BENDIX SPICER		BNNT, LLC	3,105,822
BASTARDO, ANTONIO	3,105,718	FOUNDATION BRAKE		BOARD OF REGENTS OF THE	
BASTIAN, JOLIE ANNE	3,105,501	LLC	3,106,086	UNIVERSITY OF TEXAS	
BASTOS, LUCIENE BAPTISTA	3,105,523	BENDIX SPICER		SYSTEM	3,105,595
BASU, REETOBRATA	3,105,470	FOUNDATION BRAKE		BODE, ANDREAS	3,105,946
BATEY, SARAH	3,106,046	LLC	3,106,087	BODE, HEINRICH	3,106,126
BATTELLE MEMORIAL		BENEDEK, NADAV	3,105,655	BODENDORFER, THOMAS	3,105,817
INSTITUTE	3,105,375	BENGTSSON, SVEN	3,105,403	BODLE, JESSE	3,105,880
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INSTITUTE	3,105,737	CHRISTIAN	3,105,783	BOEHNI STAMM, RUTH	3,105,251
BAUERFEIND AG	3,105,645	BENTHEM, LAMBERTUS	3,106,033	BOEHNI STAMM, RUTH	3,105,531
BAUERFEIND, HANS B.	3,105,645	BENTHIC USA LLC	3,106,095	BOEHNI STAMM, RUTH	3,105,545
BAUSSARON, LOIC	3,105,567	BERG, JAN	3,105,564	BOEHRINGER INGELHEIM	
BAXALTA GMBH	3,105,759	BERGDALE, MICAH	3,105,335	ANIMAL HEALTH USA	
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BOLOOR, AMOGH	3,105,521	BRYZEK, JANUSZ	3,105,459	CATALENT PHARMA SOLUTIONS, LLC	3,105,454
BOLUKBASI, IREM	3,105,329	BUCKLER, ALAN	3,105,988	CATERPILLAR INC.	3,106,000
BONDARENKO, VOLODIMIR	3,105,280	BUFFET, DELPHINE	3,106,051	CATEXEL TECHNOLOGIES LIMITED	3,105,591
BONERA, ILARIO	3,105,276	BUKOWSKI, JOHN	3,106,114	CAUCHOIS, JEAN-PIERRE	3,105,904
BONFIELD, CHARLES	3,105,388	BULICK, ALLEN	3,105,824	CAVNESS, CHARLES	3,105,380
BONNET, FREDERIC	3,105,211	BULMAN, ERIK	3,105,742	CEDARS-SINAI MEDICAL CENTER	3,105,464
BONO, FRANK S.	3,105,779	BURLEY, KIMBER L.	3,105,619	CEFALO, KRISTIN	3,105,493
BONOMETTI, VALENTINA	3,105,586	BURLEY, KIMBER L.	3,105,782	CEGLINSKI, JARRETT R.	3,105,357
BORNENG, KIRSTEN	3,105,234	BURMASTER, BRIAN	3,105,463	CELGENE CORPORATION	3,105,813
BORREGAARD AS	3,105,564	BURNETTE, PEARLIE	3,105,506	CELLA, ANGIE	3,105,704
BORROWMAN, ERIC L.	3,105,357	BURNS, CAROL	3,105,746	CELLECTIS	3,105,331
BOSTON SCIENTIFIC SCIMED, INC.	3,105,760	BURRILL, JOHN	3,105,704	CELLUTECH AB	3,106,072
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BOTTA, RAMA KRISHNA ARAVIND	3,105,323	BUSON, ALBERTO	3,105,599	CENTRE NATIONAL DE LA RECHERCHE	
BOUCHARD, MARTIN	3,106,117	BUTIKAS, RENATA	3,106,040	SCIENTIFIQUE	3,105,296
BOUGUET, GUILLAUME	3,105,296	BUTTERFIELD, ISABELLE	3,106,014	CENTRE NATIONAL DE LA RECHERCHE	
BOUKOBZA, SARAH	3,106,129	BUTTERFLY NETWORK, INC.	3,105,492	SCIENTIFIQUE	3,105,584
BOULDIN, BRETT	3,105,518	BWAY CORPORATION	3,105,735	CENTRE NATIONAL DE LA RECHERCHE	
BOUNDY, TIM J.	3,105,775	BYSTROM, STYRBJORN	3,105,566	SCIENTIFIQUE	3,105,898
BOURDIER, FABRICE	3,105,225	BYTEDANCE INC.	3,105,330	CENTRE NATIONAL DE LA RECHERCHE	
BOURKE, PETER A.	3,105,447	BYTEMARK, INC.	3,105,335	SCIENTIFIQUE	3,105,584
BOUTAOUAKOU, PAPUS	3,105,752	BZIGO LTD	3,105,655	CENTRE NATIONAL DE LA RECHERCHE	
BOUTELOUP, DAVID	3,105,225	C.R. BARD, INC.	3,104,960	SCIENTIFIQUE	3,105,898
BOUYAUD, MICKAEL	3,105,952	CABIDO, RAUL	3,105,309	CENTRE NATIONAL DE LA RECHERCHE	
BOWMAN, NICOLAS JOHN	3,105,978	CADIEUX, JEAN-JACQUES ALEXANDRE	3,106,031	SCIENTIFIQUE	3,106,068
BRACCO IMAGING SPA	3,105,610	CAGENT VASCULAR, LLC	3,105,746	CENTRE REGIONAL FRANCOIS BACLESSE	3,105,532
BRADBURY, ANDREW RAYMON MORTON	3,106,115	CALERO SCANLAN, DAVID	3,105,522	CERSETO, ANNA	3,105,925
BRADENBURG, FRANK E.	3,105,832	CALIMANI, GIOVANNI BATTISTA	3,105,423	CERVI, LAURENT	3,105,902
BRADLEY, REGINALD	3,105,770	CAMBRIDGE ENTERPRISE LIMITED	3,106,027	CERVINKA, ALEXANDRE	3,106,117
BRADLEY, RICHARD	3,105,376	CAMBRIDGE MOBILE TELEMATICS INC.	3,105,835	CHA, TAI-LUNG	3,106,060
BRADLEY, WILLIAM	3,105,835	CAMPBELL, SUSAN ROSEMARY	3,105,395	CHALLA, SREERUPA	3,106,110
BRANDT, LUC	3,105,509	CAMPOS, KEVIN R.	3,105,823	CHAMBERLAIN, CORNELL C.	3,105,918
BRASOLA, ELENA	3,105,559	CANADAY, DANIEL	3,104,973	CHAMMAS, ANDREW M.	3,106,162
BRATSCH, CHRISTIAN	3,104,947	CANBREED LTD.	3,105,433	CHAN, KWAN CHEE	3,105,349
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BRAUN, RALF	3,105,217	CANTATORE, VINCENZO	3,105,788	CHANDELIER, FLORENT	3,105,533
BREGEON, VERONIQUE	3,105,487	CAO, MINGJUN	3,105,541	CHANG, FAKUEN FRANK	3,105,518
BRENNER, JOSHUA	3,104,965	CAO, YIJUN	3,105,291	CHANG, PO-CHUN	3,105,743
BREWER, BRENT	3,105,384	CAPELLI, ANNA MARIA	3,104,955	CHAPADOS, NICOLAS	3,105,533
BRIGHT, CORINNE	3,105,343	CAPITAL ONE SERVICES, LLC	3,105,988	CHAPRON, CHRISTOPHER	3,105,988
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CHASSOT, PIERRE-YVES	3,105,620	CHOU, CHIENHUNG	3,105,485	COMPANY, ROBERTO	3,105,567
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CHEN, SHAN	3,105,698	CJ CHEILJEDANG CORPORATION	3,105,666	COSTA, THIAGO FERREIRA	3,105,718
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DE FOLTER, MARCELLUS ANTONIUS	3,105,488	DING, ZHONG	3,105,457	EGAMI, AKIKO	3,105,602
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DE MORAIS, STEPHANIE BATH	3,105,326	DISSELKOEN, MATTHEW R.	3,105,497	EID, LINDA MAREE	3,105,287
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		VAXCYTE, INC.	WANG, PU	3,105,863
		VAZQUEZ GALLEGO, FRANCISCO	WANG, RUIDONG	3,106,124
		VELASCO VALCKE, FRANCISCO JAVIER	WANG, SHIXIA	3,105,698
		VELAZQUEZ CAMPOY, ADRIAN	WANG, WEN	3,105,396
		VENDITTI, PIERRE	WANG, WEN	3,105,397
		VERLEYE, MICHAEL	WANG, XIANGJIAN	3,106,055
		VERMA, VISHAAL	WANG, XIANQUN	3,105,684
		VERMEER MANUFACTURING COMPANY	WANG, XIAOZHAO	3,105,721
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WARD, ALEXANDER	3,106,162	CHRISTOPHE	3,105,700	YEDIDYA, LIOR	3,105,242
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WIENCEK, EDWARD	3,105,423	PROTECTION		ELISABETH	3,105,265
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ZHONG, HUA	3,106,055
ZHONG, XUE	3,105,595
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ZHOU, HONGBO	3,088,807
ZHOU, JIANGUANG	3,106,124
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ZHOU, WENBIN	3,105,599
ZHOU, XIAOMAI	3,105,541
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ARAGON PHARMACEUTICALS, INC.	3,105,552	FISHER & PAYKEL HEALTHCARE LIMITED	3,105,568	LU, XIA	3,105,571
ARATANA THERAPEUTICS, INC.	3,105,571	FITZGIBBON, JAMES J.	3,105,252	LUTHRA, AJAY KUMAR	3,105,562
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BAKER HUGHES, A GE COMPANY, LLC	3,104,988	FRESENIUS KABI DEUTSCHLAND GMBH	3,104,940	MAMMEN, THOMAS	3,105,838
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BECTON, DICKINSON AND COMPANY	3,105,095	GEYER, CHRISTOPHER	3,104,707	MANEVAL, EDNA CHOW	3,105,552
BERKSHIRE GREY, INC.	3,104,707	GOHARI, KOUSHA	3,104,988	MARONEY, KYLE	3,104,707
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BIOINTERACTIONS LIMITED	3,105,565	GORA, KATHERINE	3,105,722	MASON, MATTHEW	3,104,707
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BULLIS, DAVID T.	3,105,047	HARPER, CHRISTOPHER	3,104,988	MCNULTY, JOHN J.	3,104,990
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BURROWS, FANNY	3,105,565	HELGESEN, JAMES P.	3,104,734	MILLAR, GAVIN WALSH	3,105,568
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C.R. BARD, INC.	3,104,865	HERBERT, MARK R.	3,105,552	MONSANTO TECHNOLOGY LLC	3,105,047
CANON KABUSHIKI KAISHA	3,105,066	HOLDEN, DANIAL E.	3,105,496	MUNKELT, KATJA	3,105,568
CATE, CASPARUS	3,105,252	HONG, LE-HOA	3,105,838	MURAKAMI, RYUTA	3,105,066
CCL LABEL, INC.	3,105,838	HORIKAWA, TADASHI	3,105,066	MURRAY, JAMES SCOTT	3,105,252
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		KAPOOR, KRISHAN	3,105,562	ONIS, SIMON	3,105,565
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PRECISION PLANTING LLC	3,104,980	VELAGAPUDI, PRASANNA	3,104,707
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SMITH, NICHOLAS D.	3,105,552		
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STOLLER, JASON	3,104,980		
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