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# The Patent

Office Record

# La Gazette

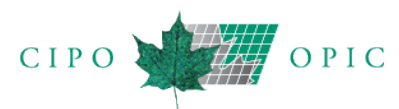
du Bureau des brevets



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Canada



# THE CANADIAN PATENT OFFICE RECORD

## LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle  
Commissioner of Patents

Johanne Bélisle  
Commissaire aux brevets

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

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

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

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

# Table of Contents

## Table des matières

Notices	
Avis .....	1
Canadian Patents Issued	
Brevets canadiens délivrés .....	24
Canadian Applications Open to Public Inspection	
Demandes canadiennes mises à la disponibilité du public.....	91
PCT Applications Entering the National Phase	
Demandes PCT entrant en phase nationale .....	108
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 .....	319
Index of Canadian Patents Issued	
Index des brevets canadiens délivrés .....	326
Index of Canadian Applications Open to Public Inspection	
Index des demandes canadiennes mises à la disponibilité du public .....	338
Index of PCT Applications Entering the National Phase	
Index des demandes PCT entrant en phase nationale .....	341
Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection	
Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant .....	378

## 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:

2,601,327  
2,717,612  
2,723,930  
2,732,434  
2,738,289

## 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 :

2,601,327  
2,717,612  
2,723,930  
2,732,434  
2,738,289

**Avis**

2,740,972	2,740,972
2,746,136	2,746,136
2,757,433	2,757,433
2,780,231	2,780,231
2,780,235	2,780,235
2,783,452	2,783,452
2,785,625	2,785,625
2,808,239	2,808,239

## 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 January 2, 2018

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1708*
For each additional sheet over 30	\$19
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 2 janvier 2018

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1708 \$*
Pour chaque feuille au delà de 30	19 \$
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



## Avis

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.

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. Late payment fee

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

### 4. Taxe pour paiement tardif

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

## Preliminary Examination

## Examen préliminaire

5. Handling fee (Rule 57.2(a)) \$257

5. Taxe de traitement (Règle 57.2a) 257 \$

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

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

\* International fees will be reduced by:

\* Les frais seront réduits de:

- \$257 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$385 for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

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

## 12. Avis PCT

### Patent Cooperation Treaty (PCT)

### Traité de Coopération en matière de brevets (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.

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.

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

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 :

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

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

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)).

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

## Avis

Offices.

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

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

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

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

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

## 14. Correspondence Procedures

June 20, 2017

1. [Physical Delivery of Correspondence to CIPO](#)
2. [Electronic Correspondence](#)
3. [Details concerning the electronic formats accepted](#)
4. [General Information](#)
5. [Statutory Holidays](#)
6. [Procedures in case of an unexpected Office closure at CIPO](#)
7. [Procedures when CIPO is open for business but clients are unable to communicate with the Office](#)
8. [Intellectual property acts, rules and regulations](#)

**This notice will replace all previous notices regarding Correspondence Procedures.**

**Note:** *This practice notice is intended to provide guidance on current Canadian Intellectual Property 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.*

### 1. Physical Delivery of Correspondence to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, section 3 of the Trade-marks Regulations, section 2 of the Copyright Regulations, section 3 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the

## 14. Procédures de correspondance

le 20 juin, 2017

1. [Livraison en personne de correspondance à l'OPIIC.](#)
2. [Correspondance électronique](#)
3. [Précisions concernant les formats électroniques acceptés](#)
4. [Renseignements généraux](#)
5. [Jours fériés](#)
6. [Procédures en cas de fermeture des bureaux](#)
7. [Procédures à suivre lorsque les clients sont incapables de communiquer avec les bureaux de l'Office de la propriété intellectuelle du Canada durant les heures d'ouverture](#)
8. [Lois, règles et règlements sur la propriété intellectuelle](#)

**Le présent avis remplacera tous les avis antérieurs relatifs aux procédures de correspondance.**

**Nota :** *Le présent avis fournit une orientation concernant les pratiques et interprétations relatives aux lois pertinentes au sein de l'Office de la propriété intellectuelle du Canada. Toutefois, en cas d'incompatibilité entre cet avis et la législation applicable, c'est celle-ci qu'il faudra suivre.*

### 1. Livraison en personne de correspondance à l'OPIIC

Aux fins des articles 5 et 54 des Règles sur les brevets, de l'article 3 du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 3 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse

## Notices

Registrar of Trade-marks, the Copyright Office, the Industrial Design section of the Office of the Commissioner of Patents, 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

Correspondence delivered to the above address during ordinary business hours 8:30 a.m. to 4:30 p.m. (local time) will be considered to be received on the date of delivery.

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 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 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 following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered **in person**:

1. 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
2. Innovation, Science and Economic Development  
Canada  
Sun Life Building  
1155 Metcalfe Street, Room 950  
Montreal QC H3B 2V6

du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, de la Section des dessins industriels du Bureau du commissaire aux brevets, 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

La correspondance livrée à l'adresse ci-dessus lors des heures normales d'ouverture, soit de 8h30 à 16h30 (heure locale), sera considérée comme ayant été reçue la journée même de la livraison.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, il ne peut pas la retourner 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 ne satisfaisant pas aux 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 devrait toujours être présenté comme page couverture et devrait être le seul document soumis à l'OPIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le [formulaire de paiements](#).

### 1.1 Établissements désignés

Aux fins des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 3(4) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, du paragraphe 3(4) du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les établissements ou bureaux désignés où peut être livrée **en personne** la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies sont les suivants :

1. Innovation, Sciences et Développement économique  
Canada  
Édifce 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
2. Innovation, Sciences et Développement économique  
Canada  
Édifce Sun Life  
1155, rue Metcalfe, bureau 950  
Montréal (Québec) H3B 2V6

## Avis

Tel.: 514-496-1797  
Toll-free: 1-888-237-3037

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

3. 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

4. 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

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

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

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

Correspondence delivered, during ordinary business hours, to one of the designated establishments listed above, will be considered to be received on the date of delivery to that designated establishment, only if it is also a day on which CIPO is open for business. Correspondence delivered to a designated establishment on a day when CIPO is closed for business will be considered to be received on the next day on which CIPO is open for business. For example, correspondence delivered to the designated establishment in Toronto on June 24 will not be considered received on June 24 since CIPO is closed for business. The correspondence will be considered received on the next day CIPO is open for business.

Please note that documents delivered to the addresses listed above must be enclosed in a sealed envelope.

### 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

Tél. : 514-496-1797  
Sans frais : 1-888-237-3037

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

3. 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

4. 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 h 30 à 16 h 30 (heure locale) du lundi au vendredi

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

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

La correspondance livrée pendant les heures normales d'ouverture à l'un des établissements désignés susmentionnés sera réputée reçue à la date de livraison à cet établissement seulement si l'OPIC est ouvert au public à cette même date. Sinon, elle sera réputée avoir été reçue à la date du jour d'ouverture suivant de l'OPIC. Par exemple, la correspondance livrée à un établissement désigné à Toronto le 24 juin ne sera pas considérée comme ayant été reçue le 24 juin, puisque les bureaux de l'OPIC seront fermés. La correspondance sera considérée comme ayant été reçue lors de la prochaine journée ouvrable de l'OPIC.

Prendre note que les documents livrés aux adresses énumérées ci-dessus doivent être insérés dans une enveloppe scellée.

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

Aux fins des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 3(4) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, du paragraphe 3(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

## Notices

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

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

### 2. Electronic Correspondence

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, subsection 3(6) of the Trade-marks Regulations, subsection 2(6) of the Copyright Regulations, subsection 3(6) 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 Trade-marks, the Copyright 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 3(9) of the Trade-marks Regulations specifies certain categories of correspondence to which the provisions of subsection 3(6) do not apply and which thus may not be sent by facsimile or online.

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

Correspondence delivered 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 open for business.

établissements ou des bureaux désignés auxquels 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 livrée.

L'OPIC considère que la correspondance livrée 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 émis par Postes Canada, ou si l'OPIC est fermé au public ce jour-là, le jour de la réouverture de l'OPIC.

### 2. Correspondance électronique

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, du paragraphe 3(6) du Règlement sur les marques de commerce, du paragraphe 2(6) du Règlement sur le droit d'auteur, du paragraphe 3(6) du Règlement sur les dessins industriels et du 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 ou au registraire des topographies peut être transmise par télécopieur ou encore en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent avis.

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 3(9) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 3(6) ne s'appliquent pas et qui, par conséquent, ne peuvent pas être envoyées par télécopieur ou en ligne.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies tient lieu d'original. Par conséquent, une copie sur support papier ne devrait pas être expédiée.

La correspondance livrée et reçue par voie électronique, y compris par télécopieur, est réputée reçue à l'OPIC le jour même avant minuit, heure locale, lorsque l'OPIC est ouvert au public. Si elle est transmise un jour où l'OPIC est fermé au public, elle est réputée reçue à la date du jour d'ouverture suivant de l'OPIC.

## Avis

### 2.1 Facsimile

Facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent to the following facsimile numbers:

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

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

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 a document by facsimile 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.

### 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](#)

### 2.1 Correspondance par télécopieur

La correspondance par télécopieur 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 aux numéros ci-dessous :

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

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 ou de bureaux désignés, sera réputée non reçue.

Le rapport de transmission électronique que vous recevrez après votre envoi 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'interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Quand on transmet par télécopieur un document comprenant une demande d'acquiescement de frais, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements en vue d'assurer un traitement rapide.

### 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

Aux fins du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment par le biais des 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](#)

## Notices

- of patent agents; and
- ordering copies in paper, or electronic form of a document.

- des agents de brevets;
- commande de copies papier ou d'un document sous forme électronique.

### 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 3(6) of the Trade-marks Regulations, the following correspondence addressed to the Registrar of Trade-marks may be sent electronically by 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;
- filing of a declaration of use;
- registration of a trademark application;
- statement of Opposition; and
- extensions of time in trademark opposition cases

### Copyright

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

### 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

Aux fins du paragraphe 3(6) du Règlement sur les marques de commerce, la correspondance indiquée ci-dessous qui est adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment par les pages suivantes :

- 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,
- dépôt d'une déclaration d'emploi;
- l'enregistrement d'une marque de commerce
- dépôt d'une déclaration d'opposition; et
- demande de prolongation de délai dans une procédure d'opposition.

### Droits d'auteur

Aux fins 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. Pour ce faire, il faut accéder 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



## Avis

- [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](#).

- [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](#).

## Industrial Designs

For the purpose of subsection 3(6) of the Industrial Design Regulations, the following correspondence addressed to the Commissioner of Patents 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](#).

## Dessins industriels

Aux fins du paragraphe 3(6) du Règlement sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au commissaire aux brevets peut être transmise par voie électronique. Pour ce faire, il faut accéder 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](#).

## 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](#).

## Topographies de circuits intégrés

Aux fins 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. Pour ce faire, il faut accéder à la page suivante :

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

## 2.3 Electronic medium

### 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

## 2.3 Supports électroniques

### Brevets

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

## Notices

application itself or amendment(s) thereof.

contient des parties de la demande elle-même ou des modifications relatives à la demande.

### 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 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

### 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.

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 des brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe

## Avis

the PCT Administration Instructions.

The electronic medium must also be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

### 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 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 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.

F des Instructions administratives du PCT.

Le support électronique doit aussi être exempt de tout ver, virus ou autre contenu malveillant. Les fichiers ayant un contenu malveillant seront effacés.

### 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](#) de ces 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.

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.

## Notices

### ASCII

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

### Industrial Design

For the purposes of subsection 3(6) of the Industrial Design Regulations, the acceptable file formats for documents submitted electronically using the relevant links set out in [section 2.2](#) of these correspondence procedures are: TIFF, JPEG, WPD and Doc. 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 one of the acceptable formats and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

When submitting images electronically, we strongly encourage clients to comply with the following specifications:

#### TIFF Format:

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

#### Photographs in JPEG Format:

- JPEG compression, Gray Scale 8 bit (256 Shades of Gray);
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 1/2" by 11";
- Resolution of 300 dpi

For all images submitted in different formats, the office may print and scan the images or convert them to recommended formats prior to loading them in the database. If the office converts files to an acceptable format this could result in a change in quality to the drawings.

### ASCII

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

### Dessins industriels

Aux fins des paragraphes 3(6) et 12(3) du Règlement sur les dessins industriels, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) de ces procédures de correspondance sont : TIFF, JPEG, WPD et DOC. 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 présentés dans un des formats acceptables, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents déposés à l'origine.

Nous encourageons fortement les clients à respecter les spécifications suivantes lorsqu'ils déposent des images par voie électronique :

#### Format TIFF :

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- 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
- Résolution : 300 ppp

#### Photographies en format JPEG :

- Compression JPEG, échelle de gris de 8 bits (256 tons de gris)
- 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
- Résolution : 300 ppp

Pour toutes les images soumises dans différents formats, le bureau peut imprimer et balayer les images par scanner ou les convertir dans les formats recommandés avant leur chargement dans la base de données. Si le bureau convertit les fichiers dans un format acceptable, ceci pourrait résulter en un changement de la qualité des dessins.

#### 4. General Information

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

#### 5. Statutory Holidays

- [Time limits under the Patent, Trade-marks, Industrial Design, Copyright and Integrated Circuit Topography Acts](#)
- [Time limits under the Patent and Trade-marks Act](#)
- [Time limits under the Patent Cooperation Treaty](#)
- [Provincial and Territorial Holidays](#)
- [When Patent and Trademarks Offices are closed for business](#)

#### **Time limits under the Patent, Trade-marks, Industrial Design, Copyright and Integrated Circuit Topography Acts**

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to a designated establishment (including CIPO's offices in Gatineau, Quebec; an Innovation, Science and Economic Development Canada regional office or 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, 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.

#### 4. Renseignements généraux

On pourra obtenir des renseignements généraux en communiquant avec [le Centre de services à la clientèle de l'OPIC](#).

#### 5. Jours fériés

- [Délais prévus dans les lois sur les brevets, les marques de commerce, les dessins industriels, le droit d'auteur et les topographies de circuits intégrés](#)
- [Délais prévus dans la Loi sur les brevets et dans la Loi sur les marques de commerce](#)
- [Délais prévus dans le Traité de coopération en matière de brevets](#)
- [Jours fériés provinciaux ou territoriaux](#)
- [Jours de fermeture au public des bureaux des brevets et des marques de commerce](#)

#### **Délais prévus dans les lois sur les brevets, les marques de commerce, les dessins industriels, le droit d'auteur et les topographies de circuits intégrés**

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à un établissement désigné (y compris les bureaux de l'OPIC à Gatineau, au Québec, un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé 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 sur les établissements auxquels des documents sont 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.

## Notices

### Time limits under the Patent and Trade-marks Acts

In addition to the extensions of time limits referred to above, in accordance with subsection 78(1) of the Patent Act and subsection 66(1) of the Trade-marks Act, any patent or trademark time limit that expires on a day when the Patent and Trademarks Offices are closed for business is deemed to be extended to the next day when the offices are open for business. All persons are entitled to these extensions regardless of their place of residence or of the establishment to which documents are delivered.

No equivalent provisions exist under the Industrial Design Act, the Copyright Act or the Integrated Circuit Topography Act.

### Time limits 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.

CIPO takes the position that section 26 of the Interpretation Act applies to PCT international applications filed in Canada. Accordingly, where a person has a time limit under the PCT for

### Délais prévus dans la Loi sur les brevets et dans la Loi sur les marques de commerce

En plus des prorogations indiquées aux paragraphes précédents, les paragraphes 78(1) de la Loi sur les brevets et 66(1) de la Loi sur les marques de commerce stipulent que tout délai relatif aux brevets ou aux marques de commerce qui expire un jour où les bureaux des marques de commerce et des brevets sont fermés au public est réputé prorogé jusqu'au jour de réouverture de ces bureaux. Toute personne a droit à une telle prorogation quel que soit son lieu de résidence ou l'établissement auquel les documents sont livrés.

Il n'existe pas de disposition équivalente dans la Loi sur les dessins industriels, la Loi sur le droit d'auteur ou dans la Loi sur les topographies de circuits intégrés.

### Délais prévus dans le 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.

L'OPIC estime que l'article 26 de la Loi d'interprétation s'applique aux demandes internationales du PCT déposées au Canada. Par conséquent, lorsqu'un délai prévu dans le cadre du

## Avis

the filing of a document in Canada 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. CIPO, however, takes no position as to whether such extensions would be recognized by other countries, and it will be the responsibility of the person filing the document to ensure that in other countries of interest they are properly entitled to any needed extension of the time limit by reason of Rule 80.5 of the Regulations under the PCT or some other applicable law.

PCT pour le dépôt d'un document au Canada expire un jour férié provincial ou territorial, si le déposant livre le document en question le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement où une prorogation du délai est justifiée. Toutefois, il ne se prononce pas sur l'acceptation éventuelle de ces prorogations par d'autres pays; il incombera à la personne qui dépose le document de vérifier si elle a droit à une prorogation, dans d'autres pays qui l'intéressent, en vertu de la règle 80.5 du Règlement d'exécution du PCT ou d'une autre loi pertinente.

### Provincial and Territorial Holidays

For the purposes of this practice notice, CIPO has identified the following as being days that are not federal holidays but that are holidays in one or more provinces or territories:

1. **Alberta:** Third Monday in February (Alberta Family Day)
2. **British Columbia:**
  - o First Monday in August (British Columbia Day)
  - o Second Monday in February (British Columbia Family Day)
3. **New Brunswick:** First Monday in August (New Brunswick Day)
4. **Newfoundland and Labrador:**
  - o March 17 (St. Patrick's Day)
  - o April 23 (St. George's Day)
  - o June 24 (Discovery Day)
  - o July 12 (Orangemen's Day)
  - o First Monday in August (Regatta Day)
5. **Nova Scotia:** First Monday in August (Civic Holiday)
6. **Ontario:**
  - o Third Monday in February (Ontario Family Day)
  - o First Monday in August (Civic Holiday)
7. **Prince Edward Island:** First Monday In August (Civic Holiday)
8. **Quebec:** June 24 (St. John the Baptist Day)
9. **Saskatchewan:** First Monday in August (Saskatchewan Day)
10. **Yukon:** Third Monday in August (Discovery Day)

### When CIPO's Offices are closed for business

For the purposes of subsection 78(1) of the Patent Act and subsection 66(2) of the Trade-marks Act, CIPO's Offices are closed for business on the following days:

### Jours fériés provinciaux ou territoriaux

Aux fins du présent avis, l'OPIC a indiqué que les jours ci-après, qui ne sont pas des jours fériés pour l'administration fédérale, sont des jours fériés dans au moins une province ou territoire :

1. **Alberta :** troisième lundi de février (Jour de la Famille de l'Alberta)
2. **Colombie-Britannique :**
  - o premier lundi d'août (Fête de la Colombie-Britannique)
  - o deuxième lundi de février (Jour de Famille de la Colombe –Britannique)
3. **Nouveau-Brunswick :** premier lundi d'août (Fête du Nouveau-Brunswick)
4. **Terre-Neuve et Labrador :**
  - o 17 mars (Fête de la Saint-Patrick)
  - o 23 avril (Fête de la Saint-Georges)
  - o 24 juin (Journée de la Découverte)
  - o 12 juillet (Jour des Orangistes)
  - o Premier lundi d'août (Journée de la Régate)
5. **Nouvelle-Écosse :** premier lundi d'août (congé statutaire)
6. **Ontario :**
  - o troisième lundi de février (Jour de la Famille de l'Ontario)
  - o premier lundi d'août (congé statutaire)
7. **L'Île-du-Prince-Édouard :** premier lundi d'août (congé civique)
8. **Québec :** 24 juin (Saint-Jean-Baptiste)
9. **Saskatchewan :** premier lundi d'août (Fête de la Saskatchewan)
10. **Yukon :** troisième lundi d'août (Journée de la Découverte)

### Jours de fermeture des bureaux de l'OPIC au public

Pour l'application des paragraphes 78(1) de la Loi sur les brevets et 66(2) de la Loi sur les marques de commerce, les bureaux de l'OPIC sont fermés au public les jours suivants :

## Notices

- All Saturdays and Sundays
- New Year's Day (January 1)\*
- Good Friday
- Easter Monday
- Victoria Day: First Monday immediately preceding May 25
- St. John the Baptist Day (June 24)\*
- Canada Day (July 1)\*
- Labour Day: First Monday in September
- Thanksgiving Day: Second Monday in October
- Remembrance Day (November 11)\*
- Christmas Day (December 25)\*
- Boxing Day (December 26)

- Tous les samedi et dimanche
- Jour de l'An (1er janvier)\*
- Vendredi Saint
- Lundi de Pâques
- Fête de Victoria : premier lundi précédant le 25 mai
- Saint-Jean-Baptiste (le 24 juin)\*
- Fête du Canada (1er juillet)\*
- Fête du travail : premier lundi de septembre
- Jour de l'Action de grâces : deuxième lundi d'octobre
- Jour du souvenir (11 novembre)\*
- Jour de Noël (25 décembre)\*
- L'après-Noël (26 décembre)

If December 26 falls on a Saturday, CIPO's Offices will be closed on the following Monday. If December 26 falls on a Sunday or Monday, the Offices are closed on the following Tuesday.

Si le 26 décembre est un samedi, les bureaux de l'OPIC seront fermés le lundi suivant. S'il coïncide avec un dimanche ou un lundi, les bureaux le seront le mardi d'après.

\* If any of these holidays fall on a Saturday or Sunday, the Offices will be closed on the following Monday.

\* Si l'un ou l'autre de ces jours fériés est un samedi ou un dimanche, les bureaux des brevets et marques de commerce seront fermés le lundi suivant.

### 6. Procedures in case of an unexpected office closure at CIPO

In case of an **emergency**, CIPO will attempt to remain open for business and ensure that essential service to our clients continues with the least possible disruption or delay.

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.

Whenever CIPO is closed for business, including closures due to extraordinary circumstances, CIPO considers **all time limits to be extended until the next day that it is open for business**. In such situations, mail delivered to CIPO or to the designated regional offices will be considered to be received on the date that CIPO re-opens for business, with the exception of correspondence addressed to the Registrar of Topographies.

There may also be instances in which the designated regional offices may be temporarily closed, yet CIPO remains open for business. In such situations, it remains the responsibility of CIPO's clients to ensure that all deadlines are respected.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or electronically 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); however date-sensitive material requiring fee payment that is sent by fax must be accompanied by a VISA, MasterCard, or American Express credit card number, or CIPO

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

Dans une **situation d'urgence**, 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.

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.

Dans les cas où l'OPIC est fermé au public, y compris pour des raisons exceptionnelles, **les dates limites seront réputées être reportées au prochain jour où l'OPIC sera ouvert au public**. Le cas échéant, sauf pour la correspondance adressée au registraire des topographies, le courrier livré à l'OPIC ou aux bureaux régionaux désignés sera réputé avoir été reçu le jour où l'OPIC rouvre au public.

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.

Les clients sont **fortement encouragés** à 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 de ces procédures de correspondance. Il est toujours possible de télécopier des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des frais sont exigés, envoyés par



## Avis

deposit account number.

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 on our [service interruptions](#) as they become available and as circumstances permit.

### 7. Procedures when CIPO is open for business 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 for business 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 Trade-marks Act and Regulations does allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. For a retroactive extension of time to be granted, the Registrar of Trade-marks 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 of \$125 may be required in certain cases.

CIPO notes that [Bill C-59 – Budget Implementation Act 2015](#), which received royal assent on June 23, 2015, contains provisions for extensions of time in Force Majeure-type situations (such as catastrophic events). CIPO has commenced work on regulatory amendments to the Patent Rules, Trade-Marks Regulations and the Industrial Design Regulations to bring Bill C-59 into force.

télécopieur, doivent être accompagnés d'un numéro de carte VISA, Mastercard ou American Express ou d'un numéro de compte de dépôt à l'OPIC.

En cas d'urgence, les systèmes d'information et de recherche seront, 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 cas d'urgence, l'OPIC affichera les renseignements nécessaires sur notre [page d'interruptions des services](#) lorsque ceux-ci seront disponibles et si les circonstances le permettent.

### 7. Procédures à suivre lorsque les clients sont incapables de communiquer avec les bureaux de l'Office de la propriété intellectuelle du Canada durant les heures d'ouverture

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

Le cadre législatif relié aux types de propriété intellectuelle mentionnés ci-haut ne permet pas à l'OPIC d'avoir la flexibilité de proroger les délais lors d'une journée ouvrable pendant laquelle les clients sont dans l'impossibilité de communiquer avec le bureau.

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 prorogation rétroactive lorsqu'un délai n'a pas été respecté en raison d'une situation de force majeure. Pour qu'une prorogation 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 de 125 \$ peut être exigé dans certains cas.

L'OPIC souligne que le [projet de loi C-59 – Loi d'exécution du budget 2015](#), qui a reçu la sanction royale le 23 juin 2015, renferme des dispositions permettant la prorogation de délais dans des cas de force majeure (événements catastrophiques par exemple). L'OPIC a entamé des travaux visant à apporter des modifications réglementaires aux Règles sur les brevets, au Règlement sur les marques de commerce et au Règlement sur les dessins industriels afin de mettre le projet de loi C-59 en vigueur.

## Notices

### 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](#)
- [Patent Rules](#)
- [Regulations under the PCT](#)
- [Trade-marks Regulations](#)

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

### 15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of May 29, 2018 contains applications open to public inspection from May 13, 2018 to May 19, 2018.

### 16. Erratum

The information concerning the notice of removal from the register of patent agents for the following patent agent of the Canadian Patent Office Record of April 17, 2018 was incorrect. The following patent agent is in good standing:

SHANKS, ANDREW

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

La *Gazette du bureau des brevets* du 29 mai 2018 contient les demandes disponibles au public pour consultation pour la période du 13 mai 2018 au 19 mai 2018.

### 16. Erratum

Les renseignements concernant l'avis concernant le registre des agents de brevets pour annoncer que l'agent de brevets ci-dessous était supprimé dans la *Gazette du Bureau des brevets* le 17 avril 2018 sont inexacts. L'agent de brevets suivant est en règle:

SHANKS, ANDREW

# Canadian Patents Issued

May 29, 2018

## Brevets canadiens délivrés

29 mai 2018

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[11] **2,489,772**  
[13] C

[51] **Int.Cl. C01G 25/00 (2006.01) B01D 53/94 (2006.01) B01J 23/10 (2006.01) B01J 21/00 (2006.01)**

[25] FR

[54] **COMPOSITION BASED ON ZIRCONIUM OXIDE AND OXIDES OF CERIUM, LANTHANUM AND OF ANOTHER RARE EARTH, A METHOD FOR PREPARING SAME AND USE THEREOF AS CATALYST**

[54] **COMPOSITION A BASE D'OXYDE DE ZIRCONIUM ET D'OXYDES DE CERIUM, DE LANTHANE ET D'UNE AUTRE TERRE RARE, SON PROCEDE DE PREPARATION ET SON UTILISATION COMME CATALYSEUR**

[72] HEDOUIN, CATHERINE, FR

[73] RHODIA OPERATIONS, FR

[85] 2004-12-16

[86] 2003-06-26 (PCT/FR2003/001972)

[87] (WO2004/002893)

[30] FR (02/07926) 2002-06-26

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[11] **2,544,188**  
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING AN ONLY AT BEST ORDER TYPE IN AN ELECTRONIC TRADING SYSTEM**

[54] **SYSTEMES ET METHODES ASSURANT LE MEILLEUR TYPE DE COMMANDE DANS UN SYSTEME DE COMMERCE ELECTRONIQUE**

[72] LUTNICK, HOWARD W., US

[72] FOLEY, KEVIN M., US

[72] NOVIELLO, JOSEPH, US

[72] SWEETING, MICHAEL, GB

[73] BGC PARTNERS, INC., US

[86] (2544188)

[87] (2544188)

[22] 2006-04-18

[30] US (60/672,372) 2005-04-18

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[11] **2,558,242**  
[13] C

[51] **Int.Cl. G06F 9/06 (2006.01) G06F 9/46 (2006.01)**

[25] EN

[54] **CONTROLLING TASK EXECUTION USING A GRAPHICAL REPRESENTATION OF TASK DEPENDENCY**

[54] **EXECUTION DE TACHE DE CONTROLE A PARTIR DE LA REPRESENTATION GRAPHIQUE DE DEPENDANCE A LA TACHE**

[72] INCHINGOLO, FRANK, US

[72] STANFILL, CRAIG W., US

[73] AB INITIO TECHNOLOGY LLC, US

[85] 2006-08-31

[86] 2005-03-08 (PCT/US2005/007692)

[87] (WO2005/086842)

[30] US (10/796,612) 2004-03-08

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[11] **2,584,663**  
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01) A61F 2/95 (2013.01)**

[25] EN

[54] **FILTER DELIVERY SYSTEM**

[54] **SYSTEME D'ADMINISTRATION DE FILTRE**

[72] TESSMER, ALEXANDER W., US

[72] SPILKA, DAVID G., US

[72] RAUCH, DAVID W., US

[72] CHANDUSZKO, ANDRZEJ JERZY, US

[72] CARR, ROBERT MICHAEL, JR., US

[73] C. R. BARD, INC., US

[85] 2007-04-19

[86] 2005-10-20 (PCT/US2005/037922)

[87] (WO2006/055174)

[30] US (10/986,714) 2004-11-12

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[11] **2,596,482**  
[13] C

[51] **Int.Cl. B60P 3/07 (2006.01) B60D 1/14 (2006.01) B62D 49/00 (2006.01) B62D 53/08 (2006.01)**

[25] EN

[54] **FRONT TOW EXTENDED SADDLE**

[54] **SABOT AVANT PROLONGE DE REMORQUAGE**

[72] SCHUETTENBERG, DONALD W., US

[73] ATC TRANSPORTATION LLC, US

[86] (2596482)

[87] (2596482)

[22] 2007-08-08

[30] US (11/463,390) 2006-08-09

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[11] **2,598,711**  
[13] C

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/00 (2006.01)**

[25] EN

[54] **VEGF ANTAGONIST FORMULATIONS**

[54] **FORMULATIONS D'ANTAGONISTES DU FACTEUR VEGF**

[72] DIX, DANIEL, US

[72] FRYE, KELLY, US

[72] KAUTZ, SUSAN, US

[73] REGENERON PHARMACEUTICALS, INC., US

[85] 2007-08-20

[86] 2006-03-22 (PCT/US2006/010600)

[87] (WO2006/104852)

[30] US (60/665,125) 2005-03-25

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May 29, 2018**

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[11] \*2,601,327  
[13] C

[51] **Int.Cl. G06F 19/00 (2018.01) G06Q 10/06 (2012.01) G06F 3/14 (2006.01)**  
[25] EN  
[54] **PROCESS DATA PRESENTATION BASED ON PROCESS REGIONS**  
[54] **PRESENTATION DE DONNEES DU PROCESSUS BASEE SUR LES ZONES DU PROCESSUS**  
[72] BENAYON, J., CA  
[72] LAU, KUI YAN, CA  
[72] NG, BERNATH, CA  
[72] ROSS, ALEX, CA  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[86] (2601327)  
[87] (2601327)  
[22] 2007-09-10  
[30] US (11/532,445) 2006-09-15

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[11] 2,629,381  
[13] C

[51] **Int.Cl. B27K 3/34 (2006.01) A01N 55/08 (2006.01)**  
[25] EN  
[54] **TIMBER TREATMENT WITH BORON**  
[54] **TRAITEMENT DE BOIS D'OEUVRE AU BORE**  
[72] STANIMIROFF, IVAN LAURENCE, NZ  
[73] STANIMIROFF, IVAN LAURENCE, NZ  
[85] 2008-05-09  
[86] 2006-11-10 (PCT/NZ2006/000291)  
[87] (WO2007/055601)  
[30] NZ (543487) 2005-11-10

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[11] 2,633,067  
[13] C

[51] **Int.Cl. F16F 3/10 (2006.01) A43B 13/18 (2006.01) A43B 13/20 (2006.01) A43B 21/26 (2006.01) F16F 1/373 (2006.01)**  
[25] EN  
[54] **ENERGY STORAGE AND RETURN SPRING**  
[54] **RESSORT A STOCKAGE ET RETOUR D'ENERGIE**  
[72] KLASSEN, JAMES B., CA  
[72] BOEHM, DAVID W., CA  
[73] POWERDISK DEVELOPMENT LTD., CA  
[86] (2633067)  
[87] (2633067)  
[22] 2008-05-30  
[30] US (60/970,263) 2007-09-06  
[30] US (60/992,920) 2007-12-06  
[30] US (61/016,555) 2007-12-24  
[30] US (61/016,558) 2007-12-24  
[30] US (61/024,898) 2008-01-30

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[11] 2,641,355  
[13] C

[51] **Int.Cl. G06T 7/00 (2017.01) G06F 17/20 (2006.01)**  
[25] EN  
[54] **METHOD FOR EVALUATION OF THE QUALITY OF AN IMAGE, METHOD FOR GENERATION OF A DOCUMENT, COMPUTER PROGRAM PRODUCT, USER INTERFACE, DATA FILE, AND ELECTRONIC DEVICE**  
[54] **METHODE D'EVALUATION DE LA QUALITE D'UNE IMAGE, METHODE DE PRODUCTION D'UN DOCUMENT, PRODUIT PROGRAMME D'ORDINATEUR, INTERFACE UTILISATEUR ET DISPOSITIF ELECTRONIQUE**  
[72] DOMES, JAN, DE  
[72] REMIREZ-CORONAS, LUIS, DE  
[73] BUNDESDRUCKEREI GMBH, DE  
[85] 2008-08-01  
[86] 2007-01-22 (PCT/EP2007/050596)  
[87] (WO2007/090727)  
[30] DE (10 2006 005 617.5) 2006-02-06

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[11] 2,642,608  
[13] C

[51] **Int.Cl. A61M 15/08 (2006.01)**  
[25] EN  
[54] **NASAL ADMINISTRATION**  
[54] **ADMINISTRATION NASALE**  
[72] DJUPESLAND, PER GISLE, NO  
[72] HAFNER, RODERICK PETER, GB  
[73] OPTINOSE AS, NO  
[85] 2008-08-15  
[86] 2006-01-19 (PCT/GB2006/000182)  
[87] (WO2007/083073)

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[11] 2,653,623  
[13] C

[51] **Int.Cl. H01J 49/00 (2006.01) H01J 49/26 (2006.01)**  
[25] EN  
[54] **MINIATURIZED ION MOBILITY SPECTROMETER**  
[54] **SPECTROMETRE DE MOBILITE IONIQUE MINIATURISE**  
[72] KAYE, WILLIAM J., US  
[72] STIMAC, ROBERT M., US  
[73] RAPISCAN LABORATORIES, INC., US  
[85] 2008-11-26  
[86] 2007-06-08 (PCT/US2007/070765)  
[87] (WO2008/070204)  
[30] US (60/812,463) 2006-06-09

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[11] 2,662,179  
[13] C

[51] **Int.Cl. G06Q 50/18 (2012.01) G06F 17/20 (2006.01) G06F 17/30 (2006.01)**  
[25] EN  
[54] **SYSTEMS, METHODS, SOFTWARE, AND INTERFACES FOR FORMATTING LEGAL CITATIONS**  
[54] **SYSTEMES, PROCEDES, LOGICIEL ET INTERFACES POUR FORMATER DES CITATIONS LEGALES**  
[72] STEENSGARD, DAVID, US  
[73] THOMSON REUTERS GLOBAL RESOURCES UNLIMITED COMPANY, CH  
[85] 2009-02-27  
[86] 2007-09-04 (PCT/US2007/019260)  
[87] (WO2008/027583)  
[30] US (60/842,058) 2006-09-01

**Brevets canadiens délivrés  
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[11] **2,664,142**  
[13] C

[51] **Int.Cl. B62M 1/12 (2006.01) B62K 17/00 (2006.01)**  
[25] EN  
[54] **SIDE MOVEMENT PROPELLED SCOOTER DEVICE HAVING EXPANDED FOOT PLATFORM**  
[54] **DISPOSITIF DE TROTTINETTE PROPULSE PAR UN MOUVEMENT LATÉRAL AYANT UNE PLATE-FORME EXTENSIBLE POUR LES PIEDS**  
[72] CHEN, SHANE, US  
[73] CHEN, SHANE, US  
[85] 2009-03-20  
[86] 2007-09-21 (PCT/US2007/020439)  
[87] (WO2009/041933)

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[11] **2,666,003**  
[13] C

[51] **Int.Cl. E04G 1/36 (2006.01)**  
[25] EN  
[54] **FOUNDING LADDER SYSTEM**  
[54] **DISPOSITIF A FONDERIE POUR ECHELLE**  
[72] BECKER, ALLAN, CA  
[72] WILSON, STEPHEN, CA  
[73] ALUMA SYSTEMS INC., CA  
[86] (2666003)  
[87] (2666003)  
[22] 2009-05-14

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[11] **2,667,251**  
[13] C

[51] **Int.Cl. C12N 9/14 (2006.01) A61K 38/17 (2006.01) A61K 38/45 (2006.01) A61K 45/00 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 9/12 (2006.01) C12N 9/99 (2006.01) C12N 15/11 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C07H 21/04 (2006.01)**  
[25] EN  
[54] **NA+/K+-ATPASE-SPECIFIC PEPTIDE INHIBITORS/ACTIVATORS OF SRC AND SRC FAMILY KINASES**  
[54] **ACTIVATEURS/INHIBITEURS PEPTIDIQUES SPECIFIQUES A LA VOIE NA+/K+-ATPASE DES KINASES SRC ET DES KINASES DE LA FAMILLE SRC**  
[72] XIE, ZIJIAN, US  
[72] SHAPIRO, JOSEPH I., US  
[72] TIAN, JIANG, US  
[73] UNIVERSITY OF TOLEDO, US  
[85] 2009-04-22  
[86] 2007-10-31 (PCT/US2007/023011)  
[87] (WO2008/054792)  
[30] US (60/855,482) 2006-10-31

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[11] **2,670,368**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 25/00 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **NEUTRALIZING MONOCLONAL ANTIBODIES AGAINST THE NOGO-66 RECEPTOR (NGR) AND USES THEREOF**  
[54] **NEUTRALISATION D'ANTICORPS MONOCLONAUX CONTRE LE RECEPTEUR NOGO-66 (NGR) ET LEURS UTILISATIONS**  
[72] MEZLER, MARIO, DE  
[72] MOELLER, ACHIM, DE  
[72] MUELLER, REINHOLD, DE  
[72] MUELLER, BERNHARD K., DE  
[72] GHAYUR, TARIQ, US  
[72] BARLOW, EVE H., US  
[72] SCHMIDT, MARTIN, DE  
[72] MEYER, AXEL, DE  
[72] TEUSCH, NICOLE, DE  
[73] ABBVIE INC., US  
[73] ABBVIE DEUTSCHLAND GMBH & CO KG, DE  
[85] 2009-05-21  
[86] 2007-11-21 (PCT/US2007/085349)  
[87] (WO2008/064292)  
[30] US (60/860,256) 2006-11-21

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[11] **2,675,772**  
[13] C

[51] **Int.Cl. G02F 1/01 (2006.01) A61F 2/16 (2006.01) A61F 9/00 (2006.01) G02B 3/00 (2006.01) G02C 7/04 (2006.01) G02C 7/06 (2006.01) H02N 2/18 (2006.01)**  
[25] EN  
[54] **FLEXIBLE ELECTRO-ACTIVE LENS**  
[54] **LENTILLE ELECTRO-ACTIVE FLEXIBLE**  
[72] BLUM, RONALD D., US  
[72] HADDOCK, JOSHUA N., US  
[72] KOKONASKI, WILLIAM, US  
[72] HUNKELER, JOHN, US  
[73] E-VISION SMART OPTICS INC., US  
[85] 2009-07-16  
[86] 2008-01-22 (PCT/US2008/051649)  
[87] (WO2008/091859)  
[30] US (60/881,514) 2007-01-22

**Canadian Patents Issued  
May 29, 2018**

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[11] **2,679,904**  
[13] C

[51] **Int.Cl. H02K 1/22 (2006.01) H02K 1/16 (2006.01) H02K 1/28 (2006.01) H02K 3/12 (2006.01) B29C 45/00 (2006.01)**

[25] EN

[54] **DIRECT CURRENT DRIVE MOTOR**

[54] **MOTEUR D'ENTRAINEMENT A COURANT CONTINU**

[72] ZHANG, XU, CN

[73] ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD., CN

[86] (2679904)

[87] (2679904)

[22] 2009-09-22

[30] CN (200810220110.3) 2008-12-13

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[11] **2,680,661**  
[13] C

[51] **Int.Cl. C12N 7/01 (2006.01) A61K 35/765 (2015.01) A61P 35/00 (2006.01) C07K 14/14 (2006.01) C12N 15/46 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **MUTANT REOVIRUSES AND METHODS OF MAKING AND USING**

[54] **REOVIRUS MUTANTS ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] COFFEY, MATTHEW, CA

[72] THOMPSON, BRADLEY G., CA

[73] ONCOLYTICS BIOTECH INC., CA

[85] 2009-09-11

[86] 2008-05-21 (PCT/CA2008/000964)

[87] (WO2008/141448)

[30] US (60/939,255) 2007-05-21

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[11] **2,688,108**  
[13] C

[51] **Int.Cl. C23C 24/04 (2006.01) B05D 1/12 (2006.01)**

[25] EN

[54] **COLD GAS DYNAMIC SPRAY APPARATUS, SYSTEM AND METHOD**

[54] **APPAREIL, SYSTEME ET METHODE DE PULVERISATION DYNAMIQUE DE GAZ FROID**

[72] XUE, LIJUE, CA

[72] WANG, SHAODONG, CA

[72] JIANG, JIAREN, CA

[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[86] (2688108)

[87] (2688108)

[22] 2009-12-10

[30] US (61/193,659) 2008-12-12

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[11] **2,693,712**  
[13] C

[51] **Int.Cl. C07K 14/025 (2006.01) A61K 48/00 (2006.01) C12N 15/00 (2006.01) C12N 15/34 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING BRAIN DISEASES**

[54] **METHODES ET COMPOSITIONS DE TRAITEMENT DES MALADIES CEREBRALES**

[72] DAVIDSON, BEVERLY L., US

[72] CHEN, YONG HONG, US

[73] THE UNIVERSITY OF IOWA RESEARCH FOUNDATION, US

[85] 2010-01-12

[86] 2008-07-11 (PCT/US2008/069866)

[87] (WO2009/012176)

[30] US (60/959,638) 2007-07-14

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[11] **2,696,513**  
[13] C

[51] **Int.Cl. H01J 49/00 (2006.01) H01J 49/42 (2006.01)**

[25] EN

[54] **TANDEM ION TRAPPING ARRANGEMENT**

[54] **DISPOSITIF TANDEM DE PIEGEAGE D'IONS**

[72] GREEN, MARTIN RAYMOND, GB

[72] WILDGOOSE, JASON LEE, GB

[73] MICROMASS UK LIMITED, GB

[85] 2010-02-12

[86] 2008-09-03 (PCT/GB2008/002981)

[87] (WO2009/030900)

[30] GB (0717146.5) 2007-09-04

[30] US (60/971,933) 2007-09-13

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[13] C

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 17/00 (2006.01) A61B 18/00 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **COOLED ABLATION CATHETER DEVICES AND METHODS OF USE**

[54] **DISPOSITIFS A CATHETER D'ABLATION REFROIDI ET PROCEDES D'UTILISATION**

[72] KOBLISH, JOSEF, US

[72] OLEY, LESLIE, US

[73] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2010-03-15

[86] 2008-10-08 (PCT/US2008/079193)

[87] (WO2009/048943)

[30] US (60/978,511) 2007-10-09

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[11] **2,700,164**  
[13] C

[51] **Int.Cl. C07K 14/01 (2006.01) C07H 21/04 (2006.01) C12N 7/01 (2006.01)**

[25] EN

[54] **PHAGE .PHI.MRU POLYNUCLEOTIDES AND POLYPEPTIDES AND USES THEREOF**

[54] **POLYNUCLEOTIDES ET POLYPEPTIDES .PHI.-MRU DE BACTERIOPHAGES ET LEURS UTILISATIONS**

[72] ALTERMANN, ERIC HEINZ, NZ

[72] ATTWOOD, GRAEME TREVOR, NZ

[72] LEAHY, SINEAD CHRISTINE, NZ

[72] KELLY, WILLIAM JOHN, NZ

[72] RONIMUS, ROBERT STARR, NZ

[72] LI, DONG, NZ

[72] KONG, ZHANHAO, CN

[72] SCHOFIELD, LINLEY ROSE, NZ

[72] DEY, DEBJIT, NZ

[72] TOOTILL, CATHERINE MARY, NZ

[72] SANG, CARRIE, NZ

[72] MOON, CHRISTINA DIANE, NZ

[72] JANSSEN, PETRUS HENDRICUS, NZ

[73] PASTORAL GREENHOUSE GAS RESEARCH LTD, NZ

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[54] **CAPTEURS POUR ESSAI DE POTENTIEL ET MULTIREGION, PROCEDES ET SYSTEMES**  
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[72] ZHONG, WEIPING, US  
[72] PERRY, JOSEPH E., US  
[72] MAURER, ERIC, US  
[72] JUNG, SUNG-KWON, US  
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[54] **SYSTEME ET METHODE DE GESTION DE PROGRAMMES DE RECOMPENSES**  
[72] HOULIHAN, MICHAEL T., US  
[72] CONTRERAS, ROBERT E., US  
[72] BARNICLE, KATHRYN A., US  
[73] HIGHLANDS OVERRIDE, INC., US  
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[54] **APPARATUS FOR MARRYING FLOORING MATERIAL WITH A DOUBLE-SIDED ADHESIVE ROLL**  
[54] **APPAREIL DESTINE A MARIER UN MATERIAU DE SOL AVEC UN ROULEAU ADHESIF A DOUBLE FACE**  
[72] SCHLISNER, DENNIS G., US  
[73] BASE KING, LLC, US  
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[54] **PROCEDE ITERATIF RAPIDE POUR TRAITER DES EQUATIONS D'HAMILTON-JACOBI**  
[72] JEONG, WON-KI, US  
[72] WHITAKER, ROSS, US  
[73] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US  
[85] 2010-04-27  
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[54] **TREATMENT AND PROPHYLAXIS OF AMYLOIDOSIS**  
[54] **TRAITEMENT ET PROPHYLAXIE DE L'AMYLOSE**  
[72] SCHENK, DALE B., US  
[72] SEUBERT, PETER A., US  
[72] WALL, JONATHAN, US  
[72] SALDANHA, JOSE W., GB  
[73] UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION, US  
[73] PROTHENA BIOSCIENCES LIMITED, IE  
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[54] **POINT FORMING PROCESSES**  
[54] **PROCEDES DE FACONNAGE PAR POINTS**  
[72] KRINTZLINE, DONALD E., US  
[72] HAY, THOMAS E., US  
[73] NATIONAL MACHINERY LLC, US  
[86] (2714856)  
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[54] **GENETIC ALTERATIONS ASSOCIATED WITH AUTISM AND THE AUTISTIC PHENOTYPE AND METHODS OF USE THEREOF FOR THE DIAGNOSIS AND TREATMENT OF AUTISM**

[54] **MODIFICATIONS GENETIQUES ASSOCIEES A L'AUTISME ET AU PHENOTYPE AUTISTIQUE ET AU PROCEDES D'UTILISATION DE CELLES-CI POUR LE DIAGNOSTIC ET LE TRAITEMENT DE L'AUTISME**

[72] HAKONARSON, HAKON, US  
[72] GLESSNER, JOSEPH, US  
[72] BRADFIELD, JONATHAN, US  
[72] GRANT, STRUAN, US  
[72] ZHANG, HAITAO, US  
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[54] **HVAC EQUIPMENT PHASE AND VOLTAGE MONITOR AND CONTROL**

[54] **SURVEILLANCE ET CONTROLE DE LA PHASE ET DE LA TENSION D'UN EQUIPEMENT DE CVCA**

[72] BONILLA, ABSALON, US  
[72] MAUK, RICHARD A., US  
[72] CHAMORRO, CARLOS O., US  
[72] STACHLER, JOHN P., US  
[73] LENNOX INDUSTRIES INC., US

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[54] **FINGERPRINT REPRESENTATION USING GRADIENT HISTOGRAMS**

[54] **REPRESENTATION D'EMPREINTES DIGITALES A L'AIDE D'HISTOGRAMMES DE GRADIENTS**

[72] AGGARWAL, GAURAV, US  
[72] BOLLE, RUDOLF MAARTEN, US  
[72] JEA, TSAI-YANG, US  
[72] RATHA, NALINI KANTA, US  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

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[54] **SELECTION DE FILE D'ATTENTE SUR UN PROCESSEUR LOCAL DANS UNE ARCHITECTURE MULTIPROCESSEUR**

[72] GAMBINO, MARK RICHARD, US  
[72] BLACKBURN, ROBERT A., US  
[72] DRYFOOS, ROBERT OCHS, US  
[72] SHERSIN, MICHAEL J., US  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

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[54] **ANTENNE HELICE RECONFIGURABLE EN MODE AXIAL**

[72] JALALI MAZLOUMAN, SHAHRZAD, CA  
[72] MAHANFAR, ALIREZA, CA  
[72] MENON, CARLO, CA  
[72] VAUGHAN, RODNEY G., CA  
[73] SIMON FRASER UNIVERSITY, CA

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[54] **COLLAPSIBLE ROCK HEAD AND ASSOCIATED STRUCTURE**

[54] **TREPAN A EFFACEMENT ET STRUCTURE CONNEXE**

[72] BARBERA, JAMES S., US  
[73] BARBERA, JAMES S., US

[86] (2728794)  
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[54] **PROCESS FOR IMPROVING CRYSTALLINITY**

[54] **PROCEDE D'AMELIORATION DE LA CRISTALLINITE**

[72] RUECROFT, GRAHAM, GB  
[72] PARIKH, DIPESH, GB  
[72] HIPKISS, DAVID, GB  
[73] CIRCASSIA LIMITED, GB

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[54] **ISOLEMENT ET CARACTERISATION DE CELLOBIOHYDROLASE I (CBH 1) DE SCHIZOCHYTRIUM AGGREGATUM**  
[72] BREVNOVA, ELENA E., US  
[72] FLATT, JIM, US  
[72] GANDHI, CHHAYAL, US  
[72] RAJGARHIA, VINEET, US  
[72] MCBRIDE, JOHN, US  
[72] WARNER, ANNE, US  
[73] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU  
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[25] EN  
[54] **GRANULAR EXCRETA TREATING MATERIAL, PRODUCTION METHOD THEREOF, AND EXTRUSION TYPE COMPRESSIVE GRANULATING APPARATUS THEREOF**  
[54] **SUBSTANCE GRANULAIRE POUR LE TRAITEMENT D'EXCREMENTS, METHODE DE PRODUCTION DE CETTE SUBSTANCE ET APPAREIL DE GRANULATION PAR EXTRUSION-COMPRESSION CONNEXE**  
[72] MOCHIZUKI, SHOTARO, JP  
[73] PEPARLET CO., LTD., JP  
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[54] **CONTROLLING DATA FLOW THROUGH A DATA COMMUNICATIONS LINK**  
[54] **COMMANDE DE FLUX DE DONNEES DANS UNE LIAISON DE COMMUNICATION DE DONNEES**  
[72] BAUMAN, ELLEN, US  
[72] SCHIMKE, TIMOTHY, US  
[72] SENDELBACH, LEE, US  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2011-01-28  
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[54] **DISPOSITIF CLIENT POUR LA FOURNITURE D'INFORMATIONS RELATIVES AU TRAFIC**  
[72] POSNER, STEFAN, DE  
[72] SCHUSTER, RICO, DE  
[73] HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH, DE  
[86] (2734366)  
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[54] **OUTIL DE PONCAGE ET DE MEULAGE MUNI D'UN GUIDE DE PROFONDEUR**  
[72] OUELLETTE, JAMES-ROY, CA  
[73] OUELLETTE, JAMES-ROY, CA  
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[54] **FOAMING POROUS PAD FOR USE WITH A MOTORIZED DEVICE**  
[54] **COUSSINET POREUX MOUSSANT POUR UTILISATION AVEC UN DISPOSITIF MOTORISE**  
[72] BATCHVAROVA, NIKOLETA, US  
[72] GUBERNICK, DAVID, US  
[72] MURPHY, MARK, US  
[73] JOHNSON & JOHNSON CONSUMER COMPANIES, INC., US  
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[54] **SYSTEME D'ECHAFAUDAGE HYBRIDE**  
[72] THACKER, STEVE HOWARD, US  
[73] NEXT GENERATION SCAFFOLD SERVICES, INC., US  
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[87] (2737715)  
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[54] **IDENTIFICATION DE L'INFORMATION D'IDENTIFICATION DE SESSION**  
[72] ONUT, IOSIF VIOREL, CA  
[72] IONESCU, PAUL, CA  
[72] SEGAL, ORY, IL  
[72] SMITH, WAYNE DUNCAN, CA  
[72] JOURDAN, GUY-VINCENT, CA  
[72] BOCHMANN, GREGOR VON, CA  
[73] IBM CANADA LIMITED - IBM CANADA LIMITEE, CA  
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[25] EN  
[54] **HANDHELD, PERSONAL SKIN CARE SYSTEMS WITH DETACHABLE SKIN CARE ELEMENTS**  
[54] **SYSTEMES DE SOINS DE LA PEAU PERSONNELS ET PORTATIFS DOTES D'ELEMENTS DE SOINS DE LA PEAU DETACHABLES**  
[72] HULL, RAYMOND J., JR., US  
[73] JOHNSON & JOHNSON CONSUMER COMPANIES, INC., US  
[86] (2738347)  
[87] (2738347)  
[22] 2011-04-29  
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[25] EN  
[54] **QUICK DISCONNECT FOR A DRIVE UNIT**  
[54] **CONNECTEUR A BRANCHEMENT/DEBRANCHEMENT RAPIDE POUR LECTEUR DE DISQUE**  
[72] FORREST, JAMES L., US  
[73] AUBURN GEAR, LLC, US  
[86] (2738435)  
[87] (2738435)  
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[25] EN  
[54] **ANTIBODIES AGAINST IL-25**  
[54] **ANTICORPS CONTRE IL-25**  
[72] MATTHEWS, DAVID JOHN, GB  
[72] BARLOW, JILLIAN, GB  
[72] MCKENZIE, ANDREW NEIL JAMES, GB  
[73] MEDICAL RESEARCH COUNCIL, GB  
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[25] EN  
[54] **COMPOSITIONS AND METHODS FOR INHIBITING CORROSION IN AQUEOUS MEDIA**  
[54] **COMPOSITIONS ET PROCEDES POUR INHIBER LA CORROSION DANS DES MILIEUX AQUEUX**  
[72] CROVETTO, ROSA, US  
[72] PIERCE, CLAUDIA C., US  
[72] DECK, PHILIP D., US  
[73] GENERAL ELECTRIC COMPANY, US  
[85] 2011-04-14  
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[25] EN  
[54] **BUILDING-INTEGRATED SOLAR THERMAL MICRO-CHANNEL ABSORBER AND METHOD OF MANUFACTURING THEREOF**  
[54] **ABSORBEUR THERMIQUE SOLAIRE A MICROCANAUX, INTEGRE A UN BATIMENT, ET PROCEDE DE FABRICATION CORRESPONDANT**  
[72] SWIFT, JOHN, CA  
[72] HENDRICKS, ANNE SWIFT, US  
[73] SWIFT, JOHN, CA  
[85] 2011-04-15  
[86] 2008-10-15 (PCT/US2008/080005)  
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[51] **Int.Cl. C08G 64/02 (2006.01) C08G 64/18 (2006.01) C09K 8/588 (2006.01)**  
[25] EN  
[54] **POLYCARBONATE BLOCK COPOLYMERS**  
[54] **COPOLYMERES A BLOC DE POLYCARBONATE**  
[72] ALLEN, SCOTT D., US  
[72] SIMONEAU, CHRIS A., US  
[72] SALLADAY, JOHN M., US  
[72] HATFIELD, DAVID M., US  
[72] STEVENS, JOHN W., US  
[73] SAUDI ARAMCO TECHNOLOGIES COMPANY, SA  
[85] 2011-04-28  
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[25] EN

[54] **PRODUCTS AND PROCESSES FOR MULTIPLEX NUCLEIC ACID IDENTIFICATION**

[54] **PRODUITS ET PROCÉDES POUR L'IDENTIFICATION D'ACIDE NUCLEIQUE MULTIPLEXÉE**

[72] HONISCH, CHRISTIANE, US

[72] TIMMS, ANDREW, US

[72] CHITNIS, SMITA, US

[72] VAN DEN BOOM, DIRK JOHANNES, US

[73] AGENA BIOSCIENCE, INC., US

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[54] **METHODS OF MONITORING CONDITIONS BY SEQUENCE ANALYSIS**

[54] **PROCÉDES DE SURVEILLANCE DE MALADIES PAR ANALYSE DE SEQUENCE**

[72] FAHAM, MALEK, US

[72] WILLIS, THOMAS, US

[73] ADAPTIVE BIOTECHNOLOGIES CORP., US

[85] 2011-05-02

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[25] EN

[54] **USE OF EEF1A AS BIOMARKER AND A METHOD OF SCREENING METAP2 INHIBITORS**

[54] **UTILISATION D'EEF1A COMME BIOMARQUEUR ET PROCÉDE DE CRIBLAGE D'INHIBITEURS DE METAP2**

[72] KELLNER, ROLAND, DE

[72] ZENKE, FRANK, DE

[72] BOMKE, JOERG, DE

[73] MERCK PATENT GMBH, DE

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[54] **A WATER DISCHARGE DEVICE**

[54] **DISPOSITIF DE SORTIE D'EAU**

[72] YEWDALL, GARY, AU

[72] PICKERING, GRAHAM, AU

[73] YEWDALL, GARY, AU

[73] PICKERING, GRAHAM, AU

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[87] (WO2010/060142)

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[54] **COMPACT CARTRIDGE COUPLING**

[54] **ACCOUPLLEMENT DE CARTOUCHE COMPACT**

[72] RUSCONI, PAOLO, IT

[73] FASTER S.P.A., IT

[73] FASTER S.P.A., IT

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[87] (2746105)

[22] 2011-07-12

[30] EP (10425240.8) 2010-07-16

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[54] **MANAGING ALIASING CONSTRAINTS**

[54] **GESTION DES CONTRAINTES DE DENOMINATION**

[72] CUI, SHIMIN, CA

[72] SILVERA, RAUL E., CA

[73] IBM CANADA LIMITED - IBM CANADA LIMITEE, CA

[86] (2746136)

[87] (2746136)

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[51] **Int.Cl. B64C 19/00 (2006.01) B64D 45/00 (2006.01)**

[25] FR

[54] **METHOD AND DEVICE FOR RESETTING A TARGET ALTITUDE FOR AN EMERGENCY DESCENT OF AN AIRCRAFT**

[54] **PROCÉDE ET DISPOSITIF DE RECALAGE D'UNE ALTITUDE CIBLE POUR UNE DESCENTE D'URGENCE D'UN AERONEF**

[72] BOTARGUES, PAULE, FR

[72] GRANDPERRET, ERWIN, FR

[72] BUREL, LUCAS, FR

[72] BOURRET, THIERRY, FR

[73] AIRBUS OPERATIONS (SAS), FR

[86] (2746580)

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[30] FR (1055894) 2010-07-20

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[25] EN

[54] **METHOD OF CONTROLLING THE RELATIVE POSITION BETWEEN PRINTED PATTERNS AND NON-PRINTED PATTERNS ON A WEB-SHAPED MATERIAL AND A SYSTEM USED IN THE METHOD**

[54] **PROCEDE DE COMMANDE DE POSITION RELATIVE ENTRE DES MOTIFS IMPRIMES ET DES MOTIFS NON IMPRIMES SUR UN MATERIAU EN BANDE ET SYSTEME UTILISE SELON LEDIT PROCEDE**

[72] PALM, LARS, SE  
[72] LINDGREN, FREDRIK, SE  
[72] HAMACHER, KLAUS, DE  
[72] CLERMONT, MARKUS, DE  
[73] TETRA LAVAL HOLDINGS & FINANCE SA, CH

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[54] **DIALYSIS SYSTEMS AND METHODS**

[54] **SYSTEMES ET METHODES DE DIALYSE**

[72] UPDYKE, PALMER DAVID, US  
[72] SANDFORD, HAROLD FREDERICK, US

[72] LIPPS, BENJAMIN JOSEPH, US  
[72] ZATEZALO, DOUGLAS MARK, US  
[72] BEIRIGER, MICHAEL JAMES, US  
[72] MULLNER, JAMES MATTHEW, US  
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US

[86] (2747606)  
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[54] **ADJUSTABLE RACK ASSEMBLY FOR A DISHWASHER BASKET**

[54] **ENSEMBLE COMPARTIMENT REGLABLE POUR UN PANIER DE LAVE-VAISSELLE**

[72] KOHLES, DIETER, DE  
[72] DUERR, GERHARD, DE  
[72] FORST, KLAUS-MARTIN, DE  
[73] ELECTROLUX HOME PRODUCTS CORPORATION N.V., BE

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[25] EN

[54] **SYSTEMS AND METHODS OF IMPLEMENTING REMOTE BOUNDARY SCAN FEATURES**

[54] **SYSTEMES ET PROCEDES POUR METTRE EN OEUVRE A DISTANCE DES ELEMENTS DE REGISTRE A DECALAGE PERIPHERIQUE**

[72] LA FEVER, GEORGE B., US  
[72] YELLIN, CARMY, US  
[72] FLAUM, ISER B., US  
[72] MUSE, DAVID R., US  
[73] ELECTRONIC WARFARE ASSOCIATES, INC., US

[85] 2011-07-14  
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[54] **TRANSPONON END COMPOSITIONS AND METHODS FOR MODIFYING NUCLEIC ACIDS**

[54] **COMPOSITIONS TERMINALES DE TRANSPONON ET PROCEDE DE MODIFICATION D'ACIDES NUCLEIQUES**

[72] JENDRISAK, JEROME, US  
[72] DAHL, GARY, US  
[72] GRUNENWALD, HAIYING LI, US  
[72] CARUCCIO, NICHOLAS, US  
[73] EPICENTRE TECHNOLOGIES CORPORATION, US

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[30] US (61/108,326) 2008-10-24  
[30] US (61/108,329) 2008-10-24  
[30] US (61/152,868) 2009-02-16  
[30] US (61/155,431) 2009-02-25  
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[51] **Int.Cl. C10M 141/10 (2006.01) C10M 169/04 (2006.01)**

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[54] **HYDRAULIC COMPOSITION WITH IMPROVED WEAR PROPERTIES**

[54] **COMPOSITION HYDRAULIQUE PRESENTANT DES PROPRIETES AMELIOREES A L'USURE**

[72] FILIPPINI, BRIAN B., US  
[73] THE LUBRIZOL CORPORATION, US

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ELECTROSURGICAL RETURN  
ELECTRODE WITH PRESSURE  
SORE REDUCTION AND  
HEATING CAPABILITIES**  
[54] **ELECTRODE DE RETOUR  
ELECTROCHIRURGICALE  
AUTO-LIMITANTE AVEC  
CAPACITE DE REDUCTION  
D'ESCARRE DE DECUBITUS ET  
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[72] ARAMAYO, THOMAS F., US  
[73] MEGADYNE MEDICAL PRODUCTS,  
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[30] US (61/155,687) 2009-02-26  
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[54] **HEATER MOUNTING SYSTEM**  
[54] **SYSTEME DE MONTAGE D'UN  
DISPOSITIF DE CHAUFFAGE**  
[72] PERSSON, ROBERT E., US  
[73] MODINE MANUFACTURING  
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[86] (2753948)  
[87] (2753948)  
[22] 2011-09-29  
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[25] EN  
[54] **PROCESS FOR PREPARING  
STABLE SUSPENSIONS OF  
METAL NANOPARTICLES AND  
THE STABLE COLLOIDAL  
SUSPENSIONS OBTAINED  
THEREBY**  
[54] **PROCEDE DE PREPARATION DE  
SUSPENSIONS STABLES DE  
NANOPARTICULES DE METAL  
ET SUSPENSIONS COLLOIDALES  
STABLES OBTENUES PAR CE  
BIAS**  
[72] BLOSI, MAGDA, IT  
[72] ALBONETTI, STEFANIA, IT  
[72] DONDI, MICHELE, IT  
[72] BALDI, GIOVANNI, IT  
[72] BARZANTI, ANDREA, IT  
[72] BITOSI, MARCO, IT  
[73] COLOROBIA ITALIA S.P.A., IT  
[85] 2011-08-30  
[86] 2010-03-01 (PCT/EP2010/052534)  
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[54] **PROCEDE D'EXTRACTION DE  
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[72] PODLIPSKIY, VLADIMIR Y., US  
[73] MCW ENERGY GROUP, CA  
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[25] EN  
[54] **METHOD OF AND SYSTEM FOR  
FORMATION AND  
WITHDRAWAL OF A SAMPLE  
FROM A SURFACE TO BE  
ANALYZED**  
[54] **PROCEDE ET SYSTEME DE  
FORMATION ET DE RETRAIT  
D'UN ECHANTILLON D'UNE  
SURFACE A ANALYSER**  
[72] VAN BERKEL, GARY J., US  
[72] KERTESZ, VILMOS, US  
[73] UT-BATTELLE, LLC, US  
[85] 2011-09-02  
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G01R 1/04 (2006.01) H02G 5/00  
(2006.01)**  
[25] EN  
[54] **ACOUSTIC SENSOR SYSTEM FOR  
DETECTING ELECTRICAL  
CONDUCTIVITY FAULTS IN AN  
ELECTRICAL DISTRIBUTION  
SYSTEM**  
[54] **SYSTEME DE DETECTION  
ACOUSTIQUE SERVANT A  
DECELER LES FAILLES DE  
CONDUCTIBILITE ELECTRIQUE  
D'UN RESEAU DE DISTRIBUTION  
D'ELECTRICITE**  
[72] ZHOU, XIN, US  
[72] YANNIELLO, ROBERT, US  
[72] GASS, DALE L., US  
[72] PAHL, BIRGER, US  
[72] SCHOEPF, THOMAS J., US  
[73] EATON CORPORATION, US  
[86] (2755184)  
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[25] EN

[54] **MANAGEMENT OF CLEANING PROCESSES VIA MONITORING OF CHEMICAL PRODUCT USAGE**

[54] **GESTION DE PROCÉDES DE NETTOYAGE PAR L'INTERMÉDIAIRE D'UNE SURVEILLANCE DE L'USAGE DE PRODUITS CHIMIQUES**

[72] MOREY, JOHN D., US

[72] ANDERSON, BRYAN M., US

[72] BALZ, ERIC R., US

[72] SNELLEN, TIMOTHY R., US

[73] ECOLAB USA INC., US

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[51] **Int.Cl. G07C 9/00 (2006.01)**

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[54] **METHOD AND SYSTEM FOR ACCESS CONTROL**

[54] **METHODE ET SYSTEME DE CONTROLE D'ACCES**

[72] MIZON, JOHN, CH

[73] INVENTIO AG, CH

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[54] **MULTI-HOST CONCURRENT WRITING TO MAGNETIC TAPE**

[54] **ECRITURE SIMULTANEE MULTI-HOTE SUR BANDE MAGNETIQUE**

[72] BRUME, SHAWN OWEN, US

[72] JANGABA, FAHNMUSA CHRISTIAN, US

[72] KNIBLOE, CHRISTINE RENEE, US

[72] SWANSON, DAVID LEE, US

[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

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[25] EN

[54] **DECELLULARIZATION AND RECELLULARIZATION OF ORGANS AND TISSUES**

[54] **DECELLULARISATION ET RECELLULARISATION D'ORGANES ET DE TISSUS**

[72] TAYLOR, DORIS, US

[72] OTT, HARALD, US

[73] REGENTS OF THE UNIVERSITY OF MINNESOTA, US

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[54] **SIMPLIFIED METHOD FOR PRODUCING ALKYLENE OXIDES WITH A HIGH EFFICIENCY CATALYST AS IT AGES**

[54] **PROCEDE SIMPLIFIE DE PRODUCTION D'OXYDES D'ALKYLENE AVEC UN CATALYSEUR HAUTE EFFICACITE AU FUR ET A MESURE DE SON VIEILLISSEMENT**

[72] ZHANG, LIPING, US

[72] SOO, HWAILI, US

[72] HENSTOCK, WILLIAM, US

[73] DOW TECHNOLOGY INVESTMENTS LLC, US

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[25] EN

[54] **DIGITAL AUDIO COMMUNICATION AND CONTROL IN A LIVE PERFORMANCE VENUE**

[54] **COMMUNICATION ET COMMANDE AUDIO NUMERIQUE DANS UNE AIRE DE PERFORMANCE EN DIRECT**

[72] HEINEMAN, FRED W., US

[73] EN TECHNOLOGY CORPORATION, US

[85] 2011-10-13

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[54] **2,5-DISUBSTITUTED ARYLSULFONAMIDE CCR3 ANTAGONISTS**

[54] **ANTAGONISTES CCR3 D'ARYLSULFONAMIDES 2,5-DISUBSTITUES**

[72] LY, TAI WEI, US

[72] POTTER, GARRETT THOMAS, US

[73] AXIKIN PHARMACEUTICALS, INC., US

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[25] EN  
[54] **METHOD AND APPARATUS FOR SELECTIVE HEATING FOR ELECTRONIC COMPONENTS OF A HANDHELD DEVICE**  
[54] **PROCEDE ET APPAREIL POUR LE CHAUFFAGE SELECTIF DE COMPOSANTS ELECTRONIQUES D'UN DISPOSITIF A MAIN**  
[72] ARDRON, DAVID NEIL, CA  
[73] PSION INC., CA  
[86] (2759492)  
[87] (2759492)  
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[25] EN  
[54] **APPARATUSES AND COMPOSITIONS FOR CRYOPRESERVATION OF CELLULAR MONOLAYERS**  
[54] **APPAREILS ET COMPOSITIONS POUR LA CRYOCONSERVATION DE MONOCOUCHEs CELLULAIRES**  
[72] CLARKE, DOMINIC M., US  
[72] NICOUD, IAN B., US  
[72] MATHEW, ABY J., US  
[72] RICE, MICHAEL, US  
[73] BIOLIFE SOLUTIONS, INC., US  
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[54] **THREADED CONNECTION FOR DRILLING AND OPERATING HYDROCARBON WELLS**  
[54] **RACCORD FILETE POUR LE FORAGE ET L'EXPLOITATION DE Puits D'HYDROCARBURES**  
[72] GRANGER, SCOTT, FR  
[72] CARON, OLIVIER, FR  
[72] VERGER, ERIC, FR  
[73] SUMITOMO METAL INDUSTRIES, LTD., JP  
[73] VALLOUREC OIL AND GAS FRANCE, FR  
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[13] C

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[25] EN  
[54] **BIOREACTOR COMPRISING A MIXING CHAMBER**  
[54] **BIOREACTEUR COMPRENANT UNE CHAMBRE DE MELANGE**  
[72] FRANKENA, DOUWE, NL  
[72] VELLINGA, SJOERD HUBERTUS JOSEF, NL  
[73] PAQUES I.P. B.V., NL  
[85] 2011-11-03  
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[25] EN  
[54] **COMPOSITION FOR SUSTAINED DRUG DELIVERY COMPRISING GEOPOLYMERIC BINDER**  
[54] **COMPOSITION POUR ADMINISTRATION PROLONGEE DE MEDICAMENTS COMPRENANT UN LIANT GEOPOLYMERE**  
[72] ENGQVIST, HAEKAN, SE  
[73] EMLICURE AB, SE  
[85] 2011-11-04  
[86] 2010-05-07 (PCT/GB2010/000910)  
[87] (WO2010/128300)  
[30] SE (0900626-3) 2009-05-08  
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[13] C

[51] **Int.Cl. B32B 7/10 (2006.01) B05C 17/06 (2006.01)**  
[25] EN  
[54] **MASKING ARTICLE FOR PRODUCING PRECISE PAINT LINES AND METHOD OF IMPROVING PAINT LINE PERFORMANCE OF MASKING ARTICLES**  
[54] **ARTICLE DE MASQUAGE POUR PRODUIRE DES LIGNES DE PEINTURE PRECISES ET PROCEDE POUR AMELIORER LA REALISATION DES LIGNES DE PEINTURE D'ARTICLES DE MASQUAGE**  
[72] SCHOLZ, MATTHEW T., US  
[72] SPIEWAK, BRIAN E., US  
[72] WONG, ROY, US  
[72] WOOD, THOMAS E., US  
[72] WRIGHT, ROBIN E., US  
[73] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2011-11-10  
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[13] C

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[25] EN  
[54] **TRANSPORT OF LCS-RELATED MESSAGES FOR LTE ACCESS**  
[54] **TRANSPORT DE MESSAGES LIES A DES LCS POUR UN ACCES A UN EQUIPEMENT TERMINAL DE LIGNE (LTE)**  
[72] EDGE, STEPHEN W., US  
[72] BURROUGHS, KIRK ALLAN, US  
[72] SUBRAMANIAN, RAMACHANDRAN, US  
[73] QUALCOMM INCORPORATED, US  
[85] 2011-12-21  
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[87] (WO2011/005516)  
[30] US (61/219,376) 2009-06-22  
[30] US (61/236,501) 2009-08-24  
[30] US (12/819,815) 2010-06-21

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[51] **Int.Cl. A61B 17/00 (2006.01) A61F 2/00 (2006.01)**  
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[54] **DEVICE AND METHOD FOR TREATMENT OF INCISION OR HERNIA**  
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT D'UNE INCISION OU D'UNE HERNIE**  
[72] HARPER, JOHN R., US  
[73] LIFECCELL CORPORATION, US  
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[51] **Int.Cl. C25D 9/08 (2006.01) C25D 5/50 (2006.01) F01D 5/28 (2006.01)**  
[25] FR  
[54] **METHOD FOR MANUFACTURING A THERMAL BARRIER**  
[54] **METHODE DE FABRICATION D'UNE BARRIERE THERMIQUE**  
[72] PEDRAZA DIAZ, FERNANDO, FR  
[72] BOUCHAUD, BAPTISTE, FR  
[72] BALMAIN, JOSSELINE, FR  
[72] BONNET, GILLES, FR  
[72] MENUEY, JUSTINE, FR  
[73] SNECMA, FR  
[73] UNIVERSITE DE LA ROCHELLE, FR  
[85] 2012-01-25  
[86] 2010-07-29 (PCT/FR2010/051614)  
[87] (WO2011/012819)  
[30] FR (0955369) 2009-07-30

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[11] **2,769,747**  
[13] C

[51] **Int.Cl. G01N 33/543 (2006.01)**  
[25] EN  
[54] **DEVICE FOR DETECTION OF ANTIGENS AND USES THEREOF**  
[54] **DISPOSITIF POUR LA DETECTION D'ANTIGENES ET APPLICATIONS ASSOCIEES**  
[72] SICILIANO, NICHOLAS A., US  
[72] BOULIANE, MARTIN JOSEPH, US  
[73] INVISIBLE SENTINEL, INC., US  
[85] 2012-01-31  
[86] 2010-07-30 (PCT/US2010/043889)  
[87] (WO2011/014763)  
[30] US (12/533,721) 2009-07-31

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[13] C

[51] **Int.Cl. G06T 9/00 (2006.01) A61B 1/04 (2006.01) A61B 1/045 (2006.01) A61B 1/06 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS FOR IMAGE PROCESSING IN WIRELESS CAPSULE ENDOSCOPY**  
[54] **METHODES ET APPAREILS POUR LE TRAITEMENT D'IMAGES DANS UNE ENDOSCOPIE PAR CAPSULE SANS FIL**  
[72] KHAN, TAREQ HASAN, CA  
[72] WAHID, KHAN ARIF, CA  
[73] UNIVERSITY OF SASKATCHEWAN, CA  
[86] (2773795)  
[87] (2773795)  
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[11] **2,774,871**  
[13] C

[51] **Int.Cl. G01N 33/566 (2006.01) A01K 67/027 (2006.01) C07K 14/435 (2006.01) C12N 15/09 (2006.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **SCREENING METHOD UTILIZING THALIDOMIDE-TARGETING FACTOR**  
[54] **PROCEDE DE CRIBLAGE UTILISANT LE FACTEUR DE CIBLAGE DE LA THALIDOMIDE**  
[72] HANDA, HIROSHI, JP  
[72] ANDO, HIDEKI, JP  
[72] ITOH, TAKUMI, JP  
[72] HOTTA, KENTARO, JP  
[73] TOKYO INSTITUTE OF TECHNOLOGY, JP  
[73] FUJIMOTO PHARMACEUTICAL CORPORATION, JP  
[85] 2012-03-21  
[86] 2010-10-18 (PCT/JP2010/068272)  
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[51] **Int.Cl. G01L 9/00 (2006.01) G01L 7/00 (2006.01) G01L 17/00 (2006.01) G01L 19/08 (2006.01)**  
[25] FR  
[54] **SEALED PRESSURE-MEASURING MEMBER**  
[54] **ORGANE DE MESURE DE PRESSION ETANCHE**  
[72] CHAMPREDONDE, JONATHAN, ES  
[72] LEMAN, RICHARD, GB  
[72] LEMAN, MARK, GB  
[72] SMITH, PETER, GB  
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR  
[85] 2012-03-23  
[86] 2010-09-30 (PCT/FR2010/052071)  
[87] (WO2011/039486)  
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[72] FOGG, DAVID, GB  
[73] TECHNIP FRANCE, FR  
[85] 2012-03-29  
[86] 2010-10-05 (PCT/GB2010/051664)  
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[25] EN  
[54] **UNITIZED VACUUM FRYER**  
[54] **FRITEUSE SOUS-VIDE MONOCOQUE**  
[72] CARIDIS, ANDREW A., US  
[72] PADILLA, JAMES A., US  
[72] CARIDIS, ANTHONY A., US  
[72] MILLER, THOMAS JOHN, US  
[72] GILES, DONALD, US  
[73] HEAT AND CONTROL, INC., US  
[86] (2776157)  
[87] (2776157)  
[22] 2012-05-02  
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[13] C

[51] **Int.Cl. H01L 33/54 (2010.01) G02B 17/08 (2006.01) F21V 5/08 (2006.01) F21V 7/09 (2006.01)**  
[25] EN  
[54] **LENS FOR ASYMMETRICAL LIGHT BEAM GENERATION**  
[54] **LENTILLE DE GENERATION DE FAISCEAU LUMINEUX ASYMETRIQUE**  
[72] TREANTON, VINCENT, NL  
[73] PHILIPS LIGHTING HOLDING B.V., NL  
[85] 2012-04-03  
[86] 2010-09-29 (PCT/IB2010/054385)  
[87] (WO2011/042837)  
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[13] C

[51] **Int.Cl. G08B 13/24 (2006.01) G06K 19/077 (2006.01) G08B 13/14 (2006.01)**  
[25] EN  
[54] **EAS ALARMING TAG WITH RFID FEATURES**  
[54] **ETIQUETTE D'ALARME POUR LA SURVEILLANCE ELECTRONIQUE DES ARTICLES, AVEC FONCTIONNALITES RFID**  
[72] ALEXIS, MARK, US  
[73] TYCO FIRE & SECURITY GMBH, CH  
[85] 2012-04-12  
[86] 2010-09-10 (PCT/US2010/002463)  
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[13] C

[51] **Int.Cl. C07H 21/00 (2006.01) C07H 21/04 (2006.01) C07H 19/10 (2006.01) C07H 19/20 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR SEQUENCING NUCLEIC ACIDS**  
[54] **COMPOSITIONS ET PROCEDES UTILISABLES A DES FINS DE SEQUENCAGE D'ACIDES NUCLEIQUES**  
[72] CHIOU, CHUNG-FAN, CN  
[72] PAN, CHAO-CHI, CN  
[72] FANN, JENN-YEH, CN  
[72] CHANG, SHANG-CHIA, CN  
[72] FU, TSU-JU, CN  
[73] INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, TW  
[85] 2012-04-03  
[86] 2011-06-01 (PCT/CN2011/075106)  
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[30] US (61/350,693) 2010-06-02  
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[13] C

[51] **Int.Cl. A61B 90/57 (2016.01) A61B 90/50 (2016.01) A61B 17/34 (2006.01)**  
[25] EN  
[54] **HOLDING DEVICE FOR HOLDING A MANUALLY OPERATED MEDICAL DEVICE**  
[54] **DISPOSITIF DE MAINTIEN POUR LE MAINTIEN D'UN DISPOSITIF MEDICAL A COMMANDE MANUELLE**  
[72] JASPERS, JORIS EMANUEL NICOLAAS, NL  
[72] BOSMA, JESSE MATTAN, NL  
[73] UMC UTRECHT HOLDING B.V., NL  
[85] 2012-04-05  
[86] 2009-10-07 (PCT/NL2009/050606)  
[87] (WO2011/043644)

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[13] C

[51] **Int.Cl. H02J 50/80 (2016.01) H02J 50/10 (2016.01) F41G 11/00 (2006.01) F41H 13/00 (2006.01) H02J 7/00 (2006.01) H04B 5/00 (2006.01) H04K 3/00 (2006.01)**  
[25] EN  
[54] **AN INDUCTIVELY COUPLED POWER AND DATA TRANSMISSION SYSTEM**  
[54] **SYSTEME DE TRANSMISSION DE PUISSANCE ET DE DONNEES COUPLE PAR INDUCTION**  
[72] SOAR, ROGER J., CA  
[73] CYNETIC DESIGNS LTD., CA  
[85] 2012-04-13  
[86] 2010-10-13 (PCT/CA2010/001638)  
[87] (WO2011/044695)  
[30] US (61/272,621) 2009-10-13

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[11] **2,777,036**  
[13] C

[51] **Int.Cl. G01P 5/26 (2006.01) G01S 17/58 (2006.01)**  
[25] FR  
[54] **DEVICE FOR MEASURING WIND SPEED**  
[54] **DISPOSITIF DE MESURE DE LA VITESSE DU VENT**  
[72] LEPAYSAN, CHRISTOPHE, FR  
[72] TEYSSEYRE, RAPHAEL, FR  
[73] EPSILINE, FR  
[85] 2012-04-05  
[86] 2010-10-11 (PCT/FR2010/052149)  
[87] (WO2011/042678)  
[30] FR (0957080) 2009-10-09

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[13] C

[51] **Int.Cl. G06F 9/50 (2006.01)**  
[25] EN  
[54] **GOAL ORIENTED PERFORMANCE MANAGEMENT OF WORKLOAD UTILIZING ACCELERATORS**  
[54] **GESTION DE PERFORMANCE ORIENTEE OBJECTIF DE CHARGE DE TRAVAIL UTILISANT DES ACCELERATEURS**  
[72] THOENNES, MATHEW, US  
[72] DILLENBERGER, DONNA N., US  
[72] YOCOM, PETER, US  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2012-05-07  
[86] 2010-12-14 (PCT/EP2010/069559)  
[87] (WO2011/076608)  
[30] US (12/647,272) 2009-12-24

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[11] \*2,780,235  
[13] C

[51] **Int.Cl. G11B 5/584 (2006.01)**  
[25] EN  
[54] **SYNCHRONIZATION OF SYMMETRIC TIMING BASED SERVO BURSTS**  
[54] **SYNCHRONISATION DE RAFALES D'ASSERVISSEMENT CADENCEES SYMETRIQUES**  
[72] CHERUBINI, GIOVANNI, CH  
[72] JELITTO, JENS, CH  
[72] LANTZ, MARK A., CH  
[72] HUTCHINS, ROBERT A., US  
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US  
[85] 2012-05-07  
[86] 2011-01-19 (PCT/EP2011/050674)  
[87] (WO2011/104050)  
[30] US (12/712,039) 2010-02-24

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[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 47/02 (2006.01) A61K 47/24 (2006.01) A61K 47/36 (2006.01)**  
[25] EN  
[54] **OPHTHALMIC EMULSION**  
[54] **EMULSION OPHTALMIQUE**  
[72] KETELSON, HOWARD ALLEN, US  
[72] MEADOWS, DAVID L., US  
[73] ALCON RESEARCH, LTD., US  
[85] 2012-05-08  
[86] 2010-12-02 (PCT/US2010/058703)  
[87] (WO2011/068955)  
[30] US (61/266,207) 2009-12-03

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[13] C

[51] **Int.Cl. G08B 13/24 (2006.01) G08B 29/04 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR REDUCING CART ALARMS AND INCREASING SENSITIVITY IN AN EAS SYSTEM WITH METAL SHIELDING DETECTION**  
[54] **SYSTEME ET PROCEDE DE DIMINUTION DES ALARMES DE CHARIOTS ET D'AUGMENTATION DE LA SENSIBILITE DANS UN SYSTEME DE SURVEILLANCE ELECTRONIQUE D'ARTICLE AVEC DETECTION DE PROTECTION METALLIQUE**  
[72] BERGMAN, ADAM S., US  
[73] TYCO FIRE & SECURITY GMBH, CH  
[85] 2012-05-08  
[86] 2010-10-05 (PCT/US2010/002681)  
[87] (WO2011/059469)  
[30] US (12/615,755) 2009-11-10

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[13] C

[51] **Int.Cl. G06F 9/44 (2018.01) G06F 9/455 (2018.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR EXECUTING SOFTWARE APPLICATIONS USING HARDWARE ABSTRACTION**  
[54] **METHODES ET SYSTEMES D'EXECUTION D'APPLICATIONS LOGICIELLES A L'AIDE D'ABSTRACTION D'OBJETS MATERIELS**  
[72] HOTRA, JONATHAN NICHOLAS, US  
[72] TURNER, DONALD EUGENE, US  
[73] THE BOEING COMPANY, US  
[86] (2780567)  
[87] (2780567)  
[22] 2012-06-19  
[30] US (13/170,601) 2011-06-28

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[11] 2,780,826  
[13] C

[51] **Int.Cl. A61B 17/90 (2006.01) A61B 17/17 (2006.01) A61F 2/46 (2006.01)**  
[25] EN  
[54] **PATIENT-SPECIFIC GUIDE FOR ACETABULAR CUP PLACEMENT**  
[54] **GUIDE DE POSITIONNEMENT D'UNE CUPULE ACETABULAIRE SPECIFIQUE D'UN PATIENT**  
[72] RUDAN, JOHN F., CA  
[72] KUNZ, MANUELA, CA  
[73] QUEEN'S UNIVERSITY AT KINGSTON, CA  
[85] 2012-05-14  
[86] 2010-11-17 (PCT/CA2010/001828)  
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[30] US (61/262,073) 2009-11-17

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[13] C

[51] **Int.Cl. H04L 12/70 (2013.01) H04W 88/08 (2009.01) H04L 29/06 (2006.01)**

[25] EN

[54] **METHOD, STORAGE MEDIUM AND HOSTING DEVICE FOR SUPPORTING A STATICALLY CONFIGURED GUEST DEVICE**

[54] **METHODE, SUPPORT DE STOCKAGE ET DISPOSITIF D'HEBERGEMENT PERMETTANT LA PRISE EN CHARGE D'UN DISPOSITIF INVITE CONFIGURE DE MANIERE STATIQUE**

[72] SCHMIDT, SAMUEL, CA

[72] SCHMIDT, MIKE, CA

[73] INTELLO TECHNOLOGIES INC., CA

[86] (2781178)

[87] (2781178)

[22] 2012-06-18

[30] US (61/497.772) 2011-06-16

[11] **2,782,881**

[13] C

[51] **Int.Cl. A47L 7/00 (2006.01) A47L 5/38 (2006.01) A47L 9/02 (2006.01)**

[25] EN

[54] **INLET FOR VACUUM CLEANING APPARATUS**

[54] **PRISE POUR ASPIRATEUR**

[72] SCHLAPKOHL, PETER, US

[73] IVD GLOBAL CORPORATION, US

[86] (2782881)

[87] (2782881)

[22] 2012-07-13

[30] US (13/485,313) 2012-05-31

[11] **2,783,201**

[13] C

[51] **Int.Cl. C12P 7/10 (2006.01) D21C 1/10 (2006.01) D21C 3/02 (2006.01) D21C 3/06 (2006.01) C12P 5/02 (2006.01) C12P 7/16 (2006.01) C12P 7/46 (2006.01)**

[25] EN

[54] **PRE-TREATMENT OF CELLULOSIC MATERIAL**

[54] **PRETRAITEMENT DE MATIERE CELLULOSIQUE**

[72] VAN DER MEULEN, TORBJOERN, SE

[72] FORSS, STANLEY, SE

[72] ELFVING, LARS, SE

[72] MAGNUSSON, STAFFAN, SE

[72] HAEGGLUND, MAGNUS, SE

[72] SJOEBLOM, ANDERS, SE

[73] SEKAB E-TECHNOLOGY AB, SE

[85] 2012-06-05

[86] 2010-12-17 (PCT/EP2010/070134)

[87] (WO2011/080131)

[30] EP (09180192.8) 2009-12-21

[11] **2,783,361**

[13] C

[51] **Int.Cl. B65D 47/08 (2006.01) A61L 12/08 (2006.01)**

[25] EN

[54] **A CLOSURE FOR CONTAINERS OF OPHTHALMIC SOLUTIONS**

[54] **FERMETURE POUR CONTENANTS DE SOLUTIONS OPHTALMIQUES**

[72] HUNTINGTON, ELYSHA, US

[72] TANAKA, RICHARD, US

[72] YUMUL, ANTHONY, US

[73] JOHNSON & JOHNSON VISION CARE, INC., US

[85] 2012-06-06

[86] 2010-12-15 (PCT/US2010/060395)

[87] (WO2011/084445)

[30] US (61/286,937) 2009-12-16

[30] US (12/967,822) 2010-12-14

[11] **\*2,783,452**

[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 11/16 (2006.01) H04L 29/08 (2006.01)**

[25] EN

[54] **MIGRATING VIRTUAL MACHINES AMONG NETWORKED SERVERS UPON DETECTION OF DEGRADING NETWORK LINK OPERATION**

[54] **MIGRATION DE MACHINES VIRTUELLES ENTRE SERVEURS EN RESEAU LORS D'UNE DETECTION DE DEGRADATION DE FONCTIONNEMENT DE LIAISON DE RESEAU**

[72] HANSSON, NILS PETER, US

[72] SMITH, BRUCE ALAN, US

[72] SUFFERN, EDWARD STANLEY, US

[72] WOOLDRIDGE, JAMES LEE, US

[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2012-06-06

[86] 2011-05-17 (PCT/EP2011/057998)

[87] (WO2011/144633)

[30] US (12/784,061) 2010-05-20

[11] **2,783,621**

[13] C

[51] **Int.Cl. A23L 27/30 (2016.01) A23L 27/00 (2016.01) A23L 2/60 (2006.01)**

[25] EN

[54] **SWEETNESS ENHANCERS, COMPOSITIONS THEREOF, AND METHODS FOR USE**

[54] **ADJUVANTS DE SUCROSITE, COMPOSITIONS DE CEUX-CI, ET PROCEDES POUR UTILISATION**

[72] PRAKASH, INDRA, US

[72] DUBOIS, GRANT E., US

[72] KLUCIK, JOSEF, US

[72] SAN MIGUEL, RAFAEL I., US

[72] FRITSCH, RUDY J., US

[72] CHATURVEDULA, VENKATA SAI PRAKASH, US

[73] THE COCA-COLA COMPANY, US

[85] 2012-06-07

[86] 2010-12-28 (PCT/US2010/062210)

[87] (WO2011/090709)

[30] US (61/290,370) 2009-12-28

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[11] **2,783,914**  
[13] C

[51] **Int.Cl. D04H 13/00 (2006.01) B32B 5/26 (2006.01) B60N 3/04 (2006.01) D05C 17/02 (2006.01) D06N 7/00 (2006.01)**

[25] EN

[54] **PRIMARY CARPET BACKING  
DOSSIER DE TAPIS PRIMAIRE**

[72] VISSCHER, EDZE JAN, NL

[73] LOW & BONAR B.V., NL

[85] 2012-06-08

[86] 2010-12-07 (PCT/EP2010/069042)

[87] (WO2011/069996)

[30] EP (09178463.7) 2009-12-09

[11] **2,784,292**  
[13] C

[51] **Int.Cl. B01D 17/02 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS  
FOR THE REMOVAL OF  
IMPURITIES FROM AN  
IMPURITY-LOADED IONIC  
LIQUID**

[54] **PROCEDES ET COMPOSITIONS  
SERVANT A L'ELIMINATION DES  
IMPURETES DANS UN LIQUIDE  
IONIQUE CHARGE D'IMPURETES**

[72] LEAN, JOHN, US

[72] GRIFFIN, SCOTT, US

[72] TAYLOR, MATTHEW, US

[73] CYTEC TECHNOLOGY CORP., US

[85] 2012-06-13

[86] 2010-12-01 (PCT/US2010/058541)

[87] (WO2011/081764)

[30] US (61/286,430) 2009-12-15

[11] **2,784,976**  
[13] C

[51] **Int.Cl. C08F 210/18 (2006.01) C08F 4/6592 (2006.01)**

[25] EN

[54] **TI CATALYST SYSTEM  
COMPRISED SUBSTITUTED  
CYCLOPENTADIENYL, AMIDINE  
AND DIENE LIGAND**

[54] **SYSTEME DE CATALYSEUR AU  
TI COMPRENANT UN LIGAND DE  
CYCLOPENTADIENYLE  
SUBSTITUE, D'AMIDINE ET DE  
DIENE**

[72] DOREMAELE VAN, GERARDUS  
HENRICUS JOSEPHUS, NL

[72] ZUIDVELD, MARTIN  
ALEXANDER, NL

[72] MOUNTFORD, PHILIP, GB

[72] HEATH, ALEX, GB

[72] SCOTT, RICHARD T. W., GB

[73] ARLANXEO NETHERLANDS B.V.,  
NL

[85] 2012-06-18

[86] 2010-12-21 (PCT/EP2010/070344)

[87] (WO2011/076775)

[30] EP (09180137.3) 2009-12-21

[11] **\*2,785,625**  
[13] C

[51] **Int.Cl. H01L 27/22 (2006.01) B82Y 25/00 (2011.01) G11C 11/16 (2006.01) H01L 43/08 (2006.01) H01L 43/12 (2006.01)**

[25] EN

[54] **MAGNETIC RANDOM ACCESS  
MEMORY DEVICE AND METHOD  
FOR PRODUCING A MAGNETIC  
RANDOM ACCESS MEMORY  
DEVICE**

[54] **DISPOSITIF DE MEMOIRE  
MAGNETIQUE A ACCES DIRECT  
ET PROCEDE DE PRODUCTION  
D'UN DISPOSITIF DE MEMOIRE  
MAGNETIQUE A ACCES DIRECT**

[72] ALLENSPACH, ROLF, CH

[72] ZINONI, CARL, FR

[73] INTERNATIONAL BUSINESS  
MACHINES CORPORATION, US

[85] 2012-06-26

[86] 2011-06-08 (PCT/IB2011/052491)

[87] (WO2012/001555)

[30] EP (10168021.3) 2010-06-30

[11] **2,785,768**  
[13] C

[51] **Int.Cl. G01V 3/20 (2006.01) E21B 47/00 (2012.01) G01V 3/34 (2006.01)**

[25] EN

[54] **LOGGING TOOL EMPLOYING A  
MONOPOLE CURRENT  
INJECTION ELECTRODE FOR  
MICRORESISTIVITY IMAGING**

[54] **APPAREIL DE DIAGRAPHIE  
UTILISANT UNE ELECTRODE  
D'INJECTION DE COURANT  
UNIPOLAIRE POUR IMAGERIE  
DE MICRORESISTIVITE**

[72] WANG, TSILI, US

[73] SCHLUMBERGER CANADA  
LIMITED, CA

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[87] (WO2011/090658)

[30] US (12/649,885) 2009-12-30

[11] **2,785,825**  
[13] C

[51] **Int.Cl. C07K 16/06 (2006.01)**

[25] EN

[54] **PROCESS FOR THE INDUSTRIAL-  
SCALE PURIFICATION OF  
GAMMA GLOBULINS FROM  
HUMAN PLASMA FOR  
INDUSTRIAL APPLICATIONS**

[54] **PROCEDE POUR LA  
PURIFICATION A L'ECHELLE  
INDUSTRIELLE DE  
GAMMAGLOBULINES A PARTIR  
D'UN PLASMA HUMAIN POUR  
APPLICATIONS INDUSTRIELLES**

[72] NARDINI, CLAUDIA, IT

[72] MORELLI, ANDREA, IT

[72] FARINA, CLAUDIO, IT

[72] ESPOSITO, SABRINA, IT

[72] LAZZAROTTI, ALESSANDRA, IT

[72] PETRUCCI, ARIANNA, IT

[73] KEDRION S.P.A., IT

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[86] 2010-12-28 (PCT/IB2010/056093)

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[51] **Int.Cl. G16H 10/00 (2018.01) H04L 12/16 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR CONTROLLING A DATA TRANSMISSION TO AND/OR FROM A PLURALITY OF MEDICAL DEVICES**  
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UNE TRANSMISSION DE DONNEES VERS ET/OU DEPUIS UNE PLURALITE D'APPAREILS MEDICAUX**  
[72] SCHMOLL, HORST, DE  
[72] PAETZOLD, MATTHIAS, DE  
[73] B. BRAUN MELSUNGEN AG, DE  
[85] 2012-07-10  
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[51] **Int.Cl. G01N 15/10 (2006.01) C12M 1/34 (2006.01) G01N 15/14 (2006.01) G06K 9/00 (2006.01) G06M 11/00 (2006.01) C12Q 1/02 (2006.01)**  
[25] EN  
[54] **CELL CHARACTERIZATION USING MULTIPLE FOCUS PLANES**  
[54] **CARACTERISATION DE CELLULE AU MOYEN DE MULTIPLES PLANS DE MISE AU POINT**  
[72] BRENNIMAN, GENE, US  
[72] GRIFFIN, MICHAEL, US  
[73] BIO-RAD LABORATORIES, INC., US  
[85] 2012-07-11  
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[54] **CONFECTIONARY CONTAINING PEA PROTEINS**  
[54] **CONFISERIES AUX PROTEINES DE POIS**  
[72] CHOROMANSKI, PIERRE, FR  
[72] MULLER, ELSA, FR  
[72] PARADY, THOMAS, US  
[73] ROQUETTE FRERES, FR  
[85] 2012-07-18  
[86] 2011-02-03 (PCT/FR2011/050213)  
[87] (WO2011/095740)  
[30] FR (1050740) 2010-02-03

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[51] **Int.Cl. G06F 3/0488 (2013.01) G06F 3/0485 (2013.01)**  
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[54] **MULTI-LAYER USER INTERFACE WITH FLEXIBLE PARALLEL AND ORTHOGONAL MOVEMENT**  
[54] **INTERFACE UTILISATEUR MULTICOUCHE A DEPLACEMENT PARALLELE ET ORTHOGONAL FLEXIBLE**  
[72] FONG, JEFFREY CHENG-YAO, US  
[72] HULL, ERIC J., US  
[72] CHUB, SERGEY, US  
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US  
[85] 2012-07-19  
[86] 2011-02-11 (PCT/US2011/024639)  
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[30] US (61/304,004) 2010-02-12  
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[25] EN  
[54] **SANGLIFEHRIN BASED COMPOUNDS USEFUL FOR TREATING VIRAL INFECTION CAUSED BY HCV, HBV OR HIV**  
[54] **COMPOSES A BASE DE SANGLIFEHRINE UTILES POUR LE TRAITEMENT D'UNE INFECTION VIRALE CAUSEE PAR LE VHC, LE VHB OU LE VIH**  
[72] MOSS, STEVEN JAMES, GB  
[72] GREGORY, MATTHEW ALAN, GB  
[72] WILKINSON, BARRIE, GB  
[72] MARTIN, CHRISTINE JANET, GB  
[73] NEUROVIVE PHARMACEUTICAL AB, SE  
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[30] GB (1101085.7) 2011-01-21

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[25] EN

[54] **INHIBITORS OF CATECHOL O-METHYL TRANSFERASE AND THEIR USE IN THE TREATMENT OF PSYCHOTIC DISORDERS**

[54] **INHIBITEURS DE CATECHOL O-METHYL TRANSFERASE ET UTILISATION ASSOCIEE DANS LE TRAITEMENT DE TROUBLES PSYCHOTIQUES**

[72] WOLKENBERG, SCOTT, US  
[72] HARRISON, SCOTT T., US  
[72] BARROW, JAMES C., US  
[72] ZHAO, ZHIJIAN, US  
[72] MELAMED, JEFFREY, US  
[72] KETT, NATHAN, US  
[72] ZARTMAN, AMY, US  
[73] MERCK SHARP & DOHME CORP., US

[85] 2012-08-09  
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[13] C

[51] **Int.Cl. D06F 23/02 (2006.01) D06F 35/00 (2006.01)**

[25] EN

[54] **IMPROVED CLEANING APPARATUS HAVING RECIRCULATION MEANS AND METHOD**

[54] **APPAREIL DE NETTOYAGE AMELIORE COMPORTANT DES MECANISMES DE RECIRCULATION ET METHODE**

[72] JENKINS, STEPHEN DEREK, GB  
[72] KENNEDY, FRAZER JOHN, GB  
[73] XEROS LIMITED, GB

[85] 2012-08-10  
[86] 2011-02-10 (PCT/GB2011/050243)  
[87] (WO2011/098815)  
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[13] C

[51] **Int.Cl. A61F 13/44 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **RADIO OPAQUE, REDUCED-PRESSURE MANIFOLDS, SYSTEMS, AND METHODS**

[54] **COLLECTEURS RADIO-OPAQUES A PRESSION REDUITE, SYSTEMES ET METHODES**

[72] ZIMNITSKY, DMITRY, US  
[72] VAIL, NEAL, US  
[73] KCI LICENSING, INC., US

[85] 2012-08-13  
[86] 2011-03-10 (PCT/US2011/027987)  
[87] (WO2011/112866)  
[30] US (61/313,386) 2010-03-12  
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[13] C

[51] **Int.Cl. A01K 15/02 (2006.01)**

[25] EN

[54] **MECHANICALLY COMPLIANT PROBE FOR DELIVERING AN ELECTRICAL STIMULUS TO AN ANIMAL**

[54] **SONDE MECANIQUEMENT SOUPLE POUR L'ADMINISTRATION D'UN STIMULUS ELECTRIQUE A UN ANIMAL**

[72] MAININI, CHRISTOPHER E., US  
[72] BRICK, CLIFTON P., US  
[73] RADIO SYSTEMS CORPORATION, US

[85] 2012-08-14  
[86] 2011-02-25 (PCT/US2011/026243)  
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[30] US (12/712,749) 2010-02-25

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[13] C

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[54] **UNDERGROUND MINING EXPLOITATION SOUTERRAINE**

[72] ODDIE, MAX EDWARD, GB  
[72] JONES, COLIN IAN, GB  
[72] DELABBIO, FREDRIC CHRISTOPHER, AU  
[72] LABRECQUE, PIERRE, CA  
[73] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU

[85] 2012-08-15  
[86] 2011-02-22 (PCT/AU2011/000187)  
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[30] AU (2010900726) 2010-02-22  
[30] AU (2010902511) 2010-06-08

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[13] C

[51] **Int.Cl. G01N 21/51 (2006.01) G01N 21/17 (2006.01)**

[25] EN

[54] **HANDHELD OPTICAL MEASURING DEVICE AND METHOD OF USE**

[54] **APPAREIL DE MESURE PORTATIF, ET PROCEDE D'UTILISATION**

[72] CHRISTENSEN, WILLIAM M., US  
[72] TOKHTUEV, EUGENE, US  
[72] OWEN, CHRISTOPHER J., US  
[73] ECOLAB USA INC., US

[85] 2012-08-15  
[86] 2011-03-29 (PCT/IB2011/051346)  
[87] (WO2011/121549)  
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[13] C

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[25] EN

[54] **METHOD FOR PRESERVING FRESH CUT LEMON**

[54] **PROCEDE DE CONSERVATION DE CITRON NATUREL COUPE**

[72] LOPEZ INSAUSTI, RAFAEL, ES  
[72] ITOIZ AVINZANO, REYES, ES  
[72] GARCIA DE LA TORRE, SILVIA, ES  
[72] GONZALEZ NAVARRO, CARLOS JAVIER, ES  
[73] LUNACITRIC, S.A., ES

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[86] 2011-02-03 (PCT/ES2011/070072)  
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[25] EN

[54] **METHOD FOR ACTIVATION AND CONJUGATION OF BIOMOLECULES**

[54] **PROCEDE POUR L'ACTIVATION ET LA CONJUGAISON DE BIOMOLECULES**

[72] VOGEL, JENS H., US

[72] TO, CHI SHUNG BRIAN, US

[72] BIANCO, CAROLINA LUCIA, DE

[73] BAYER HEALTHCARE LLC, US

[85] 2012-08-17

[86] 2011-02-21 (PCT/US2011/025592)

[87] (WO2011/103531)

[30] US (61/306,513) 2010-02-21

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[13] C

[51] **Int.Cl. C12H 1/04 (2006.01) B01D 39/06 (2006.01) B01J 20/14 (2006.01)**

[25] EN

[54] **METHODS FOR REDUCING SOLUBLE METAL IONS IN DIATOMACEOUS EARTH FILTER AIDS**

[54] **PROCEDE DE REDUCTION DES IONS METALLIQUES SOLUBLES DANS DES ADJUVANTS POUR FILTRE A DIATOMEES**

[72] TING, PATRICK L., US

[72] SAUNDERS, FRAN L., US

[72] DANNENBERG, RHONDA M., US

[72] LAUMANN, JACQUELINE A., US

[72] EPLETT, JOHN T., US

[72] CASEY, GREGORY P., US

[72] RYDER, DAVID S., US

[73] COORS BREWING COMPANY, US

[85] 2012-08-20

[86] 2011-03-11 (PCT/US2011/028087)

[87] (WO2011/115832)

[30] US (12/724,173) 2010-03-15

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[25] EN

[54] **ARTIFICIAL MYCOLIC ACID MEMBRANES**

[54] **MEMBRANES ARTIFICIELLES D'ACIDES MYCOLIQUES**

[72] GUNDLACH, JENS H., US

[72] DERRINGTON, IAN M., US

[72] LANGFORD, KYLE W., US

[73] UNIVERSITY OF WASHINGTON, US

[85] 2012-08-21

[86] 2011-02-23 (PCT/US2011/025960)

[87] (WO2011/106456)

[30] US (61/307,441) 2010-02-23

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[51] **Int.Cl. B29C 70/54 (2006.01) B01D 67/00 (2006.01) B01D 69/00 (2006.01) B01D 69/06 (2006.01) B29C 44/32 (2006.01) B32B 7/00 (2006.01) D06N 7/00 (2006.01)**

[25] EN

[54] **FLEXIBLE SHEET-LIKE MATERIAL FOR DEFINING A MATRIX MATERIAL FEED SPACE AND PROCESS FOR THE PRODUCTION THEREOF**

[54] **MATERIAU PLAT SOUPLE POUR DELIMITER UN ESPACE D'ALIMENTATION EN MATERIAU MATRICIEL ET PROCEDE DE FABRICATION DUDIT MATERIAU PLAT SOUPLE**

[72] KRINGS, WILHELM, DE

[72] HAENSCH, MANFRED, DE

[72] PRIBIL, LEOPOLD, DE

[72] HIERHAMMER, WILHELM, DE

[73] TRANS-TEXTIL GMBH, DE

[73] AIRBUS DEFENCE AND SPACE GMBH, DE

[85] 2012-08-23

[86] 2011-03-09 (PCT/EP2011/001162)

[87] (WO2011/110340)

[30] DE (10 2010 011 067.1) 2010-03-11

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[13] C

[51] **Int.Cl. B05D 7/24 (2006.01) A61M 15/00 (2006.01)**

[25] EN

[54] **MEDICAMENT DISPENSER DEVICE**

[54] **DISPOSITIF DE DISTRIBUTION DE MEDICAMENT**

[72] BROMLEY-DAVENPORT, DARREN, GB

[72] STEVENSON, PAUL, GB

[73] PORTAL MEDICAL LTD., GB

[85] 2012-08-24

[86] 2011-02-23 (PCT/GB2011/050350)

[87] (WO2011/104539)

[30] GB (1003273.8) 2010-02-26

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[13] C

[51] **Int.Cl. A61K 31/137 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **THE USE OF FENOTEROL AND FENOTEROL ANALOGUES IN THE TREATMENT OF GLIOBLASTOMAS AND ASTROCYTOMAS**

[54] **UTILISATION DU FENOTEROL ET DE SES ANALOGUES DANS LE TRAITEMENT DE GLIOBLASTOMES ET D'ASTROCYTOMES**

[72] WAINER, IRVING W., US

[72] BERNIER, MICHEL, US

[72] TOLL, LAWRENCE ROBERT, US

[72] JIMENEZ, LUCITA ARENAS, US

[73] SRI INTERNATIONAL, US

[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[85] 2012-08-30

[86] 2011-03-10 (PCT/US2011/027988)

[87] (WO2011/112867)

[30] US (61/312,642) 2010-03-10

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[13] C

[51] **Int.Cl. H04L 12/911 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PROVIDING A VIRTUAL PEER-TO-PEER ENVIRONMENT**  
[54] **SYSTEME ET PROCEDE PERMETTANT D'OBTENIR UN ENVIRONNEMENT VIRTUEL DE POSTE A POSTE**  
[72] CHATURVEDI, SIVAKUMAR, US  
[72] GUNDABATHULA, SATISH, US  
[72] CHATURVEDI, RAMESHKUMAR, US  
[73] DAMAKA, INC., US  
[85] 2012-09-07  
[86] 2011-03-16 (PCT/US2011/028685)  
[87] (WO2011/116104)  
[30] US (12/728,024) 2010-03-19

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[13] C

[51] **Int.Cl. E01F 9/70 (2016.01)**  
[25] FR  
[54] **DEVICE FOR PICKING UP AND INSTALLING MARKING CONES, DESIGNED TO BE POSITIONED ON ONE SIDE, BEHIND OR IN FRONT OF A PICK-UP VEHICLE**  
[54] **DISPOSITIF POUR LE RAMASSAGE ET LA POSE DE CONES DE BALISAGE, DESTINE A ETRE POSITIONNE SUR UN COTE, OU L'ARRIERE, OU L'AVANT D'UN VEHICULE DE RAMASSAGE**  
[72] PARADIS, FRANCOIS, FR  
[73] OPTOMACHINES, FR  
[85] 2012-09-12  
[86] 2011-03-17 (PCT/IB2011/000566)  
[87] (WO2011/138647)  
[30] FR (10/01105) 2010-03-19

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[13] C

[51] **Int.Cl. F25J 1/02 (2006.01)**  
[25] EN  
[54] **INTEGRATED PRE-COOLED MIXED REFRIGERANT SYSTEM AND METHOD**  
[54] **SYSTEME DE FRIGORIGENE MELANGE PRE-REFROIDI INTEGRE ET PROCEDE**  
[72] GUSHANAS, TIM, US  
[72] DUCOTE, DOUG DOUGLAS, JR., US  
[72] PODOLSKI, JAMES, US  
[73] CHART ENERGY & CHEMICALS, INC., US  
[85] 2012-09-17  
[86] 2011-03-04 (PCT/US2011/027162)  
[87] (WO2011/115760)  
[30] US (12/726,142) 2010-03-17

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[13] C

[51] **Int.Cl. B03C 1/032 (2006.01) B03C 1/28 (2006.01)**  
[25] FR  
[54] **DEVICE AND METHOD FOR RECOVERING MAGNETIC PARTICLES TRAPPED ON A MAGNETIC PLUG**  
[54] **DISPOSITIF ET PROCEDE DE RECUPERATION DE PARTICULES MAGNETIQUES PIEGEES SUR UN BOUCHON MAGNETIQUE**  
[72] BERTHOD, GILLES, FR  
[72] COLLADON, FABRICE, FR  
[73] SNECMA, FR  
[85] 2012-09-20  
[86] 2011-03-21 (PCT/FR2011/050577)  
[87] (WO2011/121207)  
[30] FR (1052291) 2010-03-29

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[13] C

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 17/27 (2006.01) H04W 88/02 (2009.01) G06F 3/041 (2006.01) G06F 15/00 (2006.01)**  
[25] EN  
[54] **TOUCHSCREEN KEYBOARD PREDICTIVE DISPLAY AND GENERATION OF A SET OF CHARACTERS**  
[54] **AFFICHAGE PREDICTIF DE CLAVIER TACTILE ET PRODUCTION D'UN ENSEMBLE DE CARACTDRES**  
[72] GRIFFIN, JASON TYLER, CA  
[72] PASQUERO, JEROME, CA  
[73] BLACKBERRY LIMITED, CA  
[86] (2794063)  
[87] (2794063)  
[22] 2012-11-01  
[30] US (13/373,356) 2011-11-01  
[30] US (13/588,803) 2012-08-17

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[13] C

[51] **Int.Cl. B61L 27/04 (2006.01) B61L 3/12 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR MANAGING SPECIFIC EVENTS RELATED TO THE MOVEMENTS OF A GUIDED VEHICLE**  
[54] **METHODE ET SYSTEME DE GESTION D'EVENEMENTS PARTICULIERS LIES AU DEPLACEMENT D'UN VEHICULE GUIDE**  
[72] NOGUEIRA ALVES, CLARA, FR  
[72] EL FASSI, SAIED, FR  
[73] SIEMENS SAS, FR  
[85] 2012-09-24  
[86] 2010-04-28 (PCT/EP2010/055740)  
[87] (WO2011/116837)  
[30] EP (10290159.2) 2010-03-26



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[13] C

[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/145 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DETERMINING AT LEAST ONE EVALUATION PARAMETER OF AT LEAST ONE BLOOD SAMPLE**  
[54] **PROCEDE ET APPAREIL DE DETERMINATION D'AU MOINS UN PARAMETRE D'EVALUATION D'AU MOINS UN ECHANTILLON DE SANG**  
[72] SCHUBERT, AXEL, DE  
[72] BELS, KEVIN, DE  
[73] C A CASYSO AG, CH  
[85] 2012-09-24  
[86] 2011-02-08 (PCT/EP2011/051803)  
[87] (WO2011/117017)  
[30] EP (10157562.9) 2010-03-24

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[11] **2,794,378**  
[13] C

[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/56 (2014.01)**  
[25] EN  
[54] **MOTION PREDICTION METHOD AND VIDEO ENCODING METHOD**  
[54] **PROCEDE DE PREDICTION DE MOUVEMENT ET PROCEDE DE CODAGE VIDEO**  
[72] TSAI, YU-PAO, CN  
[72] FU, CHIH-MING, CN  
[72] LIN, JIAN-LIANG, CN  
[72] HUANG, YU-WEN, CN  
[72] LEI, SHAW-MIN, CN  
[73] HFI INNOVATION INC., CN  
[85] 2012-09-25  
[86] 2011-04-08 (PCT/CN2011/072539)  
[87] (WO2011/131091)  
[30] US (61/326,731) 2010-04-22  
[30] US (12/962,411) 2010-12-07

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[13] C

[51] **Int.Cl. A24B 13/00 (2006.01) A23F 3/30 (2006.01) A24B 15/28 (2006.01)**  
[25] EN  
[54] **SOLID ORAL SENSORIAL PRODUCTS INCLUDING STAIN INHIBITOR**  
[54] **PRODUITS SENSORIELS SOLIDES A ADMINISTRATION PAR VOIE ORALE, COMPRENANT UN INHIBITEUR DE SALISSURE**  
[72] MISER, DONALD E., US  
[72] SWEENEY, WILLIAM R., US  
[72] LI, QINGLIN, US  
[72] MERSKI, JEROME A., US  
[73] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2012-09-25  
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[87] (WO2011/116977)  
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[25] EN  
[54] **INHIBITION OF UNDESIRE SENSORY EFFECTS BY THE COMPOUND CAMPHOR**  
[54] **INHIBITION D'EFFETS SENSORIELS INDESIRABLES PAR LE COMPOSE CAMPHRE**  
[72] KOBAL, GERD, US  
[72] GOGOVA, MARIA, US  
[72] POLUR, PRASAD, US  
[72] MCKINNEY, DIANA, US  
[73] PHILIP MORRIS PRODUCTS S.A., CH  
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[25] EN  
[54] **SEPARATION METHOD**  
[54] **PROCEDE DE SEPARATION**  
[72] KIRCHMAYR, ROLAND, AT  
[72] HARASEK, MICHAEL, AT  
[72] MAIER, CHRISTIAN, AT  
[72] WALTENBERGER, REINHOLD, AT  
[73] HARASEK, MICHAEL, AT  
[73] KIRCHMAYR, ROLAND, AT  
[85] 2012-10-23  
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[25] EN  
[54] **PRODUCTION OF MONOCRYSTALLINE SEMICONDUCTOR MATERIALS**  
[54] **FABRICATION DE MATERIAUX SEMI-CONDUCTEURS MONOCRYSTALLINS**  
[72] KERAT, UWE, DE  
[72] SCHMID, CHRISTIAN, DE  
[72] HAHN, JOCHEM, DE  
[73] SCHMID SILICON TECHNOLOGY GMBH, DE  
[85] 2012-10-02  
[86] 2011-04-11 (PCT/EP2011/055626)  
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[54] **VERY LOW-DOSED SOLID ORAL DOSAGE FORMS FOR HRT**

[54] **FORMES PHARMACEUTIQUES ORALES SOLIDES A TRES FAIBLE DOSE POUR HRT**

[72] MLETZKO, STEPHAN, DE

[72] SCHUERMANN, ROLF, DE

[72] GUDE, KERSTIN, DE

[73] BAYER INTELLECTUAL PROPERTY GMBH, DE

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[25] EN

[54] **HIGH SOLVENT CONTENT EMULSIONS**

[54] **EMULSIONS A TENEUR ELEVEE EN SOLVANT**

[72] ZHANG, QIQING, CN

[72] KHOSHDEL, EZAT, GB

[72] MOADDEL, TEANOOSH, US

[72] DOBKOWSKI, BRIAN JOHN, US

[72] ZHOU, WEIZHENG, CN

[72] YUAN, SU, CN

[73] UNILEVER PLC, GB

[85] 2012-10-05

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[25] EN

[54] **GRADUAL-RELEASE DOSING DEVICE AND SEAL OF A DOMESTIC-USE APPARATUS**

[54] **DISPOSITIF DE DOSAGE A LIBERATION GRADUELLE ET JOINT D'APPAREIL A USAGE DOMESTIQUE**

[72] BARATTA, CARLA, IT

[72] DELLA NEGRA, FEDERICO, IT

[72] MARETTO, STEFANO, IT

[72] OLIVA, LILIANA, IT

[72] RIERA, MONTSERRAT, IT

[72] TOMASULO, ANTONIETTA, IT

[73] RECKITT BENCKISER CALGON B.V., NL

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[86] 2011-04-11 (PCT/GB2011/050710)

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[54] **DOOR HANDLE**

[54] **POIGNEE DE PORTE**

[72] ROBERTS, MATTHEW GEOFFREY, GB

[72] MEEKS, ALAN MICHAEL GEORGE, GB

[73] PURE HOLD LIMITED, GB

[85] 2012-10-16

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[25] FR

[54] **ACTUATION OF THE BLADES OF AN UNSTREAMLINED AIR BLOWER**

[54] **ACTIONNEMENT DES PALES D'UNE SOUFFLANTE NON CARENEE**

[72] DE WERGIFOSSE, ERIC, FR

[73] LABINAL POWER SYSTEMS, FR

[85] 2012-10-23

[86] 2011-04-20 (PCT/FR2011/050917)

[87] (WO2011/135236)

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[25] EN

[54] **METHOD AND APPARATUS FOR ADJUSTING LIGHT OUTPUT RANGE OF SOLID STATE LIGHTING LOAD BASED ON MAXIMUM AND MINIMUM DIMMER SETTINGS**

[54] **PROCEDE ET APPAREIL POUR REGLER UNE PLAGE DE RENDEMENT LUMINEUX DE CHARGE D'ECLAIRAGE A SEMI-CONDUCTEUR EN FONCTION DE REGLAGES MAXIMUM ET MINIMUM DE GRADATEUR**

[72] DATTA, MICHAEL, US

[73] PHILIPS LIGHTING HOLDING B.V., NL

[85] 2012-10-26

[86] 2011-04-22 (PCT/IB2011/051773)

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[25] EN

[54] **METHOD FOR OPERATING A HYBRID DRIVE AND HYBRID DRIVE**

[54] **PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN ENTRAINEMENT HYBRIDE ET ENTRAINEMENT HYBRIDE**

[72] NOTZ, MARKUS, CH

[72] LANKER, MARKUS, CH

[73] NETSTAL-MASCHINEN AG, CH

[85] 2012-11-01

[86] 2011-05-09 (PCT/EP2011/057420)

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[54] **SYSTEMES CATALYTIQUES SCR ET AMOX INTEGRES**  
[72] BOORSE, SAMUEL R., US  
[72] CAUDLE, MATTHEW T., US  
[72] DIETERLE, MARTIN, US  
[72] KUMAR, SANATH V., US  
[72] VOSS, KENNETH E., US  
[73] BASF CORPORATION, US  
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[54] **STORAGE TROLLEY BODY FOR AIRCRAFT**  
[54] **CHARIOT POUR AVION**  
[72] HERNANZ ARBELOA, ANGEL MARIA, ES  
[72] FREIRE DE LA CRUZ, JOSE ANTONIO, ES  
[73] INDUSTRIAL NEO TEX, S.A., ES  
[73] HERNANZ ARBELOA, ANGEL MARIA, ES  
[73] FREIRE DE LA CRUZ, JOSE ANTONIO, ES  
[85] 2012-11-08  
[86] 2011-05-12 (PCT/EP2011/057683)  
[87] (WO2011/141539)  
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[13] C

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[25] EN  
[54] **CONTINUOUS TAKE OFF TECHNIQUE AND PRESSURE CONTROL OF POLYMERIZATION REACTORS**  
[54] **TECHNIQUE DE PRELEVEMENT EN CONTINU ET CONTROLE DE LA PRESSION DE REACTEURS DE POLYMERISATION**  
[72] HOTTOVY, JOHN D., US  
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US  
[85] 2012-11-09  
[86] 2011-05-13 (PCT/US2011/036434)  
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[13] C

[51] **Int.Cl. A61B 17/115 (2006.01) A61B 17/00 (2006.01) A61B 17/072 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS FOR DELIVERING TISSUE TREATMENT COMPOSITIONS TO STAPLED TISSUE**  
[54] **PROCEDES ET APPAREIL POUR ADMINISTRER DES COMPOSITIONS DE TRAITEMENT TISSULAIRE A UN TISSU AGRAFE**  
[72] HULL, JOANNE, US  
[72] HABERSTICH, WELLS D., US  
[72] HALL, STEVEN G., US  
[72] HIBNER, JOHN A., US  
[72] CARTER, YOLANDA F., US  
[72] HWANG, JULIA J., US  
[72] SHELTON, FREDERICK E., IV, US  
[72] SCHULTE, JOHN B., US  
[72] MOLLERE, REBECCA J., US  
[72] DUGAN, PATRICK D., US  
[72] CRONIN, MICHAEL D., US  
[72] MORGAN, JEROME R., US  
[73] ETHICON ENDO-SURGERY, INC., US  
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[51] **Int.Cl. A61M 5/00 (2006.01) B65D 71/70 (2006.01) B65B 3/00 (2006.01)**  
[25] EN  
[54] **WORKPIECE CARRIER FOR TRANSPORTING AND/OR STORING COMPONENTS OF DRUG DELIVERY DEVICES**  
[54] **SUPPORT DE PIECE A USINER POUR LE TRANSPORT ET/OU LE STOCKAGE DE COMPOSANTS DE DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT**  
[72] JOSEF, CLEMENS, DE  
[72] SIMON, CHRISTIAN, DE  
[72] BODE, ANDREAS, DE  
[72] POMMERAU, CHRISTIAN, DE  
[73] SANOFI-AVENTIS DEUTSCHLAND GMBH, DE  
[85] 2012-11-08  
[86] 2011-05-12 (PCT/EP2011/057698)  
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[25] EN  
[54] **LIQUID NASAL SPRAY CONTAINING LOW-DOSE NALTREXONE**  
[54] **SPRAY NASAL LIQUIDE CONTENANT DU NALTREXONE A FAIBLE DOSE**  
[72] ANGELI, ROBERTO, IT  
[72] RAFFAELI, WILLIAM, IT  
[72] RIGAMONTI, MARIA ADELE, IT  
[73] L. MOLteni & C. DEI FRATELLI ALITTI SOCIETA DI ESERCIZIO S.P.A., IT  
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[25] EN  
[54] **AZEOTROPE-LIKE COMPOSITIONS OF TETRAFLUOROPROPENE AND WATER**  
[54] **COMPOSITIONS DE TYPE AZEOTROPE DE TETRAFLUOROPROPENE ET D'EAU**  
[72] HULSE, RYAN, US  
[72] KOPKALLI, HALUK, US  
[72] PHAM, HANG T., US  
[73] HONEYWELL INTERNATIONAL INC., US  
[85] 2012-11-06  
[86] 2011-05-02 (PCT/US2011/034763)  
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[30] US (61/331,980) 2010-05-06  
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[25] EN  
[54] **BIO-OIL FORMULATION AS AN ASPHALT SUBSTITUTE**  
[54] **FORMULATION DE BIO-HUILE EN TANT QUE SUBSTITUT D'ASPHALTE**  
[72] WILLIAMS, RONALD CHRISTOPHER, US  
[72] MOHAMED METWALLY, MOHAMED ABDEL RAOUF, US  
[72] BROWN, ROBERT C., US  
[73] IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC., US  
[85] 2012-11-28  
[86] 2011-05-31 (PCT/US2011/038577)  
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[30] US (61/350,199) 2010-06-01

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[13] C

[51] **Int.Cl. G01V 1/38 (2006.01) G01V 1/16 (2006.01)**  
[25] EN  
[54] **METHOD OF DEPLOYMENT, METHOD AND DEVICE FOR SEISMIC PROSPECTING IN AN AQUATIC MEDIUM**  
[54] **PROCEDE DE DEPLOIEMENT, PROCEDE ET DISPOSITIF DE PROSPECTION SISMIQUE EN MILIEU AQUATIQUE**  
[72] MANIN, MICHEL, FR  
[73] KIETTA, FR  
[85] 2012-11-30  
[86] 2011-06-10 (PCT/EP2011/059747)  
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[30] FR (1054616) 2010-06-10

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[25] EN  
[54] **MODIFIED CARBON NANOTUBES AND THEIR COMPATIBILITY**  
[54] **NANOTUBES DE CARBONE MODIFIES ET LEUR COMPATIBILITE**  
[72] GUAN, JINGWEN, CA  
[72] FRASER, ROBIN, CA  
[72] SIMARD, BENOIT, CA  
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA  
[85] 2012-12-05  
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[25] EN  
[54] **SUBSTRATE COATING ON ONE OR MORE SIDES**  
[54] **REVETEMENT DE SUBSTRAT SUR UNE OU PLUSIEURS FACES**  
[72] DULLE, KARL-HEINZ, DE  
[72] FUNCK, FRANK, DE  
[72] HOORMANN, DIRK, DE  
[72] OELMANN, STEFAN, DE  
[72] WOLTERING, PETER, DE  
[72] SCHMITT, CARSTEN, DE  
[72] HOFMANN, PHILIPP, DE  
[72] BAUMER, ULF-STEFFEN, DE  
[73] THYSSENKRUPP UHDE GMBH, DE  
[85] 2012-12-06  
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[87] (WO2011/154094)  
[30] DE (10 2010 023 418.4) 2010-06-11

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[25] EN  
[54] **MULTI-PROTOCOL ELECTRONIC TOLL COLLECTION SYSTEM**  
[54] **SYSTEME DE PEAGE AUTOMATIQUE ELECTRONIQUE A PROTOCOLES MULTIPLES**  
[72] KOHLI, JAPJEEV, CA  
[72] TURNOCK, RICHARD, CA  
[73] KAPSCH TRAFFICCOM CANADA INC., CA  
[85] 2012-12-07  
[86] 2011-06-09 (PCT/CA2011/050351)  
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[25] EN  
[54] **MEDICAL DEVICE COMPRISING AN ARTIFICIAL CONTRACTILE STRUCTURE**  
[54] **DISPOSITIF MEDICAL COMPORTANT UNE STRUCTURE CONTRACTILE ARTIFICIELLE**  
[72] TOZZI, PIERGIORGIO, CH  
[72] BORGHI, ENZO, IT  
[72] HAYOZ, DANIEL, CH  
[72] HORST, MARTIN, CH  
[72] WIELAND, MARCO, CH  
[73] MYOPOWERS MEDICAL TECHNOLOGIES FRANCE SAS, FR  
[85] 2012-12-11  
[86] 2011-07-01 (PCT/EP2011/003285)  
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[30] EP (10168217.7) 2010-07-02

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[13] C

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[25] EN  
[54] **ACCESS CHANNEL STRUCTURE FOR WIRELESS COMMUNICATION SYSTEM**  
[54] **STRUCTURE DE CANAL D'ACCES POUR SYSTEME DE RADIOCOMMUNICATIONS**  
[72] HOFFMANN, JOHN E., US  
[72] NELSON, GEORGE RODNEY, JR., US  
[72] PROCTOR, JAMES A., JR., US  
[72] ROUPHAEL, ANTOINE J., US  
[73] IPR LICENSING, INC., US  
[86] (2802331)  
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[22] 2001-02-05  
[62] 2,660,923  
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[30] US (09/766,875) 2001-01-19

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[25] FR  
[54] **WINDSHIELD WIPER BLADE HAVING AN INTEGRATED SPRAYING DEVICE**  
[54] **BALAI D'ESSUIE-GLACE A DISPOSITIF D'ASPERSION INTEGRE**  
[72] MARQUET, CHANTAL, FR  
[72] PETITET, GILLES, FR  
[73] VALEO SYSTEMES D'ESSUYAGE, FR  
[85] 2012-12-11  
[86] 2011-06-08 (PCT/EP2011/059451)  
[87] (WO2011/160952)  
[30] FR (10/02496) 2010-06-21

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[13] C

- [51] **Int.Cl. E04G 21/32 (2006.01) A62B 35/00 (2006.01)**  
[25] EN  
[54] **SAFETY DEVICES COMPRISING A LOAD-BEARING COMPOSITE POLYMERIC HOUSING AND A LOAD-BEARING ANCHORAGE PLATE**  
[54] **DISPOSITIFS DE SECURITE COMPRENANT UN BOITIER POLYMERE COMPOSITE DE SUPPORT DE CHARGE ET UNE PLAQUE D'ANCRAGE DE SUPPORT DE CHARGE**  
[72] DIETRICH, KURT D., US  
[72] GRIFFITHS, STEPHEN, GB  
[73] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2012-12-18  
[86] 2011-06-02 (PCT/US2011/038897)  
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[30] US (12/821,607) 2010-06-23

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[25] EN  
[54] **HIGH-CURRENT INSERTION-CONNECTED CONNECTOR**  
[54] **CONNECTEUR ENFICHABLE POUR COURANTS ELEVES**  
[72] BLAKBORN, WILLEM, DE  
[72] AUER, MARTIN, DE  
[72] REINER, GREGOR, DE  
[73] ROSENBERGER HOCHFREQUENZTECHNIK GMBH & CO. KG, DE  
[85] 2012-12-18  
[86] 2011-06-09 (PCT/EP2011/002856)  
[87] (WO2012/013258)  
[30] DE (20 2010 010 827.6) 2010-07-29

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[13] C

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[25] FR  
[54] **DATA COLLECTION DEVICE FOR MONITORING STREAMS IN A DATA NETWORK**  
[54] **DISPOSITIF DE COLLECTE DE DONNEES POUR LA SURVEILLANCE DE FLUX DANS UN RESEAU DE DONNEES**  
[72] TOLLET, JEROME, FR  
[72] ABELA, JEROME, FR  
[73] QOSMOS TECH., FR  
[85] 2012-12-20  
[86] 2011-04-14 (PCT/FR2011/050867)  
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[30] FR (10 55016) 2010-06-23

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[54] **.OMEGA.3 FATTY ACID COMPOUND PREPARATION PREPARATION A BASE DE COMPOSES D'ACIDE GRAS .OMEGA.3**

[72] FUJII, HIROSATO, JP  
[72] ITO, HIROMITSU, JP  
[72] YAMAGATA, MOTOO, JP  
[73] MOCHIDA PHARMACEUTICAL CO., LTD., JP

[85] 2012-12-20  
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[51] **Int.Cl. A63C 19/04 (2006.01) E01C 13/10 (2006.01)**

[25] EN

[54] **PADDING LAYER FOR MULTI-LAYERED SPORTS PLAYING FIELD  
COUCHE DE CAPITONNAGE POUR TERRAINS DE SPORT MULTICOUCHES**

[72] VACHON, FREDERIC, CA  
[73] 4427017 CANADA INC., CA

[85] 2012-12-21  
[86] 2011-06-30 (PCT/CA2011/000771)  
[87] (WO2012/000099)  
[30] US (61/359,918) 2010-06-30

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[11] **2,803,716**  
[13] C

[51] **Int.Cl. C02F 3/08 (2006.01) B01D 33/11 (2006.01) C02F 3/00 (2006.01)**

[25] EN

[54] **DEVICE FOR TREATING WATER COMPRISING A SOLID FILTER DRUM  
DISPOSITIF DE TRAITEMENT D'EAU COMPRENANT UN TAMBOUR FILTRANT PLEIN**

[72] SCHMITT, THOMAS, FR  
[72] HERTFELDER, NIKOLAI, DE  
[73] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR

[85] 2012-12-21  
[86] 2011-06-30 (PCT/EP2011/061079)  
[87] (WO2012/001136)  
[30] FR (1055348) 2010-07-02

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[11] **2,804,323**  
[13] C

[51] **Int.Cl. B65G 47/256 (2006.01) B65G 21/20 (2006.01) B65G 35/00 (2006.01) B67B 3/064 (2006.01)**

[25] FR

[54] **DEVICE FOR PREPARING SEALING ELEMENTS  
DISPOSITIF DE PREPARATION D'ELEMENTS DE BOUCHAGE**

[72] LOPEZ, REMY, FR  
[72] PETROVIC, ZMAJ, FR  
[72] LAMOLY, DAVID, FR  
[73] GEBO PACKAGING SOLUTIONS FRANCE, FR

[85] 2012-12-18  
[86] 2011-05-11 (PCT/FR2011/051054)  
[87] (WO2012/001251)  
[30] FR (10 55200) 2010-06-29

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[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01)**

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[54] **MOBILE DIRECTORY NUMBER AND EMAIL VERIFICATION OF FINANCIAL TRANSACTIONS  
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[72] SNYDER, RANDALL A., US  
[72] BUHRMANN, MICHAEL F., US  
[72] GINTER, THOMAS S., US  
[73] VISA INTERNATIONAL SERVICE ASSOCIATION, US

[85] 2013-01-04  
[86] 2010-07-07 (PCT/US2010/041264)  
[87] (WO2011/005900)  
[30] US (61/223,671) 2009-07-07  
[30] US (61/223,677) 2009-07-07

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[13] C

[51] **Int.Cl. A47J 27/10 (2006.01) A47J 27/12 (2006.01) A47J 27/16 (2006.01) A47J 36/02 (2006.01) A47J 36/06 (2006.01) A47J 36/34 (2006.01)**

[25] EN

[54] **QUICK ATTACHING CHAFING DISH HANDLE CONFIGURED FOR SAFE CHAFING DISH PLACEMENT AND REMOVAL AND FOR NESTING CHAFING DISH STORAGE  
POIGNEE DE POELON A FIXATION RAPIDE POUR DISPOSITION ET RETRAIT SUR UN POELON ET POUR STOCKAGE DE POELONS EMBOITES**

[72] LEONARD, LOIS, US  
[72] LEONARD, JOSEPH L., US  
[73] GET-A-GRIP CHAFING PANS, LLC, US

[85] 2013-01-07  
[86] 2011-07-05 (PCT/US2011/042927)  
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[30] US (61/361,478) 2010-07-05

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[25] EN  
[54] **PRESSURE VESSEL FOR STORING A FLUID**  
[54] **RECIPIENT SOUS PRESSION POUR LE STOCKAGE D'UN FLUIDE**  
[72] KLESCHINSKI, MICHAEL, DE  
[72] MULLER, DIETMAR, DE  
[73] HEXAGON TECHNOLOGY AS, NO  
[85] 2012-12-13  
[86] 2011-06-17 (PCT/DE2011/075135)  
[87] (WO2012/022321)  
[30] DE (10 2010 017 413.0) 2010-06-17

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[11] **2,805,109**  
[13] C

[51] **Int.Cl. A61B 17/80 (2006.01)**  
[25] EN  
[54] **ASSEMBLIES FOR ALIGNING A BONE FIXATION PLATE**  
[54] **ENSEMBLE D'ALIGNEMENT D'UNE PLAQUE DE FIXATION OSSEUSE**  
[72] CONLEY, JORDAN, US  
[72] GALM, ANDRE, CH  
[72] JAEGGI, FABIAN, CH  
[73] DEPUY SYNTHES PRODUCTS, INC., US  
[85] 2013-01-10  
[86] 2011-07-14 (PCT/US2011/043968)  
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[13] C

[51] **Int.Cl. F04D 29/04 (2006.01) F04D 7/04 (2006.01) F04D 29/62 (2006.01)**  
[25] EN  
[54] **PUMP DESIGNED FOR INSTALLATION CONVERSION**  
[54] **POMPE CONCUE POUR CONVERTIR UNE INSTALLATION**  
[72] DAVIS, MARK ALAN, US  
[72] FALKIEWICZ, TIMOTHY MARTIN, US  
[72] PLAYFORD, MARK ALEXANDER, US  
[73] ITT MANUFACTURING ENTERPRISES LLC, US  
[85] 2013-01-18  
[86] 2011-07-21 (PCT/US2011/044796)  
[87] (WO2012/012604)  
[30] US (61/366,309) 2010-07-21

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[13] C

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETECTION OF ISCHEMIC STROKES**  
[54] **PROCEDE DE DETECTION D'ACCIDENTS ISCHEMIQUES**  
[72] CURDT, INGO, DE  
[72] BLINCKO, STUART, DE  
[72] DHEIN, JENS, DE  
[72] DEVANARAYAN, VISWANATH, US  
[72] MONTANER VILLALONGA, JOAN, ES  
[73] ABBOTT GMBH & CO. KG, DE  
[73] FUNDACIO HOSPITAL UNIVERSITARI VALL D'HEBRON - INSTITUT DE RECERCA (HUVH IR), ES  
[85] 2013-01-28  
[86] 2011-07-28 (PCT/EP2011/063049)  
[87] (WO2012/013758)  
[30] EP (10007854.2) 2010-07-28

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[11] **2,806,845**  
[13] C

[51] **Int.Cl. A61C 5/62 (2017.01)**  
[25] EN  
[54] **MIXING TIP FOR DENTAL MATERIALS**  
[54] **EMBOUT MELANGEUR POUR PRODUITS DENTAIRES**  
[72] PIERSON, PAUL R., US  
[73] DENTSPLY INTERNATIONAL INC., US  
[85] 2013-01-28  
[86] 2010-09-30 (PCT/US2010/050839)  
[87] (WO2012/044298)  
[30] US (12/586,974) 2010-09-30

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[11] **2,807,308**  
[13] C

[51] **Int.Cl. A21C 9/08 (2006.01)**  
[25] EN  
[54] **DOUGH PRODUCT ALIGNING METHOD AND DEVICE**  
[54] **PROCEDE ET DISPOSITIF D'ALIGNEMENT DE PRODUIT DE PATE**  
[72] MORRIS, NIGEL JUSTIN, NL  
[72] VERMEULEN, JAN, NL  
[73] KAAK, JOHAN HENDRIK BERNARD, NL  
[85] 2013-02-01  
[86] 2012-01-27 (PCT/NL2012/050045)  
[87] (WO2012/102615)  
[30] NL (2006080) 2011-01-27

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[11] **2,807,621**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61P 13/12 (2006.01)**  
[25] EN  
[54] **PHOSPHATE BINDER FORMULATION FOR SIMPLE DOSING**  
[54] **FORMULATION CONTENANT DES AGENTS D'AGGLUTINATION DU PHOSPHATE PERMETTANT UNE MEILLEURE ADMINISTRATION**  
[72] STROTHMANN, KAI, DE  
[72] SCHULZE, FRIEDRICH, DE  
[72] BARTHOLOMAEUS, JOHANNES, DE  
[72] FRIES-SCHAFFNER, EVA, DE  
[72] OPPERMAN, ASTRID, DE  
[73] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE  
[85] 2013-02-06  
[86] 2011-10-11 (PCT/EP2011/005069)  
[87] (WO2012/048846)  
[30] EP (10013578.9) 2010-10-13

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[13] C

[51] **Int.Cl. H04W 24/00 (2009.01) H04B 7/0413 (2017.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING REFERENCE SIGNAL IN WIRELESS COMMUNICATION SYSTEM**  
[54] **PROCEDE ET APPAREIL DE TRANSMISSION ET DE RECEPTION D'UN SIGNAL DE REFERENCE DANS UN SYSTEME DE COMMUNICATION SANS FIL**  
[72] KIM, SUNG TAE, KR  
[72] KIM, YOUN SUN, KR  
[72] HAN, JIN-KYU, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2013-02-11  
[86] 2011-08-11 (PCT/KR2011/005906)  
[87] (WO2012/021008)  
[30] KR (10-2010-0078232) 2010-08-13

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[13] C

[51] **Int.Cl. A23B 7/14 (2006.01) B65B 55/00 (2006.01) A01N 35/02 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR INHIBITING POTATO PATHOGENS**

[54] **COMPOSITIONS ET PROCEDES POUR INHIBER LES PATHOGENES DE LA POMME DE TERRE**

[72] WHARTON, PHILLIP, US

[73] UNIVERSITY OF IDAHO, US

[85] 2013-02-11

[86] 2011-08-15 (PCT/US2011/047811)

[87] (WO2012/024244)

[30] US (61/373,829) 2010-08-14

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[11] \***2,808,239**  
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01)**

[25] EN

[54] **DETERMINING EQUIVALENT SUBSETS OF AGENTS TO GATHER INFORMATION FOR A FABRIC**

[54] **DETERMINATION DE SOUS-ENSEMBLES EQUIVALENTS D'AGENTS POUR COLLECTER DES INFORMATIONS POUR UNE MATRICE DE COMMUTATION**

[72] BHARADWAJ, SUNIL, US

[72] MERBACH, DAVID LYNN, US

[72] TUMINARO, WILLIAM, US

[72] WEBSTER, KEVIN JOSEPH, US

[72] BYRD, STEPHEN, US

[72] ZHOU, LI, US

[72] PADBIDRI, SUMANT, US

[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US

[85] 2013-02-13

[86] 2011-08-16 (PCT/EP2011/064113)

[87] (WO2012/022754)

[30] US (12/860,374) 2010-08-20

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[11] **2,808,642**  
[13] C

[51] **Int.Cl. G06F 13/38 (2006.01) H04W 84/18 (2009.01) G06F 17/24 (2006.01) H04L 29/02 (2006.01)**

[25] EN

[54] **OBJECT MEDIATED DATA TRANSFER BETWEEN ELECTRONIC DEVICES**

[54] **TRANSFERT DE DONNEES ENTRE DISPOSITIFS ELECTRONIQUES AU MOYEN D'UN OBJET**

[72] PASCHKE, BRIAN DENNIS, CA

[72] SZYMANSKI, AARON MICHAEL, CA

[73] BLACKBERRY LIMITED, CA

[86] (2808642)

[87] (2808642)

[22] 2013-03-08

[30] EP (12158655.6) 2012-03-08

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[11] **2,809,073**  
[13] C

[51] **Int.Cl. B81C 1/00 (2006.01)**

[25] EN

[54] **ANTI-STICTION METHOD IN AN INERTIAL MEMS, CORRESPONDING COMPUTER PROGRAM PRODUCT, STORAGE MEANS AND DEVICE**

[54] **PROCEDE ANTI-FROTTEMENT STATIQUE DANS UN MEMS INERTIEL, PROGICIEL INFORMATIQUE, MOYEN DE STOCKAGE ET DISPOSITIF APPARENTES**

[72] MOREAU, MAURICE, FR

[73] SERCEL, FR

[85] 2013-02-21

[86] 2011-10-06 (PCT/EP2011/067498)

[87] (WO2012/045835)

[30] EP (10186715.8) 2010-10-06

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[11] **2,809,510**  
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61B 5/153 (2006.01)**

[25] EN

[54] **NON-REUSABLE COLLECTION DEVICE FOR BODILY FLUIDS**

[54] **DISPOSITIF DE PRELEVEMENT NON REUTILISABLE DE LIQUIDES ORGANIQUES**

[72] SHAW, THOMAS J., US

[72] ZHU, NI, US

[72] SMALL, MARK, US

[73] RETRACTABLE TECHNOLOGIES, INC., US

[73] SHAW, THOMAS J., US

[85] 2013-01-22

[86] 2011-07-20 (PCT/US2011/044668)

[87] (WO2012/015644)

[30] US (12/846,402) 2010-07-29

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[11] **2,810,021**  
[13] C

[51] **Int.Cl. A61K 31/69 (2006.01) A61P 31/04 (2006.01) C07F 5/02 (2006.01)**

[25] EN

[54] **BORON-CONTAINING SMALL MOLECULES**

[54] **PETITES MOLECULES CONTENANT DU BORE**

[72] HERNANDEZ, VINCENT S., US

[72] DING, CHARLES, US

[72] PLATTNER, JACOB J., US

[72] ALLEY, MICHAEL RICHARD KEVIN, US

[72] ROCK, FERNANDO, US

[72] ZHANG, SUOMING, US

[72] EASOM, ERIC, US

[72] LI, XIANFENG, US

[72] ZHOU, DING, CN

[73] ANACOR PHARMACEUTICALS, INC., US

[85] 2013-02-28

[86] 2011-09-07 (PCT/US2011/050728)

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[30] US (61/380,596) 2010-09-07



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[11] **2,811,140**  
[13] C

- [51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/543 (2006.01)**  
[25] EN  
[54] **METHOD FOR MEASURING FIBROBLAST GROWTH FACTOR-23 AND REAGENT THEREFOR**  
[54] **PROCEDE DE DOSAGE DU FACTEUR DE CROISSANCE FIBROBLASTIQUE-23 ET REACTIF DE DOSAGE**  
[72] UZAWA, KOJI, JP  
[72] SUZUKI, EMIKO, JP  
[72] IKEDA, KAZUYUKI, JP  
[72] MORITA, KAZUKI, JP  
[73] KYOWA MEDEX CO., LTD., JP  
[85] 2013-02-22  
[86] 2011-08-31 (PCT/JP2011/069734)  
[87] (WO2012/029837)  
[30] JP (2010-193213) 2010-08-31

[11] **2,811,178**  
[13] C

- [51] **Int.Cl. A61H 39/04 (2006.01)**  
[25] EN  
[54] **FINGER-PRESSURE TOOL FOR FACE**  
[54] **OUTIL A PRESSION AU DOIGT POUR LE VISAGE**  
[72] TARUMI YOSHIKO, JP  
[73] SEILIN & CO., JP  
[85] 2013-03-12  
[86] 2010-11-29 (PCT/JP2010/071209)  
[87] (WO2012/056594)  
[30] JP (2010-238437) 2010-10-25

[11] **2,811,286**  
[13] C

- [51] **Int.Cl. F01D 21/04 (2006.01)**  
[25] FR  
[54] **GAS TURBINE ENGINE COMPRISING MEANS FOR AXIALLY RETAINING A FAN OF THE ENGINE**  
[54] **MOTEUR A TURBINE A GAZ COMPRENANT DES MOYENS DE RETENTION AXIALE D'UNE SOUFFLANTE DUDIT MOTEUR**  
[72] GEREZ, VALERIO, FR  
[72] BALK, WOUTER, FR  
[72] JADCZAK, EDOUARD JOSEPH, FR  
[73] SNECMA, FR  
[85] 2013-03-13  
[86] 2011-09-27 (PCT/FR2011/052242)  
[87] (WO2012/042161)  
[30] FR (1057814) 2010-09-28

[11] **2,811,291**  
[13] C

- [51] **Int.Cl. A61K 38/17 (2006.01) A61P 13/00 (2006.01) A61P 13/12 (2006.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **TREATMENT OF CHRONIC NEPHROPATHIES USING SOLUBLE COMPLEMENT RECEPTOR TYPE I (SCR1)**  
[54] **TRAITEMENT DE NEPHROPATHIES CHRONIQUES AU MOYEN DU RECEPTEUR DU COMPLEMENT SOLUBLE DE TYPE I (SCR1)**  
[72] SMITH, RICHARD J.H., US  
[72] ZHANG, YUZHOU, US  
[72] MARSH, HENRY C., US  
[73] CELLDEX THERAPEUTICS, INC., US  
[73] UNIVERSITY OF IOWA RESEARCH FOUNDATION, US  
[85] 2013-03-13  
[86] 2011-09-15 (PCT/US2011/051792)  
[87] (WO2012/037370)  
[30] US (61/383,004) 2010-09-15

[11] **2,811,327**  
[13] C

- [51] **Int.Cl. A61F 2/44 (2006.01) A61F 2/00 (2006.01) A61F 2/30 (2006.01) A61F 2/40 (2006.01) A61F 2/42 (2006.01) A61F 2/46 (2006.01)**  
[25] EN  
[54] **DEVICE FOR REPAIRING A HUMAN OR ANIMAL JOINT**  
[54] **DISPOSITIF DESTINE A REPARER UNE ARTICULATION HUMAINE OU ANIMALE**  
[72] MAYER, JORG, CH  
[72] AESCHLIMANN, MARCEL, CH  
[72] LEHMANN, MARIO, CH  
[72] WENGER, ANDREAS, CH  
[72] GOEBEL-MEHL, STEPHANIE, CH  
[73] SPINWELDING AG, CH  
[85] 2013-03-14  
[86] 2011-09-20 (PCT/CH2011/000221)  
[87] (WO2012/037698)  
[30] US (61/384,922) 2010-09-21

[11] **2,811,927**  
[13] C

- [51] **Int.Cl. B63B 35/44 (2006.01) B63B 9/06 (2006.01) B63B 21/50 (2006.01)**  
[25] EN  
[54] **ARTICULATED MULTIPLE BUOY MARINE PLATFORM APPARATUS AND METHOD OF INSTALLATION**  
[54] **APPAREIL DE PLATE-FORME MARINE ARTICULEE A FLOTTEURS MULTIPLES ET PROCEDE D'INSTALLATION**  
[72] KHACHATURIAN, JON E., US  
[73] VERSABAR, INC., US  
[85] 2013-03-20  
[86] 2011-09-22 (PCT/US2011/052745)  
[87] (WO2012/040451)  
[30] US (61/385,408) 2010-09-22

[11] **2,812,072**  
[13] C

- [51] **Int.Cl. F16B 31/02 (2006.01) F16B 41/00 (2006.01)**  
[25] EN  
[54] **SECURITY BOLT**  
[54] **BOULON DE SECURITE**  
[72] ANDRADE DE SOUZA, WOLNEY, BR  
[72] DE OLIVEIRA SOUZA, RICARDO, BR  
[72] DALCENT CRIVELARO, ALEXANDRINO, BR  
[73] ELC PRODUTOS DE SEGURANCA INDUSTRIA E COMERCIO LTDA., BR  
[85] 2013-03-12  
[86] 2011-09-22 (PCT/BR2011/000340)  
[87] (WO2012/040800)  
[30] BR (PI1003609-1) 2010-09-27

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[11] **2,812,225**  
[13] C

[51] **Int.Cl. B01D 61/58 (2006.01)**  
[25] EN  
[54] **MEMBRANE FILTRATION  
PROCESS WITH RETENTATE  
RECOVERY AND CARBON  
DIOXIDE INJECTION**

[54] **PROCEDE DE FILTRATION PAR  
MEMBRANE A RECUPERATION  
DE RETENTAT ET INJECTION DE  
DIOXYDE DE CARBONE**

[72] WANG, SIJING, CN  
[72] ZHU, YANRONG, CN  
[72] HE, GAORONG, CN  
[73] GENERAL ELECTRIC COMPANY,  
US  
[85] 2013-03-21  
[86] 2010-09-30 (PCT/CN2010/001534)  
[87] (WO2012/040880)

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[11] **2,812,784**  
[13] C

[51] **Int.Cl. B05B 1/18 (2006.01) E03C 1/02  
(2006.01)**

[25] EN  
[54] **SHOWERHEAD WITH MULTI-  
DIMENSIONAL FLUID  
DISPENSERS**

[54] **POMME DE DOUCHE  
COMPRENANT DES  
DISTRIBUTEURS DE FLUIDE  
MULTIDIMENSIONNELS**

[72] SPANGER, ANTHONY, US  
[72] PATTON, PAUL, US  
[72] MARTY, GARRY R., US  
[72] JOHNSON, BRIAN, US  
[73] DELTA FAUCET COMPANY, US  
[85] 2013-03-26  
[86] 2011-09-28 (PCT/US2011/053699)  
[87] (WO2012/050894)  
[30] US (61/387,399) 2010-09-28

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[13] C

[51] **Int.Cl. F03D 7/04 (2006.01) F03D 9/25  
(2016.01) F03D 7/02 (2006.01) H02H  
9/00 (2006.01) H02J 3/18 (2006.01)  
H02J 13/00 (2006.01)**

[25] EN  
[54] **WIND FARM AND METHOD FOR  
OPERATING A WIND FARM**

[54] **PARC EOLIEN ET PROCEDE  
D'EXPLOITATION D'UN PARC  
EOLIEN**

[72] BLUHM, ROMAN, DE  
[72] FORTMANN, JENS, DE  
[73] SENVION SE, DE  
[85] 2013-03-21  
[86] 2011-12-23 (PCT/EP2011/074028)  
[87] (WO2012/089699)  
[30] DE (10 2010 056 457.5) 2010-12-29

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[13] C

[51] **Int.Cl. H04N 21/436 (2011.01) H04N  
21/254 (2011.01) H04N 21/4627  
(2011.01) G06F 21/10 (2013.01)**

[25] EN  
[54] **APPARATUS AND METHODS FOR  
ENFORCING CONTENT  
PROTECTION RULES DURING  
DATA TRANSFER BETWEEN  
DEVICES**

[54] **APPAREIL ET PROCEDES DE  
MISE EN VIGUEUR DE REGLES  
DE PROTECTION DE CONTENU  
DURANT UN TRANSFERT DE  
DONNEES ENTRE DES  
DISPOSITIFS**

[72] CHOLAS, CHRIS, US  
[73] TIME WARNER CABLE  
ENTERPRISES LLC, US  
[85] 2013-04-04  
[86] 2011-10-04 (PCT/US2011/054797)  
[87] (WO2012/047912)  
[30] US (12/901,417) 2010-10-08

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[13] C

[51] **Int.Cl. A61M 5/142 (2006.01) A61M  
5/14 (2006.01) F04B 43/12 (2006.01)  
F04B 43/14 (2006.01) A61M 5/168  
(2006.01) A61M 39/24 (2006.01)  
A61M 39/26 (2006.01)**

[25] EN  
[54] **PUMP MODULE, BASE PUMP  
MODULE AND PUMP SYSTEM**

[54] **MODULE DE POMPE, MODULE  
DE BASE DE POMPE ET  
SYSTEME DE POMPE**

[72] BECKER, MICHAEL, DE  
[73] FRESENIUS KABI DEUTSCHLAND  
GMBH, DE  
[85] 2013-04-11  
[86] 2011-10-13 (PCT/EP2011/067917)  
[87] (WO2012/049263)  
[30] US (61/392,494) 2010-10-13  
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[30] US (61/392,492) 2010-10-13  
[30] EP (10187378.4) 2010-10-13  
[30] US (61/392,490) 2010-10-13  
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[30] US (61/392,495) 2010-10-13  
[30] EP (10187381.8) 2010-10-13

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[51] **Int.Cl. G06F 15/16 (2006.01)**

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[54] **UNIFIED POLICY OVER  
HETEROGENOUS DEVICE TYPES**

[54] **REGLE UNIFIEE SUR DES TYPES  
DE DISPOSITIFS HETEROGENES**

[72] NUKALA, CHANDRASEKHAR, US  
[72] CALLAGHAN, DAVID MICHAEL,  
US  
[73] MICROSOFT TECHNOLOGY  
LICENSING, LLC, US  
[85] 2013-04-16  
[86] 2011-10-24 (PCT/US2011/057520)  
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[30] US (12/916,301) 2010-10-29

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[25] EN

[54] **METHOD AND APPARATUS FOR SPINAL FACET FUSION**

[54] **METHODE ET APPAREIL POUR LA FUSION DE FACETTES VERTEBRALES**

[72] VESTGAARDEN, TOV INGE, US

[73] VG INNOVATIONS, LLC, US

[85] 2013-04-19

[86] 2011-10-19 (PCT/US2011/056878)

[87] (WO2012/054596)

[30] US (61/394,419) 2010-10-19

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[51] **Int.Cl. C08L 101/00 (2006.01) C08G 81/00 (2006.01) C08J 5/24 (2006.01) C08K 7/06 (2006.01) C08L 63/00 (2006.01) C08L 71/10 (2006.01)**

[25] EN

[54] **RESIN COMPOSITION, COMPOSITE CURED PRODUCT USING THE SAME, AND METHOD FOR PRODUCING THE COMPOSITE CURED PRODUCT**

[54] **PRODUIT DURCI COMPOSITE L'UTILISANT ET PROCEDE DE FABRICATION DU PRODUIT DURCI COMPOSITE**

[72] SANO, KENTARO, JP

[72] MITSUTSUJI, YUKI, JP

[72] HONMA, MASATO, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2013-04-24

[86] 2011-12-07 (PCT/JP2011/078247)

[87] (WO2012/081455)

[30] JP (2010-276775) 2010-12-13

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[51] **Int.Cl. C08F 220/38 (2006.01) C08F 8/24 (2006.01) C08F 8/34 (2006.01) C08F 216/14 (2006.01)**

[25] EN

[54] **POLYMER AND METHODS FOR PREPARING AND USING THE SAME**

[54] **POLYMER ET PROCEDES POUR SA PREPARATION ET SON UTILISATION**

[72] PENG, WENQING, US

[72] LIANG, YANGANG, US

[72] LIU, SHENGXIA, US

[72] LEWIS, LARRY NEIL, US

[72] PERRY, ROBERT JAMES, US

[72] VASCONCELLOS, STEPHEN ROBERT, US

[72] LU, SU, US

[72] ZHANG, GUIXI, US

[73] GENERAL ELECTRIC COMPANY, US

[85] 2013-06-03

[86] 2011-12-02 (PCT/US2011/063023)

[87] (WO2012/082400)

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[25] FR

[54] **DEVICE AND ASSEMBLY FOR SUPPORTING A PAIR OF WINDSHIELD WIPERS, AND CORRESPONDING PACKAGING AND ASSEMBLY METHOD**

[54] **DISPOSITIF ET ENSEMBLE DE MAINTIEN D'UNE PAIRE DE BALAIS D'ESSUIE-GLACES, EMBALLAGE ET PROCEDE DE MONTAGE CORRESPONDANTS**

[72] JEHANNET, JEAN-PIERRE, FR

[72] VERET, JOCELYN, FR

[73] VALEO SYSTEMES D'ESSUYAGE, FR

[85] 2013-06-07

[86] 2011-09-26 (PCT/EP2011/066685)

[87] (WO2012/095194)

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[25] EN

[54] **PREPARATION OF AMINOMETHYL FURAN AND ALKOXYMETHYL FURAN DERIVATIVES FROM CARBOHYDRATES**

[54] **PREPARATION D'AMINOMETHYLFURANES ET DE DERIVES D'ALCOXYMETHYLFURANES A PARTIR DE GLUCIDES**

[72] HOWARD, STEPHEN J., US

[72] SANBORN, ALEXANDRA J., US

[73] ARCHER DANIELS MIDLAND COMPANY, US

[85] 2013-06-07

[86] 2011-12-13 (PCT/US2011/064513)

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[25] EN

[54] **SETTABLE COMPOSITIONS COMPRISING UNEXPANDED PERLITE AND METHODS OF CEMENTING IN SUBTERRANEAN FORMATIONS**

[54] **COMPOSITIONS DURCISSABLES COMPRENANT DE LA PERLITE NON EXPANSEE ET PROCEDES DE CIMENTATION DANS DES FORMATIONS SOUTERRAINES**

[72] BRENNEIS, CHAD D., US

[72] KARCHER, JEFFREY D., US

[72] RODDY, CRAIG WAYNE, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2013-06-13

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[25] EN  
[54] **SMALL MOLECULE CONJUGATES FOR INTRACELLULAR DELIVERY OF NUCLEIC ACIDS**  
[54] **CONJUGUES DE PETITES MOLECULES POUR L'ADMINISTRATION INTRACELLULAIRE D'ACIDES NUCLEIQUES**  
[72] HADWIGER, PHILIPP, DE  
[72] HOFFMANN, TORSTEN, DE  
[72] JAHN-HOFMANN, KERSTIN, DE  
[72] KITAS, ERIC A., DE  
[72] LEWIS, DAVID L., US  
[72] MOHR, PETER, CH  
[72] MUELLER, HANS MARTIN, DE  
[72] OTT, GUENTHER, DE  
[72] ROEHL, INGO, DE  
[72] ROZEMA, DAVID B., US  
[73] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2013-06-18  
[86] 2011-08-04 (PCT/EP2011/063436)  
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[54] **DEVICE FOR AT LEAST ONE OF INJECTION OR ASPIRATION**  
[54] **DISPOSITIF DESTINE A UNE INJECTION ET/OU UNE ASPIRATION**  
[72] WHEATLEY, BARRY LYNN, US  
[72] MCDONELL, BRIAN WILLIAM, US  
[73] ALCON RESEARCH, LTD., US  
[85] 2013-07-04  
[86] 2011-12-01 (PCT/US2011/062780)  
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[54] **METHODS, SYSTEMS, AND APPARATUSES FOR SENSING AND MEASURING THE ELECTRIC FIELD WITHIN THE EARTH**  
[54] **PROCEDES, SYSTEMES ET APPAREILS DESTINES A DETECTER ET A MESURER LE CHAMP ELECTRIQUE DANS LA TERRE**  
[72] HIBBS, ANDREW DENNIS, US  
[73] GROUNDMETRICS, INC., US  
[85] 2013-07-12  
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[54] **LINER SYSTEMS**  
[54] **SYSTEMES DE CHEMISAGE**  
[72] DUNN, DONALD C., US  
[72] HOFBERGER, JERRY F., US  
[73] CORROSION ENGINEERING, INC., US  
[85] 2013-07-16  
[86] 2011-01-21 (PCT/US2011/022134)  
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[54] **DENTAL LASER SYSTEM AND TREATMENT METHOD**  
[54] **SYSTEME LASER DENTAIRE ET PROCEDE DE TRAITEMENT**  
[72] MONTY, NATHAN P., US  
[73] CONVERGENT DENTAL, INC., US  
[85] 2013-07-31  
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[25] EN  
[54] **FUME EXTRACTOR FOR WELDING APPLICATIONS**  
[54] **EXTRACTEUR DE FUMEE POUR APPLICATIONS AU SOUDAGE**  
[72] MEHN, PETER DONALD, US  
[72] HILBERT, ALLAN THOMAS, US  
[73] ILLINOIS TOOL WORKS INC., US  
[85] 2013-07-30  
[86] 2012-01-25 (PCT/US2012/022599)  
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[30] US (61/438,577) 2011-02-01  
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[25] EN  
[54] **DEVICE FOR SHAPING A FLAT BLANK INTO A CONTAINER**  
[54] **DISPOSITIF SERVANT A FACONNER UNE DECOUPE PLATE POUR OBTENIR UN RECIPIENT**  
[72] FRANK, ALEXANDER, CH  
[73] ROBERT BOSCH GMBH, DE  
[85] 2013-08-01  
[86] 2012-01-31 (PCT/EP2012/051501)  
[87] (WO2012/107317)  
[30] DE (102011004004.8) 2011-02-11

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[54] **PROGRAMMABLE CONTROLLERS AND SCHEDULE TIMERS**  
[54] **CONTROLEURS PROGRAMMABLES ET HORLOGES DE CALENDRIER**  
[72] RODDY, IVOR, IE  
[73] CLIMOTE LIMITED, IE  
[85] 2013-08-28  
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[25] EN  
[54] **STABLE COMPOSITIONS OF TETRAHYDROBIOPTERIN**  
[54] **COMPOSITIONS STABLES DE TETRAHYDROBIOPTERINE**  
[72] RUSTOMJEE, MAHARUKH TEHMASP, IN  
[72] GANDHI, ANILKUMAR SURENDRAKUMAR, IN  
[73] DIPHARMA S.A., CH  
[85] 2013-08-29  
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[87] (WO2012/117362)  
[30] IN (573/MUM/2011) 2011-03-01

[11] **2,829,273**

[13] C

- [51] **Int.Cl. B64F 1/30 (2006.01) B64F 1/315 (2006.01)**  
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[54] **ACCESS UNIT**  
[54] **UNITE D'ACCES**  
[72] CORFIELD, GRAHAM, GB  
[73] CORFIELD, GRAHAM, GB  
[85] 2013-09-06  
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[87] (WO2011/114147)  
[30] GB (1004284.4) 2010-03-16  
[30] GB (1014314.7) 2010-08-27

[11] **2,830,313**

[13] C

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[25] EN  
[54] **ANCHOR BOLT AND PRODUCTION METHOD**  
[54] **BOULON D'ANCRAGE ET PROCEDE DE FABRICATION**  
[72] SHIMAHARA, HIDEKI, CH  
[72] WINKLER, MARK, AT  
[72] WISSLING, MATTHIAS, CH  
[73] HILTI AKTIENGESELLSCHAFT, LI  
[85] 2013-09-16  
[86] 2012-02-28 (PCT/EP2012/053320)  
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[30] DE (10 2011 005 999.7) 2011-03-23  
[30] DE (10 2011 076 180.2) 2011-05-20

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[25] EN  
[54] **DEVELOPMENT OF A CONTRAST PHANTOM FOR ACTIVE MILLIMETER WAVE IMAGING SYSTEMS**  
[54] **DEVELOPPEMENT D'UN FANTOME DE CONTRASTE POUR SYSTEMES D'IMAGERIE ACTIFS A ONDES MILLIMETRIQUES**  
[72] BARBER, JEFFREY B., US  
[72] WEATHERALL, JAMES C., US  
[73] BATTELLE MEMORIAL INSTITUTE, US  
[85] 2013-09-16  
[86] 2012-03-29 (PCT/US2012/031178)  
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[30] US (61/468,779) 2011-03-29

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- [51] **Int.Cl. F16J 15/10 (2006.01) F16J 15/06 (2006.01) H01M 8/18 (2006.01)**  
[25] EN  
[54] **SEALING MATERIAL FOR THIN PLATE MEMBER**  
[54] **MATERIAU D'ETANCHEITE POUR ELEMENTS DE PLAQUES MINCES**  
[72] UEDA, AKIRA, JP  
[72] TAKAHASHI, KENICHI, JP  
[72] FUJII, ATSUSHI, JP  
[72] KAWAMURA, TETSUYA, JP  
[73] NIPPON VALQUA INDUSTRIES, LTD., JP  
[85] 2013-09-27  
[86] 2012-03-30 (PCT/JP2012/058522)  
[87] (WO2012/133738)  
[30] JP (2011-078007) 2011-03-31  
[30] JP (2012-057048) 2012-03-14

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[13] C

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[25] EN  
[54] **ENDOVASCULAR PROSTHESIS AND DELIVERY DEVICE**  
[54] **PROTHESE ENDOVASCULAIRE ET DISPOSITIF DE POSE**  
[72] BORSKY, CASSIE A., CA  
[72] FUNG, ERIC SOUN-SANG, CA  
[72] TIPPETT, JONATHAN G., CA  
[73] EVASC NEUROVASCULAR ENTERPRISES ULC, CA  
[85] 2013-10-29  
[86] 2012-04-27 (PCT/CA2012/000388)  
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[30] US (61/457,604) 2011-04-29  
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[11] **2,835,460**

[13] C

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[25] EN  
[54] **SYSTEM AND METHOD FOR ENABLING CONTINUOUS OR INSTANTANEOUS IDENTITY RECOGNITION BASED ON PHYSIOLOGICAL BIOMETRIC SIGNALS**  
[54] **SYSTEME ET PROCEDE PERMETTANT UNE RECONNAISSANCE D'IDENTITE EN CONTINU OU INSTANTANEE BASEE SUR DES SIGNAUX BIOMETRIQUES PHYSIOLOGIQUES**  
[72] AGRAFIOTI, FOTEINI, CA  
[72] BUI, FRANCIS MINHTHANG, CA  
[72] HATZINAKOS, DIMITRIOS, CA  
[73] NYMI INC., CA  
[85] 2013-11-08  
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[25] EN

[54] **COMPOSITIONS AND METHODS FOR ANTIMICROBIAL METAL NANOPARTICLES**

[54] **COMPOSITIONS ET PROCEDES POUR NANOPARTICULES METALLIQUES ANTIMICROBIENNES**

[72] UHLMANN, DONALD R., US

[72] AGRAWAL, ANOOP, US

[72] AKARSU, MURAT, TR

[72] CRONIN, JOHN P., US

[72] LOPEZ-TONAZZI, JUAN CARLOS, US

[72] REESER, RYAN J., US

[73] AGIENIC, INC., US

[85] 2013-11-08

[86] 2012-05-24 (PCT/US2012/039462)

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[30] US (61/519,523) 2011-05-24

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[54] **OPTICAL COHERENCE TOMOGRAPHY AND PRESSURE BASED SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES A BASE DE TOMOGRAPHIE PAR COHERENCE OPTIQUE ET DE PRESSION**

[72] PETROFF, CHRISTOPHER, US

[72] SCHMITT, JOSEPH, US

[73] LIGHTLAB IMAGING, INC., US

[85] 2013-11-27

[86] 2012-05-14 (PCT/US2012/037717)

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[30] US (61/490,925) 2011-05-27

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[13] C

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[25] EN

[54] **METHOD AND APPARATUS FOR LONG-TERM ASSISTING A LEFT VENTRICLE TO PUMP BLOOD**

[54] **METHODE ET APPAREIL D'ASSISTANCE A LONG TERME D'UN VENTRICULE GAUCHE DANS LE POMPAGE DE SANG**

[72] DELGADO, REYNOLDS M., III, US

[73] PROCYRION, INC., US

[86] (2838073)

[87] (2838073)

[22] 2005-08-12

[62] 2,577,051

[30] US (60/601,733) 2004-08-13

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[13] C

[51] **Int.Cl. B26D 7/08 (2006.01) B01F 11/02 (2006.01) B26D 1/00 (2006.01)**

[25] EN

[54] **CUTTER FOR DIVIDING A PROCESSED PRODUCT USING ULTRASOUND ENERGY AND DEVICE**

[54] **COUTEAU POUR DIVISER UN PRODUIT A TRAITER EN UTILISANT DE L'ENERGIE ULTRASONIQUE AINSI QUE DISPOSITIF**

[72] CARRASCO, CESAR, CH

[73] A O SCHALLINOX GMBH, CH

[85] 2013-12-12

[86] 2012-07-25 (PCT/EP2012/064616)

[87] (WO2013/014199)

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[25] EN

[54] **IDENTIFICATION OF MYCOPLASM CONTAMINATION IN BIOTECHNOLOGY PRODUCTION USING RAMAN SPECTROSCOPY**

[54] **IDENTIFICATION PAR SPECTROSCOPIE RAMAN D'UNE CONTAMINATION PAR UN MYCOPLASME DANS LE CADRE D'UN PROCESSUS DE PRODUCTION BIOTECHNOLOGIQUE**

[72] BARTKO, ANDREW P., US

[73] BATTELLE MEMORIAL INSTITUTE, US

[85] 2013-12-16

[86] 2012-08-29 (PCT/US2012/052777)

[87] (WO2013/033148)

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[13] C

[51] **Int.Cl. G03B 15/02 (2006.01) G06F 3/048 (2013.01) H04N 5/232 (2006.01)**

[25] EN

[54] **IMAGING APPARATUS AND CONTROLLER FOR PHOTOGRAPHING PRODUCTS**

[54] **APPAREIL DE FORMATION D'IMAGE ET CONTROLEUR POUR PRODUITS DE PRISE DE VUE**

[72] JORGENSEN, ANDERS PATRICK, NL

[72] BLAAS, JORIK, NL

[72] FUNK, MATHIAS, NL

[73] VISUAL RETAILING HOLDING B.V., NL

[85] 2013-12-23

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[54] **PROCEDE ET APPAREIL DE COMMANDE DE SYSTEME ELECTRIQUE HYBRIDE**  
[72] DENNIS, KEVIN, US  
[72] RAASCH, MICHAEL, US  
[72] VANG, DER, US  
[73] ENSYNC, INC., US  
[85] 2013-12-30  
[86] 2012-07-17 (PCT/US2012/046996)  
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[13] C

[51] **Int.Cl. E03C 1/02 (2006.01) A47K 3/28 (2006.01) F16K 21/04 (2006.01) F16K 31/44 (2006.01)**  
[25] EN  
[54] **MANUALLY OPERATED VALVE FOR A SHOWER INSTALLATION SYSTEM**  
[54] **VANNE A COMMANDE MANUELLE POUR UN SYSTEME D'INSTALLATION DE DOUCHE**  
[72] PELLETIER, MICHEL, CA  
[73] PELLETIER, MICHEL, CA  
[85] 2014-01-29  
[86] 2012-07-31 (PCT/CA2012/000722)  
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[54] **DETONATOR ASSEMBLY**  
[54] **ENSEMBLE DETONATEUR**  
[72] KOEKEMOER, ANDRE, ZA  
[72] SCHLENTER, CRAIG CHARLES, ZA  
[72] LABUSCHAGNE, ALBERTUS A., ZA  
[72] BIRKIN, CHRISTOPHER MALCOLM, ZA  
[72] VAN DER WALT, HERMAN, ZA  
[73] DETNET SOUTH AFRICA (PTY) LTD., ZA  
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[30] ZA (2011/06962) 2011-09-23

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[25] EN  
[54] **USE OF LUTEOLIN AND DERIVATIVES THEREOF IN THE PREVENTION AND TREATMENT OF HEART FAILURE**  
[54] **UTILISATION DE LUTEOLINE ET DE SES DERIVES POUR LA PREVENTION ET LE TRAITEMENT DE DEFAILLANCE CARDIAQUE**  
[72] MORITA, HIROYUKI, JP  
[72] NAGAI, RYOZO, JP  
[72] NAKAYAMA, ATSUKO, JP  
[72] HASHIMOTO, TADASHI, JP  
[73] THE UNIVERSITY OF TOKYO, JP  
[73] THERAVALUES CORPORATION, JP  
[85] 2014-01-14  
[86] 2012-07-19 (PCT/JP2012/068382)  
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[30] JP (2011-158920) 2011-07-20  
[30] JP (2011-193508) 2011-09-06  
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[51] **Int.Cl. B04C 5/185 (2006.01) B01D 50/00 (2006.01) B01J 37/00 (2006.01) B04C 9/00 (2006.01) F01N 3/10 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR CONVERTER BED UNLOADING AND LOADING**  
[54] **SYSTEMES ET PROCEDES POUR DECHARGEMENT ET CHARGEMENT DE LIT DE CONVERTISSEUR**  
[72] WILKINSON, KELLY O., US  
[72] NORVILLE, RICHARD SCOTT, US  
[73] CYCLONE CATALYST PROPERTIES, LLC, US  
[85] 2014-02-06  
[86] 2012-08-10 (PCT/US2012/050384)  
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[25] EN  
[54] **DETONATOR DEVICE COMMUNICATION**  
[54] **COMMUNICATION D'UN DISPOSITIF DETONATEUR**  
[72] KOEKEMOER, ANDRE, ZA  
[72] SCHLENTER, CRAIG CHARLES, ZA  
[72] MAURISSENS, DANIEL AUGUST JULIEN LOUIS, ZA  
[73] DETNET SOUTH AFRICA (PTY) LTD., ZA  
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[25] EN  
[54] **STRUCTURAL COMPONENT FOR ARMoured VEHICLES**  
[54] **COMPOSANT STRUCTUREL POUR VEHICULES BLINDES**  
[72] ALTER, ROLF-MATHIAS, LU  
[72] WALTER, JURGEN, DE  
[73] EC TECHNIK GMBH, DE  
[85] 2014-02-19  
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[25] EN  
[54] **HUMIDITY AND TEMPERATURE CORRECTIONS TO IMPROVE ACCURACY OF HF AMBIENT AIR MONITORS BASED ON TUNABLE DIODE LASER IR ABSORPTION MEASUREMENTS**  
[54] **CORRECTIONS D'HUMIDITE ET DE TEMPERATURE POUR AMELIORER LA PRECISION DE DISPOSITIFS DE SURVEILLANCE D'AIR AMBIANT D'HF SUR LA BASE DE MESURES D'ABSORPTION INFRAROUGE (IR) PAR LASER A DIODE ACCORDABLE**  
[72] ALVAREZ, MANUEL S., US  
[72] SPRY, DAVID B., US  
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US  
[85] 2014-02-19  
[86] 2012-08-31 (PCT/US2012/053278)  
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[25] EN  
[54] **ACOUSTIC PROBING TECHNIQUE FOR THE DETERMINATION OF MULTIPLE LIQUID/FROTH INTERFACES IN SEPARATION AND STORAGE VESSELS BASED ON AN OBLIQUE TOMOGRAPHIC ANALYSIS APPROACH**  
[54] **TECHNIQUE DE SONDAGE ACOUSTIQUE PERMETTANT DE DETERMINER PLUSIEURS INTERFACES LIQUIDE/MOUSSE DANS DES CUVES DE SEPARATION ET DE STOCKAGE SUR LA BASE D'UNE APPROCHE FONDEE SUR UNEANALYSE TOMOGRAPHIQUE OBLIQUE**  
[72] KERSEY, ALAN D., US  
[72] VIEGA, JOHN, US  
[73] CIDRA CORPORATE SERVICES INC., US  
[85] 2014-02-24  
[86] 2012-08-23 (PCT/US2012/052074)  
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[25] EN  
[54] **METHOD FOR CONTROLLING THE AUTHORIZATION OF A PERSON TO ACCESS A SECURE AREA**  
[54] **METHODE DE CONTROLE D'AUTORISATION D'UNE PERSONNE POUR ACCEDER A UNE ZONE SECURISEE**  
[72] KAMMER, OLAF, DE  
[72] TRUNK, LOTHAR, DE  
[72] WAFFENSCHMIDT, JORG, DE  
[73] DIEHL AEROSPACE GMBH, DE  
[86] (2847308)  
[87] (2847308)  
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[51] **Int.Cl. C23C 22/72 (2006.01) C23C 2/26 (2006.01)**  
[25] EN  
[54] **METHOD FOR COATING A STEEL SHEET WITH A METAL LAYER**  
[54] **PROCEDE DE REVETEMENT D'UNE FEUILLE D'ACIER PAR UNE COUCHE DE METAL**  
[72] OBERHOFFER, HELMUT, DE  
[72] LIEBSCHER, BENJAMIN, DE  
[72] SZESNI, ANIKA, DE  
[72] SAUER, REINER, DE  
[72] FRIEDRICH, KARL-ERNST, DE  
[73] THYSSENKRUPP RASSELSTEIN GMBH, DE  
[86] (2848145)  
[87] (2848145)  
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[25] EN  
[54] **SYSTEM AND METHOD FOR STORING AND MONITORING EVENTS AT SECURITY DEVICES**  
[54] **SYSTEME ET METHODE DE STOCKAGE ET DE SURVEILLANCE D'EVENEMENTS SUR DES DISPOSITIFS DE SECURITE**  
[72] JIANG, ZHONGYA, US  
[72] SMITH, RICHARD ALAN, US  
[72] PIEL, KEVIN G., US  
[72] ADDY, KENNETH L., US  
[72] ZHAO, THIANFENG, US  
[73] HONEYWELL INTERNATIONAL INC., US  
[86] (2848554)  
[87] (2848554)  
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[25] EN  
[54] **COLLISION REDUCTION MECHANISMS FOR WIRELESS COMMUNICATION NETWORKS**  
[54] **MECANISMES DE REDUCTION DES COLLISIONS POUR DES RESEAUX DE COMMUNICATION SANS FIL**  
[72] MERLIN, SIMONE, US  
[72] TAGHAVI NASRABADI, MOHAMMAD HOSSEIN, US  
[72] WENTINK, MAARTEN MENZO, US  
[73] QUALCOMM INCORPORATED, US  
[85] 2014-03-20  
[86] 2012-10-01 (PCT/US2012/058325)  
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[30] US (61/540,681) 2011-09-29  
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[13] C

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[25] EN  
[54] **IMPROVED FEMORAL IMPLANT REVISION TOOL**  
[54] **OUTIL DE REVISION D'IMPLANT FEMORAL AMELIORE**  
[72] YOUNG, MICHAEL JOHN RADLEY, GB  
[73] ORTHOFIX S.R.L., IT  
[85] 2014-03-21  
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[25] EN  
[54] **METHODS OF STRUCTURING DATA, PRE-COMPILED EXCEPTION LIST ENGINES, AND NETWORK APPLIANCES**  
[54] **PROCEDES DE STRUCTURATION DE DONNEES, MOTEURS DE LISTES D'EXCEPTIONS PRECOMPILES ET EQUIPEMENTS DE RESEAU**  
[72] MAESTAS, DAVID E., US  
[73] TECHGUARD SECURITY, LLC, US  
[86] (2850981)  
[87] (2850981)  
[22] 2010-04-19  
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[25] EN  
[54] **METHODS FOR USING ARTIFICIAL POLYNUCLEOTIDES AND COMPOSITIONS THEREOF TO REDUCE TRANSGENE SILENCING**  
[54] **PROCEDES PERMETTANT D'UTILISER DES POLYNUCLEOTIDES ARTIFICIELS ET COMPOSITIONS DESDITS POLYNUCLEOTIDES AFIN DE REDUIRE LE SILENCAGE TRANSGENIQUE**  
[72] FLASINSKI, STANISLAW, US  
[73] MONSANTO TECHNOLOGY LLC, US  
[86] (2851035)  
[87] (2851035)  
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[25] EN  
[54] **SYNCHRONIZATION OF NODES IN A NETWORK**  
[54] **SYNCHRONISATION DE NŒUDS DANS UN RESEAU**  
[72] MAINAUD, BASTIEN, US  
[72] BARTIER, JEROME, US  
[72] MONIER, FABRICE, US  
[72] NGUYEN, VIET-HUNG, US  
[73] ITRON GLOBAL SARL, US  
[85] 2014-04-08  
[86] 2012-01-30 (PCT/US2012/023098)  
[87] (WO2013/066377)  
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[13] C

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[25] EN  
[54] **ABLATION CANNULA AND KIT WITH INSERT**  
[54] **CANULE D'ABLATION ET NECESSAIRE AVEC PIECE RAPPORTEE**  
[72] GREENBERG, STEVEN M., US  
[72] KATZMAN, SCOTT S., US  
[72] CARRON, CHRIS J., US  
[73] ARDENT MEDICAL CORPORATION, US  
[86] (2852759)  
[87] (2852759)  
[22] 2014-05-27  
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[25] EN  
[54] **METHODS AND APPARATUS FOR REVECTORING GAME DISPLAYS**  
[54] **PROCEDES ET APPAREIL POUR REVECTORISER DES AFFICHAGES DE JEUX**  
[72] HILL, RODNEY E., US  
[73] SCIENTIFIC GAMES HOLDINGS LIMITED, IE  
[85] 2014-04-23  
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[25] EN

[54] **MANAGEMENT OF DYNAMIC EMAIL CONTENT**

[54] **GESTION D'UN CONTENU DE COURRIER ELECTRONIQUE DYNAMIQUE**

[72] SHARMA, VIVEK, US

[72] NUTT, MICHAEL, US

[73] MOVABLE, INK., US

[85] 2014-05-01

[86] 2012-11-09 (PCT/US2012/064498)

[87] (WO2013/071144)

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[51] **Int.Cl. H04W 74/08 (2009.01) H04W 28/02 (2009.01) H04W 84/18 (2009.01)**

[25] EN

[54] **TRAFFIC LOAD MANAGEMENT FOR UPLINK NETWORK TRAFFIC**

[54] **GESTION DE CHARGE DE TRAFIC POUR TRAFIC DE RESEAU DE LIAISON MONTANTE**

[72] NGUYEN, VIET-HUNG, US

[72] VAN WYK, HARTMAN, US

[73] ITRON GLOBAL SARL, US

[85] 2014-05-09

[86] 2012-01-30 (PCT/US2012/023093)

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[30] EP (11188907.7) 2011-11-11

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[25] EN

[54] **DOPED LITHIUM TITANIUM SPINEL COMPOUND AND ELECTRODE COMPRISING SAME**

[54] **COMPOSE DE SPINELLE DE LITHIUM-TITANE DOPE ET ELECTRODE COMPRENANT CELUI-CI**

[72] LAUMANN, ANDREAS, DE

[72] HOLZAPFEL, MICHAEL, DE

[72] WENDRICH, GENOVEFA, DE

[73] JOHNSON MATTHEY PLC., GB

[85] 2014-05-13

[86] 2012-11-15 (PCT/EP2012/004755)

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[25] EN

[54] **A METHOD OF DE-ICING A WIND TURBINE BLADE**

[54] **PROCEDE DE DEGIVRAGE D'UNE PALE DE TURBINE EOLIENNEE**

[72] DE BOER, WOLFGANG, DE

[72] EDEN, GEORG, DE

[72] BEEKMANN, ALFRED, DE

[72] LENSCHOW, GERHARD, DE

[73] WOBLEN PROPERTIES GMBH, DE

[86] (2856899)

[87] (2856899)

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[30] DE (10 2010 015 595.0) 2010-04-19

[30] DE (10 2011 007 085.0) 2011-04-08

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[13] C

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/12 (2006.01) B32B 27/28 (2006.01) B32B 27/32 (2006.01) B32B 27/34 (2006.01) A63H 27/10 (2006.01) B64B 1/58 (2006.01)**

[25] EN

[54] **METAL LAYER-FREE MULTI-LAYER FILM WITH LOW SURFACE WEIGHT**

[54] **PELLICULE MULTICOUCHE EXEMPTTE DE COUCHE METALLIQUE AYANT UNE FAIBLE MASSE SURFACIQUE**

[72] FISCHER, CHRISTIAN ERICH, DE

[72] BORM, ACHIM, DE

[72] BLUM, THOMAS, DE

[73] MARIA SOELL HIGH TECHNOLOGY FILMS GMBH, DE

[85] 2014-05-27

[86] 2012-12-04 (PCT/EP2012/004990)

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[30] DE (10 2011 120 604.7) 2011-12-09

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[25] EN

[54] **PRODUCT STABILIZER**

[54] **STABILISATEUR DE PRODUIT**

[72] CHURCHILL, MATTHEW HENRY, US

[72] ERICSON, JEREMIAH JOE, US

[73] DELKOR SYSTEMS, INC., US

[86] (2857465)

[87] (2857465)

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[25] EN  
[54] **MULTIVARIATE MANAGEMENT OF ENTRAINED AIR AND RHEOLOGY IN CEMENTITIOUS MIXES**  
[54] **GESTION A VARIABLES MULTIPLES D'AIR ENTRAINE ET RHEOLOGIE DANS DES MELANGES CIMENTAIRE**  
[72] KOEHLER, ERIC, US  
[72] ROBERTS, MARK F., US  
[73] VERIFI LLC, US  
[85] 2014-06-06  
[86] 2011-12-12 (PCT/US2011/064333)  
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[13] C

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[25] EN  
[54] **ASSEMBLED AXLE BRAKE DISC DISQUE DE FREIN D'ESSIEU ASSEMBLE**  
[72] WURTH, SEBASTIAN, DE  
[72] MEHLAN, ANDREAS, DE  
[73] FAIVELEY TRANSPORT WITTEN GMBH, DE  
[85] 2014-06-11  
[86] 2012-11-13 (PCT/EP2012/072472)  
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[30] DE (20 2011 052 265.2) 2011-12-12

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[13] C

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[25] EN  
[54] **SITE SPECIFIC DEEP BRAIN STIMULATION FOR ENHANCEMENT OF MEMORY**  
[54] **STIMULATION CEREBRALE PROFONDE DE ZONES SPECIFIQUES POUR AMELIORER LA MEMOIRE**  
[72] FRIED, ITZHAK, US  
[72] SUTHANA, NANTHIA, US  
[72] KNOWLTON, BARBARA, US  
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US  
[85] 2014-06-17  
[86] 2011-12-16 (PCT/US2011/065648)  
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[30] US (61/424,197) 2010-12-17  
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[13] C

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[54] **MULTIFUNCTION BUTTON BOUTON MULTIFONCTION**  
[72] PEDERSEN, NICHOLAS, US  
[72] KLEGIN, JILL MARIE, US  
[72] BRIDGES, KEVIN J., US  
[73] HALLMARK CARDS, INCORPORATED, US  
[86] (2859905)  
[87] (2859905)  
[22] 2014-08-20  
[30] US (61/867,925) 2013-08-20  
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[13] C

[51] **Int.Cl. E21B 15/04 (2006.01)**  
[25] EN  
[54] **COLLAPSIBLE SUBSTRUCTURE FOR A MOBILE DRILLING RIG**  
[54] **SUBSTRUCTURE REPLIABLE POUR UNE INSTALLATION DE FORAGE MOBILE**  
[72] KONDOC, KAMERON WAYNE, CA  
[72] THIESSEN, JAY JOHN, CA  
[73] NATIONAL OILWELL VARCO, L.P., US  
[85] 2014-06-19  
[86] 2013-01-10 (PCT/US2013/020923)  
[87] (WO2013/109453)  
[30] US (61/586,979) 2012-01-16  
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[13] C

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[25] EN  
[54] **METHOD AND SYSTEM FOR DYNAMICALLY ASSIGNABLE USER INTERFACE**  
[54] **PROCEDE ET SYSTEME CONCERNANT UNE INTERFACE UTILISATEUR POUVANT ETRE ATTRIBUEE DYNAMIQUEMENT**  
[72] VIDA, GABOR, CA  
[72] MACKENZIE, STEPHEN, CA  
[73] SYNACOR, INC., US  
[85] 2014-07-08  
[86] 2013-01-08 (PCT/CA2013/000004)  
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[25] EN  
[54] **ANTI-JAMMING SUBSYSTEM EMPLOYING AN ANTENNA ARRAY WITH A HORIZONTAL CIRCULAR RECEPTION PATTERN**  
[54] **SOUS-SYSTEME ANTIBROUILLAGE UTILISANT UN RESEAU D'ANTENNES DOTE D'UN DIAGRAMME DE RECEPTION CIRCULAIRE HORIZONTAL**  
[72] FENTON, PATRICK C., CA  
[73] NOVATEL INC., CA  
[85] 2014-07-15  
[86] 2013-03-25 (PCT/CA2013/050242)  
[87] (WO2013/181752)  
[30] US (13/489,801) 2012-06-06

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[13] C

[51] **Int.Cl. G06Q 30/00 (2012.01)**  
[25] EN  
[54] **LOGISTICS METHODS FOR PROCESSING LOTTERY AND CONTEST TICKETS WITH GENERIC HARDWARE**  
[54] **PROCEDES DE LOGISTIQUE POUR TRAITER DES TICKETS DE LOTERIE ET DE CONCOURS AVEC UN MATERIEL GENERIQUE**  
[72] IRWIN, KENNETH EARL, JR., US  
[72] STANEK, EDWARD J., US  
[72] HUNTLEY, WILLIAM J., US  
[73] SCIENTIFIC GAMES HOLDINGS LIMITED, IE  
[85] 2014-07-24  
[86] 2013-02-07 (PCT/IB2013/051031)  
[87] (WO2013/118081)  
[30] US (61/596,385) 2012-02-08  
[30] US (13/644,231) 2012-10-03

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[11] **2,863,722**  
[13] C

[51] **Int.Cl. G06F 17/00 (2006.01) G06Q 30/02 (2012.01)**  
[25] EN  
[54] **SYSTEMS, METHODS AND APPARATUS FOR IDENTIFYING LINKS AMONG INTERACTIONAL DIGITAL DATA**  
[54] **SYSTEMES, PROCEDES ET APPAREIL D'IDENTIFICATION DE LIENS ENTRE DES DONNEES NUMERIQUES INTERACTIVES**  
[72] KRISHNAN, BHARATH K., US  
[72] RAMAKRISHNAN, VISHWAMITRA S., US  
[73] CQUOTIENT, INC., US  
[85] 2014-08-01  
[86] 2013-02-12 (PCT/US2013/025735)  
[87] (WO2013/130260)  
[30] US (13/407,393) 2012-02-28

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[11] **2,864,463**  
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) H02S 10/12 (2014.01)**  
[25] EN  
[54] **COMPUTING METHOD FOR CONTINUOUS POWER FLOW BASED ON WIND POWER FLUCTUATION RULES**  
[54] **PROCEDE D'INFORMATIQUE POUR FLUX DE PUISSANCE CONTINU FONDE SUR UNE REGLE DE FLUCTUATION DE LA PUISSANCE EOLIENNE**  
[72] ZHANG, XIAOMIN, CN  
[72] ZHENG, WEI, CN  
[72] JIN, DAN, CN  
[72] ZHOU, XICHAO, CN  
[72] LIANG, CHEN, CN  
[72] LIANG, FUBO, CN  
[72] NI, SAISAI, CN  
[72] QIAN, WEIJIANG, CN  
[72] BAI, RUNQING, CN  
[73] STATE GRID CORPORATION OF CHINA, CN  
[73] GANSU ELECTRIC POWER CORPORATION, CN  
[73] GANSU ELECTRIC POWER RESEARCH INSTITUTE, CN  
[85] 2014-08-11  
[86] 2013-05-15 (PCT/CN2013/000577)  
[87] (WO2013/174144)  
[30] CN (201210162266.7) 2012-05-23

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[11] **2,864,479**  
[13] C

[51] **Int.Cl. C09D 133/14 (2006.01) C09D 123/28 (2006.01)**  
[25] EN  
[54] **WATERBORNE COATING COMPOSITION USEFUL FOR PROMOTING ADHESION TO PLASTIC SURFACES**  
[54] **COMPOSITION DE REVETEMENT A BASE AQUEUSE UTILE POUR FAVORISER L'ADHERENCE A DES SURFACES DE MATIERE PLASTIQUE**  
[72] POWER, JOHN W., US  
[72] THOMPSON, MARK, US  
[73] W.M. BARR & COMPANY, US  
[85] 2014-08-13  
[86] 2013-02-14 (PCT/US2013/026168)  
[87] (WO2013/123212)  
[30] US (61/598,676) 2012-02-14

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[11] **2,864,745**  
[13] C

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 13/02 (2006.01) A24B 15/18 (2006.01)**  
[25] EN  
[54] **PASTEURIZATION OF PACKAGED TOBACCO**  
[54] **PASTEURISATION DE TABAC EMBALLE**  
[72] NEISS, PHILIPP, CH  
[72] VAN HATTEM, SANDER, CH  
[73] PHILIP MORRIS PRODUCTS S.A., CH  
[85] 2014-08-15  
[86] 2013-02-27 (PCT/EP2013/000578)  
[87] (WO2013/127528)  
[30] EP (12001327.1) 2012-02-28

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[11] **2,866,352**  
[13] C

[51] **Int.Cl. H04L 1/18 (2006.01) H04J 3/00 (2006.01)**  
[25] EN  
[54] **HARQ/ACK CODEBOOK SIZE DETERMINATION**  
[54] **DETERMINATION DE LA TAILLE D'UN LIVRE DE CODES HARQ/ACK**  
[72] HE, HONG, CN  
[72] FWU, JONG-KAE, US  
[73] INTEL CORPORATION, US  
[85] 2014-09-04  
[86] 2013-02-18 (PCT/US2013/026604)  
[87] (WO2013/138021)  
[30] US (61/612,188) 2012-03-16  
[30] US (13/593,044) 2012-08-23

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[11] **2,867,146**  
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01)**  
[25] EN  
[54] **RETRACTING SHEATH DETACHABLE SAFETY NEEDLE WITH MOVING SPRING**  
[54] **AIGUILLE DE SECURITE AMOVIBLE A GAINE RETRACTABLE COMPORTANT UN RESSORT MOBILE**  
[72] WONG, ANDREW, US  
[73] BECTON, DICKINSON AND COMPANY, US  
[85] 2014-09-11  
[86] 2013-03-14 (PCT/US2013/031154)  
[87] (WO2013/138549)  
[30] US (61/610,623) 2012-03-14  
[30] US (13/793,655) 2013-03-11

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[11] **2,867,466**  
[13] C

[51] **Int.Cl. E05B 1/00 (2006.01)**  
[25] EN  
[54] **DEFEATER LATCH HANDLE**  
[54] **POIGNEE DE VERROUILLAGE D'AFFRANCHISSEMENT**  
[72] LE, TAM, US  
[73] S.P.E.P. ACQUISITION CORPORATION, US  
[86] (2867466)  
[87] (2867466)  
[22] 2014-10-16  
[30] US (14/059,295) 2013-10-21

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[11] **2,867,845**  
[13] C

[51] **Int.Cl. H04B 3/32 (2006.01) H04B 3/487 (2015.01) H04M 11/06 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR DIAGNOSING AND OPTIMIZING VECTORED DSL LINES**  
[54] **SYSTEME DE DIAGNOSTIC ET D'OPTIMISATION DE LIGNES D'ABONNEES VECTORISEES**  
[72] KERPEZ, KENNETH, US  
[72] MOHSENI, MEHDI, US  
[72] RHEE, WONJONG, US  
[72] GALLI, STEFANO, US  
[72] GINIS, GEORGIOS, US  
[72] TEHRANI, ARDAVAN MALEKI, US  
[72] GOLDBURG, MARC, US  
[73] ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC., US  
[85] 2014-09-18  
[86] 2012-03-19 (PCT/US2012/029677)  
[87] (WO2013/141840)

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[11] **2,868,147**  
[13] C

[51] **Int.Cl. B22D 11/108 (2006.01) B22D 41/58 (2006.01)**  
[25] EN  
[54] **CONTINUOUS CASTING PROCESS OF METAL**  
[54] **PROCESSUS DE COULEE CONTINUE DE METAL**  
[72] BRANDT, MATHIEU, BE  
[72] FISCHBACH, JEAN-PAUL, BE  
[72] NAVEAU, PAUL, BE  
[73] ARCELORMITTAL  
INVESTIGACION Y DESARROLLO SL, ES  
[85] 2014-09-08  
[86] 2012-03-28 (PCT/IB2012/000628)  
[87] (WO2013/144668)

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[11] **2,868,264**  
[13] C

[51] **Int.Cl. B32B 15/01 (2006.01) B32B 15/20 (2006.01) C22F 1/04 (2006.01) C22C 21/06 (2006.01) C22C 21/10 (2006.01)**  
[25] EN  
[54] **CRASHWORTHY STRUCTURES FORMED OF MULTILAYERED METALLIC MATERIALS**  
[54] **STRUCTURES ANTICHOCS CONSTITUEES DE MATERIAUX METALLIQUES MULTICOUCHES**  
[72] RIOJA, ROBERTO, US  
[72] CONNER, BRETT, US  
[72] KAMAT, RAJEEV, US  
[73] ARCONIC INC., US  
[85] 2014-09-23  
[86] 2013-03-28 (PCT/US2013/034499)  
[87] (WO2013/149090)  
[30] US (61/616,995) 2012-03-28  
[30] US (61/659,880) 2012-06-14  
[30] US (61/792,361) 2013-03-15

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[11] **2,868,660**  
[13] C

[51] **Int.Cl. G06Q 10/06 (2012.01) G07C 1/10 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS RELATING TO TIME LOCATION BASED EMPLOYEE MANAGEMENT SYSTEMS**  
[54] **PROCEDES ET SYSTEMES LIES AUX SYSTEMES DE GESTION DES EMPLOYES FONDES SUR LA LOCALISATION ET LE TEMPS**  
[72] EGGLESTON, YVES, CA  
[73] PUNCHTIME INC., CA  
[86] (2868660)  
[87] (2868660)  
[22] 2014-10-22  
[30] US (61/912,301) 2013-12-05

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[11] **2,869,600**  
[13] C

[51] **Int.Cl. E21B 43/24 (2006.01)**  
[25] EN  
[54] **THERMALLY ASSISTED GRAVITY DRAINAGE (TAGD) DRAINAGE PAR GRAVITE ACTIVE THERMIQUEMENT**  
[72] ROBERTS, BRUCE, CA  
[72] BEATTIE, DOUG, CA  
[72] HAMIDA, TAREK, CA  
[73] ATHABASCA OIL CORPORATION, CA  
[86] (2869600)  
[87] (2869600)  
[22] 2014-10-31

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[11] **2,870,710**  
[13] C

[51] **Int.Cl. E04H 17/14 (2006.01) E04F 11/18 (2006.01)**  
[25] EN  
[54] **FENCE RAIL AND BRACKET SYSTEM**  
[54] **RAIL POUR CLOTURE ET MECANISME DE SUPPORT**  
[72] BERTATO, MAURIZIO C., CA  
[73] BERTATO, MAURIZIO C., CA  
[86] (2870710)  
[87] (2870710)  
[22] 2014-11-12  
[30] US (13/999441) 2014-02-26

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[11] **2,872,057**  
[13] C

[51] **Int.Cl. E21B 49/02 (2006.01)**  
[25] EN  
[54] **METHOD, HANDLING UNIT AND STAND FOR ACQUIRING A SAMPLE FROM A SEABED TOP LAYER**  
[54] **METHODE, MODULE DE TRAITEMENT ET SUPPORT DESTINES A L'ACQUISITION D'UN ECHANTILLON D'UNE COUCHE SUPERIEURE DE FOND MARIN**  
[72] LOOIJEN, PETER, NL  
[73] FUGRO ENGINEERS B.V., NL  
[86] (2872057)  
[87] (2872057)  
[22] 2014-11-25  
[30] NL (2012885) 2014-05-26

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[11] **2,873,141**  
[13] C

[51] **Int.Cl. C07C 51/47 (2006.01) C07C 57/03 (2006.01)**  
[25] EN  
[54] **SIMULATED MOVING BED CHROMATOGRAPHIC SEPARATION PROCESS**  
[54] **PROCEDE DE SEPARATION CHROMATOGRAPHIQUE EN LIT MOBILE SIMULE**  
[72] KELLIHER, ADAM, GB  
[72] MORRISON, ANGUS, GB  
[72] OROSKAR, ANIL, US  
[72] NAIR REMA, RAKESH VIKRAMAN, US  
[72] AGARWAL, ABHILESH, US  
[73] BASF PHARMA (CALLANISH) LIMITED, GB  
[86] (2873141)  
[87] (2873141)  
[22] 2010-12-24  
[62] 2,785,742  
[30] US (61/291184) 2009-12-30  
[30] GB (0922707.5) 2009-12-30  
[30] GB (1015343.5) 2010-09-14

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[11] **2,873,374**  
[13] C

[51] **Int.Cl. H04L 12/18 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR PROCESSING AN INTERACTIVE SERVICE**  
[54] **APPAREIL ET PROCEDE DE TRAITEMENT D'UN SERVICE INTERACTIF**  
[72] OH, SEJIN, KR  
[72] PARK, BYUNGSUN, KR  
[72] MOON, KYOUNGSOO, KR  
[72] THOMAS, GOMER, US  
[72] AN, SEUNGJOO, KR  
[72] LEE, JINWON, KR  
[72] KIM, JINPIL, KR  
[72] KIM, KYUNGHO, KR  
[72] JI, AETTIE, KR  
[73] LG ELECTRONICS INC., KR  
[85] 2014-11-12  
[86] 2013-06-25 (PCT/KR2013/005593)  
[87] (WO2014/003408)  
[30] US (61/664,150) 2012-06-25  
[30] US (61/668,442) 2012-07-05  
[30] US (61/680,279) 2012-08-07  
[30] US (61/684,120) 2012-08-16  
[30] US (61/767,260) 2013-02-21

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[11] **2,874,551**  
[13] C

[51] **Int.Cl. G11C 11/44 (2006.01) G11C 11/16 (2006.01) H01L 39/22 (2006.01)**  
[25] EN  
[54] **JOSEPHSON MAGNETIC MEMORY CELL SYSTEM**  
[54] **SYSTEME DE CELLULE DE MEMOIRE MAGNETIQUE A EFFET JOSEPHSON**  
[72] NAAMAN, OFER, US  
[72] MILLER, DONALD, US  
[72] HERR, ANNA Y., US  
[72] BIRGE, NORMAN O., US  
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US  
[73] BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, US  
[85] 2014-11-21  
[86] 2013-05-14 (PCT/US2013/040950)  
[87] (WO2013/180946)  
[30] US (13/485,397) 2012-05-31

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[11] **2,874,756**  
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C12N 9/12 (2006.01) G01N 33/53 (2006.01) C12Q 1/48 (2006.01)**  
[25] EN  
[54] **INHIBITORS OF BRUTON'S TYROSINE KINASE**  
[54] **INHIBITEURS DE LA TYROSINE KINASE DE BRUTON**  
[72] HONIGBERG, LEE, US  
[72] VERNER, ERIK, US  
[72] BUGGY, JOSEPH J., US  
[72] LOURY, DAVID, US  
[72] CHEN, WEI, US  
[73] PHARMACYCLICS LLC, US  
[86] (2874756)  
[87] (2874756)  
[22] 2008-03-27  
[62] 2,681,756  
[30] US (11/692,870) 2007-03-28  
[30] US (11/964,285) 2007-12-26  
[30] US (61/017,125) 2007-12-27

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[11] **2,874,977**  
[13] C

[51] **Int.Cl. E21B 49/00 (2006.01) E21B 47/00 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR OPTIMIZING FACILITY LIMITED PRODUCTION AND INJECTION IN AN INTEGRATED RESERVOIR AND GATHERING NETWORK**  
[54] **SYSTEMES ET PROCEDES POUR OPTIMISER LA PRODUCTION ET L'INJECTION A INSTALLATION LIMITEE DANS UN RESERVOIR INTEGRE ET UN RESEAU COLLECTEUR**  
[72] FLEMING, GRAHAM CHRISTOPHER, US  
[72] LU, QIN, US  
[73] LANDMARK GRAPHICS CORPORATION, US  
[85] 2014-11-26  
[86] 2013-05-28 (PCT/US2013/042825)  
[87] (WO2013/188088)  
[30] US (61/660,660) 2012-06-15

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[11] **2,875,848**  
[13] C

[51] **Int.Cl. E21B 43/241 (2006.01)**  
[25] EN  
[54] **METHOD FOR IMPROVING INJECTIVITY CONFORMANCE IN HETEROGENEOUS FORMATIONS**  
[54] **PROCEDE POUR AMELIORER LA CONFORMANCE DE L'INJECTIVITE DANS DES FORMATIONS HETEROGENES**  
[72] WOLLEN, WILLIAM CODY, CA  
[73] HUSKY OIL OPERATIONS LIMITED, CA  
[86] (2875848)  
[87] (2875848)  
[22] 2014-12-23

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[11] **2,878,961**  
[13] C

[51] **Int.Cl. H04H 60/33 (2009.01) H04H 20/46 (2009.01) H04H 60/76 (2009.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PROJECTING VIEWERSHIP DATA**  
[54] **SYSTEMES ET PROCEDES DE PROJECTION DE DONNEES D'AUDIENCE**  
[72] VINSON, MICHAEL, US  
[72] GOERLICH, BRUCE, US  
[72] YAZDANI, AMIR, US  
[72] LOPER, MARIA, US  
[73] RENTRAK CORPORATION, US  
[85] 2015-01-12  
[86] 2013-08-22 (PCT/US2013/056288)  
[87] (WO2014/031910)  
[30] US (61/691,924) 2012-08-22

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[11] **2,879,582**  
[13] C

[51] **Int.Cl. B32B 17/10 (2006.01) G02F 1/17 (2006.01)**  
[25] EN  
[54] **SWITCHABLE ELECTRICAL COMPOSITE PANE ARRANGEMENT**  
[54] **VITRAGE COMPOSITE ELECTRIQUE COMMUTABLE**  
[72] VON DER WEIDEN, INGO, DE  
[72] SZNERSKI, ANDREAS, DE  
[72] PENNERS, FRANZ, DE  
[72] MENNIG, JULIUS, DE  
[73] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2015-01-20  
[86] 2013-06-28 (PCT/EP2013/063628)  
[87] (WO2014/023475)  
[30] EP (12179771.6) 2012-08-09

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[11] **2,881,694**  
[13] C

[51] **Int.Cl. A47C 1/022 (2006.01) A47C 1/027 (2006.01) A47C 7/00 (2006.01)**  
[25] EN  
[54] **CHAIR BACK MECHANISM AND CONTROL ASSEMBLY**  
[54] **MECANISME DE DOSSIER DE CHAISE ET ENSEMBLE DE COMMANDE**  
[72] BATTEY, ROBERT J., US  
[72] KARSTEN, GARY L., US  
[72] HEIDMANN, KURT R., US  
[72] HOLDREDGE, RUSSELL T., US  
[72] ANDRES, TODD T., US  
[73] STEELCASE INC., US  
[85] 2015-02-10  
[86] 2013-09-19 (PCT/US2013/060572)  
[87] (WO2014/047259)  
[30] US (61/703,677) 2012-09-20  
[30] US (61/703,667) 2012-09-20  
[30] US (61/703,666) 2012-09-20  
[30] US (61/703,515) 2012-09-20  
[30] US (61/703,663) 2012-09-20  
[30] US (61/703,659) 2012-09-20  
[30] US (61/703,661) 2012-09-20  
[30] US (61/754,803) 2013-01-21  
[30] US (14/029,176) 2013-09-17

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[11] **2,882,578**  
[13] C

[51] **Int.Cl. A47K 10/42 (2006.01)**  
[25] EN  
[54] **DISPENSER FOR SHEET PRODUCTS**  
[54] **DISTRIBUTEUR POUR PRODUITS DE FEUILLE**  
[72] BRICKL, JEFFREY, US  
[72] RALEIGH, EDWARD A., US  
[73] SCA HYGIENE PRODUCTS AB, SE  
[85] 2015-02-19  
[86] 2012-09-06 (PCT/EP2012/067403)  
[87] (WO2014/037041)

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[11] **2,882,799**  
[13] C

[51] **Int.Cl. E21B 47/01 (2012.01) E21B 19/18 (2006.01) E21B 47/16 (2006.01)**  
[25] EN  
[54] **TURBINE DRILLING ASSEMBLY WITH NEAR DRILL BIT SENSORS**  
[54] **ENSEMBLE DE FORAGE PAR TURBINE COMPORTANT DES CAPTEURS PROCHES DU FORET**  
[72] DOWNIE, ANDREW M., GB  
[72] CRAMPTON, CHRISTOPHER P., GB  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-02-19  
[86] 2012-08-21 (PCT/US2012/051743)  
[87] (WO2014/031108)

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[11] **2,883,024**  
[13] C

[51] **Int.Cl. E21B 47/08 (2012.01) E21B 47/085 (2012.01) E21B 43/22 (2006.01)**  
[25] EN  
[54] **DETERMINING SURFACE WETTING OF ROCK WITH CHANGING WELL FLUIDS**  
[54] **DETERMINATION DU MOUILLAGE SUPERFICIEL DES ROCHES PAR LE CHANGEMENT DES FLUIDES DE FORAGE**  
[72] PINDIPROLU, SAIRAM KS, IN  
[72] GRAY, DENNIS WILLIE, US  
[72] PALLA, VENKATA GOPALA RAO, IN  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-02-24  
[86] 2013-07-09 (PCT/US2013/049637)  
[87] (WO2014/035551)  
[30] US (13/596,624) 2012-08-28

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[13] C

[51] **Int.Cl. H04N 19/13 (2014.01) H04N 19/122 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01) H04N 19/593 (2014.01) H04N 19/61 (2014.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR LOSSLESS ENCODING AND DECODING**  
[54] **PROCEDE ET APPAREIL DE CODAGE ET DECODAGE SANS PERTE**  
[72] LEE, YUNG-LYUL, KR  
[72] HAN, KI-HOON, KR  
[72] LEE, YUNG-KI, KR  
[73] SEJONG INDUSTRY-ACADEMY COOPERATION FOUNDATION, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR  
[86] (2883036)  
[87] (2883036)  
[22] 2005-06-07  
[62] 2,569,625  
[30] KR (10-2004-0041399) 2004-06-07  
[30] KR (10-2004-0058349) 2004-07-26

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[13] C

[51] **Int.Cl. B64F 5/40 (2017.01) B29C 65/48 (2006.01) B64C 1/12 (2006.01) B64C 3/26 (2006.01) B64D 45/02 (2006.01)**  
[25] EN  
[54] **COMPOSITE STRUCTURES HAVING BONDLINES WITH MATCHED ELECTRICAL CONDUCTIVITY**  
[54] **STRUCTURES COMPOSITES AYANT DES LIGNES DE CONTACT PRESENTANT UNE CONDUCTIVITE ELECTRIQUE APPARIEE**  
[72] ACKERMAN, PATRICE K., US  
[72] HEIDLEBAUGH, DIANE L., US  
[73] THE BOEING COMPANY, US  
[85] 2015-03-02  
[86] 2013-09-12 (PCT/US2013/059329)  
[87] (WO2014/070313)  
[30] US (13/663,543) 2012-10-30

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[11] **2,885,260**  
[13] C

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 21/10 (2006.01)**  
[25] EN  
[54] **REGULATING DRILLING FLUID PRESSURE IN A DRILLING FLUID CIRCULATION SYSTEM**  
[54] **REGULATION DE LA PRESSION DE FLUIDE DE FORAGE DANS UN SYSTEME DE CIRCULATION DE FLUIDE DE FORAGE**  
[72] OY, LARS, NO  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-03-17  
[86] 2012-12-31 (PCT/IB2012/057842)  
[87] (WO2014/102573)

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[11] **2,885,975**  
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 20/10 (2012.01) G06Q 20/22 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ADMINISTRATION AND TRACKING OF NON-WAGERING ACCOUNT ASSOCIATED WITH GAMING ENVIRONMENT**  
[54] **SYSTEMES ET PROCEDES D'ADMINISTRATION ET DE SUIVI D'UN COMPTE SANS ENJEUX ASSOCIE A UN ENVIRONNEMENT DE JEU**  
[72] SANFORD, KIRK E., US  
[72] SEARS, THOMAS M., US  
[72] SATTAR, OMER, US  
[73] SIGHTLINE INTERACTIVE LLC, US  
[85] 2015-03-18  
[86] 2013-09-27 (PCT/US2013/062074)  
[87] (WO2014/052690)  
[30] US (61/744,564) 2012-09-28  
[30] US (14/033,492) 2013-09-22  
[30] US (14/033,495) 2013-09-22  
[30] US (14/033,493) 2013-09-22

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[11] **2,886,145**  
[13] C

[51] **Int.Cl. A61H 31/00 (2006.01)**  
[25] EN  
[54] **CARDIOPULMONARY RESUSCITATION DEVICE AND METHOD OF USE**  
[54] **DISPOSITIF DE REANIMATION CARDIOPULMONAIRE ET PROCEDE D'UTILISATION**  
[72] HANSON, JOSEPH, US  
[73] HANSON, JOSEPH, US  
[85] 2015-03-25  
[86] 2012-09-25 (PCT/US2012/057112)  
[87] (WO2014/051551)

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[11] **2,887,741**  
[13] C

[51] **Int.Cl. G21C 15/18 (2006.01) G05D 9/12 (2006.01)**  
[25] EN  
[54] **REACTOR CONTAINMENT COOLING SYSTEM AND NUCLEAR POWER PLANT**  
[54] **SYSTEME DE REFROIDISSEUR DE CONFINEMENT DE REACTEUR ET CENTRALE NUCLEAIRE**  
[72] IKEGAWA, TOMOHIKO, JP  
[72] MATSUZAKI, TAKAHISA, JP  
[73] HITACHI-GE NUCLEAR ENERGY, LTD., JP  
[86] (2887741)  
[87] (2887741)  
[22] 2015-04-09  
[30] JP (2014-081288) 2014-04-10  
[30] JP (2014-113971) 2014-06-02

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[11] **2,888,817**  
[13] C

[51] **Int.Cl. E04D 1/28 (2006.01) B32B 3/02 (2006.01)**  
[25] EN  
[54] **ROOFING SHINGLE SYSTEM AND SHINGLES FOR USE THEREIN**  
[54] **SYSTEME DE BARDEAUX DE TOITURE ET BARDEAUX DESTINES AUDIT SYSTEME**  
[72] BUZZA, STEPHEN A., US  
[73] BUILDING MATERIALS INVESTMENT CORPORATION, US  
[86] (2888817)  
[87] (2888817)  
[22] 2015-04-22  
[30] US (14/266,294) 2014-04-30

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[11] **2,889,600**  
[13] C

[51] **Int.Cl. E21B 17/06 (2006.01) E21B 17/02 (2006.01)**  
[25] EN  
[54] **MECHANICALLY ACTUATED DEVICE POSITIONED BELOW MECHANICALLY ACTUATED RELEASE ASSEMBLY UTILIZING J-SLOT DEVICE**  
[54] **DISPOSITIF ACTIONNE PAR VOIE MECANIQUE PLACE SOUS UN ENSEMBLE DE LIBERATION ACTIONNE PAR VOIE MECANIQUE UTILISANT UN DISPOSITIF A FENTE EN J**  
[72] STAUTZENBERGER, ARTHUR, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-04-23  
[86] 2012-10-26 (PCT/US2012/062097)  
[87] (WO2014/065814)

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[11] **2,891,318**  
[13] C

[51] **Int.Cl. E21B 4/00 (2006.01) E21B 41/00 (2006.01) E21B 47/00 (2012.01)**  
[25] EN  
[54] **DOWNHOLE BLADELESS GENERATOR**  
[54] **GENERATEUR SANS AUBES DE FOND DE TROU**  
[72] DOWNING, ANDREW JAMES, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-05-12  
[86] 2012-12-28 (PCT/US2012/072099)  
[87] (WO2014/105053)



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[11] **2,891,774**  
[13] C

[51] **Int.Cl. G06T 9/00 (2006.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/182 (2014.01) H04N 19/593 (2014.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ENCODING AND DECODING IMAGE THROUGH INTRA PREDICTION**

[54] **PROCEDE ET APPAREIL POUR CODER ET DECODER UNE IMAGE PAR INTRA-PREDICTION**

[72] MIN, JUNG-HYE, KR  
[72] LEE, SUN-IL, KR  
[72] HAN, WOO-JIN, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR

[86] (2891774)  
[87] (2891774)  
[22] 2011-07-15  
[62] 2,805,230  
[30] US (61/364,986) 2010-07-16  
[30] KR (10-2010-0097424) 2010-10-06

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[11] **2,892,053**  
[13] C

[51] **Int.Cl. C09K 11/07 (2006.01) G01N 21/76 (2006.01)**

[25] EN

[54] **MULTI-LAYER DEVICE FOR SELECTIVELY DETERMINING MAGNESIUM ION**

[54] **DISPOSITIF MULTICOUCHE POUR DETERMINATION SELECTIVE D'IONS DE MAGNESIUM**

[72] ZHU, PETER CHAOQUAN, US  
[72] WU, YINGZI, US  
[73] OPTI MEDICAL SYSTEMS, INC., US

[85] 2015-05-21  
[86] 2013-11-20 (PCT/US2013/071004)  
[87] (WO2014/085160)  
[30] US (13/689,350) 2012-11-29

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[11] **2,892,130**  
[13] C

[51] **Int.Cl. A23L 27/40 (2016.01) A23L 27/00 (2016.01) A23P 10/20 (2016.01) B29B 9/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF LOW SODIUM SALT AND METHODS OF MAKING AND USING**

[54] **COMPOSITIONS DE SEL A FAIBLE TENEUR EN SODIUM ET PROCEDES DE FABRICATION ET D'UTILISATION**

[72] OSTERWALDER, NEIL, US  
[72] CHIGURUPATI, SAMBASIVA RAO, US  
[72] BHANDARI, PRATIK NANDAN, IN  
[73] S&P INGREDIENT DEVELOPMENT LLC, US

[85] 2015-05-20  
[86] 2013-11-21 (PCT/US2013/071316)  
[87] (WO2014/081968)  
[30] US (61/729,199) 2012-11-21

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[11] **2,892,317**  
[13] C

[51] **Int.Cl. G06Q 50/30 (2012.01)**

[25] EN

[54] **INCORPORATION OF CONTENT FROM AN EXTERNAL FOLLOWED USER WITHIN A SOCIAL NETWORKING SYSTEM**

[54] **INCORPORATION D'UN CONTENU PROVENANT D'UN UTILISATEUR SUIVI EXTERNE DANS UN SYSTEME DE RESEAUTAGE SOCIAL**

[72] SADAN, YARIV, US  
[72] RAIT, ZACHARY ETHAN CARPEN, US  
[72] HAUGEN, AUSTIN DANIEL, US  
[73] FACEBOOK, INC., US

[85] 2015-05-21  
[86] 2014-01-14 (PCT/US2014/011506)  
[87] (WO2014/120435)  
[30] US (13/756,122) 2013-01-31

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[11] **2,892,496**  
[13] C

[51] **Int.Cl. C09K 8/12 (2006.01)**

[25] EN

[54] **DISPERSION SOLUTION FOR DRILLING AND METHOD OF EXTRACTING UNDERGROUND RESOURCES USING THE DISPERSION SOLUTION**

[54] **DISPERSION FLUIDE POUR FORAGE ET PROCEDE D'EXTRACTION POUR DES RESSOURCES SOUTERRAINES L'UTILISANT**

[72] YOSHIKAWA, SEISHI, JP  
[72] KATAYAMA, TSUTAKI, JP  
[73] TOYO SEIKAN GROUP HOLDINGS, LTD., JP

[85] 2015-05-25  
[86] 2013-12-12 (PCT/JP2013/083305)  
[87] (WO2014/092146)  
[30] JP (2012-271083) 2012-12-12  
[30] JP (2013-028031) 2013-02-15  
[30] JP (2013-160063) 2013-08-01

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[11] **2,892,758**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01)**

[25] EN

[54] **SELECTIVELY CONTROLLING FLUID FLOW THROUGH A FLUID PATHWAY**

[54] **COMMANDE SELECTIVE DE L'ECOULEMENT DE FLUIDE PAR L'INTERMEDIAIRE D'UNE VOIE DE FLUIDE**

[72] PRINCE, STEPHEN M., US  
[72] BOCHENKO, WALTER J., US  
[72] DE CHILDERS, WINTHROP, US  
[73] BECTON, DICKINSON AND COMPANY, US

[85] 2015-05-26  
[86] 2013-11-26 (PCT/US2013/071891)  
[87] (WO2014/085395)  
[30] US (61/731,469) 2012-11-29

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[11] **2,892,940**  
[13] C

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 21/01 (2006.01) E21B 44/00 (2006.01)**  
[25] EN  
[54] **DRILLING A WELL WITH PREDICTING SAGGED FLUID COMPOSITION AND MUD WEIGHT**  
[54] **FORAGE D'UN PUIT PAR PREDICTION DU POIDS DE LA BOUE ET DE LA COMPOSITION DU FLUIDE AFFAISSE**  
[72] KULKARNI, SANDEEP D., US  
[72] TEKE, KUSHABHAU D., IN  
[72] SAVARI, SHARATH, US  
[72] JAMISON, DALE E., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-05-22  
[86] 2013-12-05 (PCT/US2013/073237)  
[87] (WO2014/113144)  
[30] US (13/745,944) 2013-01-21

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[11] **2,893,252**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/64 (2017.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 1/10 (2006.01) C07K 1/14 (2006.01) C07K 1/22 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PREPARING ANTIBODY MAYTANSINOID CONJUGATES**  
[54] **PROCEDE DE PREPARATION DE CONJUGUES MAYTANSINOIDES-ANTICORPS**  
[72] DAI, YONG, US  
[72] WANG, YONG, US  
[72] JIN, SHENGJIN, US  
[72] MESHULAM, DEBORAH H., US  
[72] AMPHLETT, GODFREY W., US  
[73] IMMUNOGEN, INC., US  
[86] (2893252)  
[87] (2893252)  
[22] 2006-08-14  
[62] 2,794,554  
[30] US (60/710,858) 2005-08-24  
[30] US (60/797,713) 2006-05-04

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[11] **2,893,408**  
[13] C

[51] **Int.Cl. F03D 1/06 (2006.01)**  
[25] EN  
[54] **ROTOR BLADE TRAILING EDGE**  
[54] **BORD DE FUITE DE PALE DE ROTOR**  
[72] KALMIKUS, ANDREE, DE  
[72] KAMRUZZAMAN, MOHAMMAD, DE  
[73] WOBLEN PROPERTIES GMBH, DE  
[85] 2015-05-28  
[86] 2013-12-05 (PCT/EP2013/075647)  
[87] (WO2014/086919)  
[30] DE (10 2012 023 895.9) 2012-12-07  
[30] DE (10 2013 202 881.4) 2013-02-21

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[11] **2,893,733**  
[13] C

[51] **Int.Cl. F24V 30/00 (2018.01) H01M 8/04029 (2016.01) F24D 3/08 (2006.01) F24D 15/00 (2006.01) F24H 1/00 (2006.01) F24H 9/00 (2006.01)**  
[25] EN  
[54] **BOILER SYSTEM USING FUEL CELL**  
[54] **SYSTEME DE CHAUDIERE UTILISANT UNE PILE A COMBUSTIBLE**  
[72] LEE, JUNG UN, KR  
[72] LEE, DEOKGWON, KR  
[72] LEE, DAENYEONG, KR  
[72] KIM, INCHAN, KR  
[72] KIM, EUN JUNG, KR  
[72] SON, SEUNGKIL, KR  
[72] SHIN, SEOCKJAE, KR  
[72] KIM, JONGMIN, KR  
[72] KIM, JINHYEONG, KR  
[73] KYUNG DONG NAVIEN CO., LTD., KR  
[73] KOREA GAS SAFETY CORPORATION, KR  
[85] 2015-06-03  
[86] 2013-12-09 (PCT/KR2013/011338)  
[87] (WO2014/104610)  
[30] KR (10-2012-0157457) 2012-12-28

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[11] **2,893,887**  
[13] C

[51] **Int.Cl. E21B 23/10 (2006.01) E21B 19/22 (2006.01) E21B 21/00 (2006.01) E21B 33/12 (2006.01)**  
[25] EN  
[54] **FILL UP TOOL**  
[54] **OUTIL DE REEMPLISSAGE**  
[72] WIENS, JIMMY DUANE, US  
[72] GUTSU, YURY P., US  
[72] THOMAS, BENSON, US  
[72] HEIDECHE, KARSTEN, US  
[72] HOLLINGSWORTH, JIM, US  
[72] BOUTWELL, DOYLE FREDRIC JR., US  
[72] STEPHENS, RODNEY, US  
[72] THOMPSON, RUSSELL W., US  
[72] ZIMMERMANN, PATRICK JAMES, US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[86] (2893887)  
[87] (2893887)  
[22] 2011-08-09  
[62] 2,807,650  
[30] US (61/372,052) 2010-08-09  
[30] US (61/401,193) 2010-08-09  
[30] US (61/516,137) 2011-03-30

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[11] **2,894,154**  
[13] C

[51] **Int.Cl. E04G 21/18 (2006.01) G01B 3/00 (2006.01) G06F 17/50 (2006.01)**  
[25] EN  
[54] **EMBEDMENT POSITIONING SYSTEM**  
[54] **SYSTEME DE POSITIONNEMENT D'ENROBAGES**  
[72] MOELLER, LARRY, US  
[72] DINA, DANIEL, US  
[72] WATSON, WILLIAM TODD, US  
[72] DAVIS, GEORGE MATTHEW, US  
[73] ILLINOIS TOOL WORKS INC., US  
[85] 2015-06-05  
[86] 2013-12-06 (PCT/US2013/073483)  
[87] (WO2014/089391)  
[30] US (61/734,710) 2012-12-07  
[30] US (14/095,039) 2013-12-03

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[11] **2,894,535**  
[13] C

[51] **Int.Cl. C10J 3/20 (2006.01) C10G 1/00 (2006.01)**  
[25] EN  
[54] **HIGH TEMPERATURE COUNTERCURRENT VORTEX REACTOR SYSTEM, METHOD AND APPARATUS**  
[54] **SYSTEME DE REACTEUR A CONTRE-COURANT TOURBILLONNAIRE ET A HAUTE TEMPERATURE ET PROCEDE ET APPAREIL ASSOCIES**  
[72] FORET, TODD, US  
[73] FORET PLASMA LABS, LLC, US  
[85] 2015-06-09  
[86] 2013-12-11 (PCT/US2013/074506)  
[87] (WO2014/093560)  
[30] US (61/735,996) 2012-12-11  
[30] US (14/103,820) 2013-12-11

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[11] **2,895,322**  
[13] C

[51] **Int.Cl. E01H 5/00 (2006.01) E01H 5/04 (2006.01)**  
[25] EN  
[54] **TRAILING SHIELD FOR A SNOW REMOVAL DEVICE**  
[54] **PROTECTEUR ARRIERE DESTINE A UN APPAREIL D'ENLEVEMENT DE LA NEIGE**  
[72] BULLINGTON, SHAWN, US  
[72] HOLLOWAY, MARK, US  
[73] HUSQVARNA AB, SE  
[86] (2895322)  
[87] (2895322)  
[22] 2011-08-31  
[62] 2,847,402

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[11] **2,896,323**  
[13] C

[51] **Int.Cl. A47B 49/00 (2006.01) A47F 3/06 (2006.01) A47F 5/05 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR KEEPING PACKAGES CONTAINING SMOKING ARTICLES**  
[54] **APPAREIL DE STOCKAGE DE PAQUETS CONTENANT DES ARTICLES A FUMER**  
[72] CHENG, YA-HUI, TW  
[73] JT INTERNATIONAL S.A., CH  
[85] 2015-06-25  
[86] 2013-11-20 (PCT/EP2013/074235)  
[87] (WO2014/102033)  
[30] EP (12199589.8) 2012-12-28

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[11] **2,896,438**  
[13] C

[51] **Int.Cl. G01D 5/32 (2006.01) E21B 47/06 (2012.01) G01K 11/32 (2006.01) G01L 11/02 (2006.01)**  
[25] EN  
[54] **SMALL PROFILE PRESSURE AND TEMPERATURE GAUGES**  
[54] **JAUGES DE PRESSION ET DE TEMPERATURE A PROFIL REDUIT**  
[72] TAVERNER, DOMINO, US  
[72] GRUNBECK, JOHN J., US  
[72] DUNPHY, JAMES, US  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[86] (2896438)  
[87] (2896438)  
[22] 2015-07-03  
[30] US (14/330,338) 2014-07-14

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[11] **2,897,008**  
[13] C

[51] **Int.Cl. B29C 45/04 (2006.01) A61C 7/16 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD USABLE WITH AN INJECTION MOLDER FOR PRODUCING ARTICLES, IN PARTICULAR ORTHODONTIC BRACKETS**  
[54] **APPAREIL ET PROCEDE APTES A ETRE UTILISES AVEC UN DISPOSITIF DE MOULAGE PAR INJECTION POUR LA PRODUCTION D'ARTICLES, EN PARTICULIER DE VERROUS ORTHODONTIQUES OU "BRACKETS"**  
[72] ANDERSON, MICHAEL, US  
[72] MARONEY, DAVID RICHARD, US  
[73] DENTSPLY INTERNATIONAL, INC., US  
[85] 2015-06-30  
[86] 2014-01-13 (PCT/US2014/011219)  
[87] (WO2014/110479)  
[30] US (61/751,591) 2013-01-11

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[11] **2,897,314**  
[13] C

[51] **Int.Cl. H03F 3/68 (2006.01) H03F 3/217 (2006.01) H03F 3/72 (2006.01)**  
[25] EN  
[54] **PROGRAMMABLY CONFIGURED SWITCHMODE AUDIO AMPLIFIER**  
[54] **AMPLIFICATEUR AUDIO A MODE DE COMMUTATION CONFIGURE DE MANIERE PROGRAMMABLE**  
[72] QUILTER, PATRICK H., US  
[72] RODRIGUEZ, MANNY, US  
[72] MERCS, LAURA, US  
[72] SANDBERG, DALE, US  
[72] SKOGMO, MATTHEW, US  
[73] QSC, LLC, US  
[85] 2015-07-06  
[86] 2014-01-09 (PCT/US2014/010925)  
[87] (WO2014/110289)  
[30] US (61/750,744) 2013-01-09  
[30] US (13/777,975) 2013-02-26

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[11] **2,898,135**  
[13] C

[51] **Int.Cl. E21B 10/00 (2006.01) C23C 28/04 (2006.01) E21B 17/00 (2006.01)**  
[25] EN  
[54] **METHODS OF MITIGATING BITUMINOUS MATERIAL ADHESION USING NANOPARTICLES**  
[54] **PROCEDES D'ATTENUATION DE L'ADHERENCE DE MATIERE BITUMINEUSE EN UTILISANT DE NANOPARTICULES**  
[72] HALL, LEE J., US  
[72] LIVANEC, PHILIP W., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-07-13  
[86] 2014-03-27 (PCT/US2014/032067)  
[87] (WO2014/160890)  
[30] US (13/851,374) 2013-03-27

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[11] **2,898,852**  
[13] C

[51] **Int.Cl. G06F 3/0488 (2013.01) G06F 3/0481 (2013.01)**  
[25] EN  
[54] **USER INTERFACE FOR TOOLBAR NAVIGATION**  
[54] **INTERFACE UTILISATEUR POUR NAVIGATION DANS UNE BARRE D'OUTILS**  
[72] HARVEY, KEITH D., US  
[73] HEXAGON TECHNOLOGY CENTER GMBH, CH  
[85] 2015-07-21  
[86] 2014-01-16 (PCT/US2014/011805)  
[87] (WO2014/143405)  
[30] US (61/777,039) 2013-03-12  
[30] US (14/155,457) 2014-01-15

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[11] **2,899,813**  
[13] C

[51] **Int.Cl. C21D 1/74 (2006.01) C21D 1/06 (2006.01) C21D 1/30 (2006.01) C21D 1/76 (2006.01) C21D 7/00 (2006.01) C23C 8/24 (2006.01) E21B 23/00 (2006.01)**  
[25] EN  
[54] **HEAT TREATMENT PRODUCTION FIXTURE FOR DOWNHOLE ASSEMBLY**  
[54] **APPAREIL DE PRODUCTION DE TRAITEMENT THERMIQUE POUR ASSEMBLAGE DE FOND DE TROU**  
[72] WEBSTER, OLIVER, GB  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[85] 2015-07-29  
[86] 2014-03-14 (PCT/GB2014/050797)  
[87] (WO2014/140618)  
[30] GB (1304771.7) 2013-03-15

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[11] **2,900,065**  
[13] C

[51] **Int.Cl. B65D 75/58 (2006.01) A47G 21/00 (2006.01) B65D 5/54 (2006.01)**  
[25] EN  
[54] **CONTAINER HAVING A TEARABLE OPENING**  
[54] **CONTENANT A OUVERTURE DECHIRABLE**  
[72] D'AMATO, GIANFRANCO, IT  
[73] SEDA INTERNATIONAL PACKAGING GROUP SPA, IT  
[85] 2015-08-03  
[86] 2014-02-14 (PCT/IB2014/000156)  
[87] (WO2014/125361)  
[30] IT (RM2013U000034) 2013-02-14

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[11] **2,900,451**  
[13] C

[51] **Int.Cl. H04L 25/02 (2006.01) H04L 5/00 (2006.01)**  
[25] EN  
[54] **DESIGN FOR SMALL CELL DEMODULATION REFERENCE SIGNAL AND INITIAL SYNCHRONIZATION**  
[54] **CONCEPTION DE SIGNAL DE REFERENCE DE DEMODULATION ET DE SYNCHRONISATION INITIALE DE PETITE CELLULE**  
[72] XU, HUA, CA  
[72] GAO, SHIWEI, CA  
[72] ZHU, YAJUN, CN  
[72] CAI, ZHIJUN, US  
[72] BONTU, CHANDRA SEK HAR, CA  
[72] SONG, YI, US  
[73] BLACKBERRY LIMITED, CA  
[85] 2015-08-06  
[86] 2013-02-14 (PCT/US2013/026195)  
[87] (WO2014/126572)

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[11] **2,900,480**  
[13] C

[51] **Int.Cl. H01M 2/16 (2006.01) H01M 10/0525 (2010.01) H01M 10/058 (2010.01) A61F 9/00 (2006.01) H01M 2/18 (2006.01) H01M 4/04 (2006.01)**  
[25] EN  
[54] **METHODS OF FORMING BIOCOMPATIBLE RECHARGEABLE ENERGIZATION ELEMENTS FOR BIOMEDICAL DEVICES**  
[54] **METHODES DE FORMATION D'ELEMENTS D'ENERGISATION RECHARGEABLES BIOCOMPATIBLES POUR DISPOSITIFS MEDICAUX**  
[72] FLITSCH, FREDERICK A., US  
[72] MAHADEVAN, SHIVKUMAR, US  
[72] OTTS, DANIEL B., US  
[72] TONER, ADAM, US  
[72] RIALI, JAMES DANIEL, US  
[72] PUGH, RANDALL B., US  
[73] JOHNSON & JOHNSON VISION CARE, INC., US  
[86] (2900480)  
[87] (2900480)  
[22] 2015-08-17  
[30] US (62/040,178) 2014-08-21  
[30] US (14/746,231) 2015-06-22

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[11] **2,900,550**  
[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 43/116 (2006.01) E21B 43/14 (2006.01) E21B 47/12 (2012.01) H04B 5/00 (2006.01)**  
[25] EN  
[54] **WELLBORE SERVICING TOOLS, SYSTEMS AND METHODS UTILIZING NEAR-FIELD COMMUNICATION**  
[54] **OUTILS, SYSTEMES ET PROCEDES D'ENTRETIEN DE TROU DE FORAGE UTILISANT LA COMMUNICATION EN CHAMP PROCHE**  
[72] WALTON, ZACHARY WILLIAM, US  
[72] HOWELL, MATTHEW TODD, US  
[72] FRIPP, MICHAEL LINLEY, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-08-06  
[86] 2014-02-20 (PCT/US2014/017312)  
[87] (WO2014/163817)  
[30] US (61/778,312) 2013-03-12  
[30] US (13/914,004) 2013-06-10

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[13] C

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[25] EN  
[54] **WELLBORE SERVICING TOOLS, SYSTEMS AND METHODS UTILIZING NEAR-FIELD COMMUNICATION**  
[54] **OUTILS, SYSTEMES ET PROCEDES D'ENTRETIEN DE TROU DE FORAGE UTILISANT LA COMMUNICATION DE CHAMP PROCHE**  
[72] WALTON, ZACHARY WILLIAM, US  
[72] HOWELL, MATTHEW TODD, US  
[72] FRIPP, MICHAEL LINLEY, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2015-08-06  
[86] 2014-02-20 (PCT/US2014/017313)  
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- [25] EN
- [54] **WELLBORE SERVICING TOOLS, SYSTEMS AND METHODS UTILIZING NEAR-FIELD COMMUNICATION**
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- [72] HOWELL, MATTHEW TODD, US
- [72] FRIPP, MICHAEL LINLEY, US
- [73] HALLIBURTON ENERGY SERVICES, INC., US
- [85] 2015-08-06
- [86] 2014-02-20 (PCT/US2014/017315)
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- [30] US (13/914,177) 2013-06-10

[11] **2,900,673**  
[13] C

- [51] **Int.Cl. F16H 21/20 (2006.01)**
- [25] EN
- [54] **VARIABLE LINEAR MOTOR**
- [54] **MOTEUR LINEAIRE VARIABLE**
- [72] PANSKY, AMIR, IL
- [72] BEN MOSHE, EYAL, IL
- [72] SPECTOR, BEN, ZION, IL
- [73] MEDINOL LTD., IL
- [85] 2015-08-07
- [86] 2014-01-30 (PCT/IB2014/001963)
- [87] (WO2014/199234)
- [30] US (13/761,507) 2013-02-07

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[13] C

- [51] **Int.Cl. E21C 35/18 (2006.01) E21C 35/19 (2006.01)**
- [25] EN
- [54] **WEAR PROTECTION CAP**
- [54] **CAPUCHON DE PROTECTION CONTRE L'USURE**
- [72] LEMMEY, PAUL ANTHONY, AU
- [72] MOORBY, JAMIE SINCLAIR, AU
- [72] RONEY, BRETT GEORGE, AU
- [73] WIRTGEN GMBH, DE
- [86] (2901891)
- [87] (2901891)
- [22] 2015-08-26
- [30] DE (102014112539.8) 2014-09-01

[11] **2,902,200**  
[13] C

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- [25] EN
- [54] **CACHING PAGELETS OF STRUCTURED DOCUMENTS**
- [54] **MISE EN CACHE DE PAGELETS DE DOCUMENTS STRUCTURES**
- [72] ZHANG, ZIXIAO, US
- [72] WEI, XIAOLIANG, US
- [73] FACEBOOK, INC., US
- [85] 2015-08-21
- [86] 2014-02-27 (PCT/US2014/018827)
- [87] (WO2014/134234)
- [30] US (13/782,937) 2013-03-01

[11] **2,902,998**  
[13] C

- [51] **Int.Cl. F02C 7/24 (2006.01) F01D 1/02 (2006.01) F02K 3/06 (2006.01)**
- [25] EN
- [54] **LOW NOISE TURBINE FOR GEARED GAS TURBINE ENGINE**
- [54] **TURBINE PEU BRUYANTE POUR TURBINE A GAZ A ENGRENAGES**
- [72] MORIN, BRUCE L., US
- [72] KORTE, DETLEF, DE
- [73] UNITED TECHNOLOGIES CORPORATION, US
- [73] MTU AERO ENGINES AG, DE
- [85] 2015-08-27
- [86] 2014-03-10 (PCT/US2014/022512)
- [87] (WO2014/159206)
- [30] US (61/781,170) 2013-03-14
- [30] US (13/970,670) 2013-08-20

[11] **2,905,298**  
[13] C

- [51] **Int.Cl. G06Q 20/40 (2012.01)**
- [25] EN
- [54] **METHOD AND SYSTEM OF DETECTING AND USING GEOFENCING FOR FRAUD DETECTION AND MODELING**
- [54] **PROCEDE ET SYSTEME DE DETECTION ET D'UTILISATION DE GEOREPERAGE POUR UNE DETECTION DE FRAUDE ET MODELISATION**
- [72] WIESMAN, MARK, US
- [72] GERBER, THEUNIS JOHANNES, US
- [72] MEYER, SUSAN MARIE, US
- [73] MASTERCARD INTERNATIONAL INCORPORATED, US
- [85] 2015-09-10
- [86] 2014-03-07 (PCT/US2014/021720)
- [87] (WO2014/164284)
- [30] US (13/795,169) 2013-03-12

[11] **2,907,464**  
[13] C

- [51] **Int.Cl. C25B 15/00 (2006.01) C25B 9/04 (2006.01) C25B 9/18 (2006.01) C25B 1/04 (2006.01)**
- [25] EN
- [54] **ELECTROLYSIS STACK AND ELECTROLYZER**
- [54] **EMPILEMENT ELECTROLYTIQUE POUR ELECTROLYSEUR**
- [72] HAHN, ALEXANDER, DE
- [72] HEROLD, JOCHEN, DE
- [72] WEIDAUER, JENS, DE
- [73] SIEMENS AKTIENGESELLSCHAFT, DE
- [85] 2015-09-17
- [86] 2014-02-28 (PCT/EP2014/053947)
- [87] (WO2014/146885)
- [30] DE (10 2013 204 758.4) 2013-03-19
- [30] EP (13181180.4) 2013-08-21

[11] **2,907,505**  
[13] C

- [51] **Int.Cl. A47J 31/44 (2006.01)**
- [25] EN
- [54] **MODULAR BEVERAGE MAKING AND DISPENSING APPARATUS**
- [54] **APPAREIL MODULAIRE DE FABRICATION ET DE DISTRIBUTION DE BOISSONS**
- [72] WALDRON, COREY, US
- [72] FORBING, ARIC, US
- [73] MODBAR, LLC., US
- [85] 2015-09-16
- [86] 2014-03-28 (PCT/IB2014/060255)
- [87] (WO2014/167452)
- [30] EP (13163379.4) 2013-04-11

[11] **2,907,669**  
[13] C

- [51] **Int.Cl. B32B 37/12 (2006.01) B05C 1/08 (2006.01) B05C 1/12 (2006.01)**
- [25] EN
- [54] **UNIT FOR SPREADING AN ADHESIVE ONTO A MOVING FILM**
- [54] **UNITE D'APPLICATION D'ADHESIF SUR UN FILM MOBILE**
- [72] CERCIELLO, ANTONIO, IT
- [73] NORDMECCANICA S.P.A., IT
- [85] 2015-09-21
- [86] 2014-03-20 (PCT/IB2014/060002)
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- [30] IT (PC2013A000011) 2013-03-27

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[13] C

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[25] EN  
[54] **SYSTEMS AND METHODS FOR A LOCKING DOUBLE CARABINEER**  
[54] **SYSTEMES ET PROCEDES POUR UN DOUBLE MOUSQUETON DE VERROUILLAGE**  
[72] ORMSBEE, BOWDEN, US  
[72] ZAGONE, PETER, US  
[73] NITE IZE, INC., US  
[85] 2015-09-22  
[86] 2014-01-06 (PCT/US2014/010331)  
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[13] C

[51] **Int.Cl. B01D 33/03 (2006.01)**  
[25] EN  
[54] **SCREEN HAVING FRAME MEMBERS WITH ANGLED SURFACE(S)**  
[54] **CRIBLE POSSEDANT DES ELEMENTS CADRES A SURFACE(S) INCLINEE(S)**  
[72] RALPH, ANDREW, GB  
[72] ROBERTSON, GRAHAM, GB  
[73] M-I DRILLING FLUIDS UK LTD., GB  
[85] 2015-10-23  
[86] 2014-04-30 (PCT/US2014/036273)  
[87] (WO2014/179512)  
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[11] **2,910,571**  
[13] C

[51] **Int.Cl. A01M 1/20 (2006.01)**  
[25] EN  
[54] **INSECT BAIT STAKE**  
[54] **PIQUET APPAT POUR INSECTES**  
[72] KING, ANDREW N., US  
[73] WOODSTREAM CORPORATION, US  
[85] 2015-10-26  
[86] 2014-04-25 (PCT/US2014/035463)  
[87] (WO2014/186110)  
[30] US (13/897,224) 2013-05-17

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[11] **2,910,964**  
[13] C

[51] **Int.Cl. H04N 19/30 (2014.01) H04N 19/82 (2014.01)**  
[25] EN  
[54] **INDEPENDENT RESAMPLING AND SELECTION OF REFERENCE PICTURES FOR DIFFERENT INTER-LAYER PREDICTION TYPES**  
[54] **REECHANTILLONNAGE ET SELECTION INDEPENDANTS D'IMAGES DE REFERENCE POUR DIFFERENTS TYPES DE PREDICTION INTER-COUCHES**  
[72] SEREGIN, VADIM, US  
[72] WANG, YE-KUI, US  
[73] QUALCOMM INCORPORATED, US  
[85] 2015-10-29  
[86] 2014-06-09 (PCT/US2014/041497)  
[87] (WO2014/200894)  
[30] US (61/833,836) 2013-06-11  
[30] US (61/859,702) 2013-07-29  
[30] US (14/298,308) 2014-06-06

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[11] **2,911,024**  
[13] C

[51] **Int.Cl. H01M 8/2475 (2016.01)**  
[25] EN  
[54] **FUEL CELL DEVICE**  
[54] **DISPOSITIF DE PILE A COMBUSTIBLE**  
[72] TAKEYAMA, MAKOTO, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[86] (2911024)  
[87] (2911024)  
[22] 2015-11-03  
[30] JP (2014-225762) 2014-11-06

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[13] C

[51] **Int.Cl. C07C 69/734 (2006.01) C08F 222/10 (2006.01) C09D 4/00 (2006.01) C09D 4/06 (2006.01)**  
[25] FR  
[54] **MULTIFUNCTIONAL ACRYLATED ETHER-ESTER PRODUCTS, PROCESS FOR PREPARING SAME AND RELATED CROSSLINKABLE COMPOSITIONS**  
[54] **PRODUITS ETHER-ESTERS ACRYLES MULTIFONCTIONNELS, PROCEDE DE PREPARATION ET COMPOSITIONS RETICULABLES LIEES**  
[72] CICERON, PHILIPPE, FR  
[73] ARKEMA FRANCE, FR  
[85] 2015-11-02  
[86] 2014-05-20 (PCT/FR2014/051174)  
[87] (WO2014/188117)  
[30] FR (1354651) 2013-05-23

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[11] **2,911,452**  
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61B 5/15 (2006.01) A61B 5/154 (2006.01) A61M 39/24 (2006.01) G05D 7/01 (2006.01)**  
[25] EN  
[54] **VACUUM PRESSURE REGULATORS FOR USE DURING BLOOD COLLECTION**  
[54] **REGULATEURS DE PRESSION NEGATIVE POUR UTILISATION LORS D'UN PRELEVEMENT DE SANG**  
[72] RUSS, CRAIG OWEN, US  
[72] CHIA, NEVILLE YU LENG, SG  
[72] CRAWFORD, JAMIESON W., SE  
[72] SMITH, KENNETH JAMES, US  
[72] WILKINSON, BRADLEY M., US  
[73] BECTON, DICKINSON AND COMPANY, US  
[85] 2015-11-05  
[86] 2013-05-15 (PCT/US2013/041181)  
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[25] EN  
[54] **PRODUCTION OF BETA-GLUCANS AND MANNANS**  
[54] **PRODUCTION DE BETA-GLUCANES ET DE MANNANES**

[72] SEDMAK, JOSEPH JAMES, US  
[73] SENSIENT FLAVORS INC., US  
[86] (2912012)  
[87] (2912012)  
[22] 2006-05-05  
[62] 2,607,004  
[30] US (60/677,973) 2005-05-05

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[13] C

[51] **Int.Cl. E21B 15/00 (2006.01)**

[25] EN  
[54] **DRILL BASKET**  
[54] **PANIER DE FORAGE**

[72] JOHNSON, TROY DEAN, CA  
[73] SASKATOON MATERIAL HANDLING LTD., CA

[86] (2912752)  
[87] (2912752)  
[22] 2015-11-23

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[11] **2,913,187**  
[13] C

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/25 (2006.01) A61Q 11/00 (2006.01)**

[25] EN  
[54] **ORAL COMPOSITION INDICATIVE OF PROPER TOOTH CLEANING**  
[54] **COMPOSITION BUCCO-DENTAIRE INDICATIVE D'UN NETTOYAGE APPROPRIE DES DENTS**

[72] STRAND, ROSS, CN  
[72] LI, YUJUN, CN  
[72] ZHANG, YIQUN, CN  
[72] LI, XIAOXIAO, CN  
[72] BAO, HANBO, CN  
[73] THE PROCTER & GAMBLE COMPANY, US

[85] 2015-11-23  
[86] 2013-06-24 (PCT/CN2013/077765)  
[87] (WO2014/205623)

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[11] **2,914,106**  
[13] C

[51] **Int.Cl. A01D 75/18 (2006.01) A01F 15/10 (2006.01)**

[25] EN  
[54] **PROCESSING CONVEYANCE FOR AN AGRICULTURAL BALER WITH NON-CROP MATERIAL RELEASING SIEVE**  
[54] **MOYEN DE TRANSPORT DE TRAITEMENT POUR PRESSE A BALLES AGRICOLES COMPRENANT UN TAMIS A LIBERATION DE MATERIAUX NON AGRICOLES**

[72] NAEYAERT, KAREL, BE  
[72] STAELENS, PATRICK, BE  
[72] DE GERSEM, HANS JOSEPH, BE  
[73] CNH INDUSTRIAL BELGIUM NV, BE

[85] 2015-12-01  
[86] 2014-07-08 (PCT/EP2014/064645)  
[87] (WO2015/004153)  
[30] BE (BE2013/0481) 2013-07-10

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[11] **2,914,384**  
[13] C

[51] **Int.Cl. A61F 9/01 (2006.01)**

[25] EN  
[54] **DEVICE FOR LASER TREATMENT OF A HUMAN EYE**  
[54] **APPAREIL DE TRAITEMENT AU LASER D'UN OEIL HUMAIN**

[72] MARTIN, PETER, DE  
[73] WAVELIGHT GMBH, DE

[86] (2914384)  
[87] (2914384)  
[22] 2015-12-09  
[30] DE (10 2015 000 913.3) 2015-01-26

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[13] C

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 1/40 (2006.01) B65D 21/032 (2006.01)**

[25] FR  
[54] **STACKABLE BOTTLE WITH ELEVATED NECK**  
[54] **BOUTEILLE EMPILABLE A GOULOT SURELEVE**

[72] AUBIN, REGENT, CA  
[73] AUBIN, REGENT, CA

[86] (2915752)  
[87] (2915752)  
[22] 2015-12-23

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[11] **2,917,342**  
[13] C

[51] **Int.Cl. C25C 3/18 (2006.01)**

[25] EN  
[54] **ELECTROLYTE FOR OBTAINING MELTS USING AN ALUMINUM ELECTROLYZER**  
[54] **ELECTROLYTE PERMETTANT D'OBTENIR DES SUBSTANCES FONDUES AU MOYEN D'UN ELECTROLYSEUR D'ALUMINIUM**

[72] SIMAKOV, DMITRIY ALEKSANDROVICH, RU  
[72] GUSEV, ALEKSANDR OLEGOVICH, RU

[73] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU

[85] 2016-01-04  
[86] 2013-07-09 (PCT/RU2013/000590)  
[87] (WO2015/005817)

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[13] C

[51] **Int.Cl. C09K 8/03 (2006.01) C06B 25/00 (2006.01) E21B 43/22 (2006.01)**

[25] EN  
[54] **ENERGETIC COCRYSTALS FOR TREATMENT OF A SUBTERRANEAN FORMATION**  
[54] **COCRISTAUX D'ENERGIE POUR LE TRAITEMENT D'UNE FORMATION SOUTERRAINE**

[72] SCHULTHEISS, NATHAN CARL, US  
[72] HOLTSLAW, JEREMY, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2016-01-05  
[86] 2013-08-27 (PCT/US2013/056825)  
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[13] C

[51] **Int.Cl. C09D 127/08 (2006.01) B27K 3/15 (2006.01) C09D 163/10 (2006.01) C09D 167/07 (2006.01) C09D 171/00 (2006.01) C09D 175/16 (2006.01)**

[25] EN

[54] **COATINGS FOR THE BACKSIDES OF WOODEN BOARDS**

[54] **REVETEMENTS POUR LES DOS DE PLANCHES EN BOIS**

[72] GRUNEWALDER, JOHN F., US

[72] TEMPLE, HERBERT D., US

[72] MIRANTE, JAMES V., US

[73] VALSPAR HOLDINGS I, INC., US

[85] 2016-01-05

[86] 2014-07-11 (PCT/US2014/046372)

[87] (WO2015/006704)

[30] US (61/845,458) 2013-07-12

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[13] C

[51] **Int.Cl. A61L 27/50 (2006.01) A61L 27/56 (2006.01) A61L 27/58 (2006.01)**

[25] EN

[54] **ABSORBABLE IMPLANTS FOR PLASTIC SURGERY**

[54] **IMPLANTS RESORBABLES DE CHIRURGIE PLASTIQUE**

[72] FELIX, FABIO, US

[72] FOSCO, ANTONIO, US

[72] MARTIN, DAVID P., US

[72] MOSES, ARIKHA, US

[72] VAN NATTA, BRUCE, US

[72] RIZK, SAID, US

[72] WILLIAMS, SIMON F., US

[73] TEPHA, INC., US

[85] 2016-01-06

[86] 2014-07-11 (PCT/US2014/046420)

[87] (WO2015/006737)

[30] US (61/845,236) 2013-07-11

[30] US (61/993,511) 2014-05-15

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[11] **2,917,649**  
[13] C

[51] **Int.Cl. B64G 1/64 (2006.01) B25J 11/00 (2006.01) B25J 15/08 (2006.01) B64D 1/00 (2006.01)**

[25] EN

[54] **SPACECRAFT CAPTURE MECHANISM**

[54] **MECANISME DE CAPTURE D'ENGIN SPATIAL**

[72] ROBERTS, PAUL, CA

[72] WHITE, JASON, CA

[72] FISHER, STEVE, CA

[72] REMBALA, RICHARD, CA

[73] MAXAR TECHNOLOGIES LTD., CA

[86] (2917649)

[87] (2917649)

[22] 2013-03-19

[62] 2,867,476

[30] US (61/612,715) 2012-03-19

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[11] **2,918,472**  
[13] C

[51] **Int.Cl. G06F 12/0866 (2016.01) G06F 17/30 (2006.01)**

[25] EN

[54] **A METHOD AND PROCESS FOR ENABLING DISTRIBUTING CACHE DATA SOURCES FOR QUERY PROCESSING AND DISTRIBUTED DISK CACHING OF LARGE DATA AND ANALYSIS REQUESTS**

[54] **PROCEDE ET PROCESSUS POUR PERMETTRE DE DISTRIBUER DES SOURCES DE DONNEES DE CACHE POUR TRAITEMENT DE REQUETE ET MISE EN CACHE DISQUE DISTRIBUE DE GRANDES DONNEES ET REQUETES D'ANALYSE**

[72] MOSS, SIMON BYFORD, US

[72] ELKINS, ELIZABETH WINTERS, US

[72] BACHELOR, DOUGLAS WILEY, US

[72] FOUNTAIN, THOMAS C., US

[72] CURBELO, RAUL HUGO, US

[73] UST GLOBAL (SINGAPORE) PTE. LIMITED, SG

[85] 2016-01-15

[86] 2013-07-16 (PCT/US2013/050673)

[87] (WO2014/014906)

[30] US (61/672,028) 2012-07-16

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[11] **2,918,856**  
[13] C

[51] **Int.Cl. B23K 9/02 (2006.01) B23K 9/095 (2006.01)**

[25] EN

[54] **SYNCHRONIZED ROTATING ARC WELDING METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME DE SOUDAGE A L'ARC TOURNANT SYNCHRONISE**

[72] HSU, CHRISTOPHER, US

[72] HUTCHISON, RICHARD MARTIN, US

[72] SCOTT, KEVIN MICHAEL, US

[72] PAGANO, KEVIN, US

[72] UECKER, JAMES LEE, US

[73] ILLINOIS TOOL WORKS INC., US

[85] 2016-01-20

[86] 2014-09-11 (PCT/US2014/055090)

[87] (WO2015/038711)

[30] US (61/878,404) 2013-09-16

[30] US (14/481,507) 2014-09-09

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[11] **2,918,861**  
[13] C

[51] **Int.Cl. B23K 9/02 (2006.01) B23K 9/173 (2006.01) B23K 9/29 (2006.01)**

[25] EN

[54] **NARROW GROOVE WELDING METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME DE SOUDAGE A FENTE ETROITE**

[72] PAGANO, KEVIN, US

[72] MARSCHKE, BRYAN DUSTIN, US

[72] JAEGER, THOMAS ROGER, US

[72] BASIT, NAUMAN, US

[72] DOBSON, KENNETH S., US

[73] ILLINOIS TOOL WORKS INC., US

[85] 2016-01-20

[86] 2014-09-11 (PCT/US2014/055094)

[87] (WO2015/038713)

[30] US (61/878,452) 2013-09-16

[30] US (14/481,624) 2014-09-09



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[11] **2,918,899**

[13] C

- [51] **Int.Cl. C04B 26/06 (2006.01)**  
[25] EN  
[54] **RESIN MIXTURE, REACTION RESIN MORTAR, MULTI-COMPONENT MORTAR SYSTEM AND USE THEREOF**  
[54] **MELANGE RESINEUX, MORTIER A BASE DE RESINE COMPOSITE, SYSTEME DE MORTIER A PLUSIEURS COMPOSANTS, ET LEUR UTILISATION**  
[72] BURGEL, THOMAS, DE  
[72] MONCH, MONIKA, DE  
[73] HILTI AKTIENGESELLSCHAFT, LI  
[85] 2016-01-21  
[86] 2014-07-23 (PCT/EP2014/065799)  
[87] (WO2015/011180)  
[30] EP (13177783.1) 2013-07-24

[11] **2,919,468**

[13] C

- [51] **Int.Cl. A61K 31/015 (2006.01) A61K 9/107 (2006.01) A61K 9/50 (2006.01)**  
[25] EN  
[54] **METHOD FOR PREPARING OIL-DISPERSIBLE CAROTENOID PREPARATION**  
[54] **PROCEDE DE PREPARATION D'UNE PREPARATION DE CAROTENOIDE DISPERSIBLE DANS UNE HUILE**  
[72] QIU, DAN, CN  
[72] SHI, LIFANG, CN  
[72] LI, JIANDONG, CN  
[72] CHEN, ZHIRONG, CN  
[72] ZHOU, JIACHAO, CN  
[73] ZHEJIANG NEW WEIPU ADDITIVE CO., LTD., CN  
[73] ZHEJIANG UNIVERSITY, CN  
[73] ZHEJIANG NHU COMPANY LTD., CN  
[85] 2016-01-08  
[86] 2014-06-03 (PCT/CN2014/079069)  
[87] (WO2015/003536)  
[30] CN (201310286768.5) 2013-07-09

[11] **2,920,979**

[13] C

- [51] **Int.Cl. D06H 5/00 (2006.01)**  
[25] EN  
[54] **METHOD OF FORMING A FABRIC SEAM BY ULTRASONIC GAP WELDING OF A FLAT WOVEN FABRIC**  
[54] **FORMATION D'UNE COUTURE DE TISSU PAR SOUDAGE A ECARTEMENT PAR ULTRASON SUR UN TISSU TISSE A PLAT**  
[72] LAFOND, JOHN J., US  
[72] BOWDEN, JENNIFER L., US  
[72] KROLL, LYNN F., US  
[72] BOTELHO, JOSEPH P., US  
[73] ALBANY INTERNATIONAL CORP., US  
[86] (2920979)  
[87] (2920979)  
[22] 2008-08-27  
[62] 2,698,120  
[30] US (11/899,232) 2007-09-05

[11] **2,921,564**

[13] C

- [51] **Int.Cl. G01D 5/26 (2006.01)**  
[25] EN  
[54] **GEO-LOCATING POSITIONS ALONG OPTICAL WAVEGUIDES**  
[54] **GEOLOCALISATION DE POSITIONS LE LONG DE GUIDES D'ONDES OPTIQUES**  
[72] BARFOOT, DAVID A., US  
[72] MCPHAIL, PAUL H., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-02-17  
[86] 2014-08-18 (PCT/US2014/051417)  
[87] (WO2015/053858)  
[30] US (14/049,330) 2013-10-09

[11] **2,921,588**

[13] C

- [51] **Int.Cl. E21B 34/02 (2006.01) F16K 3/00 (2006.01)**  
[25] EN  
[54] **BONNET AND GATE ARRANGEMENTS FOR A GATE VALVE IN PARTICULATE-LADEN FLUID ENVIRONMENTS**  
[54] **DISPOSITIONS DE CHAPEAU ET VANNE D'UN ROBINET-VANNE DESTINEES AUX ENVIRONNEMENTS DE FLUIDE CHARGE DE PARTICULES**  
[72] CHEREWYK, BORIS (BRUCE) P., CA  
[73] ISOLATION EQUIPMENT SERVICES INC., CA  
[86] (2921588)  
[87] (2921588)  
[22] 2016-02-22  
[30] US (62/118,931) 2015-02-20

[11] **2,922,173**

[13] C

- [51] **Int.Cl. A63H 27/10 (2006.01)**  
[25] EN  
[54] **SELF-SEALING BALLOONS AND RELATED COMPONENTS AND METHODS OF MANUFACTURING**  
[54] **BALLONS AUTO-OBTURANTS ET ELEMENTS ASSOCIES ET PROCEDES DE FABRICATION**  
[72] HARTER, KENDALL D., US  
[72] YAMAMOTO, JON Y., US  
[72] GOODWIN, A. SCOTT, US  
[73] KBIDC INVESTMENTS, LLC, US  
[85] 2016-02-23  
[86] 2014-08-22 (PCT/US2014/052350)  
[87] (WO2015/027187)  
[30] US (13/974,888) 2013-08-23

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[13] C

[51] **Int.Cl. G01N 21/17 (2006.01)**  
[25] EN  
[54] **METHODS FOR ASSAYING IONIC MATERIALS USING AN INTEGRATED COMPUTATIONAL ELEMENT**  
[54] **PROCEDES DE DOSAGE DE MATERIAUX IONIQUES UTILISANT UN ELEMENT DE CALCUL INTEGRE**  
[72] RUSSELL, AARON GENE, US  
[72] HAGGSTROM, JOHANNA, US  
[72] FREESE, ROBERT P., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-02-24  
[86] 2013-09-30 (PCT/US2013/062602)  
[87] (WO2015/047388)

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[13] C

[51] **Int.Cl. G10L 19/16 (2013.01) G10L 19/032 (2013.01) G10L 19/02 (2013.01) G10L 21/02 (2013.01)**  
[25] EN  
[54] **CONTEXT-BASED ARITHMETIC ENCODING APPARATUS AND METHOD AND CONTEXT-BASED ARITHMETIC DECODING APPARATUS AND METHOD**  
[54] **APPAREIL DE CODAGE ARITHMETIQUE FONDE SUR LE CONTEXTE ET METHODE, ET APPAREIL DE DECODAGE ARITHMETIQUE FONDE SUR LE CONTEXTE ET METHODE**  
[72] CHOO, KI HYUN, KR  
[72] KIM, JUNG-HOE, KR  
[72] OH, EUN MI, KR  
[73] SAMSUNG ELECTRONICS CO., LTD., KR  
[86] (2923285)  
[87] (2923285)  
[22] 2010-06-18  
[62] 2,765,863  
[30] KR (10-2009-0055113) 2009-06-19  
[30] KR (10-2009-0056301) 2009-06-24  
[30] KR (10-2009-0100457) 2009-10-21  
[30] KR (10-2009-0122733) 2009-12-10  
[30] KR (10-2010-0000281) 2010-01-04  
[30] KR (10-2010-0000643) 2010-01-05

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[11] **2,923,326**  
[13] C

[51] **Int.Cl. F02C 7/36 (2006.01)**  
[25] EN  
[54] **GEARED TURBOFAN ENGINE WITH HIGH COMPRESSOR EXIT TEMPERATURE**  
[54] **MOTEUR DOUBLE FLUX A ENGRENAGES A TEMPERATURE DE SORTIE DE COMPRESSEUR ELEVEE**  
[72] SCHWARZ, FREDERICK M., US  
[72] HASEL, KARL L., US  
[73] UNITED TECHNOLOGIES CORPORATION, US  
[86] (2923326)  
[87] (2923326)  
[22] 2016-03-08  
[30] US (14/663,727) 2015-03-20

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[11] **2,923,443**  
[13] C

[51] **Int.Cl. B05C 5/02 (2006.01) B05C 9/06 (2006.01) B05C 9/08 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR APPLYING A COATING TO A WORKPIECE**  
[54] **SYSTEME PERMETTANT D'APPLIQUER UN REVETEMENT SUR UNE PIECE**  
[72] NALIN, SEBASTIEN G., GB  
[72] HUNTZINGER, SCOTT L., US  
[73] AWI LICENSING LLC, US  
[85] 2016-03-04  
[86] 2014-09-09 (PCT/US2014/054653)  
[87] (WO2015/038492)  
[30] US (14/023,095) 2013-09-10

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[13] C

[51] **Int.Cl. G06K 9/00 (2006.01) H04N 21/234 (2011.01) H04N 21/2343 (2011.01) H04N 21/4722 (2011.01) H04N 21/4728 (2011.01) H04N 21/478 (2011.01) G06K 9/32 (2006.01)**  
[25] EN  
[54] **GENERATING ALERTS BASED UPON DETECTOR OUTPUTS**  
[54] **GENERATION D'ALERTE SUR LA BASE DE SORTIES DE DETECTEUR**  
[72] EMEOTT, STEPHEN P., US  
[72] BAUM, KEVIN L., US  
[72] GANDHI, BHAVAN, US  
[72] ISHTIAQ, FAISAL, US  
[72] OULD DELLAHY, ISSELMOU, US  
[73] ARRIS ENTERPRISES LLC, US  
[85] 2016-03-09  
[86] 2014-07-29 (PCT/US2014/048562)  
[87] (WO2015/034591)  
[30] US (61/875,683) 2013-09-09  
[30] US (14/444,934) 2014-07-28

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[11] **2,923,877**  
[13] C

[51] **Int.Cl. B28B 7/10 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR THE PRODUCTION OF MOLDED CONCRETE PARTS**  
[54] **APPAREIL DE PRODUCTION DE PIECES DE BETON MOULEES**  
[72] STICHEL, HOLGER, DE  
[72] BRAUNGARDT, JURGEN, DE  
[73] KOBRA FORMEN GMBH, DE  
[86] (2923877)  
[87] (2923877)  
[22] 2016-03-15  
[30] DE (10 2015 103 828.5) 2015-03-16

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[11] **2,923,914**

[13] C

- [51] **Int.Cl. B28B 7/10 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR THE PRODUCTION OF MOLDED CONCRETE PARTS IN A MOLDING MACHINE.**  
[54] **APPAREIL DE PRODUCTION DE PIECES DE BETON MOULEES DANS UNE MACHINE DE MOULAGE.**  
[72] STICHEL, HOLGER, DE  
[72] BRAUNGARDT, JURGEN, DE  
[73] KOBRA FORMEN GMBH, DE  
[86] (2923914)  
[87] (2923914)  
[22] 2016-03-16  
[30] DE (10 2015 103 829.3) 2015-03-16

[11] **2,924,636**

[13] C

- [51] **Int.Cl. E21B 21/01 (2006.01) E21B 21/08 (2006.01)**  
[25] EN  
[54] **SURFACE TREATED LOST CIRCULATION MATERIAL**  
[54] **MATERIAU COLMATANT TRAITE EN SURFACE**  
[72] SAVARI, SHARATH, US  
[72] REDDY, B. RAGHAVA, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-03-17  
[86] 2013-10-18 (PCT/US2013/065702)  
[87] (WO2015/057244)

[11] **2,924,896**

[13] C

- [51] **Int.Cl. B65G 15/00 (2006.01)**  
[25] EN  
[54] **CONVEYING DEVICE**  
[54] **DISPOSITIF TRANSPORTEUR**  
[72] ITOH, TERUAKI, JP  
[73] AOI SEIKI CO., LTD., JP  
[86] (2924896)  
[87] (2924896)  
[22] 2016-03-23  
[30] JP (2015-072929) 2015-03-31

[11] **2,924,935**

[13] C

- [51] **Int.Cl. H04W 24/02 (2009.01)**  
[25] EN  
[54] **COMMUNICATIONS SYSTEM, CONTROL APPARATUS, AND NETWORK MANAGEMENT SERVER**  
[54] **SYSTEME DE COMMUNICATION, APPAREIL DE COMMANDE ET SERVEUR DE GESTION DE RESEAU**  
[72] CHEN, SHENGXIAN, CN  
[72] LAI, ZHICHANG, CN  
[72] WANG, ZIQIANG, CN  
[72] CAO, WENLI, CN  
[72] LIU, TAO, CN  
[72] CAO, WEI, CN  
[73] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2016-03-21  
[86] 2013-09-23 (PCT/CN2013/083995)  
[87] (WO2015/039347)

[11] **2,925,200**

[13] C

- [51] **Int.Cl. H01M 8/02 (2016.01)**  
[25] EN  
[54] **FUEL CELL WITH ELECTROLYTIC CORROSION INHIBITING PORTION**  
[54] **PILE A COMBUSTIBLE DOTEE D'UNE PORTION EMPECHANT LA CORROSION ELECTROLYTIQUE**  
[72] OKABE, HIROKI, JP  
[72] SATO, KENJI, JP  
[72] KURIHARA, TAKUYA, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[85] 2016-03-23  
[86] 2014-09-25 (PCT/IB2014/002127)  
[87] (WO2015/044774)  
[30] JP (2013-201385) 2013-09-27

[11] **2,925,470**

[13] C

- [51] **Int.Cl. C09K 8/00 (2006.01) E21B 21/00 (2006.01) E21B 43/22 (2006.01)**  
[25] EN  
[54] **WELLBORE FLUID ADDITIVES OF FIBRILLATED FIBERS**  
[54] **ADDITIFS POUR FLUIDE DE FORAGE A BASE DE FIBRES FIBRILLEES**  
[72] GALINDO, KAY A., US  
[72] MILLER, MATTHEW L., US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-03-24  
[86] 2013-11-05 (PCT/US2013/068601)  
[87] (WO2015/069229)

[11] **2,925,611**

[13] C

- [51] **Int.Cl. A61F 2/02 (2006.01) A61B 17/00 (2006.01)**  
[25] EN  
[54] **FIXATING MEANS BETWEEN A MESH AND MESH DEPLOYMENT MEANS ESPECIALLY USEFUL FOR HERNIA REPAIR SURGERIES AND METHODS THEREOF**  
[54] **MOYENS DE FIXATION ENTRE UNE MAILLE ET DES MOYENS DE DEPLOIEMENT D'UNE MAILLE, UTILES NOTAMMENT POUR LES CHIRURGIES DE REPARATION DES HERNIES ET PROCEDES ASSOCIES**  
[72] SHOLEV, MORDEHAI, IL  
[72] ZAJDMAN, RUTH, IL  
[72] BEN-NUN, ITAY, IL  
[73] DAVOL INC., US  
[86] (2925611)  
[87] (2925611)  
[22] 2008-10-22  
[62] 2,702,882  
[30] US (60/960,860) 2007-10-17

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[13] C

[51] **Int.Cl. E21B 47/117 (2012.01) E21B 49/00 (2006.01)**

[25] EN

[54] **DISPLACEMENT MEASUREMENT CEMENT TESTING**

[54] **TEST DU CIMENT PAR MESURE DE DEPLACEMENT**

[72] MATTHEWS, KENNETH HEIDT, US

[72] JONES, JAMES ROBERT, US

[72] BHIDASNA, KETAN CHIMANLAL, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2016-04-08

[86] 2013-11-12 (PCT/US2013/069603)

[87] (WO2015/072966)

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[11] **2,927,333**  
[13] C

[51] **Int.Cl. A47F 5/00 (2006.01) A47B 96/02 (2006.01)**

[25] EN

[54] **SHELF STRUCTURE FOR A MERCHANDISER**

[54] **STRUCTURE D'ETAGERE POUR UN PRESENTOIR GEANT**

[72] LAMONTAGNE, RICK M., US

[72] WIND, TOM, US

[73] HUSSMANN CORPORATION, US

[86] (2927333)

[87] (2927333)

[22] 2014-03-12

[62] 2,846,191

[30] US (61/777,915) 2013-03-12

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[11] **2,927,400**  
[13] C

[51] **Int.Cl. E21B 29/02 (2006.01) E21B 23/00 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **ISOLATION DEVICE CONTAINING A DISSOLVABLE ANODE AND ELECTROLYTIC COMPOUND**

[54] **DISPOSITIF D'ISOLEMENT CONTENANT UNE ANODE DISSOLUBLE ET UN COMPOSE ELECTROLYTIQUE**

[72] FRIPP, MICHAEL L., US

[72] WALTON, ZACHARY W., US

[72] MURPHREE, ZACHARY R., US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2016-04-13

[86] 2014-12-03 (PCT/US2014/068372)

[87] (WO2015/108627)

[30] US (14/154,596) 2014-01-14

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[11] **2,927,706**  
[13] C

[51] **Int.Cl. C07F 5/04 (2006.01) C07C 231/12 (2006.01) C07C 237/46 (2006.01) C07F 5/02 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF IOPAMIDOL**

[54] **PROCEDE DE PREPARATION D'IOPAMIDOL**

[72] BATTISTINI, ELISA, IT

[72] BUONSANTI, FEDERICA, IT

[72] IMPERIO, DANIELA, IT

[72] LATTUADA, LUCIANO, IT

[72] NAPOLITANO, ROBERTA, IT

[73] BRACCO IMAGING SPA, IT

[85] 2016-04-15

[86] 2014-11-04 (PCT/EP2014/073692)

[87] (WO2015/067601)

[30] EP (13191551.4) 2013-11-05

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[11] **2,927,746**  
[13] C

[51] **Int.Cl. E21B 19/16 (2006.01) E21B 17/01 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **FRICTION AND WEAR REDUCTION OF DOWNHOLE TUBULARS USING GRAPHENE**

[54] **REDUCTION DE FROTTEMENT ET D'USURE DE TUBULAIRES DE FOND DE TROU EN UTILISANT DU GRAPHENE**

[72] SAMUEL, ROBELLO, US

[72] ANIKET, NFN, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2016-04-15

[86] 2013-11-21 (PCT/US2013/071317)

[87] (WO2015/076813)

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[11] **2,927,975**  
[13] C

[51] **Int.Cl. B60P 7/04 (2006.01) B62D 33/04 (2006.01)**

[25] EN

[54] **ROLL-UP TONNEAU COVER HAVING A TENSIONING MECHANISM AND A SIDEWAYS LATCH**

[54] **COUVERCLE DE TONNEAU ROULE COMPORTANT UN MECANISME TENDEUR ET UN VERROU LATERAL**

[72] WILLIAMSON, SCOTT, US

[72] KOSINSKI, DAVID, US

[72] YANG, MICHAEL, US

[72] YAN, XICHANG, CN

[72] TONG, JIANFENG, CN

[72] WEI, CHENGPING, CN

[73] RUGGED LINER, INC., US

[73] BEYOND INDUSTRIES (NANJING) LIMITED, CN

[86] (2927975)

[87] (2927975)

[22] 2016-04-22

[30] CN (201510195963.6) 2015-04-23

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[11] **2,928,673**  
[13] C

[51] **Int.Cl. B65H 3/06 (2006.01) B65H 27/00 (2006.01)**

[25] EN

[54] **TRANSPORT MODULE FOR FLAT ITEMS**

[54] **MODULE DE TRANSPORT D'ARTICLES PLATS**

[72] MUHL, WOLFGANG, DE

[73] FRANCOTYP-POSTALIA GMBH, DE

[86] (2928673)

[87] (2928673)

[22] 2016-05-03

[30] DE (20 2015 102 333.2) 2015-05-07

[30] DE (20 2016 101 920.6) 2016-04-12

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29 mai 2018**

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[11] **2,928,743**  
[13] C

[51] **Int.Cl. F16L 19/08 (2006.01) F16L 21/06 (2006.01) F16L 37/00 (2006.01) F16L 39/04 (2006.01)**

[25] EN  
[54] **PUSH-TO-CONNECT FITTING**  
[54] **RACCORD INSTANTANE**  
[72] BOBO, DAVID, US  
[72] PHELPS, DAVID, US  
[72] LAFORTUNE, JAMES, US  
[72] OLDSSEN, DEREK, US  
[73] NIBCO INC., US  
[85] 2016-04-25  
[86] 2014-12-10 (PCT/US2014/069513)  
[87] (WO2015/089167)  
[30] US (61/914,522) 2013-12-11  
[30] US (14/564,271) 2014-12-09

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[11] **2,928,973**  
[13] C

[51] **Int.Cl. F01D 25/20 (2006.01) F02C 7/06 (2006.01)**

[25] EN  
[54] **LUBRICATION SYSTEM FOR A TURBINE ENGINE**  
[54] **SYSTEME DE LUBRIFICATION DESTINE A UNE TURBINE A GAZ**  
[72] FANG, NING CHARLES, US  
[72] BRADLEY, DONALD ALBERT, US  
[72] VAN DER MERWE, GERT J., US  
[73] GENERAL ELECTRIC COMPANY, US  
[86] (2928973)  
[87] (2928973)  
[22] 2016-05-05  
[30] US (14/715,717) 2015-05-19

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[11] **2,930,258**  
[13] C

[51] **Int.Cl. A01D 34/47 (2006.01)**

[25] EN  
[54] **HAND PUSHED LAWN MOWER**  
[54] **TONDEUSE A GAZON PUSSEE MANUELLEMENT**  
[72] YAMAOKA, TOSHINARI, CN  
[72] NIE, FANGJIE, CN  
[72] XU, HAISHEN, CN  
[73] CHERVON (HK) LIMITED, HK  
[86] (2930258)  
[87] (2930258)  
[22] 2016-05-13  
[30] CN (201510260935.8) 2015-05-20  
[30] US (15/153,066) 2016-05-12

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[11] **2,928,854**  
[13] C

[51] **Int.Cl. D21F 7/08 (2006.01)**

[25] EN  
[54] **MULTIAXIAL FABRIC HAVING REDUCED INTERFERENCE PATTERN**  
[54] **TISSU MULTIAXIAL PRESENTANT UN MODELE D'INTERFERENCE REDUIT**  
[72] HAWES, JOHN M., US  
[72] KORNETT, GLENN, US  
[72] RYDIN, BJORN, SE  
[72] QUIGLEY, SCOTT, US  
[72] ROYO, MICHAEL A., US  
[72] DONOVAN, JAMES G., US  
[72] YOOK, STEVEN, US  
[73] ALBANY INTERNATIONAL CORP., US  
[86] (2928854)  
[87] (2928854)  
[22] 2006-04-20  
[62] 2,871,861  
[30] US (11/116,516) 2005-04-28

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[11] **2,929,374**  
[13] C

[51] **Int.Cl. E21B 47/12 (2012.01) G06K 19/077 (2006.01)**

[25] EN  
[54] **METHODS AND APPARATUS FOR EVALUATING DOWNHOLE CONDITIONS WITH RFID MEMS SENSORS**  
[54] **PROCEDES ET APPAREIL POUR L'EVALUATION DE CONDITIONS DE FOND DE Puits COMPRENANT DES CAPTEURS DE SYSTEME MICROELECTRONIQUE (MEMS) RFID**  
[72] ROBERSON, MARK W., US  
[72] RODDY, CRAIG W., US  
[72] BARTEE, CHARLES, US  
[72] MCGUIRE, KRISTOPHER, US  
[72] RAVI, KRISHNA M., US  
[72] ROTHROCK, GINGER, US  
[72] GOODWIN, SCOTT, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-05-02  
[86] 2014-12-11 (PCT/US2014/069699)  
[87] (WO2015/102838)  
[30] US (14/145,524) 2013-12-31

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[13] C

[51] **Int.Cl. E21B 7/08 (2006.01) E21B 23/14 (2006.01)**

[25] EN  
[54] **CLOSED-LOOP SPEED/POSITION CONTROL MECHANISM**  
[54] **MECANISME DE COMMANDE DE VITESSE/POSITION EN BOUCLE FERMEE**  
[72] DEOLALIKAR, NEELESH V., US  
[72] WINSLOW, DANIEL, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-05-18  
[86] 2014-02-20 (PCT/US2014/017397)  
[87] (WO2015/126399)

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[13] C  
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4745 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 9/10 (2006.01) A61P 35/00 (2006.01) C07D 471/14 (2006.01)**  
[25] EN  
[54] **IMIDAZOLONE DERIVATIVES, PHARMCEUTICAL COMPOSITIONS AND USES THEREOF**  
[54] **DERIVES D'IMIDAZOLONE, COMPOSITIONS PHARMACEUTIQUES ET UTILISATIONS ASSOCIEES**  
[72] ZHANG, XINGMIN, CN  
[72] JI, QI, CN  
[72] WANG, LEI, CN  
[72] GAO, CONGMIN, CN  
[72] WANG, ENSI, CN  
[72] DU, ZHENJIAN, CN  
[72] GONG, LONGLONG, CN  
[72] CHEN, BO, CN  
[73] BEIJING FORELANDPHARMA CO. LTD., CN  
[85] 2016-05-19  
[86] 2014-11-14 (PCT/CN2014/091138)  
[87] (WO2015/074516)  
[30] CN (201310589080.4) 2013-11-20

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[13] C  
[51] **Int.Cl. B64D 11/00 (2006.01) B60R 5/00 (2006.01) B64C 1/22 (2006.01)**  
[25] EN  
[54] **PIVOT BIN ASSEMBLY**  
[54] **ENSEMBLE COMPARTIMENT A BAGAGES A PIVOT**  
[72] SAVIAN, SCOTT, US  
[72] KEARSEY, STEPHEN, GB  
[72] WILLIAMS, COREY, US  
[73] C&D ZODIAC, INC., US  
[86] (2931576)  
[87] (2931576)  
[22] 2014-02-13  
[62] 2,898,647  
[30] US (14/179,494) 2014-02-12  
[30] US (13/765,652) 2013-02-12  
[30] US (61/764,503) 2013-02-13  
[30] US (61/835,896) 2013-06-17  
[30] US (61/809,281) 2013-04-05

[11] 2,931,655  
[13] C  
[51] **Int.Cl. A47L 13/16 (2006.01) A47L 1/15 (2006.01) A47L 13/20 (2006.01) A47L 13/46 (2006.01)**  
[25] EN  
[54] **MULTI-PURPOSE CLEANING IMPLEMENT**  
[54] **OUTIL DE NETTOYAGE POLYVALENT**  
[72] JAMES, ADRIAN BENTON, US  
[72] WHITE, BRYAN THOMAS, US  
[72] SHAWVER, MICHAEL JOSEPH, US  
[72] VERBIEST, JAN HENDRIK MARIA, US  
[72] PANKRATZ, VIRGINIA, US  
[72] HOFTE, PAULUS ANTONIUS AUGUSTINUS, BE  
[73] THE PROCTER & GAMBLE COMPANY, US  
[86] (2931655)  
[87] (2931655)  
[22] 2004-09-03  
[62] 2,834,461  
[30] US (60/562,000) 2004-04-13  
[30] US (60/499,852) 2003-09-03

[11] 2,933,140  
[13] C  
[51] **Int.Cl. B65D 21/032 (2006.01)**  
[25] FR  
[54] **STACKABLE BOTTLE WITH DOUBLE HANDLE AND OVERSIZED NECK**  
[54] **BOUEILLE EMPILABLE A DOUBLE POIGNEE A GOULOT SURDIMENSIONNE**  
[72] AUBIN, REGENT, CA  
[73] AUBIN, REGENT, CA  
[86] (2933140)  
[87] (2933140)  
[22] 2016-06-15

[11] 2,933,912  
[13] C  
[51] **Int.Cl. A61C 17/34 (2006.01) A46B 9/04 (2006.01)**  
[25] EN  
[54] **BRUSH HEAD FOR AN ELECTRIC TOOTHBRUSH**  
[54] **TETE DE BROSE POUR BROSE A DENTS ELECTRIQUE**  
[72] DICKIE, ROBERT G., CA  
[72] NABAVI, SHAHRAM, CA  
[73] RANIR, LLC, US  
[85] 2016-06-15  
[86] 2013-12-17 (PCT/CA2013/050973)  
[87] (WO2014/094152)  
[30] US (61/739,937) 2012-12-20  
[30] US (13/769,667) 2013-02-18

[11] 2,935,782  
[13] C  
[51] **Int.Cl. G09G 3/20 (2006.01) G06F 3/041 (2006.01)**  
[25] EN  
[54] **DISPLAYS WITH INTRA-FRAME PAUSE**  
[54] **AFFICHAGES AVEC PAUSE ENTRE TRAMES**  
[72] LIN, CHIN-WEI, US  
[72] HUANG, CHUN-YAO, US  
[72] CHANG, SHIH CHANG, US  
[72] LEE, SZU-HSIEN, US  
[73] APPLE INC., US  
[85] 2016-06-30  
[86] 2015-01-09 (PCT/US2015/010751)  
[87] (WO2015/119741)  
[30] US (61/935,772) 2014-02-04  
[30] US (14/489,338) 2014-09-17

[11] 2,936,321  
[13] C  
[51] **Int.Cl. H01M 8/10 (2016.01) H01M 8/02 (2016.01) H01M 8/04 (2016.01) H01M 8/24 (2016.01)**  
[25] EN  
[54] **FUEL CELL WITH IMPROVED WATER DISCHARGE**  
[54] **PILE A COMBUSTIBLE A EVACUATION D'EAU AMELIOREE**  
[72] KUBO, HIDEKI, JP  
[72] OKABE, HIROKI, JP  
[72] KONDO, TAKASHI, JP  
[72] IDA, ATSUSHI, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[85] 2016-07-08  
[86] 2015-01-06 (PCT/IB2015/000060)  
[87] (WO2015/107418)  
[30] JP (2014-004942) 2014-01-15

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[25] EN

[54] **MOVABLE RACK ASSEMBLY WITH CORNER SPRAY NOZZLES**

[54] **ENSEMBLE PANIER MOBILE AVEC BUSES DE PULVERISATION EN ANGLE**

[72] VOYER, GUILLAUME, CA  
[72] PARENT, GHISLAIN, CA  
[73] STERIS INC., US  
[85] 2016-07-14  
[86] 2015-01-26 (PCT/US2015/012819)  
[87] (WO2015/130418)  
[30] US (61/945,441) 2014-02-27  
[30] US (14/603,542) 2015-01-23

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[11] **2,938,118**  
[13] C

[51] **Int.Cl. B60R 21/34 (2011.01)**

[25] EN

[54] **LATERAL ACCESS LIMITATION SYSTEM FOR A VEHICLE**

[54] **SYSTEME DE LIMITATION D'ACCES LATERAL DESTINE A UN VEHICULE**

[72] NELSON, JOSEPH D., US  
[72] MEYERS, TROY L., US  
[72] DEINEMA, MATTHEW P., US  
[73] OSHKOSH CORPORATION, US  
[86] (2938118)  
[87] (2938118)  
[22] 2016-08-04  
[30] US (62/201,983) 2015-08-06

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[11] **2,938,331**  
[13] C

[51] **Int.Cl. F24H 1/10 (2006.01) F24H 9/18 (2006.01)**

[25] EN

[54] **COIL TUBE HEAT EXCHANGER FOR A TANKLESS HOT WATER SYSTEM**

[54] **ECHANGEUR DE CHALEUR A TUBE SPIRALE DESTINE A UN SYSTEME D'EAU CHAUDE SANS RESERVOIR**

[72] DEIVASIGAMANI, SRIDHAR, US  
[72] AKASAM, SIVAPRASAD, US  
[73] DEIVASIGAMANI, SRIDHAR, US  
[73] AKASAM, SIVAPRASAD, US  
[86] (2938331)  
[87] (2938331)  
[22] 2010-08-18  
[62] 2,770,190  
[30] US (61/234,710) 2009-08-18  
[30] US (12/858,101) 2010-08-17

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[11] **2,938,777**  
[13] C

[51] **Int.Cl. B23D 57/02 (2006.01)**

[25] EN

[54] **CHAIN SAW**

[54] **SCIE A CHAINE**

[72] NIE, FANGJIE, CN  
[72] FU, HUIXING, CN  
[72] CHANG, WEN, CN  
[73] CHERVON (HK) LIMITED, HK  
[86] (2938777)  
[87] (2938777)  
[22] 2016-08-12  
[30] CN (201510502273.0) 2015-08-14  
[30] US (15/234,509) 2016-08-11

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[11] **2,939,347**  
[13] C

[51] **Int.Cl. B01D 61/42 (2006.01)**

[25] EN

[54] **CROSS-FLOW ELECTROCHEMICAL SEPARATION DEVICES AND METHODS OF ASSEMBLING SAME**

[54] **DISPOSITIFS DE SEPARATION ELECTROCHIMIQUE A FLUX TRANSVERSAL ET LEURS PROCEDES D'ASSEMBLAGE**

[72] LIANG, LI-SHIANG, US  
[72] YEO, KENG HOO, SG  
[72] LEOW HWEE TENG, VIVIAN, SG  
[72] TAN, CHIN HIANG, SG  
[72] GIFFORD, JOSEPH D., US  
[73] EVOQUA WATER TECHNOLOGIES LLC, US  
[85] 2016-08-11  
[86] 2015-04-02 (PCT/US2015/024089)  
[87] (WO2015/153885)  
[30] US (61/974,027) 2014-04-02

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[11] **2,939,645**  
[13] C

[51] **Int.Cl. A41C 1/14 (2006.01) A41C 1/00 (2006.01) A41C 1/06 (2006.01) A41C 3/00 (2006.01) A41C 3/12 (2006.01)**

[25] EN

[54] **GARMENT WITH BACK STAYS FOR ENHANCED FIT**

[54] **VETEMENT A CORSET ARRIERE POUR UNE MEILLEURE TENUE**

[72] ANGELINO, ANTHONY, US  
[72] WELSCH, DAVID, US  
[72] MILLER, NANCY S., US  
[72] ABURTO, JENNIE M., US  
[73] CUPID FOUNDATIONS, INC., US  
[85] 2016-08-12  
[86] 2015-02-25 (PCT/US2015/017486)  
[87] (WO2015/130761)  
[30] US (61/946,260) 2014-02-28

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[51] **Int.Cl. B60G 21/055 (2006.01) B21D 39/00 (2006.01) B21D 53/88 (2006.01) F16B 4/00 (2006.01) F16B 7/14 (2006.01)**

[25] EN

[54] **STRUCTURE OF SEMI-FINISHED PRODUCT FOR MOVEMENT RESTRICTION MEMBER, APPARATUS FOR ATTACHING SEMI-FINISHED PRODUCT TO BAR MEMBER, STRUCTURE FOR ATTACHMENT OF SEMI-FINISHED PRODUCT AND BAR MEMBER, AND METHOD OF ATTACHING SEMI-FINISHED PRODUCT**

[54] **STRUCTURE D'ELEMENT DE RESTRICTION DE MOUVEMENT SEMI-FINI, APPAREIL DE FIXATION DE PRODUIT SEMI-FINI A L'ELEMENT TIGE, STRUCTURE DE FIXATION POUR ELEMENT TIGE ET PRODUIT SEMI-FINI, ET PROCEDE DE FIXATION DE PRODUIT SEMI-FINI**

[72] KATSUNO, KENJI, JP

[73] NHK SPRING PRODUCTION COMPANY, JP

[73] NHK SPRING CO., LTD., JP

[85] 2016-08-15

[86] 2014-12-08 (PCT/JP2014/082453)

[87] (WO2015/125381)

[30] JP (2014-028712) 2014-02-18

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[11] **2,941,952**  
[13] C

[51] **Int.Cl. E06B 9/324 (2006.01)**

[25] EN

[54] **CORD LOCK OF WINDOW COVERING**

[54] **BLOCAGE DE CORDON DESTINE A UNE PARURE DE FENETRE**

[72] CHANG, CHIH-YAO, TW

[73] NIEN MADE ENTERPRISE CO., LTD., CN

[86] (2941952)

[87] (2941952)

[22] 2016-09-15

[30] CN (201520755679.5) 2015-09-28

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[11] **2,941,995**  
[13] C

[51] **Int.Cl. G01V 3/08 (2006.01) G01R 29/08 (2006.01)**

[25] EN

[54] **SYSTEM FOR ACQUIRING AND PROCESSING ELECTRIC FIELD SIGNALS RELATING TO SUBSURFACE GEOLOGIC STRUCTURES**

[54] **SYSTEME D'ACQUISITION ET DE TRAITEMENT DE SIGNAUX DE CHAMP ELECTRIQUE ASSOCIES AUX STRUCTURES GEOLOGIQUES EN SOUS-SURFACE**

[72] GOLDAK, DAVID KELSEY, CA

[73] EMPULSE GEOPHYSICS LTD., CA

[86] (2941995)

[87] (2941995)

[22] 2016-09-15

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[11] **2,942,456**  
[13] C

[51] **Int.Cl. B25B 25/00 (2006.01) B21D 39/03 (2006.01) B65B 13/02 (2006.01) B65B 13/34 (2006.01)**

[25] EN

[54] **TOOL FOR MOUNTING A TENSION CLAMP**

[54] **OUTIL POUR FIXER UN COLLIER DE SERRAGE**

[72] SEELOS, ROBERT, CH

[72] DE VITTORI, NELSON, CH

[72] STEINER, PETER, CH

[73] OETIKER SCHWEIZ AG, CH

[85] 2016-09-12

[86] 2015-12-16 (PCT/EP2015/079988)

[87] (WO2016/096983)

[30] EP (PCT/EP2014/078344) 2014-12-17

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[11] **2,942,727**  
[13] C

[51] **Int.Cl. A43B 13/14 (2006.01) A43B 3/00 (2006.01) A43B 13/00 (2006.01) A43B 23/00 (2006.01)**

[25] EN

[54] **SHOE PAIR WITH POSITION INDICATOR ASSEMBLY**

[54] **PAIRE DE CHAUSSURES AYANT UN ENSEMBLE INDICATEUR DE POSITIONNEMENT**

[72] LEGG, LINDSEY, US

[72] SOTO, ALYSSA, US

[72] WILKINS, EARL, US

[73] PAIRME PRODUCTS, LLC, US

[85] 2016-09-13

[86] 2015-03-30 (PCT/US2015/023342)

[87] (WO2015/153460)

[30] US (62/071,936) 2014-03-31

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[11] **2,943,125**  
[13] C

[51] **Int.Cl. B29C 70/18 (2006.01)**

[25] EN

[54] **MULTIPLE-RESIN COMPOSITE STRUCTURES AND METHODS OF PRODUCING THE SAME**

[54] **STRUCTURES COMPOSITES A RESINES MULTIPLES ET LEURS PROCEDES DE PRODUCTION**

[72] HENRY, CHRISTOPHER P., US

[73] THE BOEING COMPANY, US

[86] (2943125)

[87] (2943125)

[22] 2013-05-09

[62] 2,815,521

[30] US (13/524224) 2012-06-15



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[13] C

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[25] EN  
[54] **CONTAINER WITH SYNTHETIC RESIN WINDOW, PREFORM, AND PREFORM INJECTION MOLDING APPARATUS**  
[54] **RECIPIENT POURVU D'UNE FENETRE EN RESINE SYNTHETIQUE, PREFORME ET APPAREIL DE MOULAGE PAR INJECTION DE PREFORMES**  
[72] SOYAMA, HIDEAKI, JP  
[72] ISHII, YUSUKE, JP  
[73] YOSHINO KOGYOSHO CO., LTD., JP  
[86] (2943438)  
[87] (2943438)  
[22] 2013-11-30  
[62] 2,893,024  
[30] JP (2012-263131) 2012-11-30

[11] **2,943,595**  
[13] C

- [51] **Int.Cl. E21B 33/05 (2006.01) E21B 33/16 (2006.01)**  
[25] EN  
[54] **CEMENT HEAD SYSTEM AND METHOD FOR OPERATING A CEMENT HEAD SYSTEM**  
[54] **SYSTEME DE TETE DE CIMENTAGE ET PROCEDE DE COMMANDE D'UN SYSTEME DE TETE DE CIMENTAGE**  
[72] ROGOZINSKI, NICOLAS A., US  
[72] ROGERS, HENRY E., US  
[72] STANDIFER, PHILLIP D., US  
[72] MAKOWIECKI, GARY, US  
[73] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2016-09-22  
[86] 2014-05-05 (PCT/US2014/036816)  
[87] (WO2015/171112)

[11] **2,943,763**  
[13] C

- [51] **Int.Cl. E21B 33/08 (2006.01) E21B 33/06 (2006.01) E21B 33/068 (2006.01)**  
[25] EN  
[54] **DRILLING STRIPPING ELEMENT**  
[54] **ELEMENT D'ENLEVEMENT DE FORAGE**  
[72] BOYD, MICHAEL, CA  
[72] BARABASH, ANDREW, CA  
[72] MASTERS, STEPHEN D., CA  
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[85] 2016-09-28  
[86] 2015-07-09 (PCT/IB2015/001690)  
[87] (WO2016/207685)  
[30] US (62/185,557) 2015-06-26

[11] **2,947,514**  
[13] C

- [51] **Int.Cl. G06Q 20/14 (2012.01) G06Q 20/20 (2012.01) G06Q 20/38 (2012.01)**  
[25] EN  
[54] **PAYMENT CONFIRMATION SYSTEM AND METHOD**  
[54] **SYSTEME ET METHODE DE CONFIRMATION DE PAIEMENT**  
[72] DE VILLIERS, DAVID, ZA  
[73] GELLINER LIMITED, GB  
[86] (2947514)  
[87] (2947514)  
[22] 2016-11-04  
[30] GB (1520267.4) 2015-11-17

[11] **2,948,984**  
[13] C

- [51] **Int.Cl. B63H 5/125 (2006.01) F16J 15/00 (2006.01)**  
[25] EN  
[54] **SLEWING SEAL ARRANGEMENT FOR A PROPULSION UNIT**  
[54] **AGENCEMENT DE JOINT D'ETANCHEITE PIVOTANT POUR PROPULSEUR**  
[72] KARILA, KAI, FI  
[72] KIISKILA, JUSSI, FI  
[72] KORTELAINEN, VILLE, FI  
[72] RONKAINEN, ERKKI, FI  
[72] TAMMINEN, TERO, FI  
[73] ABB OY, FI  
[85] 2016-11-14  
[86] 2015-05-12 (PCT/FI2015/050320)  
[87] (WO2015/173471)  
[30] EP (14168086.8) 2014-05-13

[11] **2,949,825**  
[13] C

- [51] **Int.Cl. G01N 1/28 (2006.01)**  
[25] EN  
[54] **DENSITY PHASE SEPARATION DEVICE**  
[54] **DISPOSITIF DE SEPARATION DE PHASES PAR DENSITE**  
[72] CRAWFORD, JAMIESON W., US  
[72] ATTRI, RAVI, US  
[72] BATTLES, CHRISTOPHER A., US  
[72] HIRES, GREGORY R., US  
[72] BARTFELD, BENJAMIN, US  
[73] BECTON, DICKINSON AND COMPANY, US  
[86] (2949825)  
[87] (2949825)  
[22] 2010-05-14  
[62] 2,762,131  
[30] US (61/178,599) 2009-05-15

[11] **2,950,815**  
[13] C

- [51] **Int.Cl. G01S 7/02 (2006.01) G01S 7/04 (2006.01)**  
[25] EN  
[54] **LOW-COST, HIGH-PERFORMANCE RADAR NETWORKS**  
[54] **RESEAUX DE RADAR A FAIBLE COUT ET A RENDEMENT ELEVE**  
[72] NOHARA, TIMOTHY J., CA  
[72] PREMJI, AL-NASIR, CA  
[72] UKRAINEC, ANDREW M., CA  
[72] WEBER, PETER T., CA  
[72] JONES, GRAEME S., CA  
[72] KRASNOR, CARL E., CA  
[73] ACCIPITER RADAR TECHNOLOGIES INC., CA  
[86] (2950815)  
[87] (2950815)  
[22] 2005-04-20  
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[13] C

[51] **Int.Cl. B23K 9/09 (2006.01) B23K 9/073 (2006.01) B23K 9/12 (2006.01) B23K 9/173 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING WIRE FEED SPEED**

[54] **SYSTEME ET PROCEDE POUR COMMANDER LA VITESSE D'ENTRAINEMENT DU FIL**

[72] HUTCHISON, RICHARD MARTIN, US

[73] ILLINOIS TOOL WORKS INC., US

[85] 2016-12-14

[86] 2014-07-09 (PCT/US2014/045873)

[87] (WO2015/199739)

[30] US (14/314,981) 2014-06-25

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[13] C

[51] **Int.Cl. B65D 51/16 (2006.01)**

[25] EN

[54] **VENTED CONTAINER END CLOSURE**

[54] **FERMETURE D'EXTREMITE DE RECIPIENT MISE A L'AIR LIBRE**

[72] CHASTEEN, HOWARD C., US

[72] JACOBBER, MARK A., US

[73] BALL CORPORATION, US

[85] 2017-01-27

[86] 2015-07-29 (PCT/US2015/042579)

[87] (WO2016/018977)

[30] US (62/030,736) 2014-07-30

[30] US (62/152,577) 2015-04-24

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[11] **2,959,725**  
[13] C

[51] **Int.Cl. B60T 17/16 (2006.01)**

[25] EN

[54] **AUTOMATIC PARKING BRAKE FOR BODY MOUNTED BRAKE CYLINDER**

[54] **FREIN DE STATIONNEMENT AUTOMATIQUE POUR CYLINDRE DE FREIN MONTE SUR CARROSSERIE**

[72] HUBER, HOWARD, JR., US

[72] NEULIEB, ROBERT, US

[73] NEW YORK AIR BRAKE LLC, US

[85] 2017-03-01

[86] 2015-09-02 (PCT/US2015/048051)

[87] (WO2016/036798)

[30] US (62/044,696) 2014-09-02

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[11] **2,963,355**  
[13] C

[51] **Int.Cl. B07C 3/18 (2006.01) G06Q 10/08 (2012.01) B65G 1/00 (2006.01)**

[25] FR

[54] **LOGISTICS FACILITY WITH PARCEL TRANSPORT SHUTTLES AND PORTABLE DEVICES FOR IDENTIFYING PARCELS**

[54] **INSTALLATION LOGISTIQUE AVEC DES NAVETTES DE TRANSPORT DE COLIS ET DES EQUIPEMENTS PORTATIFS D'IDENTIFICATION DES COLIS**

[72] MIETTE, EMMANUEL, FR

[72] CHIROL, LUC, FR

[73] SOLYSTIC, FR

[85] 2017-03-31

[86] 2015-09-15 (PCT/FR2015/052470)

[87] (WO2016/059314)

[30] FR (1459806) 2014-10-13

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[11] **2,964,016**  
[13] C

[51] **Int.Cl. B24C 1/08 (2006.01) B08B 5/00 (2006.01) B08B 7/04 (2006.01)**

[25] EN

[54] **ICE BLASTING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT PAR PROJECTION DE GLACE**

[72] COULSON, FOSTER, CA

[73] COULSON ICE BLAST LTD., CA

[85] 2017-04-11

[86] 2017-01-27 (PCT/CA2017/050093)

[87] (2964016)

[30] US (62/292,999) 2016-02-09

[30] US (62/294,161) 2016-02-11

[30] US (62/294,710) 2016-02-12

[30] US (62/287,742) 2016-01-27

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[11] **2,965,130**  
[13] C

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 17/10 (2006.01) F04B 47/06 (2006.01) F04D 13/08 (2006.01)**

[25] EN

[54] **SUBMERSIBLE PUMP STABILIZATION**

[54] **STABILISATION DE POMPE SUBMERSIBLE**

[72] WATT, ALAN, CA

[73] SUNCOR ENERGY INC., CA

[86] (2965130)

[87] (2965130)

[22] 2014-04-23

[62] 2,849,685

[30] US (61/815,213) 2013-04-23

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[11] **2,964,781**  
[13] C

[51] **Int.Cl. H05H 1/26 (2006.01) C23C 16/513 (2006.01) C23F 4/02 (2006.01)**

[25] EN

[54] **PLASMA APPARATUS**

[54] **APPAREIL AU PLASMA**

[72] YOSHIMURA, TAKUYA, JP

[72] KOIZUMI, MASAFUMI, JP

[72] IDE, KOTARO, JP

[72] ASHITAKA, YU, JP

[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP

[86] (2964781)

[87] (2964781)

[22] 2017-04-20

[30] JP (2016-086809) 2016-04-25

[30] JP (2016-116778) 2016-06-13

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[11] **2,965,130**  
[13] C

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 17/10 (2006.01) F04B 47/06 (2006.01) F04D 13/08 (2006.01)**

[25] EN

[54] **SUBMERSIBLE PUMP STABILIZATION**

[54] **STABILISATION DE POMPE SUBMERSIBLE**

[72] WATT, ALAN, CA

[73] SUNCOR ENERGY INC., CA

[86] (2965130)

[87] (2965130)

[22] 2014-04-23

[62] 2,849,685

[30] US (61/815,213) 2013-04-23

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[11] **2,966,458**  
[13] C

[51] **Int.Cl. E04G 23/02 (2006.01) E04B 1/74 (2006.01) E04F 13/00 (2006.01) E04G 21/00 (2006.01)**

[25] EN

[54] **METHOD OF RETROFITTING A BUILDING**

[54] **METHODE DE RATRAPAGE D'UN IMMEUBLE**

[72] WARREN, KEITH, CA

[73] WARREN, KEITH, CA

[86] (2966458)

[87] (2966458)

[22] 2012-12-19

[62] 2,799,863

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[11] **2,966,680**  
[13] C

[51] **Int.Cl. C22B 5/08 (2006.01) B03D 1/00 (2006.01) C01B 17/20 (2006.01) C22B 1/11 (2006.01) C22B 3/08 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING FROTHING DURING ATMOSPHERIC LEACHING OF METAL SULPHIDES USING SILICATES**

[54] **SYSTEME ET PROCEDE DE REGULATION DE LA FORMATION DE MOUSSE LORS DE LA LIXIVIATION ATMOSPHERIQUE DES SULFURES METALLIQUES A L'AIDE DE SILICATES**

[72] CHAIKO, DAVID J., US  
[72] BACZEK, FRANK, US  
[72] WALTERS, TOM, US  
[72] ROCKS, SARA (SALLY), US  
[72] ROY, GARY, US  
[72] EYZAGUIRRE, CARLOS, US  
[73] FLSMIDTH A/S, DK  
[85] 2017-02-21  
[86] 2015-08-27 (PCT/US2015/047259)  
[87] (WO2016/033360)  
[30] US (62/042,414) 2014-08-27

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[11] **2,968,220**  
[13] C

[51] **Int.Cl. E21B 34/10 (2006.01)**

[25] EN

[54] **HYDRAULIC FLOW RESTRICTION TUBE TIME DELAY SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEE DE TEMPORISATION DE TUBE LIMITEUR DE DEBIT HYDRAULIQUE**

[72] GEORGE, KEVIN R., US  
[72] SNIDER, PHILIP MARTIN, US  
[72] HARDESTY, JOHN T., US  
[72] WROBLICKY, MICHAEL D., US  
[72] ROLLINS, JAMES A., US  
[72] CLARK, NATHAN G., US  
[72] PEARSON, JARROD HENRY, US  
[72] WESSON, DAVID S., US  
[73] GEODYNAMICS, INC., US  
[85] 2017-05-17  
[86] 2015-05-08 (PCT/US2015/029982)  
[87] (WO2016/081028)  
[30] US (62/081,196) 2014-11-18  
[30] US (14/685,176) 2015-04-13

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[11] **2,974,483**  
[13] C

[51] **Int.Cl. B22F 9/26 (2006.01) B22F 3/10 (2006.01) B22F 9/24 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NICKEL POWDER**

[54] **PROCEDE DE FABRICATION DE POUVRE DE NICKEL**

[72] HEGURI, SHIN-ICHI, JP  
[72] OZAKI, YOSHITOMO, JP  
[72] TAKAISHI, KAZUYUKI, JP  
[72] YONEYAMA, TOMOAKI, JP  
[72] OHARA, HIDEKI, JP  
[72] IKEDA, OSAMU, JP  
[72] KUDO, YOHEI, JP  
[73] SUMITOMO METAL MINING CO., LTD., JP  
[85] 2017-07-20  
[86] 2015-03-26 (PCT/JP2015/059451)  
[87] (WO2016/117138)  
[30] JP (2015-010719) 2015-01-22  
[30] JP (2015-010721) 2015-01-22  
[30] JP (2015-010722) 2015-01-22

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[11] **2,975,699**  
[13] C

[51] **Int.Cl. G21K 1/04 (2006.01) A61B 6/02 (2006.01)**

[25] EN

[54] **X-RAY REDUCTION SYSTEM**

[54] **SYSTEME DE REDUCTION DE RAYONS X**

[72] MELMAN, HAIM ZVI, IL  
[72] GUEZ, ALLON, US  
[73] CONTROLRAD SYSTEMS INC., US  
[86] (2975699)  
[87] (2975699)  
[22] 2013-11-07  
[62] 2,892,970  
[30] US (61/730,987) 2012-11-29

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[11] **2,978,004**  
[13] C

[51] **Int.Cl. C09J 163/00 (2006.01) C09J 9/00 (2006.01) C09J 11/08 (2006.01)**

[25] EN

[54] **TWO-PART ADHESIVE INCLUDING TOUGHENED CURATIVE**

[54] **ADHESIF EN DEUX PARTIES INCLUANT UN DURCISSEUR RENFORCE**

[72] CHEN, LIANZHOU, US  
[72] SCHLECHTE, JAY S., US  
[72] STOUT, GEORGE M., US  
[72] SQUIRES, RACHEL J., US  
[73] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2017-08-25  
[86] 2016-02-01 (PCT/US2016/015968)  
[87] (WO2016/137671)  
[30] US (62/126,029) 2015-02-27

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[11] **2,979,236**  
[13] C

[51] **Int.Cl. A23P 30/00 (2016.01) A23P 10/00 (2016.01) A21C 11/00 (2006.01) A21C 14/00 (2006.01)**

[25] EN

[54] **BALL-SHAPED FOOD FORMING MACHINE**

[54] **MACHINE DE FACONNAGE D'ALIMENT EN FORME DE BOULE**

[72] XIE, DA-YOU, TW  
[73] DASIN MACHINERY CO., LTD., TW  
[86] (2979236)  
[87] (2979236)  
[22] 2017-09-15  
[30] TW (105130365) 2016-09-20

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[11] **2,981,317**  
[13] C

[51] **Int.Cl. G10L 19/26 (2013.01) G10L 19/02 (2013.01) H03H 17/02 (2006.01)**

[25] EN

[54] **COMPLEX EXPONENTIAL MODULATED FILTER BANK FOR HIGH FREQUENCY RECONSTRUCTION OR PARAMETRIC STEREO**

[54] **BANC DE FILTRES MODULES EXPONENTIELS COMPLEXES DESTINE A LA RECONSTRUCTION HAUTE FREQUENCE OU LA STEREO PARAMETRIQUE**

[72] EKSTRAND, PER, SE

[73] DOLBY INTERNATIONAL AB, NL

[86] (2981317)

[87] (2981317)

[22] 2010-02-17

[62] 2,959,400

[30] SE (0900217-1) 2009-02-18

[30] US (61/257105) 2009-11-02

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[11] **2,981,328**  
[13] C

[51] **Int.Cl. G10L 19/26 (2013.01) G10L 19/02 (2013.01) H03H 17/02 (2006.01)**

[25] EN

[54] **COMPLEX EXPONENTIAL MODULATED FILTER BANK FOR HIGH FREQUENCY RECONSTRUCTION OR PARAMETRIC STEREO**

[54] **BANC DE FILTRES MODULES EXPONENTIELS COMPLEXES DESTINE A LA RECONSTRUCTION HAUTE FREQUENCE OU LA STEREO PARAMETRIQUE**

[72] EKSTRAND, PER, SE

[73] DOLBY INTERNATIONAL AB, NL

[86] (2981328)

[87] (2981328)

[22] 2010-02-17

[62] 2,959,400

[30] SE (0900217-1) 2009-02-18

[30] US (61/257105) 2009-11-02

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[11] **2,982,886**  
[13] C

[51] **Int.Cl. F02D 13/02 (2006.01) F02D 41/04 (2006.01) F02D 41/06 (2006.01) F02D 41/10 (2006.01)**

[25] EN

[54] **ENGINE CONTROLLER AND ENGINE CONTROL METHOD**

[54] **APPAREIL DE COMMANDE DE MOTEUR ET PROCEDE DE COMMANDE DE MOTEUR**

[72] TSUYUKI, TAKESHI, JP

[72] IMAOKA, YOSHIHIRO, JP

[72] INOUE, TAKAO, JP

[73] NISSAN MOTOR CO., LTD., JP

[85] 2017-10-16

[86] 2015-04-16 (PCT/JP2015/061682)

[87] (WO2016/166859)

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[11] **2,982,987**  
[13] C

[51] **Int.Cl. G01F 1/76 (2006.01) A61M 15/00 (2006.01) A61M 16/20 (2006.01) G01P 5/26 (2006.01)**

[25] EN

[54] **OPTICAL FLOW MEASURING APPARATUS AND INHALATION APPARATUS COMPRISING THE SAME**

[54] **APPAREIL DE MESURE OPTIQUE DU DEBIT ET APPAREIL D'INHALATION LE COMPRENANT**

[72] VERJUS, ROMUALD, FR

[72] POREE, THIERRY, FR

[72] GUHEL, YANNICK, FR

[72] POUDEROUX, BERTRAND, FR

[72] BOUDART, BERTRAND, FR

[72] ANGILELLA, JEAN-REGIS, FR

[73] PROTECSOM AMERIQUE DU NORD INC., CA

[85] 2017-10-16

[86] 2016-04-18 (PCT/CA2016/050446)

[87] (WO2016/165029)

[30] US (62/149,019) 2015-04-17

[30] US (62/166,225) 2015-05-26

[30] US (62/233,524) 2015-09-28

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[11] **2,985,012**  
[13] C

[51] **Int.Cl. H05K 5/03 (2006.01) H05K 7/02 (2006.01)**

[25] EN

[54] **NETWORKING ENCLOSURE ASSEMBLY WITH MAGNETIC ALIGNMENT AND INTERLOCKING, ADAPTABLE TO BE INSTALLED IN DIFFERENT LOCATIONS AND POSITIONS.**

[54] **ENSEMBLE D'ENCEINTE DE RESEAUTAGE DOTE D'ALIGNEMENT MAGNETIQUE ET D'INTERVERROUILLAGE, ADAPTABLE A INSTALLER DANS DES EMBLEMEMENTS ET DES POSITIONNEMENTS DIFFERENTS.**

[72] CHEN, HONG, CA

[72] CHENG, NATHAN, CA

[72] GUCKEL, CHRISTIAN, CA

[72] HAMMERSLEY, DONOVAN, CA

[72] LEE, BALIN, CA

[72] ZANG, KAI, CA

[73] PRIMEX MANUFACTURING LTD., CA

[86] (2985012)

[87] (2985012)

[22] 2017-11-06

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[11] **2,986,558**  
[13] C

[51] **Int.Cl. H02P 27/08 (2006.01)**

[25] EN

[54] **MOTOR CONTROL DEVICE AND MOTOR CONTROL METHOD**

[54] **DISPOSITIF ET PROCEDE DE COMMANDE DE MOTEUR**

[72] KAWAMURA, HIROMICHI, JP

[73] NISSAN MOTOR CO., LTD., JP

[85] 2017-11-20

[86] 2015-05-21 (PCT/JP2015/064599)

[87] (WO2016/185601)

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[11] **2,992,541**

[13] C

[51] **Int.Cl. D21H 21/02 (2006.01) C08F  
220/56 (2006.01) D21H 17/41  
(2006.01)**

[25] EN

[54] **PITCH-CONTROLLING AGENT  
AND PITCH-CONTROLLING  
METHOD**

[54] **AGENT DE COMMANDE DE BRAI  
ET PROCEDE DE COMMANDE DE  
BRAI**

[72] SODEYAMA, TAKUJI, JP

[72] AIKAWA, YOSHIHIRO, JP

[72] FUJIWARA, TAKAHIRO, JP

[73] HARIMA CHEMICALS, INC., JP

[85] 2018-01-15

[86] 2017-05-29 (PCT/JP2017/019879)

[87] (WO2017/209037)

[30] JP (2016-107578) 2016-05-30

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May 13, 2018 to May 19, 2018

## Demandes canadiennes mises à la disponibilité du public

13 mai 2018 au 19 mai 2018

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[21] **2,948,271**  
[13] A1  
[51] **Int.Cl. A47K 10/22 (2006.01) G09F 23/06 (2006.01)**  
[25] EN  
[54] **PRODUCT DISPENSER WITH ACTIVE MEDIA DISPLAY**  
[54] **DISTRIBUTEUR DE PRODUIT DOTE D'UN AFFICHEUR MEDIA ACTIF**  
[72] THOMAS, TREVOR, CA  
[72] DROUIN, PAUL, CA  
[72] ELLIOT, NATHAN, CA  
[72] MELCHER, DWAYNE, CA  
[71] THOMAS, TREVOR, CA  
[71] DROUIN, PAUL, CA  
[71] ELLIOT, NATHAN, CA  
[71] MELCHER, DWAYNE, CA  
[22] 2016-11-14  
[41] 2018-05-14

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[21] **2,948,277**  
[13] A1  
[51] **Int.Cl. A47J 27/08 (2006.01) A47J 27/082 (2006.01) A47J 27/084 (2006.01)**  
[25] EN  
[54] **IMPROVEMENT TO THE PRESSURE COOKER**  
[54] **AMELIORATION DE LA COCOTTE-MINUTE**  
[72] BACHHAL, SUKHBIR SINGH, CA  
[71] BACHHAL, SUKHBIR SINGH, CA  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,315**  
[13] A1  
[51] **Int.Cl. D03D 15/00 (2006.01)**  
[25] EN  
[54] **WOVEN FABRIC COMPRISING ELASTIC ON BOTH WARP AND WEFT AND METHOD OF MAKING SAME**  
[54] **TISSU TISSE COMPORTANT UN ELASTIQUE SUR LA TRAME ET LA CHAINE ET METHODE DE FABRICATION ASSOCIEE**  
[72] LOBATO, ISRAEL ROBLES, MX  
[71] GRUPO ROMATEX DE MEXICO, S.A. DE C.V., MX  
[22] 2016-11-14  
[41] 2018-05-14

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[21] **2,948,396**  
[13] A1  
[51] **Int.Cl. G01V 1/18 (2006.01)**  
[25] EN  
[54] **ANALOG/DIGITAL HYBRID ADAPTOR SYSTEM FOR GEOPHONES AND SEISMOMETERS**  
[54] **SYSTEME D'ADAPTATEUR HYBRIDE ANALOGIQUE/NUMERIQUE DESTINE AUX GEOPHONES ET AUX SISMOMETRES**  
[72] FU, ZHENTANG, CA  
[71] HOWE, WILSON, CA  
[22] 2016-11-15  
[41] 2018-05-15

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[21] **2,948,402**  
[13] A1  
[51] **Int.Cl. G01B 3/10 (2006.01)**  
[25] EN  
[54] **SHOW COMMON MARKING PLACEMENTS ON A MEASURING TAPE BLADE**  
[54] **AFFICHAGE DE POSITIONNEMENTS DE MARQUES COURANTES SUR LA LAME D'UN RUBAN A MESURER**  
[72] FROESE, ANDREAS, CA  
[71] FROESE, ANDREAS, CA  
[22] 2016-11-15  
[41] 2018-05-15

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[21] **2,948,437**  
[13] A1  
[51] **Int.Cl. G01V 1/36 (2006.01)**  
[25] EN  
[54] **SEISMIC DATA PREPROCESSING AND REPROCESSING TO RETROFIT GEOPHONE PERFORMANCE**  
[54] **PRETRAITEMENT ET RETRAITEMENT DE DONNEES SISMIQUES SERVANT A AMELIORER LE RENDEMENT D'UN GEOPHONE**  
[72] HOWE, WILSON, CA  
[71] HOWE, WILSON, CA  
[22] 2016-11-14  
[41] 2018-05-14

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[21] **2,948,497**  
[13] A1  
[51] **Int.Cl. B23P 11/00 (2006.01) B44B 5/00 (2006.01) C25D 11/04 (2006.01)**  
[25] EN  
[54] **METHOD FOR MAKING BI-METALLIC MEMBERS**  
[54] **METHODE DE FABRICATION D'ELEMENTS BIMETALLIQUES**  
[72] MATHIEU, YANICK, CA  
[71] MATHIEU, YANICK, CA  
[22] 2016-11-16  
[41] 2018-05-16

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**13 mai 2018 au 19 mai 2018**

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[21] **2,948,499**  
[13] A1

[51] **Int.Cl. G06N 3/04 (2006.01) G06N 3/08 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR CLASSIFYING AND SEGMENTING MICROCOPY IMAGES WITH DEEP MULTIPLE INSTANCE LEARNING**  
[54] **SYSTEME ET METHODE DE CLASSEMENT ET SEGMENTATIONS D'IMAGES DE MICROCOPIE A APPRENTISSAGE D'INSTANCE MULTIPLE PROFOND**  
[72] KRAUS, OREN, CA  
[72] FREY, BRENDAN, CA  
[72] BA, JIMMY, CA  
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,505**  
[13] A1

[51] **Int.Cl. E03B 11/02 (2006.01) F24D 17/00 (2006.01) G05D 11/16 (2006.01)**  
[25] EN  
[54] **WATER TEMPERING SYSTEM**  
[54] **SYSTEME DE REGULATION DE LA TEMPERATURE DE L'EAU**  
[72] JEBRAN, NASSIM, CA  
[72] MAZZULLO, LOUIE, CA  
[72] MAZZULLO, FRANK, CA  
[72] BASKOVIC, BERNARD, CA  
[71] 2397593 ONTARIO INC., CA  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,510**  
[13] A1

[51] **Int.Cl. A01K 13/00 (2006.01) A01K 27/00 (2006.01)**  
[25] EN  
[54] **CLOTHING ARTICLES FOR PETS CONTAINING A NOVEL COLLAR ATTACHMENT SYSTEM**  
[54] **ARTICLES DE VETEMENT DESTINES AUX ANIMAUX COMPORTANT UN SYSTEME NOVATEUR DE FIXATION DE COLLIER**  
[72] WRIGHT, GABRIELLE A., CA  
[72] MARTINE, NATHAN, CA  
[72] MARTINE, ERICA, CA  
[72] WRIGHT, ARTHUR P. G., CA  
[71] WRIGHT, GERRY, CA  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,511**  
[13] A1

[51] **Int.Cl. A24D 3/04 (2006.01) A24C 5/58 (2006.01) A24F 15/00 (2006.01) G09F 3/02 (2006.01)**  
[25] EN  
[54] **SMOKING ARTICLE IDENTIFICATION SYSTEM AND METHOD**  
[54] **SYSTEME ET METHODE D'IDENTIFICATION D'ARTICLE DE FUMEUR**  
[72] GRANSAULL, ANGELA L., CA  
[71] GRANSAULL, ANGELA L., CA  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,514**  
[13] A1

[51] **Int.Cl. A47C 4/28 (2006.01) A47C 4/30 (2006.01) A47C 9/10 (2006.01) B64D 11/06 (2006.01)**  
[25] EN  
[54] **CHAIR SYSTEMS AND METHOD**  
[54] **SYSTEMES ET METHODE DESTINES A DES CHAISES**  
[72] WU, YI YAN, CA  
[71] WU, YI YAN, CA  
[22] 2016-11-15  
[41] 2018-05-15

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[21] **2,948,558**  
[13] A1

[51] **Int.Cl. B44F 9/02 (2006.01) B27N 5/00 (2006.01) B44F 9/04 (2006.01)**  
[25] EN  
[54] **PRODUCTION METHOD OF PSEUDO-WOOD AND PSEUDO-STONE FURNITURE OR ORNAMENT MATERIAL WITH NATURAL GRAINS**  
[54] **METHODE DE PRODUCTION DE MEUBLE OU DE MATERIAU D'ORNEMENT EN SIMILI-BOIS ET SIMILI-PIERRE A GRAINS NATURELS**  
[72] NING, ZHI-FENG, CN  
[71] NING, ZHI-FENG, CN  
[22] 2016-11-16  
[41] 2018-05-16

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[21] **2,948,704**  
[13] A1

[51] **Int.Cl. A61K 33/42 (2006.01) A61K 33/00 (2006.01) A61K 33/08 (2006.01) A61K 33/24 (2006.01) A61K 33/30 (2006.01) A61L 15/18 (2006.01) A61L 15/42 (2006.01) A61L 15/44 (2006.01) A61L 31/02 (2006.01) A61L 31/14 (2006.01) A61L 31/16 (2006.01) A61P 7/04 (2006.01) A61L 27/56 (2006.01)**  
[25] EN  
[54] **MESOPOROUS BIOACTIVE GLASSES AND USES THEREOF**  
[54] **VERRES BIOACTIFS MESOPOREUX ET UTILISATIONS ASSOCIEES**  
[72] TOWLER, MARK, CA  
[71] TOWLER, MARK, CA  
[22] 2016-11-17  
[41] 2018-05-17

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[21] **2,948,747**  
[13] A1

[51] **Int.Cl. A01D 67/00 (2006.01) A01D 34/412 (2006.01)**  
[25] EN  
[54] **MOUNTING BRACKET FOR A ROTARY CUTTER**  
[54] **SUPPORT D'INSTALLATION D'UN COUTEAU ROTATIF**  
[72] GREENWOOD, SCOTT, CA  
[71] GREENWOOD'S ARCHITECTURAL HARDWARE INC., CA  
[22] 2016-11-17  
[41] 2018-05-17

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[21] **2,948,756**  
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/128 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **FRAC PLUG APPARATUS, SETTING TOOL, AND METHOD**  
[54] **APPAREILLAGE DE BOUCHON DE FRACTURATION, OUTIL D'INSTALLATION ET METHODE**  
[72] SAULOU, CORY, CA  
[72] STEWART, TIM, CA  
[71] MAVERICK DOWNHOLE TECHNOLOGIES INC., CA  
[22] 2016-11-15  
[41] 2018-05-15

[21] **2,948,793**  
[13] A1

[51] **Int.Cl. H03M 7/30 (2006.01)**  
[25] EN  
[54] **PREFIX BURROWS-WHEELER TRANSFORMATION WITH FAST OPERATIONS ON COMPRESSED DATA**  
[54] **TRANSFORMATION DE BURROWS-WHEELER DE PREFIXE A OPERATIONS RAPIDES SUR LES DONNEES COMPRESSEES**  
[72] BRUESTLE, JEREMY, US  
[71] SPIRAL GENETICS, INC., US  
[22] 2016-11-17  
[41] 2018-05-17

[21] **2,948,962**  
[13] A1

[51] **Int.Cl. C22C 19/05 (2006.01)**  
[25] EN  
[54] **INTERMEDIATE STRENGTH ALLOYS FOR HIGH TEMPERATURE SERVICE IN LIQUID-SALT COOLED ENERGY SYSTEMS**  
[54] **ALLIAGES DE SOLIDITE INTERMEDIAIRE DESTINES A UN SERVICE HAUTE TEMPERATURE DANS LES SYSTEMES D'ENERGIE REFROIDIS AU LIQUIDE ET AU SEL**  
[72] MURALIDHARAN, GOVINDARAJAN, US  
[72] WILSON, DANE FRANCIS, US  
[72] HOLCOMB, DAVID EUGENE, US  
[71] UT-BATTELLE, LLC, US  
[22] 2016-11-17  
[41] 2018-05-17

[21] **2,948,991**  
[13] A1

[51] **Int.Cl. B63B 59/04 (2006.01) B08B 17/00 (2006.01)**  
[25] EN  
[54] **HYDRO SOUND MARINE ANTI-FOULING SYSTEM**  
[54] **SYSTEME ANTI-ENCRASSEMENT MARIN HYDROSONORE**  
[72] TASKER, TREVOR, CA  
[72] KNOX, DEREK, CA  
[71] EMCS INDUSTRIES LTD., CA  
[22] 2016-11-18  
[41] 2018-05-18

[21] **2,949,002**  
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01) E04B 2/74 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ADJUSTING ALIGNMENT OF A PANEL**  
[54] **SYSTEME ET METHODE DE REGLAGE D'ALIGNEMENT D'UN PANNEAU**  
[72] NOBLE, ANGUS, GB  
[71] PURE VISTA LTD., GB  
[22] 2016-11-17  
[41] 2018-05-17

[21] **2,949,122**  
[13] A1

[51] **Int.Cl. B05C 21/00 (2006.01) B44D 3/12 (2006.01)**  
[25] EN  
[54] **PAINT SAVER DEVICE AND METHOD**  
[54] **DISPOSITIF ET METHODE D'ECONOMISEUR DE PEINTURE**  
[72] IDDON, ANDREW, CA  
[71] IDDON, ANDREW, CA  
[22] 2016-11-18  
[41] 2018-05-18

[21] **2,949,303**  
[13] A1

[51] **Int.Cl. E06B 9/17 (2006.01) E06B 9/56 (2006.01)**  
[25] EN  
[54] **DRIVE ARRANGEMENT CONFIGURATION**  
[54] **D'ENTRAINEMENT**  
[72] GUNTON, BRUCE STANLEY, GB  
[71] GUNTON, BRUCE STANLEY, GB  
[22] 2016-11-22  
[41] 2018-05-15  
[30] US (15/352,136) 2016-11-15

[21] **2,949,791**  
[13] A1

[51] **Int.Cl. G03F 7/34 (2006.01) B33Y 30/00 (2015.01) B33Y 40/00 (2015.01) C08J 5/18 (2006.01)**  
[25] EN  
[54] **IMPROVED STEREO LITHOGRAPHY SYSTEM**  
[54] **SYSTEME DE STEREO LITHOGRAPHIE AMELIOREE**  
[72] CASTANON, DIEGO, CA  
[71] CASTANON, DIEGO, CA  
[71] FORTIER, RAYMOND, CA  
[22] 2016-11-18  
[41] 2018-05-18

[21] **2,949,888**  
[13] A1

[51] **Int.Cl. H02B 1/40 (2006.01)**  
[25] EN  
[54] **DECORATIVE COVER FOR AN ELECTRICAL PANEL AND METHOD OF MAKING THE SAME**  
[54] **REVETEMENT DECORATIF DE PANNEAU ELECTRIQUE ET METHODE DE FABRICATION ASSOCIEE**  
[72] THOMPSON, LINDSAY, KY  
[71] THOMPSON, LINDSAY, KY  
[22] 2016-11-26  
[41] 2018-05-17  
[30] US (29/584,799) 2016-11-17  
[30] US (15/360,465) 2016-11-23



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[21] **2,951,789**  
[13] A1

[51] **Int.Cl. G01F 3/10 (2006.01)**  
[25] EN  
[54] **LIQUID FLOW SENSOR WITH ADJUSTABLE OPERATIONAL RANGE**  
[54] **DETECTEUR DE DEBIT A PLAGE FONCTIONNELLE AJUSTABLE**  
[72] WILGER, WILFRED H., CA  
[72] GEORGET, SEAN, CA  
[71] WILGER INDUSTRIES LTD., CA  
[22] 2016-12-15  
[41] 2018-05-14

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[21] **2,955,449**  
[13] A1

[51] **Int.Cl. B01L 1/00 (2006.01) E04H 1/00 (2006.01) F24F 3/14 (2006.01) F24F 5/00 (2006.01)**  
[25] EN  
[54] **IMPROVED ENVIRONMENTAL ROOM WITH REDUCED ENERGY CONSUMPTION**  
[54] **CAISSON ENVIRONNEMENTAL AMELIORE A CONSOMMATION D'ENERGIE REDUITE**  
[72] ZLOBINSKY, YURY, US  
[72] LANGER, YURY, US  
[71] HARRIS ENVIRONMENTAL SYSTEMS, INC., US  
[22] 2017-01-19  
[41] 2018-05-19  
[30] US (15/356,551) 2016-11-19

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[21] **2,961,419**  
[13] A1

[51] **Int.Cl. F02C 6/00 (2006.01) E21B 43/26 (2006.01) E21B 43/34 (2006.01) F01D 15/00 (2006.01) F02C 7/22 (2006.01) F02M 33/00 (2006.01) F17D 1/04 (2006.01) F17D 3/14 (2006.01) F17D 3/16 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR GAS COMPRESSION ON ELECTRIC HYDRAULIC FRACTURING FLEETS**  
[54] **SYSTEME DE COMPRESSION DE GAZ DANS LES GROUPEES DE MACHINES DE FRACTURATION HYDRAULIQUE**  
[72] OEHRING, JARED, US  
[72] HINDERLITER, BRANDON N., US  
[71] US WELL SERVICES LLC, US  
[22] 2017-03-20  
[41] 2018-05-18  
[30] US (15/356,436) 2016-11-18

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[21] **2,965,070**  
[13] A1

[51] **Int.Cl. G06F 19/00 (2018.01) G06Q 50/00 (2012.01)**  
[25] EN  
[54] **REAL-TIME METHOD AND SYSTEM FOR ASSESSING AND IMPROVING A PRESENCE AND PRECEPTION OF AN ENTITY**  
[54] **SYSTEME ET METHODE EN TEMPS REEL SERVANT A EVALUER ET AMELIORER UNE PRESENCE ET UNE PERCEPTION D'UNE ENTITE**  
[72] KAKKAD, HEMANT MANAHARLAL, IN  
[72] KORIA, PANKHURI JAYPRAKASH, IN  
[72] SHAH, HARDIK PRADEEP, IN  
[71] ACCENTURE GLOBAL SOLUTIONS LIMITED, GB  
[22] 2017-04-24  
[41] 2018-05-14  
[30] IN (201641038779) 2016-11-14

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[21] **2,967,697**  
[13] A1

[51] **Int.Cl. E05B 49/00 (2006.01) E05B 47/00 (2006.01)**  
[25] EN  
[54] **ELECTRIC LOCK AND CLUTCH MECHANISM THEREOF**  
[54] **VERROU ELECTRIQUE ET MECANISME D'EMBAYAGE ASSOCIE**  
[72] HUANG, LIEN-HSI, TW  
[72] LEE, WEN-CHIEH, TW  
[71] TAIWAN FU HSING INDUSTRIAL CO., LTD., TW  
[22] 2017-05-18  
[41] 2018-05-14  
[30] TW (105136984) 2016-11-14

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[21] **2,968,283**  
[13] A1

[51] **Int.Cl. F02C 6/08 (2006.01) B64D 13/02 (2006.01) F02C 9/18 (2006.01)**  
[25] EN  
[54] **GAS TURBINE ENGINE BLEED CONFIGURATION**  
[54] **CONFIGURATION DE PURGE DE MOTEUR DE TURBINE A GAZ**  
[72] MORGAN, KEITH, CA  
[72] PLANTE, GHISLAIN, CA  
[72] DUROCHER, ERIC S., CA  
[72] NG, KEVIN, CA  
[72] VINSKI, JOHNNY, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2017-05-23  
[41] 2018-05-14  
[30] US (15/350,837) 2016-11-14

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[21] **2,968,777**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/10 (2016.01) A23L 29/212 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01)**  
[25] EN  
[54] **VARIETY CORN LINE IID5449**  
[54] **MAIS DE VARIETE IID5449**  
[72] PINNISCH, RUSSEL, US  
[71] SYNGENTA PARTICIPATIONS AG, CH  
[22] 2017-05-29  
[41] 2018-05-14  
[30] US (15/350,180) 2016-11-14

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[21] **2,972,213**  
[13] A1

[51] **Int.Cl. F02B 77/08 (2006.01) F02B 43/00 (2006.01) F02D 19/02 (2006.01) F02M 21/02 (2006.01) F16K 17/00 (2006.01)**  
[25] EN  
[54] **PROPANE SHUTOFF SYSTEM**  
[54] **SYSTEME DE COUPURE D'ALIMENTATION DE PROPANE**  
[72] HAMM, DERRICK LEE, US  
[72] WAGONER, TED TILMAN, US  
[72] BOST, DAVID, US  
[71] AMANO PIONEER ECLIPSE CORPORATION, US  
[22] 2017-06-27  
[41] 2018-05-17  
[30] US (15/354,618) 2016-11-17

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[21] **2,972,738**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/10 (2016.01) A23L 29/212 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/12 (2006.01)**

[25] EN  
[54] **VARIETY CORN LINE GAV0002**  
[54] **MAIS DE VARIETE GAV0002**  
[72] DE DREU, ADRIAN JAN, CA  
[71] SYNGENTA PARTICIPATIONS AG, CH  
[22] 2017-07-07  
[41] 2018-05-14  
[30] US (15/350140) 2016-11-14

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[21] **2,972,965**  
[13] A1

[51] **Int.Cl. B66F 3/30 (2006.01) B66F 3/25 (2006.01) E01D 21/00 (2006.01) E02D 29/02 (2006.01)**

[25] EN  
[54] **HYDRAULIC JACK SYSTEM**  
[54] **SYSTEME DE VERIN HYDRAULIQUE**  
[72] JONES, PAT, CA  
[72] DEROY, MICHAEL, CA  
[72] WEIR, MITCHELL, CA  
[72] TAWS, MATTHEW, CA  
[71] 692324 NB INC., CA  
[22] 2017-07-12  
[41] 2018-05-18  
[30] US (62/423,925) 2016-11-18

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[21] **2,974,954**  
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6876 (2018.01)**

[25] EN  
[54] **HIGHLY SENSITIVE METHODS FOR DETECTING BTK RESISTANCE MUTATIONS IN RNA AND DNA**  
[54] **METHODES TRES SENSIBLES DE DETECTION DE MUTATIONS A RESISTANCE BTK DANS L'ARN ET L'ADN**  
[72] JONES, DANIEL, US  
[72] TU, HUOLIN, US  
[72] BYRD, JOHN, US  
[71] OHIO STATE INNOVATION FOUNDATION, US  
[22] 2017-08-01  
[41] 2018-05-17  
[30] US (62/423,531) 2016-11-17  
[30] US (62/526,736) 2017-06-29

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[21] **2,975,556**  
[13] A1

[51] **Int.Cl. F02C 7/32 (2006.01) F02C 7/36 (2006.01)**

[25] EN  
[54] **GAS TURBINE ENGINE ACCESSORIES ARRANGEMENT CONFIGURATION**  
[54] **D'ACCESSOIRES DE MOTEUR DE TURBINE A GAZ**  
[72] MITROVIC, LAZAR, CA  
[72] DUBREUIL, JEAN, CA  
[72] DUROCHER, ERIC, CA  
[72] MORGAN, KEITH, CA  
[72] DESJARDINS, MICHEL, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2017-08-04  
[41] 2018-05-15  
[30] US (15/351,803) 2016-11-15

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[21] **2,975,684**  
[13] A1

[51] **Int.Cl. B23P 9/00 (2006.01) B64D 29/00 (2006.01) B64D 27/10 (2006.01)**

[25] EN  
[54] **STRESS REDUCTION DIMPLES FOR CIRCULAR HOLES**  
[54] **FOSSETTES DE REDUCTION DE CONTRAINTE DESTINEES A DES TROUS CIRCULAIRES**  
[72] STONE, PAUL, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2017-08-07  
[41] 2018-05-15  
[30] US (15/351,783) 2016-11-15

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[21] **2,977,149**  
[13] A1

[51] **Int.Cl. E05F 15/71 (2015.01) B64C 1/00 (2006.01) B64D 29/00 (2006.01) B64D 33/08 (2006.01) E06B 7/02 (2006.01) F01D 25/24 (2006.01) F16K 7/00 (2006.01) F16K 31/64 (2006.01) F24F 13/08 (2006.01)**

[25] EN  
[54] **TEMPERATURE ACTUATED PANEL**  
[54] **PANNEAU ACTIONNE PAR LA TEMPERATURE**  
[72] CHRISTMAN, DAVID B., US  
[72] QUANDT, GENE A., US  
[71] THE BOEING COMPANY, US  
[22] 2017-08-23  
[41] 2018-05-15  
[30] US (15/352039) 2016-11-15

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[21] **2,977,270**  
[13] A1

[51] **Int.Cl. E01B 29/24 (2006.01)**

[25] EN  
[54] **MAGNETIC SINGULATOR FOR BULK RAIL FASTENERS**  
[54] **SEPARATEUR MAGNETIQUE DESTINE A DES DISPOSITIFS DE FIXATION DE RAIL EN VRAC**  
[72] PAYAN, JULIO ENRIQUE, US  
[72] STRYDOM, PHILIP, US  
[71] NORDCO INC., US  
[22] 2017-08-25  
[41] 2018-05-15  
[30] US (15/352,013) 2016-11-15

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**13 mai 2018 au 19 mai 2018**

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[21] **2,978,702**  
[13] A1

[51] **Int.Cl. F16H 3/74 (2006.01) F02C 7/36 (2006.01) F16H 1/28 (2006.01) F16H 3/44 (2006.01)**

[25] EN  
[54] **GEARBOX FOR GAS TURBINE ENGINE**

[54] **BOITE D'ENGRENAGES DE TURBINE A GAZ**

[72] POULIN, MARTIN, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2017-09-07  
[41] 2018-05-15  
[30] US (15/351,611) 2016-11-15

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[21] **2,979,088**  
[13] A1

[51] **Int.Cl. F21V 14/02 (2006.01) B64D 25/00 (2006.01) B64D 25/14 (2006.01) B64D 47/02 (2006.01) F21V 33/00 (2006.01)**

[25] EN  
[54] **EXTERNAL AIRCRAFT EMERGENCY LIGHTING**

[54] **ECLAIRAGE D'URGENCE D'EXTERIEUR D'AERONEF**

[72] VOLNY, JARO S., US  
[72] HARTMAN, DREW, US  
[71] GOODRICH CORPORATION, US  
[22] 2017-09-12  
[41] 2018-05-14  
[30] US (15/350,817) 2016-11-14

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[21] **2,979,467**  
[13] A1

[51] **Int.Cl. F21V 23/06 (2006.01) F21K 9/272 (2016.01) F21S 2/00 (2016.01) F21V 15/01 (2006.01) F21V 15/015 (2006.01)**

[25] EN  
[54] **LIGHT FIXTURE WITH ADJUSTABLE CONNECTOR**

[54] **APPAREIL D'ECLAIRAGE A CONNECTEUR AJUSTABLE**

[72] SIECZKOWSKI, PHILIP, US  
[72] MAYO, CHRISTINA, US  
[71] ABL IP HOLDING LLC, US  
[22] 2017-09-15  
[41] 2018-05-18  
[30] US (62/424142) 2016-11-18

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[21] **2,979,008**  
[13] A1

[51] **Int.Cl. F01D 5/18 (2006.01) F01D 9/02 (2006.01) F01D 25/12 (2006.01)**

[25] EN  
[54] **AIRFOIL LEADING EDGE IMPINGEMENT COOLING**

[54] **REFROIDISSEMENT PAR IMPACT DE JET SUR LE BORD D'ATTAQUE DE PROFIL DYNAMIQUE**

[72] BARKER, BRETT J., US  
[72] RHODES, JEFFREY F., US  
[71] ROLLS-ROYCE CORPORATION, US  
[22] 2017-09-12  
[41] 2018-05-15  
[30] US (15/352020) 2016-11-15

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[21] **2,979,093**  
[13] A1

[51] **Int.Cl. B64D 25/14 (2006.01) B64D 25/18 (2006.01)**

[25] EN  
[54] **REDUNDANT LAYER FOR INFLATABLE EVACUATION COMPONENT**

[54] **COUCHE REDONDANTE DESTINEE A UNE COMPOSANTE D'EVACUATION GONFLABLE**

[72] VOLNY, JARO S., US  
[72] HARTMAN, DREW, US  
[71] GOODRICH CORPORATION, US  
[22] 2017-09-12  
[41] 2018-05-14  
[30] US (15/350,808) 2016-11-14

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[21] **2,979,650**  
[13] A1

[51] **Int.Cl. F16B 25/04 (2006.01)**

[25] EN  
[54] **CRACK-PROOF SCREW**

[54] **VIS ANTI-FISSURES**

[72] LIN, CHAO-WEI, TW  
[71] KWANTEX RESEARCH INC., TW  
[22] 2017-09-19  
[41] 2018-05-15  
[30] TW (105137180) 2016-11-15

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[21] **2,979,011**  
[13] A1

[51] **Int.Cl. B05B 1/30 (2006.01) E03C 1/04 (2006.01) E03C 1/08 (2006.01)**

[25] EN  
[54] **VARIABLE DUAL FLOW FITTING**

[54] **RACCORD D'ECOULEMENT DOUBLE VARIABLE**

[72] FABRIZIO, EDWARD VINCENT, US  
[71] CHRONOMITE LABORATORIES, INC., US  
[22] 2017-09-12  
[41] 2018-05-14  
[30] US (15/350794) 2016-11-14

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[21] **2,979,097**  
[13] A1

[51] **Int.Cl. B64D 25/04 (2006.01) B64D 11/06 (2006.01)**

[25] EN  
[54] **ENERGY ABSORBING ASSEMBLY FOR A SEAT**

[54] **DISPOSITIF D'ABSORPTION D'ENERGIE DESTINE A UN SIEGE**

[72] FERGUSON, KEITH M., US  
[72] PATTERSON, SCOTT R., US  
[72] BENJAMIN, JEFF, US  
[71] AMI INDUSTRIES, INC., US  
[22] 2017-09-12  
[41] 2018-05-16  
[30] US (15/353,525) 2016-11-16

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[21] **2,980,180**  
[13] A1

[51] **Int.Cl. A01D 41/12 (2006.01) A01D 41/06 (2006.01) A01D 57/00 (2006.01)**

[25] EN  
[54] **WINDROW MERGER ATTACHMENT**

[54] **FIXATION DE GROUPEMENT D'ANDAINS**

[72] LOGGAN, AARON, US  
[71] AGCO CORPORATION, US  
[22] 2017-09-25  
[41] 2018-05-15  
[30] US (62/442,443) 2016-11-15

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[21] **2,980,444**  
[13] A1

[51] **Int.Cl. A62C 35/68 (2006.01)**  
[25] EN  
[54] **FIRE SPRINKLER ASSEMBLY INCLUDING ADJUSTABLE DROP**  
[54] **GICLEUR D'EXTINCTION D'INCENDIE COMPORTANT UN DEGAGEMENT AJUSTABLE**  
[72] DAFONSECA, ODAIR, US  
[72] BEAGEN, JOSEPH, US  
[71] FLEXHEAD INDUSTRIES, INC., US  
[22] 2017-09-27  
[41] 2018-05-17  
[30] US (15/354,356) 2016-11-17

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[21] **2,980,710**  
[13] A1

[51] **Int.Cl. H04L 29/10 (2006.01) H04L 12/42 (2006.01)**  
[25] EN  
[54] **SAFE NETWORK INTERFACE**  
[54] **INTERFACE RESEAU SURE**  
[72] RICCO, PHILIPPE, FR  
[72] MATHYS, YVES, CH  
[72] BETTAIEB, KHALED, CH  
[71] MERCURY MISSION SYSTEMS INTERNATIONAL S.A., CH  
[22] 2017-09-26  
[41] 2018-05-18  
[30] EP (16199505.5) 2016-11-18

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[21] **2,981,018**  
[13] A1

[51] **Int.Cl. A61B 34/10 (2016.01) A61B 5/1171 (2016.01) A61B 90/00 (2016.01) A61B 5/103 (2006.01) A61M 5/00 (2006.01)**  
[25] EN  
[54] **USE OF INFRARED LIGHT ABSORPTION FOR VEIN FINDING AND PATIENT IDENTIFICATION**  
[54] **UTILISATION D'ABSORPTION DE LUMIERE INFRAROUGE POUR LE REPERAGE DE VEINE ET L'IDENTIFICATION DU PATIENT**  
[72] HAVERMAN, YURI, US  
[72] DIAZ, OLIVER CRESPO, US  
[72] FIEDLER, ALAN WAYNE, US  
[71] BECTON, DICKINSON AND COMPANY, US  
[22] 2017-10-02  
[41] 2018-05-18  
[30] US (62/424236) 2016-11-18

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[21] **2,981,725**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR DYNAMIC MULTI-CRITERIA LOYALTY PROGRAM REDEMPTIONS**  
[54] **METHODE ET SYSTEME DE REMISES LIEES A UN PROGRAMME DE FIDELITE MULTICRITERE DYNAMIQUE**  
[72] BOYD, CHRISTOPHER, CA  
[72] WILKS, ORION, CA  
[71] POINTS.COM INC., CA  
[22] 2017-10-06  
[41] 2018-05-16  
[30] US (15/353,175) 2016-11-16

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[21] **2,982,065**  
[13] A1

[51] **Int.Cl. H04N 21/23 (2011.01) H04N 21/6587 (2011.01) H04N 21/80 (2011.01) G06Q 50/10 (2012.01) G06T 1/00 (2006.01)**  
[25] EN  
[54] **METHODS, SERVERS AND SYSTEMS FOR OPERATING ON SECURITY INSPECTION DATA**  
[54] **METHODES, SERVEURS ET SYSTEMES FONCTIONNANT A PARTIR DE DONNEES D'INSPECTION DE SECURITE**  
[72] TANG, HU, CN  
[72] ZHANG, LI, CN  
[72] CHEN, ZHIQIANG, CN  
[72] ZHANG, JIAMIN, CN  
[71] NUCTECH COMPANY LIMITED, CN  
[22] 2017-10-10  
[41] 2018-05-15  
[30] CN (201611029778.0) 2016-11-15

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[21] **2,982,110**  
[13] A1

[51] **Int.Cl. B64C 27/39 (2006.01) B64C 11/02 (2006.01) B64C 11/26 (2006.01) B64C 27/28 (2006.01) B64C 27/473 (2006.01) B64C 27/54 (2006.01)**  
[25] EN  
[54] **PROPROPOTOR SYSTEMS FOR TILTROTOR AIRCRAFT**  
[54] **SYSTEME DE ROTOR ORIENTABLE DESTINE A UN AERONEF A ROTORS BASCULANTS**  
[72] CHOI, JOUYOUNG JASON, US  
[72] MILLER, GARY, US  
[72] RAUBER, RICHARD ERLER, US  
[72] PARHAM, THOMAS CLEMENT, JR., US  
[72] EWING, ALAN CARL, US  
[72] STAMPS, FRANK BRADLEY, US  
[71] BELL HELICOPTER TEXTRON INC., US  
[22] 2017-10-10  
[41] 2018-05-18  
[30] US (15/355,347) 2016-11-18

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[21] **2,982,296**  
[13] A1

[51] **Int.Cl. A62C 2/12 (2006.01) F16K 31/64 (2006.01) F24F 13/10 (2006.01)**  
[25] EN  
[54] **HEAT-ACTUATED FIRE DAMPER SEALING APPARATUS**  
[54] **APPAREIL DE FERMETURE ETANCHE DE REGISTRE COUPE-FEU ACTIONNE THERMIQUEMENT**  
[72] OIEN, LYNN, US  
[71] OIEN, LYNN, US  
[22] 2017-10-13  
[41] 2018-05-16  
[30] US (15/353,399) 2016-11-16

**Demandes canadiennes mises à la disponibilité du public**  
**13 mai 2018 au 19 mai 2018**

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[21] **2,983,495**  
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) H04W 24/02 (2009.01) H04L 12/24 (2006.01)**

[25] EN

[54] **IMPROVING PERFORMANCE OF COMMUNICATION NETWORK BASED ON END TO END PERFORMANCE OBSERVATION AND EVALUATION**

[54] **AMELIORATION DU RENDEMENT D'UN RESEAU DE COMMUNICATION FONDE SUR L'OBSERVATION DE BOUT EN BOUT ET L'EVALUATION**

[72] RICCI, ALESSIO, IT

[71] ACCENTURE GLOBAL SERVICES LIMITED, IE

[22] 2017-10-24

[41] 2018-05-14

[30] US (15/350,635) 2016-11-14

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[21] **2,983,538**  
[13] A1

[51] **Int.Cl. B65D 85/00 (2006.01) E04F 21/02 (2006.01) E04G 23/02 (2006.01)**

[25] EN

[54] **HOME REPAIR AND PAINT STORAGE KIT**

[54] **TROUSSE DE REPARATION RESIDENTIELLE ET DE RANGEMENT DE PEINTURE**

[72] BUSCH, WARREN, CA

[71] BUSCH, WARREN, CA

[22] 2017-10-24

[41] 2018-05-17

[30] US (15/354,127) 2016-11-17

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[21] **2,983,953**  
[13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) B64D 31/04 (2006.01) G05G 1/04 (2006.01)**

[25] FR

[54] **MANAGEMENT DEVICE FOR THE MECHANICAL ENERGY IN AN AIRCRAFT, FEATURING A LIGHT SYSTEM, ASSOCIATED AIRCRAFT AND PROCESS**

[54] **DISPOSITIF DE GESTION DE L'ENERGIE MECANIQUE D'UN AERONEF, PRESENTANT UN SYSTEME LUMINEUX, AERONEF ET PROCEDE ASSOCIES**

[72] LE BORLOCH, JEROME, FR

[71] DASSAULT AVIATION, FR

[22] 2017-10-25

[41] 2018-05-14

[30] FR (16 01 612) 2016-11-14

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[21] **2,983,993**  
[13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) B64D 31/04 (2006.01) G05G 1/04 (2006.01) G05G 5/03 (2009.01)**

[25] FR

[54] **MANAGEMENT DEVICE FOR THE MECHANICAL ENERGY IN AN AIRCRAFT, FEATURING A FORCE APPLICATION SYSTEM ON A CONTROL LEVER, ASSOCIATED AIRCRAFT AND PROCESS**

[54] **DISPOSITIF DE GESTION DE L'ENERGIE MECANIQUE D'UN AERONEF, PRESENTANT UN SYSTEME D'APPLICATION DE FORCE SUR UNE MANETTE DE COMMANDE, AERONEF ET PROCEDE ASSOCIES**

[72] GRANIER, ERIC, FR

[72] LE BORLOCH, JEROME, FR

[71] DASSAULT AVIATION, FR

[22] 2017-10-26

[41] 2018-05-14

[30] FR (16 01611) 2016-11-14

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[21] **2,983,999**  
[13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) G05G 1/01 (2009.01) B64D 31/04 (2006.01) G05G 1/04 (2006.01) G05G 13/00 (2006.01)**

[25] FR

[54] **MECHANICAL ENERGY MANAGEMENT DEVICE FOR AN AIRCRAFT PRESENTING AN AUXILIARY ENERGY MANAGEMENT SYSTEM, ASSOCIATED AIRCRAFT AND PROCESS**

[54] **DISPOSITIF DE GESTION DE L'ENERGIE MECANIQUE D'UN AERONEF, PRESENTANT UN SYSTEME AUXILIAIRE DE GESTION D'ENERGIE, AERONEF ET PROCEDE ASSOCIES**

[72] GRANIER, ERIC, FR

[72] LE BORLOCH, JEROME, FR

[71] DASSAULT AVIATION, FR

[22] 2017-10-26

[41] 2018-05-14

[30] FR (16 01609) 2016-11-14

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[21] **2,984,283**  
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01) E04C 1/42 (2006.01) E04H 17/16 (2006.01)**

[25] EN

[54] **ARRANGEMENT FOR FASTENING A PANEL IN A SLOT USING TWO OPPOSITE WEDGES**

[54] **CONFIGURATION DE FIXATION D'UN PANNEAU DANS UNE FENTE AU MOYEN DE DEUX COINS OPPOSES**

[72] DAGAND, CYRIL, FR

[72] BORROD, WILFRIED, FR

[71] SB INGENIERIE, FR

[22] 2017-10-30

[41] 2018-05-17

[30] FR (16 61 143) 2016-11-17

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[21] **2,984,552**  
[13] A1

[51] **Int.Cl. F21V 15/015 (2006.01) F21S 8/06 (2006.01) F21V 21/005 (2006.01)**

[25] EN

[54] **LIGHT FIXTURE MECHANICAL INTERCONNECT WITH ROTATIVE JOINING AND HIDDEN FEATURES**

[54] **INTERCONNEXION MECANIQUE D'APPAREIL D'ECLAIRAGE AU MOYEN D'UN RACCORD ROTATIF ET DE MECANISMES CACHES**

[72] GERMAIN, STEVE, CA

[71] GE LIGHTING SOLUTIONS, LLC, US

[22] 2017-11-02

[41] 2018-05-17

[30] US (62/423,749) 2016-11-17

[30] US (15/638,405) 2017-06-30

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[21] **2,984,557**  
[13] A1

[51] **Int.Cl. F21V 15/015 (2006.01) F21S 8/04 (2006.01) F21V 21/005 (2006.01)**

[25] EN

[54] **LINEAR LIGHT FIXTURE INTERCONNECT WITH ANTI-SNAKING FEATURE**

[54] **INTERCONNEXION D'APPAREIL D'ECLAIRAGE LINEAIRE AU MOYEN D'UN MECANISME ANTI-SERPENTAGE**

[72] GERMAIN, STEVE, CA

[71] GE LIGHTING SOLUTIONS, LLC, US

[22] 2017-11-02

[41] 2018-05-17

[30] US (62/423,577) 2016-11-17

[30] US (15/614,734) 2017-06-06

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May 13, 2018 to May 19, 2018**

[21] **2,984,658**  
[13] A1

[51] **Int.Cl. B60K 6/22 (2007.10) B60W 20/00 (2016.01)**  
[25] EN  
[54] **CONTROL APPARATUS FOR VEHICLE AND CONTROL METHOD FOR VEHICLE**  
[54] **APPAREIL DE CONTROLE DE VEHICULE ET METHODE DE CONTROLE DE VEHICULE**  
[72] GOTODA, KENJI, JP  
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[22] 2017-11-03  
[41] 2018-05-17  
[30] JP (2016-224547) 2016-11-17

[21] **2,984,732**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01)**  
[25] EN  
[54] **IN VITRO DIAGNOSTIC METHOD FOR ALZHEIMER'S DISEASE, BASED ON THE ALBUMIN REDOX LEVEL IN THE CEREBROSPINAL FLUID**  
[54] **METHODE DE DIAGNOSTIC IN VITRO DE LA MALADIE D'ALZHEIMER, FONDEE SUR LE TAUX DE REDOX D'ALBUMINE DANS LE LIQUIDE CEREBROSPINAL**  
[72] GRANCHA GAMON, SALVADOR, ES  
[72] COSTA RIEROLA, MONTSERRAT, ES  
[72] ORTIZ FERNANDEZ, ANA MARIA, ES  
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE  
[22] 2017-11-03  
[41] 2018-05-16  
[30] ES (201631468) 2016-11-16

[21] **2,984,738**  
[13] A1

[51] **Int.Cl. C08G 77/04 (2006.01) C08G 77/08 (2006.01) C08L 83/04 (2006.01)**  
[25] EN  
[54] **MIXTURES OF CYCLIC BRANCHED SILOXANES OF THE D/T TYPE AND CONVERSION PRODUCTS THEREOF**  
[54] **MELANGES DE SILOXANES A RAMIFICATION CYCLIQUE DE TYPE D/T ET PRODUITS DE CONVERSION ASSOCIES**  
[72] KNOTT, WILFRIED, DE  
[72] DUDZIK, HORST, DE  
[71] EVONIK DEGUSSA GMBH, DE  
[22] 2017-11-06  
[41] 2018-05-15  
[30] EP (16198809.2) 2016-11-15  
[30] EP (17156421.4) 2017-02-16

[21] **2,984,818**  
[13] A1

[51] **Int.Cl. B65G 33/24 (2006.01) B65G 33/00 (2006.01)**  
[25] EN  
[54] **FLEXIBLE AUGER CONVEYOR**  
[54] **TRANSPORTEUR A VIS FLEXIBLE**  
[72] ROSS, STAN, CA  
[71] RECOVER ENERGY SERVICES INC., CA  
[22] 2017-11-07  
[41] 2018-05-18  
[30] US (62/423,917) 2016-11-18

[21] **2,984,852**  
[13] A1

[51] **Int.Cl. H02G 3/02 (2006.01) H02G 3/08 (2006.01)**  
[25] EN  
[54] **ELECTRICAL BOX BAR HANGER**  
[54] **SUPPORT DE BARRE DE COFFRET ELECTRIQUE**  
[72] LALANCETTE, DANIEL, CA  
[71] THOMAS & BETTS INTERNATIONAL LLC, US  
[22] 2017-11-07  
[41] 2018-05-15  
[30] US (62/422,149) 2016-11-15

[21] **2,984,857**  
[13] A1

[51] **Int.Cl. A47L 5/24 (2006.01) A47L 9/10 (2006.01) A47L 9/32 (2006.01)**  
[25] EN  
[54] **CLEANING DEVICE**  
[54] **APPAREIL DE NETTOYAGE**  
[72] WALKER, ANDREW, GB  
[71] BLACK & DECKER INC., US  
[22] 2017-11-07  
[41] 2018-05-16  
[30] EP (16199161.7) 2016-11-16

[21] **2,984,860**  
[13] A1

[51] **Int.Cl. A47L 9/00 (2006.01) A47L 5/00 (2006.01) A47L 9/14 (2006.01) A47L 9/28 (2006.01) B30B 9/00 (2006.01)**  
[25] EN  
[54] **VACUUM CLEANER**  
[54] **ASPIRATEUR**  
[72] WALKER, ANDREW, GB  
[72] MUIR, DEREK, GB  
[72] GREY, CAVAN, GB  
[72] RICHARDSON, JACK, GB  
[71] BLACK & DECKER INC., US  
[22] 2017-11-07  
[41] 2018-05-17  
[30] EP (16199417.3) 2016-11-17  
[30] EP (17185648.7) 2017-08-09

[21] **2,984,862**  
[13] A1

[51] **Int.Cl. A47L 9/10 (2006.01) A47L 5/24 (2006.01)**  
[25] EN  
[54] **CLEANING DEVICE**  
[54] **APPAREIL DE NETTOYAGE**  
[72] REEVES, MARK, GB  
[72] CRAWLEY, GRAEME, GB  
[72] KIRKPATRICK, CONOR JAMES, GB  
[71] BLACK & DECKER INC., US  
[22] 2017-11-07  
[41] 2018-05-16  
[30] EP (16199098.1) 2016-11-16

**Demandes canadiennes mises à la disponibilité du public**  
**13 mai 2018 au 19 mai 2018**

[21] **2,984,938**  
[13] A1

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

[25] EN

[54] **GENETIC MARKER FOR DETERMINING MEAT QUALITY TRAITS OF PIGS AND USE THEREOF**

[54] **MARQUEUR GENETIQUE SERVANT A DETERMINER LES TRAITS DE QUALITE DE LA VIANDE DE PORC ET UTILISATION ASSOCIEE**

[72] CHO, IN CHEOL, KR  
[72] PARK, HEE BOK, KR  
[72] LEE, JEONG WOONG, KR  
[72] AHN, JIN SEOP, KR  
[72] HAN, SANG HYUN, KR  
[71] REPUBLIC OF KOREA (MANAGEMENT: RURAL DEVELOPMENT ADMINISTRATION), KR  
[71] KOREA RESEARCH INSTITUTE OF BIOSCIENCE AND BIOTECHNOLOGY, KR  
[71] JEJU NATIONAL UNIVERSITY INDUSTRY-ACADEMIC COOPERATION, KR  
[22] 2017-11-08  
[41] 2018-05-15  
[30] KR (10-2016-0152247) 2016-11-15

[21] **2,984,950**  
[13] A1

[51] **Int.Cl. H03H 7/48 (2006.01) A61B 5/0402 (2006.01) A61B 5/042 (2006.01) H03F 3/45 (2006.01) H03M 1/12 (2006.01)**

[25] EN

[54] **ASIC WITH SWITCHING NOISE REDUCTION**

[54] **CIRCUIT INTEGRE SPECIFIQUE A COMMUTATION DE REDUCTION DE BRUIT**

[72] GOVARI, ASSAF, IL  
[72] ALTMANN, ANDRES CLAUDIO, IL  
[72] EPHRATH, YARON, IL  
[72] KHUDISH, OLEG, IL  
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL  
[22] 2017-11-08  
[41] 2018-05-14  
[30] US (15/350,236) 2016-11-14

[21] **2,984,958**  
[13] A1

[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/10 (2016.01) A61B 5/042 (2006.01) A61B 5/053 (2006.01)**

[25] EN

[54] **MARKING SPARSE AREAS ON MAPS**

[54] **MARQUAGES DE ZONES EPARSES SUR LES CARTES**

[72] KATZ, NATAN SHARON, IL  
[72] ZAR, LIOR, IL  
[72] COHEN, BENJAMIN, IL  
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL  
[22] 2017-11-08  
[41] 2018-05-15  
[30] US (15/351,972) 2016-11-15

[21] **2,985,045**  
[13] A1

[51] **Int.Cl. G06N 3/02 (2006.01) G06T 9/00 (2006.01)**

[25] EN

[54] **NOVEL VIEW SYNTHESIS USING DEEP CONVOLUTIONAL NEURAL NETWORKS**

[54] **SYNTHESE D'AFFICHAGE NOVATRICE EMPLOYANT DES RESEAUX NEURAUX CONVOLUTIONNELS PROFONDS**

[72] KWON, JUNGHYUN, US  
[72] JI, DINGHUANG, US  
[72] MCFARLAND, MAX, US  
[72] SAVARESE, SILVIO, US  
[71] RICOH COMPANY, LTD., JP  
[22] 2017-11-09  
[41] 2018-05-14  
[30] US (15/351,340) 2016-11-14

[21] **2,985,058**  
[13] A1

[51] **Int.Cl. B25B 27/02 (2006.01) B25B 27/00 (2006.01)**

[25] EN

[54] **BALL STUD SEPARATOR TOOL**

[54] **OUTIL SEPARATEUR DE PIVOT A ROTULE**

[72] DERUS, NICK, US  
[72] SELLS, SCOTT, US  
[72] THOMPSON, CHAD, US  
[72] POTTER, BRIAN TODD, US  
[72] REITH, KARL F., US  
[71] CATERPILLAR INC., US  
[22] 2017-11-09  
[41] 2018-05-14  
[30] US (15/350,211) 2016-11-14

[21] **2,985,064**  
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) B64D 41/00 (2006.01) H02H 7/22 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROTECTING A SOLID-STATE POWER CONTROLLER**

[54] **SYSTEME ET METHODE DE PROTECTION D'UN CONTROLEUR DE PUISSANCE A SEMI-CONDUCTEURS**

[72] HANDY, PETER JAMES, GB  
[72] GLENNY, MICHAEL, GB  
[71] GE AVIATION SYSTEMS LIMITED, GB  
[22] 2017-11-09  
[41] 2018-05-18  
[30] GB (1619504.2) 2016-11-18

[21] **2,985,068**  
[13] A1

[51] **Int.Cl. B25D 1/00 (2006.01)**

[25] EN

[54] **COMPACT HEAD BODY HAMMER**

[54] **MARTEAU DE CARROSSIER A TETE COMPACTE**

[72] NEUBAUER, KYLE, US  
[72] MOWRY, MICHAEL R., US  
[72] ANDERSEN, JONATHAN, US  
[71] SNAP-ON INCORPORATED, US  
[22] 2017-11-09  
[41] 2018-05-14  
[30] US (15/350,466) 2016-11-14

[21] **2,985,072**  
[13] A1

[51] **Int.Cl. H02H 3/00 (2006.01) B60L 11/18 (2006.01) B60S 5/00 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **ELECTRIC VEHICLE CHARGING CIRCUIT BREAKER**

[54] **DISJONCTEUR DE CIRCUIT DE RECHARGE DE VEHICULE ELECTRIQUE**

[72] ZHONG, KEVIN, CN  
[72] XIONG, TOM, CN  
[72] LACEY, DARRON KIRBY, US  
[72] ZHANG, SOPHIA, CN  
[72] DU, LILY, CN  
[71] EATON CORPORATION, US  
[22] 2017-11-09  
[41] 2018-05-14  
[30] US (15/350,244) 2016-11-14

**Canadian Applications Open to Public Inspection  
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[21] **2,985,220**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 50/30 (2016.01) A61B 90/00 (2016.01) A61F 2/12 (2006.01)**

[25] EN

[54] **DEVICE FOR THE DELIVERY OF A PROSTHETIC IMPLANT AND METHOD OF USE THEREOF**

[54] **DISPOSITIF DE DISTRIBUTION D'UN IMPLANT PROSTHETIQUE ET METHODE D'UTILISATION ASSOCIEE**

[72] ROSENBERG, PAUL, US

[71] PROXIMATE CONCEPTS LLC, US

[22] 2017-11-14

[41] 2018-05-15

[30] US (15/352,079) 2016-11-15

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[21] **2,985,242**  
[13] A1

[51] **Int.Cl. E21B 43/119 (2006.01) E21B 43/11 (2006.01)**

[25] EN

[54] **SWITCH SUB WITH TWO WAY SEALING FEATURES AND METHOD**

[54] **COMMUTATEUR AUXILIAIRE DOTE DE FONCTIONNALITES D'ETANCHEISATION DEUX VOIES ET METHODES**

[72] SULLIVAN, SHELBY IEE, US

[71] GEODYNAMICS, INC., US

[22] 2017-11-10

[41] 2018-05-17

[30] US (62/423,648) 2016-11-17

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[21] **2,985,259**  
[13] A1

[51] **Int.Cl. E04D 1/36 (2006.01) E04D 1/28 (2006.01) E04D 3/35 (2006.01) E04D 3/38 (2006.01) E04D 5/10 (2006.01)**

[25] EN

[54] **ASPHALT SHINGLES WITH A FIRE-RETARDANT ADDITIVE**

[54] **BARDEAUX D'ASPHALTE DOTES D'UN ADDITIF IGNIFUGEANT**

[72] VERHOFF, JONATHAN MICHAEL, US

[72] LEWIS, BARRY MICHAEL, US

[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US

[22] 2017-11-10

[41] 2018-05-14

[30] US (62/421,471) 2016-11-14

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[21] **2,985,266**  
[13] A1

[51] **Int.Cl. G08G 1/052 (2006.01) G08G 1/017 (2006.01) B60R 21/34 (2011.01) G08G 1/054 (2006.01)**

[25] EN

[54] **PHOTOGRAPHIC SYSTEM FOR USE ON SCHOOL BUSES**

[54] **SYSTEME PHOTOGRAPHIQUE DESTINE AUX AUTOBUS SCOLAIRES**

[72] BEDARD, JACQUES, CA

[71] BEDARD, JACQUES, CA

[22] 2017-11-14

[41] 2018-05-14

[30] GB (1619284.1) 2016-11-14

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[21] **2,985,269**  
[13] A1

[51] **Int.Cl. B67D 1/08 (2006.01) B67D 3/00 (2006.01)**

[25] EN

[54] **PORTABLE WATER DISPENSER HAVING A PRESSURE BOOSTER FAUCET FOR PUSHING WATER THROUGH AN IONIZING DEVICE**

[54] **DISTRIBUTEUR D'EAU PORTATIF COMPORTANT UN ROBINET A PRESSION AUGMENTEE SERVANT A POUSSER L'EAU DANS UN APPAREIL D'IONISATION**

[72] GARCIA, VICENTE P., CA

[71] GARCIA, VICENTE P., CA

[22] 2017-11-14

[41] 2018-05-17

[30] GB (1619493.8) 2016-11-17

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[21] **2,985,282**  
[13] A1

[51] **Int.Cl. G09B 21/00 (2006.01) G09B 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR BRAILLE GRADING TOOLS**

[54] **SYSTEMES ET METHODES DE GESTION D'OUTILS DE CLASSEMENT EN BRAILLE**

[72] TKKUN, SEAN, US

[72] KELLY, STACY, US

[72] ADULSERANEE, ROSARIN, US

[71] BOARD OF TRUSTEES OF NORTHERN ILLINOIS UNIVERSITY, US

[22] 2017-11-09

[41] 2018-05-14

[30] US (62/421,600) 2016-11-14

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[21] **2,985,428**  
[13] A1

[51] **Int.Cl. F16L 33/22 (2006.01) F16L 13/00 (2006.01) F16L 19/08 (2006.01) F16L 33/207 (2006.01) F16L 47/00 (2006.01)**

[25] EN

[54] **INDICATING CRIMP RING**

[54] **BAGUE DE COMPRESSION DOTE D'UN INDICATEUR**

[72] TWAROSKI, JACOB D., US

[71] ZURN INDUSTRIES, LLC, US

[22] 2017-11-14

[41] 2018-05-15

[30] US (62/422,468) 2016-11-15

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[21] **2,985,432**  
[13] A1

[51] **Int.Cl. C10M 133/16 (2006.01) C10M 159/20 (2006.01)**

[25] EN

[54] **LUBRICATING OIL ADDITIVES**

[54] **ADDITIFS D'HUILE LUBRIFIANTE**

[72] DOWDING, PETER JOHN, GB

[72] EIS, ELIN JOHANNA, GB

[71] INFINEUM INTERNATIONAL LIMITED, GB

[22] 2017-11-14

[41] 2018-05-14

[30] EP (16198670.8) 2016-11-14

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[21] **2,985,433**  
[13] A1

[51] **Int.Cl. G01V 13/00 (2006.01) G01V 1/18 (2006.01) G01V 1/36 (2006.01)**

[25] EN

[54] **VIBRATION-ANALYSIS SYSTEM AND METHOD THEREFOR**

[54] **SYSTEME D'ANALYSE DE VIBRATION ET METHODE ASSOCIEE**

[72] HOWE, WILSON, CA

[71] SYMROC BUSINESS AND PROJECT MANAGEMENT LTD., CA

[22] 2017-11-14

[41] 2018-05-14

[30] CA (2,967,629) 2017-05-19

[30] CA (2,948,437) 2016-11-14

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**Demandes canadiennes mises à la disponibilité du public**  
**13 mai 2018 au 19 mai 2018**

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[21] **2,985,436**  
[13] A1

[51] **Int.Cl. E06B 9/38 (2006.01) E06B 9/264 (2006.01) E06B 9/36 (2006.01)**  
[25] EN  
[54] **LIGHT BLOCKING SYSTEM FOR VERTICAL BLIND**  
[54] **SYSTEME DE BLOCAGE DE LUMIERE DESTINE A UN STORE VERTICAL**  
[72] WEN, YU-CHE, CN  
[72] CHANG, CHIH-YAO, CN  
[72] CHEN, LIN, CN  
[72] LU, CHIN-TAI, CN  
[72] NIEN, KENG-HAO, CN  
[72] NIEN, CHAO-HUNG, CN  
[71] NIEN MADE ENTERPRISE CO., LTD., CN  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421,792) 2016-11-14

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[21] **2,985,438**  
[13] A1

[51] **Int.Cl. E04B 2/86 (2006.01)**  
[25] EN  
[54] **CONCRETE FORM WITH REMOVABLE SIDEWALL**  
[54] **FORME DE BETON A PAROI AMOVIBLE**  
[72] CROSBY, BRADLEY J., US  
[71] AIRLITE PLASTICS CO., US  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421,657) 2016-11-14  
[30] US (62/446,183) 2017-01-01

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[21] **2,985,450**  
[13] A1

[51] **Int.Cl. A61G 5/10 (2006.01) A61G 5/00 (2006.01) G08G 1/09 (2006.01) G06N 3/02 (2006.01)**  
[25] EN  
[54] **AUTOMATICALLY RECOMMENDING CHANGES TO WHEELCHAIR SETTING BASED ON USAGE DATA**  
[54] **RECOMMANDATION AUTOMATIQUE DE CHANGEMENTS A UN PARAMETRE DE FAUTEUIL ROULANT FONDEE SUR LES DONNEES D'UTILISATION**  
[72] EVANS, DAVID RICHARD, CA  
[72] FERGUSON-PELL, MARTIN W., CA  
[72] SALIMI, ZOHREH, CA  
[71] REDLINER INC., CA  
[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421,684) 2016-11-14

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[21] **2,985,512**  
[13] A1

[51] **Int.Cl. B62D 55/00 (2006.01)**  
[25] EN  
[54] **ACTUATED SCRATCHERS FOR A TRACKED VEHICLE**  
[54] **RACLEURS ACTIONNES DESTINES A UN VEHICULE CHENILLE**  
[72] BERNIER, MORGAN L., US  
[71] ARCTIC CAT INC., US  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421,577) 2016-11-14

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[21] **2,985,580**  
[13] A1

[51] **Int.Cl. H05B 37/02 (2006.01) F21S 8/00 (2006.01) F21S 9/02 (2006.01) F21V 23/02 (2006.01) F21V 25/10 (2006.01) H02J 9/02 (2006.01)**  
[25] EN  
[54] **DUAL-DISTRIBUTION LIGHTING DEVICE FOR LIGHTING SYSTEMS**  
[54] **APPAREIL D'ECLAIRAGE A DOUBLE DISTRIBUTION DESTINE A DES SYSTEMES D'ECLAIRAGE**  
[72] NELSON, KENNETH EDWIN, US  
[72] HANLEY, MICHAEL G., US  
[72] BOWLES, DALE R., US  
[71] ABL IP HOLDING LLC, US  
[22] 2017-11-15  
[41] 2018-05-18  
[30] US (62/423,874) 2016-11-18

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[21] **2,985,583**  
[13] A1

[51] **Int.Cl. A01G 2/00 (2018.01) A01G 9/00 (2018.01)**  
[25] EN  
[54] **PLANTING SYSTEM FOR OPTIMIZATION OF PLANT GROWTH**  
[54] **SYSTEME DE PLANTATION VISANT L'OPTIMISATION DE LA CROISSANCE DE VEGETAUX**  
[72] KAMINSKI, KRISTOPHER R., US  
[72] MARTIANGE, RYAN E., US  
[71] PRECISION CULTIVATION SYSTEMS HOLDINGS, LLC, US  
[22] 2017-11-14  
[41] 2018-05-15  
[30] US (15/351,939) 2016-11-15  
[30] US (15/808,629) 2017-11-09

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[21] **2,985,584**  
[13] A1

[51] **Int.Cl. E04H 12/00 (2006.01)**  
[25] EN  
[54] **UTILITY OR METER POLE TOP REINFORCEMENT METHOD AND APPARATUS**  
[54] **APPAREIL ET PROCEDE DE RENFORCEMENT DE DESSUS DE BORNE DE COMPTEUR D'ELECTRICITE OU DE SERVICE PUBLIC**  
[72] BUTLER, ROBERT P., US  
[71] PLS TECHNOLOGIES, INC., US  
[22] 2017-11-15  
[41] 2018-05-15  
[30] US (15/352,176) 2016-11-15

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[21] **2,985,586**  
[13] A1

[51] **Int.Cl. E03B 3/03 (2006.01)**  
[25] EN  
[54] **STORMWATER MANAGEMENT SYSTEM**  
[54] **SYSTEME DE GESTION DES EAUX DE PLUIE**  
[72] ZARRAONANDIA, DAVID, US  
[71] PRE-CON PRODUCTS, US  
[22] 2017-11-15  
[41] 2018-05-16  
[30] US (15/352,902) 2016-11-16

[21] **2,985,591**  
[13] A1

[51] **Int.Cl. G01S 17/74 (2006.01) A01C 23/02 (2006.01) A01G 7/00 (2006.01) C09K 11/00 (2006.01)**  
[25] EN  
[54] **METHOD TO USE A COLORED PHOTOLUMINESCENT COMPOSITION IN AGRICULTURAL APPLICATIONS**  
[54] **METHODE D'UTILISATION DE COMPOSITION PHOTOLUMINESCENTE COLOREE DANS LES APPLICATIONS AGRICOLES**  
[72] CAVANAUGH, KEVIN, US  
[72] CARTWRIGHT, TIMOTHY B., US  
[71] FLORATINE PRODUCTS GROUP, INC., US  
[22] 2017-11-15  
[41] 2018-05-16  
[30] US (62/422,784) 2016-11-16

[21] **2,985,592**  
[13] A1

[51] **Int.Cl. C02F 1/70 (2006.01) C01G 37/00 (2006.01) C02F 1/28 (2006.01) C02F 1/42 (2006.01) C02F 1/44 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR REMOVING CHROMIUM FROM AQUEOUS MEDIA**  
[54] **SYSTEMES ET METHODES D'EXTRACTION DE CHROME DE MILIEUX AQUEUX**  
[72] ARNOLD, JAMES M., US  
[71] WATER REMEDIATION TECHNOLOGY LLC, US  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421,778) 2016-11-14

[21] **2,985,604**  
[13] A1

[51] **Int.Cl. A01G 23/06 (2006.01) B66C 3/04 (2006.01) E02F 3/413 (2006.01)**  
[25] EN  
[54] **GRAPPLE TIP DEVICE AND METHOD**  
[54] **DISPOSITIF DE POINTE DE GRAPPIN ET METHODE**  
[72] BREMNER, RYAN, CA  
[71] BREMNER, RYAN, CA  
[22] 2017-11-15  
[41] 2018-05-15  
[30] US (15352502) 2016-11-15

[21] **2,985,607**  
[13] A1

[51] **Int.Cl. A21D 10/02 (2006.01) A21D 13/41 (2017.01) A21D 8/00 (2006.01) A21D 8/04 (2006.01) A21D 13/00 (2017.01)**  
[25] EN  
[54] **NON-PROOFED NON-FERMENTED YEAST RISING DOUGH AND METHOD FOR MAKING THE SAME**  
[54] **PATE A LA LEVURE NON FERMENTEE, NON APPRETEE ET METHODE DE FABRICATION ASSOCIEE**  
[72] CAI, RONGXUAN, US  
[72] SUPRENANT, PAT, US  
[72] KIRCKOF, AMBER, US  
[71] SFC GLOBAL SUPPLY CHAIN, INC., US  
[22] 2017-11-14  
[41] 2018-05-15  
[30] US (62/422,310) 2016-11-15

[21] **2,985,617**  
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01) G06F 21/76 (2013.01) G06F 11/36 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR NON-INTRUSIVE PROGRAM TRACING FOR EMBEDDED COMPUTING SYSTEMS**  
[54] **METHODE ET APPAREIL DE TRACAGE DE PROGRAMME NON INTRUSIF DESTINES A DES SYSTEMES INFORMATIQUES EMBARQUES**  
[72] MORENO, CARLOS, CA  
[72] FISCHMEISTER, SEBASTIAN, CA  
[71] MORENO, CARLOS, CA  
[71] FISCHMEISTER, SEBASTIAN, CA  
[22] 2017-11-15  
[41] 2018-05-15  
[30] US (62/422565) 2016-11-15

[21] **2,985,747**  
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01) A63G 21/00 (2006.01)**  
[25] EN  
[54] **AMUSEMENT ATTRACTION HAVING SMART SENSING OR CONTROL CAPABILITIES**  
[54] **MANEGE EQUIPE DE DETECTION INTELLIGENTE OU DE CAPACITES DE COMMANDE**  
[72] SEBULSKY, RICHARD A., CA  
[72] FINNEGAN, PATRICK L., US  
[72] BARRERA, CLAUDIO J., CA  
[72] KWASNICKI, TIMOTHY B., CA  
[71] WHITEWATER WEST INDUSTRIES LTD., CA  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421806) 2016-11-14

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[21] **2,985,748**  
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01)**  
[25] EN  
[54] **PLAY CENTER USING STRUCTURAL MONOLITHS FOR WATER DELIVERY CAPABILITIES**

[54] **MODULE DE JEU EMPLOYANT DES MONOLITHES STRUCTURAUX POUR OBTENIR LA CAPACITE DE DISTRIBUTION D'EAU**

[72] BRIGGS, RICK A., US  
[72] SNYDER, RYAN G., US  
[71] WHITEWATER WEST INDUSTRIES LTD., CA  
[22] 2017-11-14  
[41] 2018-05-14  
[30] US (62/421925) 2016-11-14

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[21] **2,985,751**  
[13] A1

[51] **Int.Cl. H02M 7/44 (2006.01) H02S 40/32 (2014.01) H02M 1/08 (2006.01)**  
[25] EN  
[54] **THREE-PHASE THREE-LEVEL INVERTER WITH REDUCED COMMON MODE LEAKAGE CURRENT**

[54] **ONDULEUR TROIS NIVEAUX ET TROIS PHASES, A COURANT DE FUITE EN MODE COMMUN REDUIT**

[72] JIAO, DA, US  
[72] LIU, YU, US  
[71] TOSHIBA INTERNATIONAL CORPORATION, US  
[22] 2017-11-15  
[41] 2018-05-15  
[30] US (15/352,325) 2016-11-15

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[21] **2,985,752**  
[13] A1

[51] **Int.Cl. A01K 1/00 (2006.01)**  
[25] EN  
[54] **CATTLE STALL SYSTEM**

[54] **SYSTEME DE STALLE DE BETAIL**

[72] DE JONGE, JOHN, CA  
[71] ARTEX BARN SOLUTIONS LTD., CA  
[22] 2017-11-16  
[41] 2018-05-16  
[30] US (62423104) 2016-11-16

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[21] **2,985,754**  
[13] A1

[51] **Int.Cl. H02B 1/38 (2006.01) H02B 1/28 (2006.01)**  
[25] EN  
[54] **ONE OR MORE DOORS WITH ONE OR MORE ANGLED SIDE FLANGES FOR ELECTRICAL PANEL ENCLOSURE**

[54] **UNE OU PLUSIEURS PORTES AYANT UNE OU PLUSIEURS BRIDES LATERALES ANGULAIRES DESTINEES A UNE ENCEINTE DE PANNEAU ELECTRIQUE**

[72] REESE, ROBERT J., US  
[72] HUGGINS, KEN, US  
[72] MEVIUS, JASON S., US  
[71] COOPER TECHNOLOGIES COMPANY, US  
[22] 2017-11-16  
[41] 2018-05-17  
[30] US (62/423582) 2016-11-17

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[21] **2,985,755**  
[13] A1

[51] **Int.Cl. H02B 1/28 (2006.01) H02B 1/38 (2006.01)**  
[25] EN  
[54] **ELECTRICAL PANEL ENCLOSURE INCLUDING BAFFLE TO INHIBIT WATER INGRESS**

[54] **ENCEINTE DE PANNEAU ELECTRIQUE COMPORTANT UNE CHICANE SERVANT A EMPECHER LA PENETRATION D'EAU**

[72] REESE, ROBERT J., US  
[72] HUGGINS, KEN, US  
[72] MEVIUS, JASON S., US  
[71] COOPER TECHNOLOGIES COMPANY, US  
[22] 2017-11-16  
[41] 2018-05-17  
[30] US (62/423573) 2016-11-17

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[21] **2,985,756**  
[13] A1

[51] **Int.Cl. F24H 9/20 (2006.01) F22B 37/46 (2006.01) F23N 5/24 (2006.01) H01H 35/18 (2006.01)**  
[25] EN  
[54] **LOW WATER MECHANICAL CSD-1 MANUAL SWITCH CONVERSION TO ELECTRO-MECHANICAL SWITCH**

[54] **CONVERSION D'INTERRUPTEUR MANUEL CSD-1 MECANIQUE A FAIBLE DEBIT D'EAU EN INTERRUPTEUR ELECTROMECHANIQUE**

[72] SHAH, PRATIK NARESH, US  
[72] STEPHENS, RONAN, US  
[72] GU, JAMES J., US  
[71] FLUID HANDLING LLC, US  
[22] 2017-11-16  
[41] 2018-05-16  
[30] US (62/422,802) 2016-11-16

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[21] **2,985,762**  
[13] A1

[51] **Int.Cl. B65B 51/02 (2006.01)**  
[25] EN  
[54] **SEALING APPARATUS AND METHOD FOR SEALING PACKAGES**

[54] **APPAREIL D'ETANCHEISATION ET METHODE D'ETANCHEISATION D'EMBALLAGES**

[72] THIENST, ANDREAS, DE  
[72] WOLF, ACHIM, DE  
[72] MAJOR, FRITZ, DE  
[72] EGELKRAUT, UDO, DE  
[72] BLUM, UWE, DE  
[71] HARRO HOFLIGER VERPACKUNGSMASCHINEN GMBH, DE  
[22] 2017-11-16  
[41] 2018-05-17  
[30] EP (16 400 052.3) 2016-11-17

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[21] **2,985,772**  
[13] A1

[51] **Int.Cl. E02F 3/36 (2006.01) E02F 3/40 (2006.01) E02F 9/28 (2006.01) E21C 27/30 (2006.01)**

[25] EN

[54] **MODULAR GROUND ENGAGEMENT TOOLING SYSTEM**

[54] **SYSTEME D'OUTILLAGE D'ENGAGEMENT DE SOL MODULAIRE**

[72] POPP, JAMES R., US

[72] NICOSON, RICHARD, US

[71] HARNISCHFEGER TECHNOLOGIES, INC., US

[22] 2017-11-16

[41] 2018-05-18

[30] US (62/424,161) 2016-11-18

[21] **2,985,774**  
[13] A1

[51] **Int.Cl. B60N 2/04 (2006.01)**

[25] EN

[54] **SEAT BASE ASSEMBLY AND LATCHING ASSEMBLY FOR A REAR-ENTRY VEHICLE**

[54] **ASSEMBLAGE DE BASE DE SIEGE ET ASSEMBLAGE DE VERROU DESTINE A UN VEHICULE A ENTREE ARRIERE**

[72] MOSS, MATTHEW D., US

[71] THE BRAUN CORPORATION, US

[22] 2017-11-16

[41] 2018-05-18

[30] US (62/423,900) 2016-11-18

[30] US (15/812,071) 2017-11-14

[21] **2,985,779**  
[13] A1

[51] **Int.Cl. E06B 3/44 (2006.01) E05D 13/00 (2006.01) E05D 15/24 (2006.01) E06B 3/48 (2006.01)**

[25] EN

[54] **IMPROVED OVERHEAD GARAGE DOOR SYSTEM WITH SEALING FEATURE**

[54] **SYSTEME DE PORTE DE GARAGE BASCULANTE AMELIORE DOTE D'UNE FONCTION D'ETANCHEISATION**

[72] BRUCKELMYER, DARYL W., US

[72] SUNDBERG, DAVID M., US

[71] BRUCKELMYER, DARYL W., US

[22] 2017-11-16

[41] 2018-05-18

[30] US (15/355693) 2016-11-18

[21] **2,985,782**  
[13] A1

[51] **Int.Cl. B60R 5/04 (2006.01) B60J 11/06 (2006.01) B60P 7/02 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR SECURING AN AREA IN A VEHICLE, METHODS OF MAKING DEVICES FOR SECURING AN AREA IN A VEHICLE, AND VEHICLES WITH A DEVICE FOR SECURING AN AREA**

[54] **DISPOSITIFS ET METHODES DE SECURISATION D'UNE ZONE DANS UN VEHICULE, METHODE DE FABRICATION DE DISPOSITIFS SERVANT A SECURISER UNE ZONE DANS UN VEHICULE ET VEHICULE EQUIPE D'UN DISPOSITIF DE SECURISATION D'UNE ZONE**

[72] GOLDWITZ, BRIAN, US

[71] GOLDWITZ, BRIAN, US

[22] 2017-11-17

[41] 2018-05-17

[30] US (15/724,522) 2017-10-04

[30] US (62/423,765) 2016-11-17

[21] **2,985,785**  
[13] A1

[51] **Int.Cl. E21D 21/00 (2006.01)**

[25] EN

[54] **CORROSION RESISTANT EXPANDABLE BOLT**

[54] **BOULON EXPANSIBLE RESISTANT A LA CORROSION**

[72] STANKUS, JOHN C., US

[72] FAULKNER, DAKOTA, US

[72] MA, KEVIN JINRONG, US

[72] RAGER, DAVID, US

[71] FCI HOLDINGS DELAWARE, INC., US

[22] 2017-11-16

[41] 2018-05-17

[30] US (62/423,225) 2016-11-17

[21] **2,985,792**  
[13] A1

[51] **Int.Cl. F25B 39/02 (2006.01) F25C 1/12 (2006.01)**

[25] EN

[54] **ICE MAKING MACHINE AND ICE CUBE EVAPORATOR**

[54] **MACHINE DE FABRICATION DE GLACE ET EVAPORATEUR DE CUBE DE GLACE**

[72] MELTON, GLENN O'NEAL, US

[72] WOLF, GREGG M., US

[72] SELLERS, DAVID ANGLIN, US

[72] TATUM, JEFFREY B., US

[72] AMALFITANO, ROBERT, US

[72] MIZUTANI, YASUKI, US

[72] BOGGS, JEFFREY BION, US

[72] HOTI, MILAIM, US

[71] HOSHIZAKI AMERICA, INC., US

[22] 2017-11-16

[41] 2018-05-17

[30] US (15/353,833) 2016-11-17

[21] **2,985,904**  
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01)**

[25] EN

[54] **APPARATUS FOR AUGMENTING VISION**

[54] **APPAREIL SERVANT A AUGMENTER LA VISION**

[72] GUPTA, AMITABHA, CA

[71] GUPTA, AMITABHA, CA

[22] 2017-11-17

[41] 2018-05-18

[30] US (15/355,707) 2016-11-18

[21] **2,985,921**  
[13] A1

[51] **Int.Cl. F16B 19/10 (2006.01) B21J 15/02 (2006.01) B62D 53/00 (2006.01) F16B 5/04 (2006.01)**

[25] EN

[54] **HOLLOW SHANK RIVET AND RIVET COUPLING METHOD**

[54] **RIVET A TIGE CREUSE ET METHODE D'ACCOUPLMENT DE RIVET**

[72] EHRlich, RODNEY P., US

[72] KUNKEL, DAVID P., US

[71] WABASH NATIONAL, L.P., US

[22] 2017-11-17

[41] 2018-05-18

[30] US (62/423,955) 2016-11-18

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[21] **2,985,940**  
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01) H02J 3/40 (2006.01) H02J 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR LOCAL POWER GENERATION**

[54] **SYSTEME ET METHODE DE PRODUCTION D'ENERGIE LOCALE**

[72] VELTRI, JEFFREY ALLAN, CA

[71] VELTRI, JEFFREY ALLAN, CA

[22] 2017-11-16

[41] 2018-05-16

[30] US (62/423,072) 2016-11-16

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[21] **2,985,946**  
[13] A1

[51] **Int.Cl. G07D 5/00 (2006.01) G06K 7/10 (2006.01) G07F 1/06 (2006.01)**

[25] EN

[54] **INSPECTION SYSTEM, INSPECTING DEVICE AND GAMING CHIP**

[54] **SYSTEME D'INSPECTION, APPAREIL D'INSPECTION ET PUCE DE JEU**

[72] SHIGETA, YASUSHI, JP

[71] ANGEL PLAYING CARDS CO., LTD., JP

[22] 2017-11-17

[41] 2018-05-18

[30] JP (2016-225540) 2016-11-18

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[21] **2,985,950**  
[13] A1

[51] **Int.Cl. G07D 5/00 (2006.01) G06K 7/10 (2006.01) G07F 1/06 (2006.01)**

[25] EN

[54] **INSPECTION SYSTEM, INSPECTING DEVICE, AND GAMING CHIP**

[54] **SYSTEME D'INSPECTION, APPAREIL D'INSPECTION ET PUCE DE JEU**

[72] SHIGETA, YASUSHI, JP

[71] ANGEL PLAYING CARDS CO., LTD., JP

[22] 2017-11-17

[41] 2018-05-18

[30] JP (2016-225540) 2016-11-18

[30] JP (2017-100318) 2017-04-29

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[21] **2,985,960**  
[13] A1

[51] **Int.Cl. F24C 15/24 (2006.01) A47J 36/36 (2006.01) A47J 37/07 (2006.01) F24C 3/04 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR DECREASING RADIATIVE HEAT FLUX OF INFRARED ENERGY**

[54] **DISPOSITIF ET METHODE SERVANT A DIMINUER LE FLUX DE CHALEUR RAYONNANTE D'ENERGIE INFRAROUGE**

[72] BEST, RACHAEL KEARSE, US

[71] BEST, RACHAEL KEARSE, US

[22] 2017-11-17

[41] 2018-05-17

[30] US (15/814,977) 2017-11-16

[30] US (62/423,520) 2016-11-17

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[21] **2,985,961**  
[13] A1

[51] **Int.Cl. G06F 17/30 (2006.01) G16H 10/00 (2018.01) G06F 17/27 (2006.01)**

[25] EN

[54] **DOMAIN SPECIFIC LANGUAGE TO QUERY MEDICAL DATA**

[54] **LANGAGE PROPRE AU DOMAINE SERVANT A FAIRE UNE REQUETE DE DONNEES MEDICALES**

[72] BELCHER, THOMAS, AU

[72] MCKENNA, SIMON, AU

[71] RADICALOGIC TECHNOLOGIES, INC. DBA RL SOLUTIONS, CA

[22] 2017-11-17

[41] 2018-05-17

[30] US (62/423,429) 2016-11-17

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[21] **2,985,964**  
[13] A1

[51] **Int.Cl. F24D 15/04 (2006.01) F24F 11/30 (2018.01) F24T 50/00 (2018.01) F24D 3/18 (2006.01) F24D 5/12 (2006.01) F24D 19/00 (2006.01)**

[25] EN

[54] **HYBRID RESIDENTIAL GROUND-COUPLED HEAT PUMP**

[54] **POMPE A CHALEUR RESIDENTIELLE HYBRIDE COUPLEE A LA TERRE**

[72] CRAWFORD, ROY, US

[71] TRANE INTERNATIONAL INC., US

[22] 2017-11-17

[41] 2018-05-18

[30] US (62/424,160) 2016-11-18

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[21] **2,985,972**  
[13] A1

[51] **Int.Cl. B65D 6/18 (2006.01) B65D 6/16 (2006.01)**

[25] EN

[54] **COLLAPSIBLE CONTAINER**

[54] **CONTENANT ECRASABLE**

[72] ENGLERT, TRAVIS JAMES, US

[72] APPS, WILLIAM P., US

[72] KALINOWSKI, DANE GIN MUN, US

[71] REHRIG PACIFIC COMPANY, US

[22] 2017-11-17

[41] 2018-05-17

[30] US (62/423,728) 2016-11-17

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[21] **2,985,983**  
[13] A1

[51] **Int.Cl. A47C 1/00 (2006.01) A47C 4/44 (2006.01) A47C 13/00 (2006.01)**

[25] EN

[54] **PORTABLE ADJUSTABLE CHAIR**

[54] **CHAISE REGLABLE PORTATIVE**

[72] BROWN, SHAUN WALTER, CA

[71] BROWN, SHAUN WALTER, CA

[22] 2017-11-17

[41] 2018-05-18

[30] US (62/423,921) 2016-11-18

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[21] **2,986,170**  
[13] A1

[51] **Int.Cl. G09F 9/00 (2006.01) E01F 9/662 (2016.01) G05D 3/00 (2006.01) G08G 1/01 (2006.01) G01P 5/06 (2006.01)**

[25] EN

[54] **PORTABLE TRAFFIC MESSAGE SIGN**

[54] **PANNEAU DE MESSAGE DE CIRCULATION PORTATIF**

[72] NICHOLSON, BRIAN, US

[72] NICHOLSON, ADAM, US

[71] ADDCO ACQUISITION LLC, US

[22] 2017-11-20

[41] 2018-05-18

[30] US (62/423,822) 2016-11-18

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May 13, 2018 to May 19, 2018**

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[21] **2,997,766**

[13] A1

[51] **Int.Cl. F03D 3/04 (2006.01)**

[25] EN

[54] **COMPOUNDED, INTERACTIVE  
VORTEX ACCELERATION  
RECOVERY ENERGY TOWER,  
NAMED: CIVAR ENERGY TOWER**

[54] **TOUR D'ENERGIE DE  
RECUPERATION A  
ACCELERATION DE  
TOURBILLON INTERACTIVE  
COMPOSEE NOMMEE TOUR  
D'ENERGIE CIVAR**

[72] MIZERIT, BRANKO, CA

[71] MIZERIT, BRANKO, CA

[22] 2018-03-08

[41] 2018-05-16

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[21] **2,998,260**

[13] A1

[51] **Int.Cl. E04C 3/00 (2006.01) E04C 3/04  
(2006.01) E04C 3/12 (2006.01)**

[25] EN

[54] **FRAMING LUMBER AND METAL  
FRAMING PROFILES WITH PRE-  
MARKED PLACEMENTS GUIDES**

[54] **BOIS DE CHARPENTE ET  
PROFILES DE CHARPENTE  
METALLIQUE DOTES DE GUIDES  
DE POSITIONNEMENT  
PREMARQUES**

[72] FROESE, ANDREAS, CA

[71] FROESE, ANDREAS, CA

[22] 2018-03-19

[41] 2018-05-18

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[21] <b>2,981,218</b> [13] A1	[21] <b>2,981,449</b> [13] A1	[21] <b>2,981,650</b> [13] A1
[51] <b>Int.Cl. C10G 27/02 (2006.01) C10G 27/12 (2006.01)</b>	[51] <b>Int.Cl. H04L 1/00 (2006.01) H04W 52/34 (2009.01) H04L 5/00 (2006.01)</b>	[51] <b>Int.Cl. G02F 1/29 (2006.01) G02F 1/01 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>PROCESS FOR MANAGING SULPHUR SPECIES</b>	[54] <b>TRANSMISSION POWER CONTROL FOR AN UPLINK CONTROL CHANNEL</b>	[54] <b>METHOD AND APPARATUS FOR SIMULATING ELECTROMAGNETIC RADIATION PATH MODIFYING DEVICES</b>
[54] <b>PROCEDE DE CONTROLE D'ESPECES SOUFREES</b>	[54] <b>REGULATION DE PUISSANCE D'EMISSION POUR UN CANAL DE COMMANDE EN LIAISON MONTANTE</b>	[54] <b>PROCEDE ET APPAREIL PERMETTANT DE SIMULER DES DISPOSITIFS MODIFICATEURS DE TRAJET DU RAYONNEMENT ELECTROMAGNETIQUE</b>
[72] PORTER, TERRY, CA	[72] PAPASAKELLARIOU, ARIS, US	[72] JONES, CHRISTOPHER CHARLES RAWLINSON, GB
[72] SIH, BRYAN, CA	[71] SAMSUNG ELECTRONICS CO., LTD., KR	[72] COLOSIMO, NICHOLAS GIACOMO ROBERT, GB
[71] CES TECHNOLOGY S.A.R.L., LU	[85] 2017-09-29	[71] BAE SYSTEMS PLC, GB
[85] 2017-09-28	[86] 2016-04-06 (PCT/KR2016/003612)	[85] 2017-10-03
[86] 2016-06-17 (PCT/IB2016/053627)	[87] (WO2016/163759)	[86] 2016-04-04 (PCT/GB2016/050948)
[87] (WO2016/203449)	[30] US (62/143,603) 2015-04-06	[87] (WO2016/162668)
[30] US (62/181,023) 2015-06-17	[30] US (62/172,946) 2015-06-09	[30] GB (1506079.1) 2015-04-10
	[30] US (62/191,309) 2015-07-10	[30] EP (15275113.7) 2015-04-10
	[30] US (15/089,314) 2016-04-01	
[21] <b>2,981,241</b> [13] A1	[21] <b>2,981,638</b> [13] A1	[21] <b>2,981,760</b> [13] A1
[51] <b>Int.Cl. B41F 16/00 (2006.01) B26D 1/40 (2006.01) B26D 5/32 (2006.01) B26F 1/38 (2006.01) B41F 13/02 (2006.01) B41F 13/56 (2006.01) B41F 19/00 (2006.01) B41F 19/06 (2006.01) B41F 33/00 (2006.01)</b>	[51] <b>Int.Cl. H04L 12/801 (2013.01) H04L 12/825 (2013.01) H04L 12/835 (2013.01)</b>	[51] <b>Int.Cl. H01H 89/00 (2006.01) H01H 7/00 (2006.01) H02H 3/02 (2006.01) H02H 7/20 (2006.01) H02H 7/26 (2006.01) H02J 13/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>APPARATUS AND METHOD FOR CUTTING, PRINTING OR EMBOSSING</b>	[54] <b>DATA FLOW CONTROL METHOD AND SYSTEM</b>	[54] <b>JUNCTION BOX AND NETWORK FOR DISTRIBUTING ENERGY</b>
[54] <b>APPAREIL ET PROCEDE PERMETTANT DE COUPER, D'IMPRIMER OU DE GAUFRE</b>	[54] <b>PROCEDE ET SYSTEME DE COMMANDE DE FLUX DE DONNEES</b>	[54] <b>BOITIER DE RACCORDEMENT ET RESEAU DE DISTRIBUTION D'ENERGIE</b>
[72] ADAMS, MIKE, GB	[72] DO, MANH HUNG PETER, CA	[72] WITT, JOHN, DE
[72] WRACK, PHIL, GB	[72] CAO, SHUXUN, CN	[72] HUHMAN, ANDREAS, DE
[71] AB GRAPHIC INTERNATIONAL LTD, GB	[71] ORBITAL MULTI MEDIA HOLDINGS CORPORATION, VG	[71] HARTING ELECTRIC GMBH & CO. KG, DE
[85] 2017-09-28	[85] 2017-10-03	[85] 2017-10-04
[86] 2016-05-19 (PCT/GB2016/000102)	[86] 2015-04-01 (PCT/GB2015/051026)	[86] 2016-03-23 (PCT/DE2016/100139)
[87] (WO2016/193650)	[87] (WO2015/150812)	[87] (WO2016/162012)
[30] GB (GB1509471.7) 2015-06-02	[30] GB (1406048.7) 2014-04-03	[30] DE (10 2015 105 370.5) 2015-04-09
	[30] GB (1418455.0) 2014-10-17	

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[21] **2,981,869**  
[13] A1

[51] **Int.Cl. G02B 1/11 (2015.01) G02B 1/111 (2015.01) G06F 1/16 (2006.01)**

[25] EN

[54] **COMPONENT AND ELECTRONIC DEVICE**

[54] **COMPOSANTE ET DISPOSITIF ELECTRONIQUE**

[72] ZHAO, KUIBING, CN

[72] GUO, WENPING, CN

[72] MA, DONG, CN

[72] GUO, JINHAI, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2017-10-10

[86] 2016-06-08 (PCT/CN2016/085349)

[87] (2981869)

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[21] **2,981,922**  
[13] A1

[51] **Int.Cl. H01R 13/514 (2006.01) H01R 13/518 (2006.01) H01R 13/652 (2006.01)**

[25] EN

[54] **MODULAR PLUG CONNECTOR**

[54] **CONNECTEUR ENFICHABLE MODULAIRE**

[72] SCHLEGEL, BERNARD, DE

[71] HARTING ELECTRIC GMBH & CO. KG, DE

[85] 2017-10-05

[86] 2016-04-18 (PCT/DE2016/100182)

[87] (WO2016/173581)

[30] DE (10 2015 106 416.2) 2015-04-27

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[21] **2,982,419**  
[13] A1

[51] **Int.Cl. H05K 3/04 (2006.01) B41J 2/32 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR MANUFACTURING PRINTED CIRCUIT BOARDS FOR ELECTRICAL AND/OR ELECTRONIC CIRCUITS**

[54] **DISPOSITIF ET METHODE DE FABRICATION DE CARTES DE CIRCUIT IMPRIME DESTINEES A DES CIRCUITS ELECTRIQUES OU ELECTRONIQUES**

[72] FRANCK, JAN, DE

[71] FRANCK, JAN, DE

[85] 2017-10-11

[86] 2016-04-13 (PCT/IB2016/000465)

[87] (WO2016/166590)

[30] DE (102015004508.3) 2015-04-13

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[21] **2,982,431**  
[13] A1

[51] **Int.Cl. H01R 13/62 (2006.01) H01R 13/627 (2006.01)**

[25] EN

[54] **CONNECTOR ASSEMBLY**

[54] **ENSEMBLE CONNECTEUR**

[72] DAVIES, MARCUS, GB

[72] GARDNER, ANDREW, GB

[72] WHITWORTH, DAVID, GB

[71] AB CONNECTORS LTD, GB

[85] 2017-10-11

[86] 2016-04-14 (PCT/GB2016/051044)

[87] (WO2016/166538)

[30] GB (1506418.1) 2015-04-15

[30] GB (1516325.6) 2015-09-15

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[21] **2,982,798**  
[13] A1

[51] **Int.Cl. H02P 9/02 (2006.01) H02P 29/024 (2016.01)**

[25] EN

[54] **METHOD FOR DETECTING AN IMMINENT POLE SLIP**

[54] **PROCEDE POUR LA RECONNAISSANCE D'UN GLISSEMENT DE POLE IMMINENT**

[72] FAHRINGER, ALBERT, AT

[72] KRUCKENHAUSER, ERICH, AT

[71] GE JENBACHER GMBH & CO OG, AT

[85] 2017-10-05

[86] 2016-04-11 (PCT/AT2016/000036)

[87] (WO2016/164944)

[30] AT (A 233/2015) 2015-04-17

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[21] **2,983,241**  
[13] A1

[51] **Int.Cl. H05B 37/00 (2006.01) F21K 9/00 (2016.01) F21S 4/24 (2016.01) F21V 23/00 (2015.01) H05B 37/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR RETROFITTING FLUORESCENT TUBE LAMPS TO LIGHT EMITTING DIODES**

[54] **METHODE ET APPAREIL DE TRANSFORMATION DE LAMPES A TUBE FLUORESCENT EN DIODES ELECTROLUMINESCENTES**

[72] KWOK, LEO, US

[72] YU, SIMON SIU-CHI, US

[71] SHENZHEN SOLAR SMART TECHNOLOGY CO., LTD., CN

[71] ULUXUS LLC, US

[85] 2017-10-23

[86] 2017-05-10 (PCT/CN2017/083748)

[87] (2983241)

[30] US (62/494,942) 2016-08-27

[30] US (15/433,778) 2017-02-15

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[21] **2,983,801**  
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) G06K 19/07 (2006.01) G01K 7/02 (2006.01)**

[25] EN

[54] **TEMPERATURE CONTROLLER**

[54] **REGULATEUR DE TEMPERATURE**

[72] NEWTON, MARK, GB

[71] LMK THERMOSAFE LIMITED, GB

[85] 2017-10-24

[86] 2016-05-27 (PCT/GB2016/051540)

[87] (WO2017/001815)

[30] GB (1511455.6) 2015-06-30



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[21] **2,983,925**  
[13] A1

[51] **Int.Cl. G06F 17/30 (2006.01)**  
[25] EN  
[54] **MANAGEMENT OF MULTIPLE CLUSTERS OF DISTRIBUTED FILE SYSTEMS**  
[54] **GESTION DE GROUPEMENTS MULTIPLES DE SYSTEMES DE FICHIERS DISTRIBUES**  
[72] GUO, LEI, CA  
[72] CHEN, JIN, CA  
[72] CHEN, CHONG, CA  
[72] KE, XIAODI, CA  
[72] CHEN, CHEN, CA  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2017-10-26  
[86] 2017-08-07 (PCT/CN2017/096233)  
[87] (2983925)  
[30] US (15/585,815) 2017-05-03  
[30] US (62/422,751) 2016-11-16

[21] **2,984,086**  
[13] A1

[51] **Int.Cl. H02J 3/24 (2006.01) H02J 3/00 (2006.01) H02J 13/00 (2006.01)**  
[25] EN  
[54] **CONTROL OF AN ELECTRICAL POWER NETWORK**  
[54] **COMMANDE D'UN RESEAU ELECTRIQUE MAILLE**  
[72] WILSON, DOUGLAS, GB  
[72] BAGLEYBTER, OLEG, GB  
[72] NORRIS, SEAN, GB  
[72] MALEKA, KYRIAKI, GB  
[71] ALSTOM GRID UK LIMITED, GB  
[85] 2017-10-26  
[86] 2016-04-29 (PCT/GB2016/051259)  
[87] (WO2016/174476)  
[30] GB (1507349.7) 2015-04-29

[21] **2,984,465**  
[13] A1

[51] **Int.Cl. H01R 13/506 (2006.01) H01R 13/74 (2006.01) H01R 12/79 (2011.01) H01R 13/62 (2006.01)**  
[25] EN  
[54] **A METHOD OF MOUNTING AN ELECTRICAL CONNECTOR TO FLEXIBLE PLANAR MATERIAL AND APPARATUS THEREFOR**  
[54] **PROCEDE DE MONTAGE D'UN CONNECTEUR ELECTRIQUE SUR UN MATERIAU PLAN FLEXIBLE ET APPAREIL ASSOCIE**  
[72] DAVIES, MARCUS, GB  
[72] GARDNER, ANDREW, GB  
[72] WHITWORTH, DAVID, GB  
[71] AB CONNECTORS LTD, GB  
[85] 2017-10-31  
[86] 2016-04-29 (PCT/GB2016/051261)  
[87] (WO2016/178010)  
[30] GB (1507591.4) 2015-05-01  
[30] GB (1516315.7) 2015-09-15

[21] **2,984,479**  
[13] A1

[51] **Int.Cl. H03M 13/27 (2006.01) H03M 13/11 (2006.01)**  
[25] EN  
[54] **RECEIVER AND SIGNAL PROCESSING METHOD THEREOF**  
[54] **RECEPTEUR ET SON PROCEDE DE TRAITEMENT DE SIGNAL**  
[72] OH, YOUNG-HO, KR  
[72] MYUNG, SE-HO, KR  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2017-10-31  
[86] 2016-05-27 (PCT/KR2016/005638)  
[87] (WO2016/195331)  
[30] KR (10-2015-0076544) 2015-05-29

[21] **2,984,569**  
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) A61K 38/10 (2006.01) A61K 38/17 (2006.01) C07K 1/36 (2006.01) C07K 7/08 (2006.01)**  
[25] EN  
[54] **A SCORPION VENOM HEAT-RESISTANT SYNTHETIC PEPTIDE AND APPLICATIONS THEREOF**  
[54] **UN PEPTIDE SYNTHETIQUE DU VENIN DE SCORPION RESISTANT A LA CHALEUR ET UTILISATIONS ASSOCIEES**  
[72] ZHAO, JIE, CN  
[72] LI, SHAO, CN  
[72] ZHANG, WANQIN, CN  
[71] DALIAN MEDICAL UNIVERSITY, CH  
[85] 2018-01-03  
[86] 2016-12-26 (PCT/CN2016/112078)  
[87] (2984569)  
[30] CN (201610645111.7) 2016-08-08

[21] **2,984,657**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ENSURING QUALITY OF SERVICE IN A COMPUTE WORKFLOW**  
[54] **SYSTEME ET METHODE PERMETTANT D'ASSURER LA QUALITE DE SERVICE DANS UN FLUX DE TRAVAIL CALCULE**  
[72] SANJABI, SAM, CA  
[72] CHEN, CHONG, CA  
[72] POURNAGHI, REZA, CA  
[72] BERGSMA, SHANE ANTHONY, CA  
[72] PEI, WEI, CA  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2017-11-03  
[86] 2017-08-07 (PCT/CN2017/096235)  
[87] (2984657)  
[30] US (15/607,721) 2017-05-30  
[30] US (62/423,894) 2016-11-18

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[21] **2,984,887**  
[13] A1

[51] **Int.Cl. H04B 10/116 (2013.01)**  
[25] EN  
[54] **METHOD FOR CHANGING THE IDENTIFICATION CODE OF A LIGHT SOURCE IN VISIBLE LIGHT COMMUNICATION SYSTEMS**

[54] **PROCEDE POUR CHANGER LE CODE D'IDENTIFICATION D'UNE SOURCE DE LUMIERE DANS DES SYSTEMES DE COMMUNICATION PAR LUMIERE VISIBLE**

[72] SAES, MARC, NL  
[72] LYDECKER, STEPHEN HAIGHT, US  
[71] ELDOLAB HOLDING B.V., NL  
[85] 2017-11-02  
[86] 2016-05-03 (PCT/NL2016/050318)  
[87] (WO2016/178572)  
[30] NL (2014776) 2015-05-07

[21] **2,985,018**  
[13] A1

[51] **Int.Cl. H01R 13/52 (2006.01) H01R 13/447 (2006.01)**  
[25] EN  
[54] **PROTECTIVE CAP FOR AN ATTACHMENT HOUSING**

[54] **COUVERCLE DE PROTECTION POUR UN BOITIER RAPPORTE**

[72] GRIEPENSTROH, SEBASTIAN, DE  
[72] SCHENK, FLORIAN, DE  
[71] HARTING ELECTRIC GMBH & CO. KG, DE  
[85] 2017-11-03  
[86] 2016-03-30 (PCT/DE2016/100150)  
[87] (WO2016/177360)  
[30] DE (10 2015 106 963.6) 2015-05-05

[21] **2,985,139**  
[13] A1

[51] **Int.Cl. G02B 21/00 (2006.01) G02B 21/06 (2006.01) G02B 21/32 (2006.01) G21K 1/00 (2006.01)**  
[25] EN  
[54] **LIGHT SHEET IMAGING MICROSCOPY USING AN OPTICAL TRAP**

[54] **MICROSCOPIE A FEUILLET DE LUMIERE POUR APPLICATIONS D'IMAGERIE UTILISANT UN PIEGE OPTIQUE**

[72] YANG, ZHENGYI, GB  
[72] DHOLAKIA, KISHAN, GB  
[71] UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS, GB  
[85] 2017-11-06  
[86] 2016-05-09 (PCT/GB2016/051317)  
[87] (WO2016/185170)  
[30] GB (1508376.9) 2015-05-15

[21] **2,985,299**  
[13] A1

[51] **Int.Cl. H04L 12/58 (2006.01) H04L 29/06 (2006.01) H04L 29/08 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR REPORTING MESSAGE DISPOSITION IN A COMMUNICATION NETWORK**

[54] **PROCEDE ET SYSTEME DE NOTIFICATION DE DISPOSITION DE MESSAGE, DANS UN RESEAU DE COMMUNICATIONS**

[72] BADULESCU, CRISTINA, CA  
[72] SURDILA, SORIN, CA  
[72] GREENE, NANCY M., CA  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2017-11-07  
[86] 2016-05-19 (PCT/IB2016/052957)  
[87] (WO2016/185429)  
[30] US (62/163,797) 2015-05-19

[21] **2,985,426**  
[13] A1

[51] **Int.Cl. H02J 3/14 (2006.01) H02J 3/00 (2006.01)**  
[25] EN  
[54] **CONTROL METHOD AND APPARATUS**

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

[72] BELL, SARA, GB  
[71] TEMPUS ENERGY LIMITED, GB  
[85] 2017-07-17  
[86] 2016-01-20 (PCT/GB2016/050114)  
[87] (WO2016/116743)  
[30] GB (1501028.3) 2015-01-21  
[30] GB (1519566.2) 2015-11-05

[21] **2,985,559**  
[13] A1

[51] **Int.Cl. G09B 23/28 (2006.01) A61C 13/08 (2006.01)**  
[25] FR  
[54] **ARTIFICIAL ROOT CANAL SIMULATOR BASED ON HYDROXYAPATITE**

[54] **SIMULATEUR CANALAIRE ENDODONTIQUE ARTIFICIEL A BASE D'HYDROXYAPATITE**

[72] ROBBERECHT, LIEVEN, FR  
[72] HORNEZ, JEAN-CHRISTOPHE, FR  
[72] CHAI, FENG, FR  
[72] DEVEAUX, ETIENNE, FR  
[72] LERICHE, ANNE, BE  
[72] HORNEZ, VINCENT, FR  
[72] BECAVIN, THIBAUT, FR  
[72] DEHURTEVENT, MARION, FR  
[71] CENTRE HOSPITALIER REGIONAL ET UNIVERSITAIRE DE LILLE (CHRU), FR  
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[71] UNIVERSITE DE VALENCIENNES ET DU HAINAUT-CAMBRESIS, FR  
[71] UNIVERSITE DE LILLE 2 DROIT ET SANTE, FR  
[85] 2017-11-09  
[86] 2016-05-26 (PCT/FR2016/051241)  
[87] (WO2016/189252)  
[30] FR (15 54777) 2015-05-27

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[21] **2,985,959**  
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01)**  
[25] EN  
[54] **REWRITABLE LENS AND METHOD OF MANUFACTURING**  
[54] **LENTILLE REINSCRIPTIBLE ET PROCEDE DE FABRICATION**  
[72] VAZQUEZ, DANIEL CRESPO, US  
[72] QUIROGA, JUAN ANTONIO, ES  
[72] FERNANDEZ, JOSE ALONSO, ES  
[71] INDIZEN OPTICAL TECHNOLOGIES, S.L., ES  
[85] 2017-11-14  
[86] 2016-03-07 (PCT/IB2016/051275)  
[87] (WO2016/207736)  
[30] US (14/748,134) 2015-06-23

[21] **2,986,053**  
[13] A1

[51] **Int.Cl. H02M 1/08 (2006.01) H02M 3/158 (2006.01) H03K 17/687 (2006.01)**  
[25] FR  
[54] **DC-DC CONVERTER BLOCK, DC-DC CONVERTER COMPRISING SAME AND ASSOCIATED SYSTEM ENVELOPE TRACKING SYSTEM**  
[54] **BLOC CONVERTISSEUR CONTINU-CONTINU, CONVERTISSEUR CONTINU-CONTINU LE COMPRENANT ET SYSTEME DE SUIVI D'ENVELOPPE ASSOCIE**  
[72] GATARD, EMMANUEL, FR  
[72] LACHAUD, PIERRE, FR  
[71] WUPATEC, FR  
[85] 2017-11-15  
[86] 2016-05-26 (PCT/FR2016/051240)  
[87] (WO2016/193578)  
[30] FR (1554917) 2015-05-29

[21] **2,986,189**  
[13] A1

[51] **Int.Cl. H01R 13/523 (2006.01) B63J 3/04 (2006.01) H02G 11/00 (2006.01)**  
[25] FR  
[54] **COMPACT CONNECTOR AND COMPACT SOCKET FOR ELECTRICALLY POWERING A PORTABLE DEVICE FROM A FIXED NETWORK**  
[54] **CONNECTEUR ET EMBASE COMPACTS POUR ALIMENTER ELECTRIQUEMENT UN MOBILE A PARTIR D'UN RESEAU FIXE**  
[72] FEGER, DAMIEN, FR  
[71] NEW GENERATION NATURAL GAS NATURAL GROWTH, FR  
[85] 2017-11-16  
[86] 2016-05-19 (PCT/FR2016/051183)  
[87] (WO2016/185144)  
[30] FR (1501047) 2015-05-19

[21] **2,986,357**  
[13] A1

[51] **Int.Cl. H05K 3/28 (2006.01)**  
[25] EN  
[54] **COATED ELECTRICAL ASSEMBLY**  
[54] **ENSEMBLE ELECTRIQUE A REVETEMENT**  
[72] ARESTA, GIANFRANCO, GB  
[72] HENNIGHAN, GARETH, GB  
[72] BROOKS, ANDREW SIMON HALL, GB  
[72] SINGH, SHAILENDRA VIKRAM, GB  
[71] SEMBLANT LIMITED, GB  
[85] 2017-11-17  
[86] 2016-06-09 (PCT/GB2016/051702)  
[87] (WO2016/198870)  
[30] GB (1510091.0) 2015-06-10

[21] **2,986,370**  
[13] A1

[51] **Int.Cl. B41J 2/447 (2006.01) B41J 2/45 (2006.01) B41J 2/455 (2006.01) G03G 15/04 (2006.01)**  
[25] EN  
[54] **IMAGING DEVICE**  
[54] **DISPOSITIF D'IMAGERIE**  
[72] RUBIN BEN HAIM, NIR, IL  
[72] NAGLER, MICHAEL, IL  
[72] LANDA, BENZION, IL  
[72] KASHTI, TAMAR, IL  
[72] AKNIN, OFER, IL  
[72] YOGEV, RONEN, IL  
[72] TZUR, ITAI, IL  
[71] LANDA LABS (2012) LTD., IL  
[85] 2017-11-17  
[86] 2016-05-27 (PCT/IB2016/053137)  
[87] (WO2016/189510)  
[30] GB (1509073.1) 2015-05-27  
[30] GB (1509077.2) 2015-05-27

[21] **2,986,409**  
[13] A1

[51] **Int.Cl. H02B 1/06 (2006.01) H02B 1/04 (2006.01)**  
[25] EN  
[54] **ELECTRICAL EQUIPMENT WITH ADDITIONAL COMPARTMENT AND WIRING TO ACCOUNT FOR TEMPERATURE LIMITATIONS OF CONNECTED CONDUCTORS**  
[54] **EQUIPEMENT ELECTRIQUE A COMPARTIMENT SUPPLEMENTAIRE ET CABLAGE SERVANT A TENIR COMPTE DES LIMITES DE TEMPERATURE DES CONDUCTEURS CONNECTES**  
[72] KARLE, SHAWN MURRAY, CA  
[71] KARLE, SHAWN MURRAY, CA  
[85] 2017-11-22  
[86] 2017-05-19 (PCT/CA2017/050617)  
[87] (2986409)  
[30] US (62/368,573) 2016-07-29

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[21] **2,986,514**  
[13] A1

[51] **Int.Cl. B41J 2/447 (2006.01) B41J 2/45 (2006.01) B41J 2/455 (2006.01) G03G 15/04 (2006.01)**

[25] EN  
[54] **IMAGING DEVICE**  
[54] **DISPOSITIF D'IMAGERIE**  
[72] NAGLER, MICHAEL, IL  
[72] RUBIN BEN HAIM, NIR, IL  
[72] AKNIN, OFER, IL  
[72] LANDA, BENZION, IL  
[71] LANDA LABS (2012) LTD., IL  
[85] 2017-11-20  
[86] 2016-05-27 (PCT/IB2016/053138)  
[87] (WO2016/189511)  
[30] GB (1509073.1) 2015-05-27  
[30] GB (1509077.2) 2015-05-27

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[21] **2,986,518**  
[13] A1

[51] **Int.Cl. B41J 2/447 (2006.01) B41J 2/45 (2006.01) B41J 2/455 (2006.01) G03G 15/04 (2006.01)**

[25] EN  
[54] **PRINTING METHOD AND APPARATUS FOR COATING SELECTED REGIONS OF A SUBSTRATE WITH A FILM**  
[54] **APPAREIL ET PROCEDE D'IMPRESSIION POUR RECOUVRIR DES REGIONS SELECTIONNEES DE SUBSTRAT AVEC UN FILM**  
[72] LANDA, BENZION, IL  
[72] KRASSILNIKOV, ANTON, US  
[72] NAGLER, MICHAEL, IL  
[72] ADLER, ARIEL, IL  
[72] RUBIN BEN HAIM, NIR, IL  
[72] AKNIN, OFER, IL  
[72] YOGEV, RONEN, IL  
[71] LANDA LABS (2012) LTD, IL  
[85] 2017-11-20  
[86] 2016-05-27 (PCT/IB2016/053139)  
[87] (WO2016/189512)  
[30] GB (1509073.1) 2015-05-27  
[30] GB (1509077.2) 2015-05-27  
[30] GB (1509081.4) 2015-05-27

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[21] **2,986,527**  
[13] A1

[51] **Int.Cl. B41F 19/00 (2006.01) B05C 1/00 (2006.01) B05D 1/00 (2006.01) B41M 5/00 (2006.01)**

[25] EN  
[54] **COATING APPARATUS**  
[54] **APPAREIL D'APPLICATION DE REVETEMENT**  
[72] LANDA, BENZION, IL  
[72] KRASSILNIKOV, ANTON, US  
[72] FAHIMA, MOSHE, IL  
[72] YAKHEL, VADIM, IL  
[71] LANDA LABS (2012) LTD, IL  
[85] 2017-11-20  
[86] 2016-05-27 (PCT/IB2016/053140)  
[87] (WO2016/189513)  
[30] GB (1509080.6) 2015-05-27  
[30] GB (1514618.6) 2015-08-17

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[21] **2,986,657**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**

[25] EN  
[54] **METHOD AND SYSTEM FOR MONITORING AIRCRAFT STATUS**  
[54] **PROCEDE ET SYSTEME DE SURVEILLANCE D'ETAT D'AERONEF**  
[72] LACROIX, YANIK, CA  
[72] GIBSON, PAUL, GB  
[71] SITA INFORMATION NETWORKING COMPUTING UK LIMITED, GB  
[85] 2017-11-21  
[86] 2015-06-01 (PCT/GB2015/051598)  
[87] (WO2016/193648)

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[21] **2,987,183**  
[13] A1

[51] **Int.Cl. B41F 19/00 (2006.01) B05C 1/00 (2006.01) B05D 1/00 (2006.01) B41M 5/00 (2006.01)**

[25] EN  
[54] **COATING APPARATUS**  
[54] **APPAREIL D'APPLICATION DE REVETEMENT**  
[72] LANDA, BENZION, IL  
[72] KRASSILNIKOV, ANTON, IL  
[72] FAHIMA, MOSHE, IL  
[72] ADLER, ARIEL, IL  
[71] ACTEGA METAL PRINT GMBH, DE  
[85] 2017-11-24  
[86] 2016-05-27 (PCT/IB2016/053146)  
[87] (WO2016/189516)  
[30] GB (1509080.6) 2015-05-27  
[30] GB (1514618.6) 2015-08-17

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[21] **2,987,195**  
[13] A1

[51] **Int.Cl. B41M 3/00 (2006.01) B44F 9/10 (2006.01) B44C 1/00 (2006.01)**

[25] EN  
[54] **METAL PRINTED CONSTRUCTIONS**  
[54] **CONSTRUCTIONS IMPRIMEES SUR DU METAL**  
[72] LANDA, BENZION, IL  
[72] ABRAMOVICH, SAGI, IL  
[72] KRASSILNIKOV, ANTON, IL  
[72] ASHER, TAMAR, IL  
[71] ACTEGA METAL PRINT GMBH, DE  
[85] 2017-11-24  
[86] 2016-05-27 (PCT/IB2016/053154)  
[87] (WO2016/189519)  
[30] GB (1509080.6) 2015-05-27  
[30] GB (1514618.6) 2015-08-17  
[30] GB (1514619.4) 2015-08-17  
[30] GB (1603997.6) 2016-03-08  
[30] GB (1604989.2) 2016-03-23

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[21] **2,987,198**  
[13] A1

[51] **Int.Cl. B41F 19/00 (2006.01) B05D 1/00 (2006.01) B41M 5/00 (2006.01)**

[25] EN  
[54] **PRINTING SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE D'IMPRESSIION**  
[72] LANDA, BENZION, IL  
[72] KRASSILNIKOV, ANTON, US  
[72] FAHIMA, MOSHE, IL  
[72] YAKHEL, VADIM, IL  
[72] EDGAR, BARAK, IL  
[71] ACTEGA METAL PRINT GMBH, DE  
[85] 2017-11-24  
[86] 2016-05-27 (PCT/IB2016/053145)  
[87] (WO2016/189515)  
[30] GB (1509080.6) 2015-05-27  
[30] GB (1514618.6) 2015-08-17  
[30] GB (1514619.4) 2015-08-17  
[30] GB (1603997.6) 2016-03-08

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[21] **2,987,522**  
[13] A1

[51] **Int.Cl. G05D 16/20 (2006.01) B01F 3/04 (2006.01) B01F 15/00 (2006.01) G05D 21/02 (2006.01)**

[25] FR

[54] **DEVICE FOR ADJUSTING THE CONCENTRATION OF A GAS IN A LIQUID**

[54] **DISPOSITIF DE REGULATION DE LA CONCENTRATION D'UN GAZ DANS UN LIQUIDE**

[72] RIGAIL, FRANCOIS, FR

[72] POURTAUD, NICOLAS, FR

[71] RIGAIL, FRANCOIS, FR

[71] POURTAUD, NICOLAS, FR

[85] 2017-11-28

[86] 2016-05-27 (PCT/FR2016/051259)

[87] (WO2016/193586)

[30] FR (1554843) 2015-05-29

[21] **2,987,825**  
[13] A1

[51] **Int.Cl. H01R 4/24 (2018.01) H01R 4/36 (2006.01) H01R 4/64 (2006.01) H01R 4/48 (2006.01)**

[25] FR

[54] **METAL CLIP FOR ELECTRICALLY CONNECTING A CONDUCTIVE WIRE TO A METAL ELEMENT**

[54] **CLIP METALLIQUE DE CONNEXION ELECTRIQUE D'UN FIL CONDUCTEUR A UN ELEMENT METALLIQUE**

[72] BERNARD, NICOLAS, FR

[72] PHILIPP, NORMAN, DE

[71] A. RAYMOND ET CIE, FR

[85] 2017-11-30

[86] 2016-06-01 (PCT/FR2016/051303)

[87] (WO2016/193615)

[30] FR (1554952) 2015-06-01

[21] **2,988,214**  
[13] A1

[51] **Int.Cl. G01B 5/02 (2006.01)**

[25] EN

[54] **LENGTH MEASURING DEVICE AND CONTROL METHOD THEREOF**

[54] **APPAREIL DE MESURE DE LONGUEUR ET METHODE DE CONTROLE DUDIT APPAREIL**

[72] PARK, SOO-HONG, KR

[72] HAM, SUNG SEEK, KR

[72] SON, MIN KI, KR

[71] BAGEL LABS CO., LTD., KR

[85] 2017-12-06

[86] 2017-08-17 (PCT/KR2017/008962)

[87] (2988214)

[30] KR (10-2016-0118333) 2016-09-13

[30] KR (10-2017-0103239) 2017-08-14

[21] **2,988,373**  
[13] A1

[51] **Int.Cl. C07D 249/18 (2006.01) A61K 31/4192 (2006.01) A61P 11/00 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **NRF2 REGULATORS**

[54] **REGULATEURS DE NRF2**

[72] KERNS, JEFFREY K., US

[72] LI, TINDY, US

[72] YAN, HONGXING, US

[72] HEIGHTMAN, THOMAS DANIEL, GB

[72] WOOLFORD, ALISON JO-ANNE, GB

[72] GRIFFITHS-JONES, CHARLOTTE MARY, GB

[72] WILLEMS, HENDRIKA MARIA GERARDA, GB

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[71] ASTEX THERAPEUTICS LIMITED, GB

[85] 2017-12-05

[86] 2016-06-15 (PCT/IB2016/053544)

[87] (WO2016/203400)

[30] US (62/175,501) 2015-06-15

[21] **2,988,374**  
[13] A1

[51] **Int.Cl. C07D 403/06 (2006.01) A61K 31/4192 (2006.01) A61K 31/553 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 13/12 (2006.01) A61P 17/00 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 267/14 (2006.01) C07D 413/06 (2006.01) C07D 413/10 (2006.01) C07D 498/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **NRF2 REGULATORS**

[54] **REGULATEURS DE NRF2**

[72] KERNS, JEFFREY K., US

[72] YAN, HONGXING, US

[72] CALLAHAN, JAMES FRANCIS, US

[72] HEIGHTMAN, THOMAS DANIEL, GB

[72] BOEHM, JEFFREY CHARLES, US

[72] WOOLFORD, ALISON JO-ANNE, GB

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[71] ASTEX THERAPEUTICS LIMITED, GB

[85] 2017-12-05

[86] 2016-06-15 (PCT/IB2016/053545)

[87] (WO2016/203401)

[30] US (62/175,505) 2015-06-15

[21] **2,988,377**  
[13] A1

[51] **Int.Cl. A61F 2/14 (2006.01) A61F 9/007 (2006.01)**

[25] EN

[54] **KERATOPROSTHESIS AND USES THEREOF**

[54] **KERATOPROTHESE ET UTILISATIONS DE CELLE-CI**

[72] LITVIN, GILAD, IL

[71] CORNEAT VISION LTD, IL

[85] 2017-12-05

[86] 2016-06-08 (PCT/IL2016/050597)

[87] (WO2016/199139)

[30] US (62/172,588) 2015-06-08

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[21] **2,988,392**  
[13] A1

[51] **Int.Cl. C07D 307/68 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE PREPARATION OF A PURIFIED ACID COMPOSITION**  
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION D'ACIDE PURIFIEE**  
[72] ALMEIDA, ANA RITA MARTINS  
GUERREIRO ROCHA, NL  
[72] ZIEVERINK, MARTINUS  
MATHILDA PIETER, NL  
[72] DE SOUSA DIAS, ANA SOFIA  
VAGUEIRO, NL  
[72] GONZALEZ JIMENEZ, INES DACIL,  
NL  
[71] SYNVINA C.V., NL  
[85] 2017-12-05  
[86] 2016-06-06 (PCT/NL2016/050405)  
[87] (WO2016/195500)  
[30] NL (2014923) 2015-06-05

[21] **2,988,496**  
[13] A1

[51] **Int.Cl. F24T 10/30 (2018.01) F24D 11/00 (2006.01) F28D 20/00 (2006.01)**  
[25] EN  
[54] **BOREHOLE SEASONAL HEAT STORAGE SYSTEM CAPABLE OF SELECTING STORING SPACE IN ACCORDANCE WITH SUPPLY TEMPERATURE OF HEAT SOURCE**  
[54] **SYSTEME DE STOCKAGE DE CHALEUR SAISONNIER EN TROU DE FORAGE CAPABLE DE DETERMINER L'ESPACE DE STOCKAGE EN FONCTION DE LA TEMPERATURE DE LA SOURCE DE CHALEUR**  
[72] AHN, IK-RO, KR  
[71] KOREA DISTRICT HEATING ENGINEERING CO., LTD., KR  
[85] 2018-01-03  
[86] 2017-06-14 (PCT/KR2017/006169)  
[87] (2988496)  
[30] KR (10-2016-0074352) 2016-06-15

[21] **2,988,499**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01)**  
[25] EN  
[54] **ANTI-DENGUE VACCINES AND ANTIBODIES**  
[54] **VACCINS ET ANTICORPS ANTI-DENGUE**  
[72] SCREATON, GAVIN, GB  
[72] MONGKOLSAPAYA, JUTHATHIP,  
GB  
[72] ROUVINSKI, ALEXANDER, FR  
[72] GUARDADO-CALVO, PABLO, FR  
[72] BARBA-SPAETH, GIOVANNA, FR  
[72] DUQUERROY, STEPHANE, FR  
[72] VANEY, MARIE-CHRISTINE, FR  
[72] REY, FELIX AUGUSTO, FR  
[71] IMPERIAL INNOVATIONS LIMITED, GB  
[71] INSTITUT PASTEUR, FR  
[71] UNIVERSITE PARIS-SUD, FR  
[85] 2017-12-06  
[86] 2015-07-23 (PCT/GB2015/052139)  
[87] (WO2016/012800)  
[30] GB (1413086.8) 2014-07-23

[21] **2,988,572**  
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/536 (2006.01) A61K 31/541 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) C07D 265/22 (2006.01) C07D 413/04 (2006.01) C07D 413/06 (2006.01) C07D 413/10 (2006.01) C07D 417/06 (2006.01) C07D 471/04 (2006.01) C07D 491/107 (2006.01)**  
[25] EN  
[54] **2,3-DIHYDRO-4H-1,3-BENZOXAZIN-4-ONE DERIVATIVES AS MODULATORS OF CHOLINERGIC MUSCARINIC M1 RECEPTOR**  
[54] **DERIVES DE 2,3-DIHYDRO-4 H-1,3-BENZOXAZIN-4-ONE COMME MODULATEURS DU RECEPTEUR M1 MUSCARINIQUE CHOLINERGIQUE**  
[72] SUGIMOTO, TAKAHIRO, JP  
[72] SUZUKI, SHINKICHI, JP  
[72] SAKAMOTO, HIROKI, JP  
[72] YAMADA, MASAMI, JP  
[72] NAKAMURA, MINORU, JP  
[72] KAMATA, MAKOTO, JP  
[72] SHIMOKAWA, KENICHIRO, JP  
[72] OGINO, MASAKI, JP  
[72] KIMURA, EIJI, JP  
[72] MURAKAMI, MASATAKA, JP  
[72] YONEMORI, JINICHI, JP  
[72] KOJIMA, TAKUTO, JP  
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP  
[85] 2017-12-06  
[86] 2016-06-23 (PCT/JP2016/069189)  
[87] (WO2016/208775)  
[30] JP (2015-129043) 2015-06-26  
[30] JP (2015-206797) 2015-10-20

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[21] **2,988,574**  
[13] A1

[51] **Int.Cl. C02F 1/72 (2006.01) B01F 3/04 (2006.01) C02F 1/76 (2006.01) C02F 1/78 (2006.01)**

[25] EN

[54] **NANO-BUBBLE-AND-HYDROXYL-RADICAL GENERATOR AND SYSTEM FOR PROCESSING POLLUTED WATER WITHOUT CHEMICALS USING SAME**

[54] **GENERATEUR DE NANOBULLES ET DE RADICAUX HYDROXYLE ET SYSTEME DE TRAITEMENT DE L'EAU POLLUEE SANS UTILISER DE PRODUITS CHIMIQUES UTILISANT CE GENERATEUR**

[72] KIM, DONG SIK, KR  
[71] NABAS GROUP, INC., US  
[85] 2017-12-06  
[86] 2015-05-12 (PCT/KR2015/004764)  
[87] (WO2016/163583)  
[30] KR (10-2015-0048615) 2015-04-06

[21] **2,988,625**  
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 31/197 (2006.01) A61K 31/216 (2006.01) A61K 31/4402 (2006.01) A61K 31/4406 (2006.01) A61K 31/495 (2006.01) A61K 31/50 (2006.01) A61P 21/00 (2006.01) A61P 21/06 (2006.01)**

[25] EN

[54] **DERIVATIVES USEFUL IN THE TREATMENT OF MUSCLE ATROPHY**

[54] **DERIVES UTILES DANS LE TRAITEMENT DE L'ATROPHIE MUSCULAIRE**

[72] RAYNAL, SOPHIE N., FR  
[72] KERGOAT, MICHELINE R., FR  
[72] AUTIER, VALERIE, FR  
[72] CHARON, CHRISTINE G., FR  
[72] DURAND, JEAN-DENIS, FR  
[72] LEPIFRE, FRANCK F., FR  
[72] AUDET, ANNICK M., FR  
[71] METABRAIN RESEARCH, FR  
[85] 2017-12-07  
[86] 2016-04-14 (PCT/FR2016/050864)  
[87] (WO2016/166480)  
[30] FR (1553410) 2015-04-16

[21] **2,988,636**  
[13] A1

[51] **Int.Cl. A23P 20/20 (2016.01) A23K 10/20 (2016.01) A23K 40/00 (2016.01) A23L 13/00 (2016.01) A23L 13/40 (2016.01) A23L 13/50 (2016.01)**

[25] EN

[54] **METHOD FOR PRODUCING A RECONSTITUTED RAW PIECE OF MEAT AND A RECONSTITUTED RAW PIECE OF MEAT/MEAT COMBINED ACCORDING TO THE METHOD**

[54] **PROCEDE DE FABRICATION D'UNE EBAUCHE EN VIANDE RECONSTITUEE ET EBAUCHE EN VIANDE RECONSTITUEE ET VIANDE COMBINEE CONFORMEMENT AU PROCEDE**

[72] HAUF, REINER, DE  
[71] HAUF, REINER, DE  
[85] 2017-12-07  
[86] 2016-05-11 (PCT/DE2016/100215)  
[87] (WO2016/180405)  
[30] DE (10 2015 107 344.7) 2015-05-11

[21] **2,988,646**  
[13] A1

[51] **Int.Cl. A23G 3/38 (2006.01) A23L 27/30 (2016.01) A23L 29/206 (2016.01) A23L 29/30 (2016.01) A23L 33/22 (2016.01)**

[25] EN

[54] **SWEETENER AND USE THEREOF**

[54] **EDULCORANT ET SON UTILISATION**

[72] REISENBERGER, FRANZ, AT  
[72] REISENBERGER, KLAUS, AT  
[71] REISENBERGER GMBH, AT  
[85] 2017-12-07  
[86] 2016-03-18 (PCT/AT2016/000028)  
[87] (WO2016/197157)  
[30] AT (GM 144/2015) 2015-06-11

[21] **2,988,657**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61K 35/745 (2015.01) A61P 1/00 (2006.01) A61P 11/06 (2006.01) A61P 19/02 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C12N 1/20 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS**

[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES**

[72] GRANT, GEORGE, GB  
[72] PATTERSON, ANGELA MARGARET, GB  
[72] MULDER, IMKE, GB  
[72] MCCLUSKEY, SEANIN, GB  
[72] RAFTIS, EMMA, GB  
[71] 4D PHARMA RESEARCH LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-15 (PCT/GB2016/051768)  
[87] (WO2016/203217)  
[30] GB (1510470.6) 2015-06-15  
[30] GB (1520510.7) 2015-11-20  
[30] GB (1603786.3) 2016-03-04

[21] **2,988,673**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **EPIGENETIC CHROMOSOME INTERACTIONS**

[54] **INTERACTIONS CHROMOSOMIQUES EPIGENETIQUES**

[72] RAMADASS, AROUL, GB  
[72] HUNTER, EWAN, GB  
[72] AKOULITCHEV, ALEXANDRE, GB  
[71] OXFORD BIODYNAMICS LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-24 (PCT/GB2016/051894)  
[87] (WO2016/207647)  
[30] GB (1511079.4) 2015-06-24  
[30] GB (1511080.2) 2015-06-24  
[30] GB (1519555.5) 2015-11-05

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[51] **Int.Cl. C12Q 1/68 (2018.01)**  
[25] EN  
[54] **DETECTION OF CHROMOSOME INTERACTIONS**  
[54] **DETECTION D'INTERACTIONS CHROMOSOMIQUES**  
[72] HUNTER, EWAN, GB  
[72] RAMADASS, AROUL, GB  
[72] AKOULITCHEV, ALEXANDRE, GB  
[71] OXFORD BIODYNAMICS LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-24 (PCT/GB2016/051900)  
[87] (WO2016/207653)  
[30] GB (1511079.4) 2015-06-24  
[30] GB (1511080.2) 2015-06-24  
[30] GB (1519555.5) 2015-11-05

[21] **2,988,680**  
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/416 (2006.01) A61P 13/00 (2006.01) A61P 31/04 (2006.01) C07D 405/06 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **MANNOSE DERIVATIVES FOR TREATING BACTERIAL INFECTIONS**  
[54] **DERIVES DE MANNOSE POUR LE TRAITEMENT D'INFECTIONS BACTERIENNES**  
[72] GALLANT, MICHEL, CA  
[72] TRUCHON, JEAN-FRANCOIS, CA  
[72] REDDY, THUMKUNTA JAGADEESWAR, CA  
[72] DIETRICH, EVELYNE, CA  
[72] VAILLANCOURT, LOUIS, CA  
[72] VALLEE, FREDERIC, CA  
[71] VERTEX PHARMACEUTICALS INCORPORATED, US  
[85] 2017-12-07  
[86] 2016-06-13 (PCT/IB2016/053469)  
[87] (WO2016/199105)  
[30] US (62/174,662) 2015-06-12

[21] **2,988,686**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 1/00 (2006.01) A61P 11/06 (2006.01) A61P 19/02 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS**  
[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES**  
[72] GRANT, GEORGE, GB  
[72] PATTERSON, ANGELA MARGARET, GB  
[72] MULDER, IMKE, GB  
[72] MCCLUSKEY, SEANIN, GB  
[72] RAFTIS, EMMA, GB  
[71] 4D PHARMA RESEARCH LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-15 (PCT/GB2016/051773)  
[87] (WO2016/203220)  
[30] GB (1510469.8) 2015-06-15  
[30] GB (1520628.7) 2015-11-23  
[30] GB (1604566.8) 2016-03-17

[21] **2,988,693**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 1/00 (2006.01) A61P 11/06 (2006.01) A61P 19/02 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS**  
[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES**  
[72] STEVENSON, ALEX, GB  
[71] 4D PHARMA RESEARCH LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-15 (PCT/GB2016/051774)  
[87] (WO2016/203221)  
[30] GB (1510468.0) 2015-06-15  
[30] GB (1606807.4) 2016-04-19

[21] **2,988,695**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61K 35/745 (2015.01) A61P 1/00 (2006.01) A61P 11/06 (2006.01) A61P 19/02 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS COMPRISING BACTERIAL STRAINS**  
[54] **COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES**  
[72] GRANT, GEORGE, GB  
[72] PATTERSON, ANGELA MARGARET, GB  
[72] MULDER, IMKE, GB  
[72] MCCLUSKEY, SEANIN, GB  
[72] RAFTIS, EMMA, GB  
[71] 4D PHARMA RESEARCH LIMITED, GB  
[85] 2017-12-07  
[86] 2016-06-15 (PCT/GB2016/051776)  
[87] (WO2016/203223)  
[30] GB (1510467.2) 2015-06-15  
[30] GB (1520501.6) 2015-11-20

[21] **2,988,715**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01)**  
[25] EN  
[54] **AN ANTIBODY OR A FRAGMENT SPECIFICALLY BINDING TO PEPTIDE DERIVED FROM VIMENTIN**  
[54] **UN ANTICORPS OU UN FRAGMENT SE LIANT SPECIFIQUEMENT A UN PEPTIDE DERIVE DE VIMENTIN**  
[72] KIM, YOON WON, KR  
[72] KIM, YOUNG JIN, KR  
[72] HONG, HYO JEONG, KR  
[72] PARK, SANG JIN, KR  
[72] KIM, MIN WOO, KR  
[72] PARK, SUNG MAN, KR  
[71] IMMUNEMED INC., KR  
[85] 2017-12-07  
[86] 2016-06-10 (PCT/KR2016/006215)  
[87] (WO2016/200220)  
[30] KR (10-2015-0082132) 2015-06-10  
[30] KR (PCT/KR2015/005917) 2015-06-12



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[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/68 (2006.01)**  
[25] FR  
[54] **LYMPHOID HEMOPATHY PROGNOSIS METHOD**  
[54] **METHODE DE PRONOSTIC D'HEMOPATHIES LYMPHOIDES**  
[72] CARTRON, GUILLAUME, FR  
[72] TUAILLON, EDOUARD, FR  
[72] GAGEZ, ANNE-LAURE, FR  
[72] CEZAR, RENAUD, FR  
[71] UNIVERSITE DE MONTPELLIER, FR  
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE MONTPELLIER, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR  
[85] 2017-12-08  
[86] 2016-06-09 (PCT/FR2016/051388)  
[87] (WO2016/198795)  
[30] FR (1555253) 2015-06-09

[21] **2,989,047**  
[13] A1

[51] **Int.Cl. C12C 3/04 (2006.01) C12C 3/12 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATMENT OF A HOPS PRODUCT, AND USE OF A HOPS PRODUCT**  
[54] **PROCEDE DE TRAITEMENT D'UN PRODUIT A BASE DE HOUBLON ET UTILISATION D'UN PRODUIT A BASE DE HOUBLON**  
[72] SCHMAILZL, MARTIN, DE  
[71] SCHMAILZL, MARTIN, DE  
[85] 2017-12-11  
[86] 2015-06-03 (PCT/DE2015/000266)  
[87] (WO2015/197040)  
[30] DE (10 2014 009 010.8) 2014-06-24  
[30] DE (10 2014 016 507.8) 2014-11-10  
[30] US (62/077,600) 2014-11-10

[21] **2,989,094**  
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61B 34/00 (2016.01) A61B 90/00 (2016.01) A61B 3/10 (2006.01) A61B 3/13 (2006.01) A61B 34/20 (2016.01) G02B 21/00 (2006.01)**  
[25] EN  
[54] **DYNAMIC SURGICAL DATA OVERLAY**  
[54] **RECOUVREMENT DE DONNEES CHIRURGICALES DYNAMIQUES**  
[72] REN, HUGANG, US  
[72] YU, LINGFENG, US  
[71] NOVARTIS AG, CH  
[85] 2017-12-11  
[86] 2016-05-24 (PCT/IB2016/053039)  
[87] (WO2017/021790)  
[30] US (14/817,348) 2015-08-04

[21] **2,989,098**  
[13] A1

[51] **Int.Cl. C07D 263/54 (2006.01) A61K 31/423 (2006.01) A61K 31/428 (2006.01) C07D 263/58 (2006.01) C07D 277/62 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/12 (2006.01)**  
[25] EN  
[54] **NADPH OXIDASE 4 INHIBITORS**  
[54] **INHIBITEURS DE LA NADPH OXYDASE 4**  
[72] AISSAOUI, HAMED, CH  
[72] BOLLI, MARTIN, CH  
[72] BOSS, CHRISTOPH, CH  
[72] RICHARD-BILDSTEIN, SYLVIA, CH  
[72] SIEBER, PATRICK, CH  
[71] ACTELION PHARMACEUTICALS LTD, CH  
[85] 2017-12-11  
[86] 2016-06-21 (PCT/IB2016/053672)  
[87] (WO2016/207785)  
[30] IB (PCT/IB2015/054662) 2015-06-22

[21] **2,989,119**  
[13] A1

[51] **Int.Cl. G01N 21/3504 (2014.01)**  
[25] EN  
[54] **GAS MONITOR**  
[54] **DISPOSITIF DE SURVEILLANCE DE GAZ**  
[72] BJOROY, OVE, NO  
[71] NEO MONITORS AS, NO  
[85] 2017-12-11  
[86] 2016-06-10 (PCT/NO2016/050121)  
[87] (WO2016/200274)  
[30] NO (20150765) 2015-06-11

[21] **2,989,154**  
[13] A1

[51] **Int.Cl. G01M 99/00 (2011.01) B64F 5/60 (2017.01) B25J 19/02 (2006.01) B64C 39/02 (2006.01) G01N 21/88 (2006.01) G01N 37/00 (2006.01)**  
[25] FR  
[54] **SYSTEM AND METHOD FOR AUTOMATICALLY INSPECTING SURFACES**  
[54] **SYSTEME ET PROCEDE D'INSPECTION AUTOMATIQUE DE SURFACE**  
[72] CLAYBROUGH, MATTHIEU, FR  
[71] DONECLE, FR  
[85] 2017-12-12  
[86] 2016-06-15 (PCT/FR2016/051448)  
[87] (WO2016/203151)  
[30] FR (1555452) 2015-06-15

[21] **2,989,187**  
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) C01B 25/36 (2006.01)**  
[25] EN  
[54] **METHOD FOR PREPARATION OF ALUMINIUM PHOSPHATE GEL FOR APPLICATION IN VACCINE FORMULATIONS**  
[54] **PROCEDE DE PREPARATION D'UN GEL DE PHOSPHATE D'ALUMINIUM POUR UNE APPLICATION DANS DES FORMULATIONS VACCINALES**  
[72] GANAPATHY, RAVI, IN  
[72] GADE, NAGIREDDY, IN  
[72] MANOHAR, MANISH, IN  
[72] PARADKAR, VIKRAM MADHUSADAN, IN  
[72] DALTA, MAHIMA, IN  
[71] BIOLOGICAL E LIMITED, IN  
[85] 2017-12-11  
[86] 2016-06-13 (PCT/IN2016/000151)  
[87] (WO2016/199162)  
[30] IN (2963/CHE/2015) 2015-06-12

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[13] A1

[51] **Int.Cl. G01N 27/12 (2006.01) B82Y 15/00 (2011.01) F01N 11/00 (2006.01)**

[25] EN  
[54] **NOX GAS SENSOR**  
[54] **CAPTEUR DE GAZ NOX**  
[72] KALANTAR-ZADEH, KOUROSH, AU  
[72] OU, JIAN ZHEN, AU  
[72] HA, NAM, AU  
[72] LI, YONGXIANG, AU  
[71] ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, AU  
[85] 2017-12-12  
[86] 2016-06-10 (PCT/AU2016/000199)  
[87] (WO2016/197181)  
[30] AU (2015902219) 2015-06-12

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[21] **2,989,254**  
[13] A1

[51] **Int.Cl. A23B 4/20 (2006.01) C11B 1/10 (2006.01) C11B 13/00 (2006.01)**

[25] EN  
[54] **STURGEON ROE SACK MEMBRANE-DERIVED OIL CONSERVATION EN SACS D'OEUF D'ESTURGEON POUR LA PRODUCTION DE CAVIAR**  
[72] BENNING, KENNETH, GB  
[72] BENNING, JEMIMA, GB  
[71] ACIPENSER BIOTECH LIMITED, GB  
[85] 2017-12-12  
[86] 2016-03-16 (PCT/GB2016/050704)  
[87] (WO2016/203187)  
[30] GB (1510540.6) 2015-06-16

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[21] **2,989,265**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 405/14 (2006.01) C07D 413/10 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN  
[54] **BICYCLIC HETEROCYCLE DERIVATIVES AS BROMODOMAIN INHIBITORS**  
[54] **DERIVES D'HETEROCYCLES BICYCLIQUES COMME INHIBITEURS DE BROMODOMAINES**  
[72] SAMAJDAR, SUSANTA, IN  
[72] ABBINENI, CHANDRASEKHAR, IN  
[72] LINNANEN, TERO, FI  
[72] WOHLFAHRT, GERD, FI  
[71] ORION CORPORATION, FI  
[85] 2017-12-12  
[86] 2016-06-30 (PCT/FI2016/050486)  
[87] (WO2017/001733)  
[30] IN (722/KOL/2015) 2015-07-02

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[13] A1

[51] **Int.Cl. C07C 311/58 (2006.01) A61K 31/277 (2006.01) A61P 7/02 (2006.01)**

[25] EN  
[54] **THROMBOXANE RECEPTOR ANTAGONISTS**  
[54] **ANTAGONISTES DES RECEPTEURS DU THROMBOXANE**  
[72] KINSELLA, B. THERESE, IE  
[72] REID, HELEN, IE  
[71] UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN, IE  
[85] 2017-12-12  
[86] 2016-06-13 (PCT/IB2016/000960)  
[87] (WO2016/203314)  
[30] US (62/180,317) 2015-06-16

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[21] **2,989,278**  
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61B 90/30 (2016.01) A61B 18/00 (2006.01)**

[25] EN  
[54] **VITREOUS CUTTER WITH INTEGRATED ILLUMINATION SYSTEM**  
[54] **DISPOSITIF DE COUPE VITREUX A SYSTEME D'ECLAIRAGE INTEGRE**  
[72] KERN, THOMAS, CH  
[72] PAPAC, MICHAEL J., US  
[72] SMITH, RONALD T., US  
[72] WHEATLEY, BARRY L., US  
[72] MIRSEPASSI, ALIREZA, US  
[71] NOVARTIS AG, CH  
[85] 2017-12-12  
[86] 2016-07-06 (PCT/IB2016/054058)  
[87] (WO2017/009745)  
[30] US (62/191,765) 2015-07-13

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[13] A1

[51] **Int.Cl. G02B 7/182 (2006.01) G03B 3/10 (2006.01) G06K 7/00 (2006.01)**

[25] EN  
[54] **CAMERA AND OBJECT PROCESSING APPARATUS USING SAME**  
[54] **APPAREIL DE PRISE DE VUES ET APPAREIL DE TRAITEMENT D'OBJETS METTANT EN ŒUVRE CELUI-CI**  
[72] KIM, HOYON, KR  
[71] GACHISOFT INC., KR  
[85] 2017-12-12  
[86] 2016-04-12 (PCT/KR2016/003832)  
[87] (WO2016/200039)  
[30] KR (10-2015-0083638) 2015-06-12

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[13] A1

[51] **Int.Cl. A61K 8/29 (2006.01) A61K 8/02 (2006.01) A61K 8/04 (2006.01) A61K 8/27 (2006.01) A61Q 17/04 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **UV-BLOCKING COSMETIC COMPOSITION**

[54] **COMPOSITION COSMETIQUE BLOQUANT LES UV**

[72] JUNG, HA JIN, KR  
[72] KIM, KYUNG NAM, KR  
[72] CHOI, KYUNG HO, KR  
[72] CHOI, YEONG JIN, KR  
[71] AMOREPACIFIC CORPORATION, KR

[85] 2017-12-12  
[86] 2016-06-24 (PCT/KR2016/006739)  
[87] (WO2017/003135)  
[30] KR (10-2015-0093779) 2015-06-30

[21] **2,989,388**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **GENE SIGNATURES PREDICTIVE OF METASTATIC DISEASE**

[54] **SIGNATURES GENIQUES PREDICTIVES D'UNE MALADIE METASTATIQUE**

[72] WALKER, STEVEN, GB  
[72] HILL, LAURA, GB  
[72] MCCAVIGAN, ANDRENA, GB  
[72] DONEGAN, SINEAD, GB  
[72] DAVISON, TIMOTHY, GB  
[72] KENNEDY, RICHARD, GB  
[72] HARKIN, DENIS PAUL, GB  
[72] PRICE, BETHANIE, GB  
[71] ALMAC DIAGNOSTICS LIMITED, GB

[85] 2017-12-13  
[86] 2016-06-17 (PCT/GB2016/051825)  
[87] (WO2016/203262)  
[30] GB (1510684.2) 2015-06-17

[21] **2,989,390**  
[13] A1

[51] **Int.Cl. A23L 3/3454 (2006.01) A23L 13/40 (2016.01) A23B 4/027 (2006.01)**

[25] EN

[54] **MEAT TREATMENT COMPOSITION AND USE THEREOF**

[54] **COMPOSITION DE TRAITEMENT DE VIANDE ET SON UTILISATION**

[72] HILHORST, GERRIT ANTHON RENE, NL  
[72] KROON, HARMEN, NL  
[72] VERHEEZEN, JACOBUS JOHANNES ADRIANA MARIA, NL  
[71] PURAC BIOCHEM B.V., NL

[85] 2017-12-13  
[86] 2016-06-17 (PCT/NL2016/050435)  
[87] (WO2016/204618)  
[30] EP (15172520.7) 2015-06-17  
[30] US (62/180,790) 2015-06-17

[21] **2,989,456**  
[13] A1

[51] **Int.Cl. C07D 487/14 (2006.01) A61K 31/4985 (2006.01) A61K 31/506 (2006.01) A61P 25/28 (2006.01) C07D 471/14 (2006.01) C07D 471/22 (2006.01) C07D 487/04 (2006.01) C07D 491/147 (2006.01) C07D 498/22 (2006.01) C07D 513/14 (2006.01)**

[25] EN

[54] **TRICYCLIC COMPOUNDS AND THEIR USE AS PHOSPHODIESTERASE INHIBITORS**

[54] **COMPOSES TRICYCLIQUES ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE LA PHOSPHODIESTERASE**

[72] CHAPPIE, THOMAS ALLEN, US  
[72] CHANDRASEKARAN, RAMALAKSHMI YEGNA, US  
[72] HELAL, CHRISTOPHER JOHN, US  
[72] LACHAPPELLE, ERIK ALPHIE, US  
[72] PATEL, NANDINI CHATURBHAI, US  
[72] SCIABOLA, SIMONE, US  
[72] VERHOEST, PATRICK ROBERT, US  
[72] WAGER, TRAVIS T., US  
[71] PFIZER INC., US

[85] 2017-12-13  
[86] 2016-06-09 (PCT/IB2016/053398)  
[87] (WO2016/203347)  
[30] US (62/180,815) 2015-06-17

[21] **2,989,515**  
[13] A1

[51] **Int.Cl. G01N 21/87 (2006.01) G01J 3/46 (2006.01)**

[25] EN

[54] **COLOUR MEASUREMENT OF GEMSTONES**

[54] **MESURE DE COULEUR DE PIERRES PRECIEUSES**

[72] FITCH, ALISTAIR, GB  
[71] DE BEERS UK LIMITED, GB

[85] 2017-12-14  
[86] 2016-06-13 (PCT/GB2016/051748)  
[87] (WO2016/203210)  
[30] GB (1510652.9) 2015-06-17

[21] **2,989,522**  
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 9/00 (2006.01) A61K 31/445 (2006.01) A61P 27/02 (2006.01) A61P 27/04 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING AN INTEGRIN ALPHA4 ANTAGONIST FOR USE IN TREATING OCULAR INFLAMMATORY CONDITIONS**

[54] **COMPOSITIONS PHARMACEUTIQUES CONTENANT UN ANTAGONISTE DE L'INTEGRINE ALPHA 4, UTILISEES POUR LE TRAITEMENT D'AFFECTIONS INFLAMMATOIRES OCULAIRES**

[72] KRAUSS, ACHIM HANS-PETER, US  
[71] AXEROVISION, INC., US

[85] 2017-12-14  
[86] 2016-07-07 (PCT/IB2016/054073)  
[87] (WO2017/006272)  
[30] US (62/189,813) 2015-07-08

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[13] A1

[51] **Int.Cl. G01N 27/62 (2006.01) H01J 49/00 (2006.01)**

[25] EN

[54] **PROBABILITY-BASED LIBRARY SEARCH ALGORITHM (PROLS)**

[54] **ALGORITHME DE RECHERCHE DE BIBLIOTHEQUE A BASE DE PROBABILITE (PROLS)**

[72] BURTON, LYLE LORRENCE, CA

[72] IVOSEV, GORDANA, CA

[71] DH TECHNOLOGIES DEVELOPMENT PTE. LTD., SG

[85] 2017-12-14

[86] 2016-05-26 (PCT/IB2016/053100)

[87] (WO2016/203328)

[30] US (62/181,624) 2015-06-18

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[21] **2,989,538**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) B01L 7/00 (2006.01)**

[25] EN

[54] **METHOD FOR ANALYZING BIOMOLECULE BY USING EXTERNAL BIOMOLECULE AS STANDARD MATERIAL, AND KIT THEREFOR**

[54] **PROCEDE D'ANALYSE DE BIOMOLECULE A L'AIDE DE BIOMOLECULE EXTERNE COMME MATERIAU ETALON, ET KIT A CET EFFET**

[72] KIM, SUNG CHUN, KR

[71] KIM, SUNG CHUN, KR

[85] 2017-12-14

[86] 2016-04-20 (PCT/KR2016/004130)

[87] (WO2016/171474)

[30] KR (10-2015-0055227) 2015-04-20

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[21] **2,989,540**  
[13] A1

[51] **Int.Cl. A23P 20/10 (2016.01) A23L 19/18 (2016.01) A23L 29/212 (2016.01) A23L 29/219 (2016.01)**

[25] EN

[54] **METHOD FOR PREPARING A POTATO PRODUCT FOR FINISH-FRYING, PROCESSING LINE THEREFOR AND SUCH A POTATO PRODUCT FOR FINISH-FRYING**

[54] **PROCEDE DE PREPARATION DE PRODUIT DE POMME DE TERRE POUR FRITURE FINALE, CHAINE DE TRAITEMENT POUR CE DERNIER, ET PRODUIT DE POMME DE TERRE POUR FRITURE FINALE**

[72] DE WINTER, LEON, NL

[72] EIJSMA, LEON, NL

[72] VAN DOORN, JOHANNES ELISABERT, NL

[71] FRIES4ALL B.V., NL

[85] 2017-12-14

[86] 2016-03-23 (PCT/NL2016/050201)

[87] (WO2016/153349)

[30] NL (2014505) 2015-03-23

[30] NL (2016397) 2016-03-08

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[21] **2,989,551**  
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01)**

[25] EN

[54] **AML ANTIGENS AND USES THEREOF**

[54] **ANTIGENES DE LAM ET LEURS UTILISATIONS**

[72] SPITS, HERGEN, NL

[72] GILLISSEN, MARIJN ALETTA, NL

[72] KEDDE, MARTIJN, NL

[72] HAZENBERG, METTE DEBORAH, NL

[72] VAN HELDEN, PAULA MARIA WILHELMINA, NL

[72] POS, WOUTER, NL

[71] AIMM THERAPEUTICS B.V., NL

[85] 2017-12-14

[86] 2016-06-24 (PCT/NL2016/050449)

[87] (WO2016/209079)

[30] EP (15173662.6) 2015-06-24

[30] EP (16150621.7) 2016-01-08

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[21] **2,989,673**  
[13] A1

[51] **Int.Cl. G01N 3/04 (2006.01) G01N 3/24 (2006.01)**

[25] EN

[54] **DEVICE FOR MEASURING SHEAR PROPERTIES OF ASPHALT MIXTURES**

[54] **DISPOSITIF PERMETTANT DE MESURER DES PROPRIETES DE CISAILLEMENT DE MELANGES D'ASPHALTE**

[72] ZAK, JOSEF, CZ

[72] HARVEY, JOHN, US

[72] SINGORE, JAMES, US

[71] CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF CIVIL ENGINEERING, DEPARTMENT OF ROAD STRUCTURES, CZ

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2017-12-15

[86] 2016-06-21 (PCT/CZ2016/050019)

[87] (WO2017/005229)

[30] CZ (2015-486) 2015-07-09

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[21] **2,989,711**  
[13] A1

[51] **Int.Cl. C05G 5/00 (2006.01) C05D 1/00 (2006.01) C05G 3/00 (2006.01) C08J 3/12 (2006.01) C08J 3/20 (2006.01) C08J 3/24 (2006.01)**

[25] EN

[54] **ORGANIC-INORGANIC POLYMERIC WATER-RETAINING FERTILIZER AND PREPARATION METHOD OF THE SAME**

[54] **FERTILISANT POLYMERIQUE ORGANIQUE-INORGANIQUE RETENANT L'EAU ET METHODE DE PREPARATION ASSOCIEE**

[72] ZHU, YANFANG, CN

[72] DU, ZHIYONG, CN

[72] ZHU, HONGZHI, CN

[71] QINGDAO XINYAODI AGRICULTURAL TECHNOLOGY JOINT-STOCK CO., LTD., CN

[85] 2017-12-20

[86] 2017-06-30 (PCT/CN2017/091230)

[87] (2989711)

[30] CN (201610512162.2) 2016-07-01

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[21] **2,989,743**  
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A23L 33/10 (2016.01) A23L 33/18 (2016.01)**  
[25] EN  
[54] **SYNERGISTIC BEVERAGE COMPOSITION**  
[54] **COMPOSITION DE BOISSON SYNERGIQUE**  
[72] CHIGURUPATI, HARSHA, IN  
[72] BIYANI, MANISH RADHESHYAM, IN  
[72] AUDDY, BISWAJIT, IN  
[72] CHAKRABARTI, SHRABANA, IN  
[71] CHIGURUPATI, HARSHA, IN  
[85] 2017-12-15  
[86] 2016-06-18 (PCT/IN2016/050189)  
[87] (WO2016/203499)  
[30] IN (3070/CHE/2015) 2015-06-19

[21] **2,989,775**  
[13] A1

[51] **Int.Cl. G01N 21/85 (2006.01) G01N 21/03 (2006.01) G01N 21/15 (2006.01)**  
[25] EN  
[54] **OPTICAL ELEMENTS IN GAS SENSORS**  
[54] **ELEMENTS OPTIQUES DANS DES CAPTEURS DE GAZ**  
[72] BORGES, LARS, NO  
[72] FISMEN, BRITTA, NO  
[72] HOBAEK, THOR CHRISTIAN, NO  
[72] SAGBERG, HAKON, NO  
[71] GASSECURE AS, NO  
[85] 2017-12-15  
[86] 2016-06-16 (PCT/GB2016/051786)  
[87] (WO2016/203233)  
[30] GB (1510563.8) 2015-06-16

[21] **2,989,779**  
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61P 25/08 (2006.01)**  
[25] EN  
[54] **USE OF CANNABINOIDS IN THE TREATMENT OF EPILEPSY**  
[54] **UTILISATION DE CANNABINOIDES DANS LE TRAITEMENT DE L'EPILEPSIE**  
[72] GUY, GEOFFREY, GB  
[72] WRIGHT, STEPHEN, GB  
[72] MEAD, ALICE, GB  
[72] CHEETHAM, EMMA, GB  
[72] DEVINSKY, ORRIN, US  
[72] SCHILLER, DOMINIC, GB  
[71] GW RESEARCH LIMITED, GB  
[85] 2017-12-15  
[86] 2016-06-16 (PCT/GB2016/051792)  
[87] (WO2016/203239)  
[30] GB (1510664.4) 2015-06-17

[21] **2,989,785**  
[13] A1

[51] **Int.Cl. H04N 19/126 (2014.01) H04N 19/42 (2014.01) H04N 19/635 (2014.01)**  
[25] EN  
[54] **ADAPTIVE PRECISION AND QUANTIFICATION OF A WAVELET TRANSFORMED MATRIX**  
[54] **PRECISION ADAPTATIVE ET QUANTIFICATION D'UNE MATRICE TRANSFORMEE PAR ONDELETES**  
[72] GERVAIS, THAN MARC-ERIC, FR  
[72] LOUBET, BRUNO, FR  
[72] BESSOU, NICOLAS, FR  
[72] GUIMIOT, YVES, FR  
[72] PETITFILS, MICKAEL, FR  
[72] ROQUES, SEBASTIEN, FR  
[71] COLIN, JEAN-CLAUDE, FR  
[85] 2017-12-15  
[86] 2015-07-09 (PCT/FR2015/000141)  
[87] (WO2015/185810)

[21] **2,989,841**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01)**  
[25] EN  
[54] **POWER ADAPTER, TERMINAL DEVICE, CHARGING SYSTEM, AND CHARGING METHOD**  
[54] **ADAPTATEUR D'ALIMENTATION, APPAREIL TERMINAL, SYSTEME DE RECHARGE ET METHODE DE RECHARGE**  
[72] GUO, JILONG, CN  
[71] SHENZHEN ROYOLE TECHNOLOGIES CO., LTD., CN  
[85] 2018-02-14  
[86] 2016-08-19 (PCT/CN2016/096043)  
[87] (2989841)

[21] **2,989,846**  
[13] A1

[51] **Int.Cl. A47L 9/12 (2006.01) A47L 7/00 (2006.01)**  
[25] EN  
[54] **FILTER ASSEMBLY, FILTER DEVICE AND DUST COLLECTOR**  
[54] **ASSEMBLAGE DE FILTRE, DISPOSITIF DE FILTRE ET COLLECTEUR DE POUSSIERE**  
[72] SANG, SHUHUA, CN  
[72] GAO, YUANGANG, CN  
[71] SUZHOU ALTON ELECTRICAL & MECHANICAL INDUSTRY CO., LTD., CN  
[85] 2017-12-22  
[86] 2017-03-03 (PCT/CN2017/075543)  
[87] (2989846)  
[30] CN (201610981874.9) 2016-11-08

[21] **2,989,976**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/68 (2018.01) C40B 40/06 (2006.01)**  
[25] EN  
[54] **REAGENTS, KITS AND METHODS FOR MOLECULAR BARCODING**  
[54] **REACTIFS, KITS ET PROCEDES DE BARCODING MOLECULAIRE**  
[72] EDELMAN, LUCAS BRANDON, GB  
[71] CS GENETICS LIMITED, GB  
[85] 2017-12-18  
[86] 2016-06-23 (PCT/GB2016/051883)  
[87] (WO2016/207639)  
[30] GB (1511050.5) 2015-06-23

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[21] **2,989,991**  
[13] A1

[51] **Int.Cl. A01H 5/08 (2018.01) C12N 9/10 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **TOMATO PLANTS HAVING FRUIT WITH YELLOW AND RED SEGMENTS**  
[54] **PLANTES DE TOMATE DONNANT DES FRUITS AYANT DES SEGMENTS JAUNE ET ROUGE**  
[72] HIRSCHBERG, JOSEPH, IL  
[72] ZAMIR, DANI, IL  
[72] BROG, YAACOV MICHA, IL  
[72] ZEMACH, ITAY, IL  
[72] DERY, ORLY, IL  
[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL  
[85] 2017-12-18  
[86] 2016-07-05 (PCT/IL2016/050719)  
[87] (WO2017/006318)  
[30] US (62/188,755) 2015-07-06

[21] **2,989,998**  
[13] A1

[51] **Int.Cl. C10J 3/30 (2006.01) F23G 5/027 (2006.01)**  
[25] EN  
[54] **REDUCTION BURNER ENABLING SEPARATE OCCURRENCE OF OXIDATION REACTION AND REDUCTION REACTION AND SYNTHESIS GAS RECYCLING SYSTEM USING SAME**  
[54] **BRULEUR DE REDUCTION PERMETTANT L'OCCURRENCE DISTINCTE D'UNE REACTION D'OXYDATION ET D'UNE REACTION DE REDUCTION ET SYSTEME DE RECYCLAGE DE GAZ DE SYNTHESE FAISANT APPEL A CELUI-CI**  
[72] CHANG, YEON, KR  
[71] KIM, SANGWON, KR  
[71] CHANG, YEON, KR  
[71] WR SYSTEM CO., LTD, KR  
[85] 2017-12-18  
[86] 2016-04-25 (PCT/KR2016/004277)  
[87] (WO2016/204393)  
[30] KR (10-2015-0085098) 2015-06-16

[21] **2,990,007**  
[13] A1

[51] **Int.Cl. A23F 5/40 (2006.01) A23L 27/28 (2016.01) A23F 5/46 (2006.01) A23F 5/48 (2006.01)**  
[25] EN  
[54] **AROMA-RETAINING SOLUBLE COFFEE**  
[54] **CAFE SOLUBLE CONSERVANT SON AROME**  
[72] HEIJMAN, GERTJAN, NL  
[72] DE KOK, PETRUS MARIA THERESIA, NL  
[72] OOSTERVELD, ALEXANDER, NL  
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL  
[85] 2017-12-18  
[86] 2016-06-23 (PCT/NL2016/050445)  
[87] (WO2016/209075)  
[30] EP (15173428.2) 2015-06-23

[21] **2,990,022**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 33/42 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR DETERMINING A MATERIAL PROPERTY OF A BITUMEN MATERIAL**  
[54] **PROCEDE ET DISPOSITIF DE DETERMINATION D'UNE PROPRIETE D'UN MATERIAU BITUMINEUX**  
[72] HOFKO, BERNHARD, AT  
[72] HOSPODKA, MARKUS, AT  
[72] FUSSEL, JOSEF, GB  
[72] EBERHARDSTEINER, LUKAS, AT  
[72] GROTHE, HINRICH, AT  
[72] HANDLE, FLORIAN, AT  
[72] GROSSEGGER, DANIEL, AT  
[72] BLAB, RONALD, AT  
[71] TECHNISCHE UNIVERSITAT WIEN, AT  
[85] 2017-12-19  
[86] 2016-06-22 (PCT/AT2016/050219)  
[87] (WO2016/205847)  
[30] AT (A 50522/2015) 2015-06-22

[21] **2,990,107**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 35/74 (2015.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **A CHECKPOINT INHIBITOR AND A WHOLE CELL MYCOBACTERIUM FOR USE IN CANCER THERAPY**  
[54] **INHIBITEUR DE POINT DE VERIFICATION ET MYCOBACTERIE A GERMES ENTIERS DESTINES A UNE UTILISATION DANS LE TRAITEMENT DE CANCER**  
[72] BRUNET, LAURA ROSA, GB  
[72] AKLE, CHARLES, GB  
[71] IMMODULON THERAPEUTICS LIMITED, GB  
[85] 2017-12-19  
[86] 2016-06-24 (PCT/GB2016/051893)  
[87] (WO2016/207646)  
[30] GB (1511120.6) 2015-06-24  
[30] GB (1511121.4) 2015-06-24

[21] **2,990,133**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 35/768 (2015.01) A61K 9/16 (2006.01) A61K 39/165 (2006.01) A61K 39/245 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR VIRAL EMBOLIZATION**  
[54] **COMPOSITIONS ET PROCEDES D'EMBOUSATION VIRALE**  
[72] HWANG, TAE HO, KR  
[72] LEE, NAM HEE, KR  
[72] CHO, MONG, KR  
[72] JEON, UNGBAE, KR  
[72] BYUN, DOO JIN, KR  
[71] SILLAJEN, INC., KR  
[85] 2017-12-19  
[86] 2016-06-17 (PCT/IB2016/000993)  
[87] (WO2017/037523)  
[30] US (62/182,383) 2015-06-19

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[21] **2,990,157**  
[13] A1

[51] **Int.Cl. A61K 8/29 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **COSMETIC COMPOSITION**  
[54] **COMPOSITION COSMETIQUE**

[72] LEE, SU JIN, KR

[72] KIM, KYUNG NAM, KR

[72] CHOI, YEONG JIN, KR

[71] AMOREPACIFIC CORPORATION, KR

[85] 2017-12-19

[86] 2016-06-23 (PCT/KR2016/006694)

[87] (WO2017/003131)

[30] KR (10-2015-0093054) 2015-06-30

[21] **2,990,159**  
[13] A1

[51] **Int.Cl. G08B 13/10 (2006.01) E04F 15/02 (2006.01) G06F 3/045 (2006.01)**

[25] EN

[54] **SYSTEM FOR FORMING A FLOOR FOR DETECTING A PRESSURE APPLIED THEREON, DEVICE FOR USE IN SUCH SYSTEM, FLOORING PROVIDED THEREWITH AND CONNECTION ELEMENT FOR THE DEVICE**

[54] **SYSTEME DESTINE A FORMER UN SOL PERMETTANT DE DETECTER UNE PRESSION APPLIQUEE DESSUS, DISPOSITIF DESTINE A ETRE UTILISE DANS UN TEL SYSTEME, REVETEMENT DE SOL LE COMPORTANT ET ELEMENT DE CONNEXION POUR LE DISPOSITIF**

[72] WAGENAAR, BERTUS MICHIEL, NL

[71] TARKETT B.V., NL

[85] 2017-12-19

[86] 2016-06-08 (PCT/NL2016/050410)

[87] (WO2016/204606)

[30] NL (2014995) 2015-06-19

[21] **2,990,168**  
[13] A1

[51] **Int.Cl. H04N 5/33 (2006.01) H04N 5/365 (2011.01) H04N 5/367 (2011.01)**

[25] FR

[54] **CORRECTION OF BAD PIXELS IN AN INFRARED IMAGE-CAPTURING APPARATUS**

[54] **CORRECTION DE PIXELS PARASITES DANS UN CAPTEUR D'IMAGE INFRAROUGE**

[72] SARAGAGLIA, AMAURY, FR

[72] DURAND, ALAIN, FR

[71] ULIS, FR

[85] 2017-12-19

[86] 2016-06-10 (PCT/FR2016/051393)

[87] (WO2016/207506)

[30] FR (FR1555963) 2015-06-26

[21] **2,990,171**  
[13] A1

[51] **Int.Cl. A21D 8/04 (2006.01) A21D 10/00 (2006.01) A21D 13/00 (2017.01)**

[25] FR

[54] **IMPROVER AND BREADMAKING METHOD FOR PRECOOKED LOAVES STORED WITHOUT FREEZING**

[54] **AMELIORANT ET PROCEDE DE PANIFICATION POUR PAINS PRECUITS ET CONSERVES SANS CONGELATION**

[72] BLAREAU, FRANCOIS, FR

[72] BONNARDEL, PASCAL, FR

[72] DE BLESER, DAVY, BE

[72] WENTWORTH, RICHARD, FR

[71] LESAFFRE ET COMPAGNIE, FR

[85] 2017-12-19

[86] 2016-06-21 (PCT/FR2016/051505)

[87] (WO2017/001744)

[30] FR (1556077) 2015-06-29

[21] **2,990,175**  
[13] A1

[51] **Int.Cl. C01B 3/00 (2006.01) F17C 11/00 (2006.01)**

[25] FR

[54] **DEVICE FOR GENERATING GASEOUS DIHYDROGEN**

[54] **DISPOSITIF DE GENERATION DE DIHYDROGENE GAZEUX**

[72] AUTRUSSON, NICOLAS, FR

[72] FOURNET, ARNAUD, FR

[72] FERAILLE, THIERRY, FR

[71] ARIANEGROUP SAS, FR

[85] 2017-12-19

[86] 2016-06-28 (PCT/FR2016/051586)

[87] (WO2017/001756)

[30] FR (1556116) 2015-06-30

[21] **2,990,277**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61K 31/497 (2006.01) C07D 401/06 (2006.01)**

[25] EN

[54] **TRICYCLIC DERIVATIVE COMPOUND, METHOD FOR PREPARING SAME, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME**

[54] **COMPOSE DERIVE TRICYCLIQUE, SON PROCEDE DE PREPARATION, ET COMPOSITION PHARMACEUTIQUE LE CONTENANT**

[72] LEE, HYUNHO, KR

[72] CHUN, KWANGWOO, KR

[72] JOE, BO-YOUNG, KR

[72] KIM, EUN SEON, KR

[72] JANG, EUN SUNG, KR

[72] OH, HYEONGCHAN, KR

[72] KIM, JEONG-MIN, KR

[72] PARK, JISEON, KR

[72] LEE, HANCHANG, KR

[71] JE IL PHARMACEUTICAL CO., LTD., KR

[85] 2017-12-08

[86] 2016-06-03 (PCT/KR2016/005911)

[87] (WO2016/200101)

[30] KR (10-2015-0081021) 2015-06-09

[21] **2,990,298**  
[13] A1

[51] **Int.Cl. A61K 31/44 (2006.01) A61P 31/12 (2006.01) C07D 213/73 (2006.01)**

[25] EN

[54] **AGENTS FOR THE TREATMENT OF RETROVIRAL INFECTIOUS DISEASES**

[54] **AGENTS DE TRAITEMENT DE MALADIES INFECTIEUSES RETROVIRALES**

[72] SCHUBERT, ULRICH, DE

[72] SETZ, CHRISTIAN, DE

[72] BRYSCH, WOLFGANG, DE

[72] VON WEGERER, JORG, DE

[71] IMMUNOLOGIK GMBH, DE

[85] 2017-12-20

[86] 2015-07-10 (PCT/DE2015/000357)

[87] (WO2016/004917)

[30] DE (10 2014 010 220.3) 2014-07-10

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[21] **2,990,319**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04L 27/26 (2006.01)**  
[25] EN  
[54] **TRANSMITTER AND RECEIVER AND METHODS OF TRANSMITTING AND RECEIVING**  
[54] **EMETTEUR ET RECEPTEUR, ET PROCEDES DE TRANSMISSION ET DE RECEPTION**  
[72] ATUNGSIRI, SAMUEL  
ASANGBENG, GB  
[71] SONY CORPORATION, JP  
[85] 2017-12-20  
[86] 2016-06-09 (PCT/GB2016/051705)  
[87] (WO2016/207607)  
[30] GB (1510979.6) 2015-06-22

[21] **2,990,326**  
[13] A1

[51] **Int.Cl. A61K 38/44 (2006.01) A61K 35/644 (2015.01) A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 47/06 (2006.01) A61K 47/10 (2017.01) A61P 31/04 (2006.01) A61P 31/22 (2006.01)**  
[25] EN  
[54] **ANTIMICROBIAL COMPOSITIONS AND FORMULATIONS**  
[54] **COMPOSITIONS ANTIMICROBIENNES ET FORMULATIONS LIBERANT DU PEROXYDE D'HYDROGENE**  
[72] COX, SOPHIE CONSTANCE, GB  
[72] HALL, THOMAS JON, GB  
[72] GROVER, LIAM MICHAEL, GB  
[72] SALIB, RAMI, GB  
[72] PATTON, THOMAS, IE  
[72] BRENNAN, JAMES, IE  
[72] BARRETT, JOHN REGINALD, IE  
[72] STAPLES, IAN, GB  
[71] MATOKE HOLDINGS LIMITED, GB  
[85] 2017-12-20  
[86] 2016-07-22 (PCT/GB2016/052258)  
[87] (WO2017/013448)  
[30] GB (1513045.3) 2015-07-23  
[30] GB (1606249.9) 2016-04-12

[21] **2,990,335**  
[13] A1

[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/69 (2006.01) A61P 37/04 (2006.01)**  
[25] EN  
[54] **INHIBITORS OF INDOLEAMINE 2,3-DIOXYGENASE**  
[54] **INHIBITEURS D'INDOLEAMINE 2,3-DIOXYGENASE**  
[72] KAZMIERSKI, WIESLAW  
MIECZYSLAW, US  
[72] DE LA ROSA, MARTHA ALICIA, US  
[72] SAMANO, VICENTE, US  
[71] GLAXOSMITHKLINE  
INTELLECTUAL PROPERTY  
DEVELOPMENT LIMITED, GB  
[85] 2017-12-20  
[86] 2016-06-30 (PCT/IB2016/053947)  
[87] (WO2017/002078)  
[30] US (62/187,937) 2015-07-02

[21] **2,990,337**  
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01) G06F 3/01 (2006.01)**  
[25] EN  
[54] **REMOTE CONTROL**  
[54] **EQUIPEMENT DE TELECOMMANDE**  
[72] HAMAIN, FREDERIC, FR  
[72] IRIART, NICOLAS, FR  
[72] KLIS, NICOLAS, FR  
[71] SIATECH, FR  
[85] 2017-12-20  
[86] 2016-06-08 (PCT/FR2016/051374)  
[87] (WO2016/207505)  
[30] FR (1555737) 2015-06-23

[21] **2,990,345**  
[13] A1

[51] **Int.Cl. H01R 13/639 (2006.01)**  
[25] FR  
[54] **SYSTEM FOR LOCKING A FITTING BASE OF A PLUG TO A PLUG, ASSOCIATED FITTING BASE AND PLUG**  
[54] **SYSTEME DE VERROUILLAGE D'UN SOCLE D'EMBOITEMENT D'UNE PRISE AVEC UNE PRISE, SOCLE D'EMBOITEMENT ET PRISE ASSOCIES**  
[72] MARTINEZ, PATRICE, FR  
[72] PETRETTO, FRANCK, FR  
[72] BOUZONNET, LORIS, FR  
[71] BULL SAS, FR  
[85] 2017-12-20  
[86] 2016-06-23 (PCT/FR2016/051547)  
[87] (WO2017/006009)  
[30] FR (1556327) 2015-07-03

[21] **2,990,351**  
[13] A1

[51] **Int.Cl. A23G 1/42 (2006.01)**  
[25] EN  
[54] **CONVENTIONAL OR REDUCED-CALORIE FILLED OR UNFILLED VITAMIN-ENRICHED CHOCOLATE AND PROCESS FOR THE PRODUCTION THEREOF**  
[54] **CHOCOLAT ENRICHI EN VITAMINES FOURRE OU NON FOURRE CLASSIQUE OU A FAIBLE TENEUR EN CALORIES ET PROCEDE DE PRODUCTION ASSOCIE**  
[72] BANATFY, RUDOLF, HU  
[71] VITA CHOCO KFT., HU  
[85] 2017-12-20  
[86] 2016-07-08 (PCT/HU2016/000046)  
[87] (WO2017/009675)  
[30] HU (P1500321) 2015-07-10

[21] **2,990,352**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A01N 1/02 (2006.01)**  
[25] FR  
[54] **METHOD FOR THE CRYOPRESERVATION OF TUMOUR-INFILTRATING LYMPHOCYTES**  
[54] **PROCEDE DE CRYOCONSERVATION DE LYMPHOCYTES INFILTRANT LA TUMEUR**  
[72] DE LARICHAUDY, JOFFREY, FR  
[71] CHU NANTES, FR  
[85] 2017-12-20  
[86] 2016-06-30 (PCT/FR2016/051631)  
[87] (WO2017/001784)  
[30] FR (15 56164) 2015-06-30



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[13] A1

[51] **Int.Cl. C12N 15/77 (2006.01) C12N 9/10 (2006.01) C12P 13/00 (2006.01)**  
[25] EN  
[54] **MICROORGANISMS FOR PRODUCING PUTRESCINE OR ORNITHINE AND PROCESS FOR PRODUCING PUTRESCINE OR ORNITHINE USING THEM**  
[54] **MICRO-ORGANISMES SERVANT A LA PRODUCTION DE PUTRESCINE OU D'ORNITHINE ET PROCEDE DE PRODUCTION DE PUTRESCINE OU D'ORNITHINE EMPLOYANT LESDITS MICRO-ORGANISMES**  
[72] JUNG, HEE KYOUNG, KR  
[72] UM, HYE WON, KR  
[72] LI, HONG XIAN, KR  
[72] PARK, SU JIN, KR  
[72] YANG, YOUNG LYEOL, KR  
[72] LEE, KYOUNG MIN, KR  
[72] LEE, HYO HYOUNG, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2017-12-20  
[86] 2016-03-29 (PCT/KR2016/003198)  
[87] (WO2016/208854)  
[30] KR (10-2015-0090021) 2015-06-24

[21] **2,990,474**  
[13] A1

[51] **Int.Cl. C07D 409/14 (2006.01) A61K 31/4545 (2006.01) A61K 31/55 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**  
[25] EN  
[54] **ENHANCER OF ZESTE HOMOLOG 2 INHIBITORS**  
[54] **AMPLIFICATEUR DES INHIBITEURS DE L'HOMOLOGUE 2 DE ZESTE**  
[72] BRACKLEY, III, JAMES A., US  
[72] GRAVES, III, ALAN PETERSON, US  
[72] KNIGHT, STEVEN DAVID, US  
[72] MCNULTY, KENNETH C., CA  
[72] NEWLANDER, KENNETH ALLEN, US  
[72] TIAN, XINRONG, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB  
[85] 2017-12-19  
[86] 2016-06-30 (PCT/IB2016/053929)  
[87] (WO2017/002064)  
[30] US (62/186,550) 2015-06-30  
[30] US (62/241,254) 2015-10-14  
[30] US (62/313,207) 2016-03-25  
[30] US (62/332,099) 2016-05-05

[21] **2,990,535**  
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS**  
[54] **COMPOSITIONS ET PROCEDES**  
[72] BAIRD, MARK STEPHEN, GB  
[72] GWENIN, CHRISTOPHER DAVID, GB  
[72] AL-DULAYYMI, JUMA'A RAHEEM NAJEEM, GB  
[72] MOHAMMED, MOHSIN OMAR, GB  
[71] DIAGNOSTIG LTD, GB  
[85] 2017-12-21  
[86] 2016-08-12 (PCT/GB2016/052508)  
[87] (WO2017/025757)  
[30] GB (1514413.2) 2015-08-13

[21] **2,990,541**  
[13] A1

[51] **Int.Cl. G02B 27/22 (2018.01) G02B 5/30 (2006.01) G02B 27/26 (2006.01)**  
[25] EN  
[54] **STEREOSCOPIC 3D PROJECTION SYSTEM WITH IMPROVED LEVEL OF OPTICAL LIGHT EFFICIENCY**  
[54] **SYSTEME DE PROJECTION 3D STEREOSCOPIQUE AVEC UN MEILLEUR NIVEAU D'EFFICACITE DE LUMIERE OPTIQUE**  
[72] PALMER, STEPHEN, SE  
[71] VOLFONI R&D EURL, FR  
[85] 2017-12-21  
[86] 2016-06-24 (PCT/IB2016/001004)  
[87] (WO2016/207724)  
[30] US (14/750,227) 2015-06-25

[21] **2,990,547**  
[13] A1

[51] **Int.Cl. F16K 49/00 (2006.01) F16K 47/00 (2006.01)**  
[25] EN  
[54] **SELF-HEAT-DISSIPATION PRESSURE-REDUCING VALVE**  
[54] **VANNE DE DETENTE A DISSIPATION THERMIQUE AUTOMATIQUE**  
[72] LIU, XIUMEI, CN  
[72] LI, BEIBEI, CN  
[72] XU, HUAWEN, CN  
[72] HE, JIE, CN  
[72] WANG, BINGYANG, CN  
[72] JIAO, MINGLI, CN  
[72] SUN, FUHUA, CN  
[72] WANG, HAIBING, CN  
[72] LIU, XIAOCHEN, CN  
[72] DAI, ZHENZHEN, CN  
[72] XIE, ZIHAO, CN  
[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN  
[85] 2018-01-25  
[86] 2016-11-04 (PCT/CN2016/104508)  
[87] (2990547)  
[30] CN (201610884499.6) 2016-10-10

[21] **2,990,549**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**  
[25] EN  
[54] **PROMOTERS FOR ENHANCING EXPRESSION IN POXVIRUSES**  
[54] **PROMOTEURS POUR AMELIORER L'EXPRESSION DANS LES VIRUS DU GROUPE POX**  
[72] DELCAYRE, ALAIN, US  
[72] LI, ZENGJI, US  
[72] ROUNTREE, RYAN, US  
[71] BAVARIAN NORDIC A/S, DK  
[85] 2017-12-21  
[86] 2016-07-28 (PCT/IB2016/001183)  
[87] (WO2017/021776)  
[30] US (62/199,681) 2015-07-31

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[13] A1

[51] **Int.Cl. C02F 1/56 (2006.01) B01D 21/01 (2006.01) C02F 1/68 (2006.01) C08G 73/02 (2006.01) C08L 79/02 (2006.01)**

[25] EN

[54] **PROCESS FOR THE TREATMENT OF PRODUCED WATER FROM CHEMICAL ENHANCED OIL RECOVERY**

[54] **PROCEDE PERMETTANT LE TRAITEMENT D'EAU PRODUITE A PARTIR DE LA METHODE CHIMIQUE DE RECUPERATION ASSISTEE DU PETROLE**

[72] DUTTLINGER, WILLIAM THOMAS, JR., GB

[72] CAIRD, BRIAN SCOTT, GB

[71] ECOLAB USA INC., US

[85] 2017-12-21

[86] 2016-06-24 (PCT/IB2016/053785)

[87] (WO2017/001988)

[30] GB (1511376.4) 2015-06-29

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[21] **2,990,558**  
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **AN AERIAL MICROMODULE OPTICAL CABLE AND A METHOD OF MANUFACTURING SAID CABLE**

[54] **CABLE OPTIQUE DE MICROMODULE AERIEN ET PROCEDE DE FABRICATION DUDIT CABLE**

[72] TATAT, OLIVIER, FR

[72] TESTU, JEAN-MARC, FR

[71] DRAKA COMTEQ BV, NL

[85] 2017-12-21

[86] 2015-06-26 (PCT/IB2015/001714)

[87] (WO2016/207687)

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[21] **2,990,566**  
[13] A1

[51] **Int.Cl. A61K 36/31 (2006.01) A23L 23/00 (2016.01) A23L 33/105 (2016.01) A61K 31/7028 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **GLUCORAPHNIN FOR USE IN THE TREATMENT AND/OR PREVENTION OF DIABETES MELLITUS**

[54] **GLUCORAPHANINE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT ET/OU LA PREVENTION DE DIABETE SUCRE**

[72] MITHEN, RICHARD, GB

[71] PLANT BIOSCIENCE LIMITED, GB

[85] 2017-12-21

[86] 2016-06-24 (PCT/GB2016/051898)

[87] (WO2016/207651)

[30] US (62/185,379) 2015-06-26

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[21] **2,990,569**  
[13] A1

[51] **Int.Cl. H04N 5/202 (2006.01) H04N 19/00 (2014.01) G09G 5/02 (2006.01) G06T 5/00 (2006.01) G09G 5/10 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CONVERSION OF HDR SIGNALS**

[54] **PROCEDE ET APPAREIL POUR LA CONVERSION DE SIGNAUX HDR**

[72] BORER, TIM, GB

[72] COTTON, ANDREW, GB

[71] BRITISH BROADCASTING CORPORATION, GB

[85] 2017-12-21

[86] 2016-06-30 (PCT/GB2016/051983)

[87] (WO2017/001858)

[30] GB (1511495.2) 2015-06-30

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[21] **2,990,570**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) A61K 35/74 (2015.01) C12M 1/02 (2006.01) C12M 1/34 (2006.01) C12N 1/36 (2006.01) C12N 15/74 (2006.01)**

[25] EN

[54] **MANUFACTURING DEVICE AND PROCESS FOR PERSONALIZED DELIVERY VECTOR-BASED IMMUNOTHERAPY**

[54] **DISPOSITIF DE FABRICATION ET PROCEDE POUR IMMUNOTHERAPIE FONDEE SUR UN VECTEUR D'ADMINISTRATION PERSONNALISE**

[72] EAPEN, ANIL, US

[72] PETIT, ROBERT, US

[72] PUJOLS, MAYO, US

[71] ADVAXIS, INC., US

[85] 2017-12-21

[86] 2016-06-24 (PCT/IB2016/053791)

[87] (WO2016/207859)

[30] US (62/184,125) 2015-06-24

[30] US (62/342,037) 2016-05-26

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[21] **2,990,573**  
[13] A1

[51] **Int.Cl. G01N 33/86 (2006.01) G01N 33/49 (2006.01)**

[25] EN

[54] **BLOOD TESTING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE TEST SANGUIN**

[72] BELS, KEVIN, DE

[72] BRANTL, CHRISTIAN, DE

[72] WITTMANN, JOHANNES, DE

[71] CA CASYSO GMBH, CH

[85] 2017-12-21

[86] 2016-06-28 (PCT/IB2016/053860)

[87] (WO2017/002018)

[30] US (14/754,300) 2015-06-29

[30] EP (15174565.0) 2015-06-30

[30] JP (2015-132034) 2015-06-30

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[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/44 (2006.01) A61P 31/18 (2006.01) C07D 401/04 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES DE L'ACIDE PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] WANG, TAO, US  
[72] YIN, ZHIWEI, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB  
[85] 2017-12-21  
[86] 2016-07-06 (PCT/IB2016/054049)  
[87] (WO2017/006261)  
[30] US (62/188,852) 2015-07-06

[21] **2,990,580**  
[13] A1

[51] **Int.Cl. C07D 307/50 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF A FURFURAL DERIVATIVE**

[54] **PROCEDE POUR LA PREPARATION D'UN DERIVE DE FURFURAL**

[72] SIJBEN, JOHANNES MARIA FRANCISCUS, NL  
[72] MAZOYER, ETIENNE, NL  
[72] DE SOUSA DIAS, ANA SOFIA VAGUEIRO, NL  
[72] GRUTER, GERARDUS JOHANNES MARIA, NL  
[71] SYNVINA C.V., NL  
[85] 2017-12-21  
[86] 2016-07-01 (PCT/NL2016/050469)  
[87] (WO2017/003293)  
[30] NL (2015065) 2015-07-01

[21] **2,990,582**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01)**

[25] EN

[54] **A STABLE LIQUID FORMULATION OF FUSION PROTEIN WITH IGG FC DOMAIN**

[54] **FORMULE LIQUIDE STABLE D'UNE PROTEINE DE FUSION PRESENTANT UN DOMAINE FC D'IGG**

[72] PARK, SOON JAE, KR  
[72] CHUNG, HYE SHIN, KR  
[72] KIM, JUN YOUNG, KR  
[71] ALTEOGEN, INC., KR  
[85] 2017-12-21  
[86] 2016-06-23 (PCT/KR2016/006679)  
[87] (WO2016/208989)  
[30] KR (10-2015-0089186) 2015-06-23  
[30] KR (10-2016-0078234) 2016-06-22

[21] **2,990,588**  
[13] A1

[51] **Int.Cl. C07D 307/46 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF A FURFURAL DERIVATIVE COMPRISING NEUTRALIZING AN ACID REACTION MIXTURE**

[54] **PROCEDE DE PREPARATION D'UN DERIVE DE FURFURAL COMPRENANT LA NEUTRALISATION D'UN MELANGE REACTIONNEL ACIDE**

[72] SIJBEN, JOHANNES MARIA FRANCISCUS, NL  
[72] MAZOYER, ETIENNE, NL  
[72] DE SOUSA DIAS, ANA SOFIA VAGUEIRO, NL  
[72] GRUTER, GERARDUS JOHANNES MARIA, NL  
[71] SYNVINA C.V., NL  
[85] 2017-12-21  
[86] 2016-07-01 (PCT/NL2016/050470)  
[87] (WO2017/003294)  
[30] NL (2015066) 2015-07-01

[21] **2,990,647**  
[13] A1

[51] **Int.Cl. G01V 3/165 (2006.01)**

[25] EN

[54] **MARINE MAGNETISM DETECTION METHOD AND DEVICE**

[54] **METHODE ET DISPOSITIF DE DETECTION MAGNETIQUE MARINE**

[72] LIU, BAOHUA, CN  
[72] PEI, YANLIANG, CN  
[72] YU, KAIBEN, CN  
[72] LIU, CHENGUANG, CN  
[72] YANG, ZHIGUO, CN  
[72] KAN, GUANGMING, CN  
[71] NATIONAL DEEP SEA CENTER, CN  
[71] THE FIRST INSTITUTE OF OCEANOGRAPHY, SOA, CN  
[85] 2018-01-04  
[86] 2016-11-02 (PCT/CN2016/104308)  
[87] (2990647)  
[30] CN (2016108526739) 2016-09-27

[21] **2,990,743**  
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR USING LAMELLAR BODIES FOR THERAPEUTIC PURPOSES**

[54] **COMPOSITIONS ET PROCEDES D'UTILISATION DE CORPS LAMELLAIRES POUR OBJECTIFS THERAPEUTIQUES**

[72] MCLEAN, ALEC, GB  
[72] HOWARD, LYNSEY, GB  
[72] KADIOGLU, ARAS, GB  
[72] WINSTANLEY, CRAIG, GB  
[71] LAMELLAR BIOMEDICAL LIMITED, GB  
[85] 2017-12-22  
[86] 2016-06-23 (PCT/GB2016/051890)  
[87] (WO2016/207645)  
[30] GB (1511058.8) 2015-06-23

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[13] A1

[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/262 (2011.01) H04N 21/61 (2011.01) H04N 21/81 (2011.01)**  
[25] EN  
[54] **METHOD AND PLATFORM FOR AUTOMATIC SELECTION OF VIDEO SEQUENCES TO FILL A BREAK IN A PROGRAM**  
[54] **PROCEDE ET PLATE-FORME DE SELECTION AUTOMATIQUE DE SEQUENCES VIDEO POUR REMPLIR UNE PAUSE DANS UN PROGRAMME DIFFUSE**  
[72] POTESTA, LAURENT, CH  
[71] AD INSERTION PLATFORM SARL, CH  
[85] 2017-12-22  
[86] 2016-06-22 (PCT/IB2016/053720)  
[87] (WO2016/207816)  
[30] EP (15173151.0) 2015-06-22

[21] **2,990,763**  
[13] A1

[51] **Int.Cl. H04L 1/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR TRANSMITTING A SEQUENCE OF SETS OF DATA FROM A COMMUNICATION DEVICE TO AN ACCESS POINT**  
[54] **PROCEDE DE TRANSMISSION D'UNE SEQUENCE D'ENSEMBLES DE DONNEES, D'UN DISPOSITIF DE COMMUNICATION A UN POINT D'ACCES**  
[72] SAVELLI, PATRICK, FR  
[72] GUENAI, MIKAEL, FR  
[71] ABEEWAY, FR  
[85] 2017-12-22  
[86] 2015-06-26 (PCT/IB2015/001311)  
[87] (WO2016/207681)

[21] **2,990,764**  
[13] A1

[51] **Int.Cl. C07K 16/36 (2006.01)**  
[25] EN  
[54] **FACTOR XI ANTIBODIES AND METHODS OF USE**  
[54] **ANTICORPS DE FACTEUR XI ET METHODES D'UTILISATION**  
[72] EDER, JORG, CH  
[72] EWERT, STEFAN, CH  
[72] HASSIEPEN, ULRICH, CH  
[72] KHDER, YASSER, CH  
[72] MAYR, LORENZ M., DE  
[72] MELKKO, SAMU, CH  
[72] SCHIERING, NIKOLAUS, CH  
[71] NOVARTIS AG, CH  
[85] 2017-12-22  
[86] 2016-06-24 (PCT/IB2016/053790)  
[87] (WO2016/207858)  
[30] US (62/184,955) 2015-06-26  
[30] US (62/341,568) 2016-05-25

[21] **2,990,807**  
[13] A1

[51] **Int.Cl. A61K 35/30 (2015.01) A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 35/12 (2015.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61K 47/36 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR TREATING ISCHEMIC DISEASES OR NEUROGENIC INFLAMMATORY DISORDERS, CONTAINING SECRETOME OF NEURAL PROGENITOR CELLS AS ACTIVE INGREDIENT**  
[54] **COMPOSITION PERMETTANT DE TRAITER DES MALADIES ISCHEMIQUES OU DES TROUBLES INFLAMMATOIRES NEUROGENES, CONTENANT UN SECRETOME DE CELLULES PROGENITRICES NEURONALES COMME INGREDIENTACTIF**  
[72] KIM, DONG WOOK, KR  
[72] KIM, HAN SOO, KR  
[71] S-BIOMEDICS, KR  
[85] 2017-12-22  
[86] 2016-06-27 (PCT/KR2016/006848)  
[87] (WO2016/209057)  
[30] KR (10-2015-0091378) 2015-06-26

[21] **2,990,936**  
[13] A1

[51] **Int.Cl. C14C 3/16 (2006.01)**  
[25] EN  
[54] **METHOD FOR TANNING AN ANIMAL SKIN**  
[54] **PROCEDE DE TANNAGE D'UNE PEAU ANIMALE**  
[72] COLOMER DURAN, RAMON, ES  
[71] DB PATENTS LTD., MT  
[85] 2017-12-27  
[86] 2016-07-13 (PCT/IB2016/054178)  
[87] (WO2017/009786)  
[30] IT (102015000034080) 2015-07-14

[21] **2,990,947**  
[13] A1

[51] **Int.Cl. G01N 21/3504 (2014.01) G02B 6/136 (2006.01)**  
[25] EN  
[54] **A SENSOR DEVICE AND A METHOD OF DETECTING A COMPONENT IN GAS**  
[54] **DISPOSITIF CAPTEUR ET PROCEDE DE DETECTION D'UN CONSTITUANT DANS UN GAZ**  
[72] GYLFASON, KRISTINN B., SE  
[72] SOHLSTROM, HANS, SE  
[72] BRIANO, FLORIA OTTONELLO, SE  
[72] STEMME, GORAN, SE  
[71] GYLFASON, KRISTINN B., SE  
[71] SOHLSTROM, HANS, SE  
[71] BRIANO, FLORIA OTTONELLO, SE  
[71] STEMME, GORAN, SE  
[85] 2017-12-27  
[86] 2016-06-27 (PCT/SE2016/050631)  
[87] (WO2017/003353)  
[30] SE (1550898-9) 2015-06-29

[21] **2,990,997**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/87 (2006.01)**  
[25] EN  
[54] **LUMINESCENCE MEASUREMENTS IN DIAMOND**  
[54] **MESURES DE LUMINESCENCE DANS LE DIAMANT**  
[72] SMITH, JAMES GORDON  
CHARTERS, GB  
[72] MCGUINNESS, COLIN, GB  
[72] FISHER, DAVID, GB  
[71] DE BEERS UK LTD, GB  
[85] 2017-12-28  
[86] 2016-06-28 (PCT/GB2016/051927)  
[87] (WO2017/001835)  
[30] GB (1511461.4) 2015-06-30

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[13] A1

[51] **Int.Cl. C12P 7/42 (2006.01) C07C 29/86 (2006.01) C12M 1/00 (2006.01) C12N 1/28 (2006.01)**

[25] FR

[54] **METHOD FOR EXTRACTING CARBOXYLIC ACIDS PRODUCED BY ANAEROBIC FERMENTATION FROM FERMENTABLE BIOMASS**

[54] **PROCEDE D'EXTRACTION D'ACIDES CARBOXYLIQUES PRODUITS PAR FERMENTATION ANAEROBIE A PARTIR DE BIOMASSE FERMENTESCIBLE**

[72] NOUAILLE, REGIS, FR

[72] PESSIOT, JEREMY, FR

[71] AFYREN, FR

[85] 2017-12-28

[86] 2016-07-13 (PCT/FR2016/051815)

[87] (WO2017/013335)

[30] FR (1556976) 2015-07-23

[21] **2,991,107**  
[13] A1

[51] **Int.Cl. A61K 38/26 (2006.01) A61K 38/28 (2006.01)**

[25] EN

[54] **GLUCAGON DERIVATIVE AND A COMPOSITION COMPRISING A LONG ACTING CONJUGATE OF THE SAME**

[54] **DERIVE DE GLUCAGON ET COMPOSITION COMPRENANT UN CONJUGUE A ACTION PROLONGEE DE CELUI-CI**

[72] PARK, YOUNG JIN, KR

[72] JUNG, SUNG YOUB, KR

[72] CHOI, IN YOUNG, KR

[72] KIM, JUNG KUK, KR

[71] HANMI PHARM. CO., LTD., KR

[85] 2017-12-29

[86] 2016-06-29 (PCT/KR2016/006984)

[87] (WO2017/003191)

[30] KR (10-2015-0093265) 2015-06-30

[21] **2,991,180**  
[13] A1

[51] **Int.Cl. C10L 1/188 (2006.01) B01D 53/14 (2006.01) C10C 3/02 (2006.01) C10G 29/06 (2006.01) C10G 29/20 (2006.01) C10L 1/222 (2006.01) C10L 1/26 (2006.01) C10L 3/10 (2006.01)**

[25] EN

[54] **HYDROGEN SULFIDE SCAVENGING ADDITIVE COMPOSITIONS, AND MEDIUM COMPRISING THE SAME**

[54] **COMPOSITIONS D'ADDITIF DE PIEGEAGE DE SULFURE D'HYDROGENE ET MILIEU LES CONTENANT**

[72] SUBRAMANIYAM, MAHESH, IN

[71] DORF KETAL CHEMICALS (INDIA) PRIVATE LIMITED, IN

[85] 2017-12-29

[86] 2016-06-17 (PCT/IB2016/053624)

[87] (WO2017/006199)

[30] IN (2567/MUM/2015) 2015-07-03

[21] **2,991,096**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SOLID FORMS AND FORMULATIONS OF (S)-4-(8-AMINO-3-(1-(BUT-2-YNOYL)PYRROLIDIN-2-YL)IMIDAZO[1,5-A]PYRAZIN-1-YL)-N-(PYRIDIN-2-YL)BENZAMIDE**

[54] **FORMES SOLIDES ET FORMULATIONS DE (S)-4-(8-AMINO-3-(1-(BUT-2-YNOYL)PYRROLIDIN-2-YL)IMIDAZO[1,5-A]PYRAZIN-1-YL)-N-(PYRIDIN-2-YL)BENZAMIDE**

[72] BLATTER, FRITZ, CH

[72] INGALLINERA, TIM, US

[72] BARF, TJEERD, NL

[72] ARET, EDWIN, NL

[72] KREJSA, CECILE, US

[72] EVARTS, JERRY, US

[71] ACERTA PHARMA B.V., NL

[85] 2017-12-29

[86] 2016-07-01 (PCT/IB2016/053988)

[87] (WO2017/002095)

[30] US (62/188,468) 2015-07-02

[30] US (62/271,708) 2015-12-28

[21] **2,991,169**  
[13] A1

[51] **Int.Cl. C06B 21/00 (2006.01) C06B 45/10 (2006.01)**

[25] EN

[54] **PBX COMPOSITION**

[54] **COMPOSITION DE PBX**

[72] STEVENS, REBECCA ELIZABETH, GB

[72] ARTHUR, RICHARD STEPHEN, GB

[72] HAYES, WAYNE CORD, GB

[72] BUDD, MICHAEL EDWARD, GB

[71] BAE SYSTEMS PLC, GB

[85] 2018-01-02

[86] 2016-07-06 (PCT/GB2016/052028)

[87] (WO2017/006109)

[30] GB (1511869.8) 2015-07-07

[30] EP (15275169.9) 2015-07-07

[30] GB (1601433.4) 2016-01-26

[21] **2,991,183**  
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES**

[72] BAIRD, MARK STEPHEN, GB

[72] GWENIN, CHRISTOPHER DAVID, GB

[72] AL DULAYYMI, JUMA'A RAHEEM NAJEEM, GB

[72] TAHER, SALAM GHAFOR, GB

[71] DIAGNOSTIG LTD, GB

[85] 2018-01-02

[86] 2016-08-12 (PCT/GB2016/052509)

[87] (WO2017/025758)

[30] GB (1514415.7) 2015-08-13

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[21] **2,991,198**  
[13] A1

[51] **Int.Cl. G01N 1/44 (2006.01) G01N 1/28 (2006.01) G01N 1/42 (2006.01) H01J 49/10 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PRODUCING LASER ABLATION PLUMES WITHOUT ABLATION RECOIL PRODUCTS**

[54] **METHODE ET SYSTEME DE PRODUCTION DE PLUMES D'ABLATION AU LASER SANS RECU A L'ABLATION**

[72] FRANJIC, KRESIMIR, CA

[71] SYNAPTIVE MEDICAL (BARBADOS) INC., BB

[85] 2018-02-09

[86] 2017-07-25 (PCT/CA2017/050897)

[87] (2991198)

[30] CA (2,937,046) 2016-07-25

[21] **2,991,230**  
[13] A1

[51] **Int.Cl. G06F 19/14 (2011.01) G06F 19/24 (2011.01)**

[25] EN

[54] **GENETIC AND GENEALOGICAL ANALYSIS FOR IDENTIFICATION OF BIRTH LOCATION AND SURNAME INFORMATION**

[54] **ANALYSE GENETIQUE ET GENEALOGIQUE PERMETTANT L'IDENTIFICATION D'INFORMATIONS CONCERNANT LE LIEU DE NAISSANCE ET LE NOM DE FAMILLE**

[72] KERMANY, AMIR R., US

[72] GRANKA, JULIE M., US

[72] NOTO, KEITH D., US

[71] ANCESTRY.COM DNA, LLC, US

[85] 2018-01-02

[86] 2016-07-07 (PCT/IB2016/054094)

[87] (WO2017/006284)

[30] US (62/189,422) 2015-07-07

[21] **2,991,232**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4365 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **HETEROARYL DERIVATIVES AS PARP INHIBITORS**

[54] **DERIVES HETEROARYLE UTILISES EN TANT QU'INHIBITEURS DE PARP**

[72] KARCHE, NAVNATH POPAT, IN

[72] TILEKAR, AJAY RAMCHANDRA, IN

[72] KURHADE, SANJAY PRALHAD, IN

[72] JADHAV, GANESH RAJARAM, IN

[72] GUPTA, NISHANT RAMNIWASJI, IN

[72] SINHA, NEELIMA, IN

[72] PALLE, VENKATA P., IN

[72] KAMBOJ, RAJENDER KUMAR, IN

[71] LUPIN LIMITED, IN

[85] 2018-01-02

[86] 2016-08-13 (PCT/IB2016/054886)

[87] (WO2017/029601)

[30] IN (3111/MUM/2015) 2015-08-17

[30] IN (3588/MUM/2015) 2015-09-21

[30] IN (201621000832) 2016-01-08

[21] **2,991,268**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/44 (2006.01) A61P 31/18 (2006.01) C07D 401/04 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES DE L'ACIDE PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US

[72] NAIDU, B. NARASIMHULU, US

[72] PATEL, MANOJ, US

[72] SIVAPRAKASAM, PRASANNA, US

[71] VIH V HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-01-03

[86] 2016-07-06 (PCT/IB2016/054048)

[87] (WO2017/006260)

[30] US (62/189,975) 2015-07-08

[21] **2,991,273**  
[13] A1

[51] **Int.Cl. C07D 317/70 (2006.01) A61K 31/36 (2006.01) A61K 31/404 (2006.01) A61K 31/4184 (2006.01) A61K 31/426 (2006.01) A61K 31/433 (2006.01) A61K 31/443 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61P 11/00 (2006.01) C07D 405/12 (2006.01) C07D 407/12 (2006.01) C07D 493/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED TRICYCLICS AND METHOD OF USE**

[54] **COMPOSES TRICYCLIQUES SUBSTITUES ET PROCEDE D'UTILISATION**

[72] ALTENBACH, ROBERT J., US

[72] BOGDAN, ANDREW, US

[72] COWART, MARLON D., US

[72] ESMIEU, WILLIAM RAMESH, GB

[72] GFESSER, GREGORY A., US

[72] GRESZLER, STEPHEN N., US

[72] KOENIG, JOHN R., US

[72] KYM, PHILIP R., US

[72] LIU, BO, US

[72] MALAGU, KARINE FABIENNE, GB

[72] PATEL, SACHIN V., US

[72] SCANIO, MARC J., US

[72] SEARLE, XENIA B., US

[72] VOIGHT, ERIC, US

[72] WANG, XUEQING, US

[72] YEUNG, MING C., US

[71] ABBVIE S.A.R.L., LU

[71] GALAPAGOS NV, BE

[85] 2018-01-03

[86] 2016-07-14 (PCT/IB2016/054219)

[87] (WO2017/009804)

[30] US (62/193,391) 2015-07-16

[30] US (62/299,633) 2016-02-25

[21] **2,991,280**  
[13] A1

[51] **Int.Cl. C05C 3/00 (2006.01) C05C 9/00 (2006.01) C05G 3/00 (2006.01)**

[25] EN

[54] **GRANULATION OF UREA PRODUCTS**

[54] **GRANULATION DE PRODUITS D'UREE**

[72] SOONS, PETRUS CATHARINA GERLACH, NL

[72] SCHAAFSMA, STEFAN HENDRIKUS, NL

[71] STAMICARBON B.V., NL

[85] 2018-01-03

[86] 2016-07-06 (PCT/NL2016/050486)

[87] (WO2017/007315)

[30] EP (15175476.9) 2015-07-06

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[21] **2,991,286**  
[13] A1

[51] **Int.Cl. A61K 36/27 (2006.01) A61K 36/53 (2006.01)**

[25] EN

[54] **COMPOSITION, CONTAINING EXTRACTS OF DIPSACUS ASPEROIDES AND CYNANCHUM WILFORDII AS ACTIVE INGREDIENTS, FOR PROMOTING MOTOR ABILITY AND MUSCLES**

[54] **COMPOSITION, CONTENANT DES EXTRAITS DE DIPSACUS ASPEROIDES ET CYNANCHUM WILFORDII COMME PRINCIPES ACTIFS, POUR FAVORISER LA CAPACITE MOTEUR ET LES MUSCLES**

[72] KANG, YONGKOO, KR  
[71] BRAINON INC., KR  
[85] 2018-01-03  
[86] 2016-07-07 (PCT/KR2016/007344)  
[87] (WO2017/010735)  
[30] KR (10-2015-0098183) 2015-07-10

[21] **2,991,293**  
[13] A1

[51] **Int.Cl. C06B 21/00 (2006.01) B01J 13/02 (2006.01) C06B 45/10 (2006.01)**

[25] EN

[54] **CAST EXPLOSIVE COMPOSITION**

[54] **COMPOSITION EXPLOSIVE A COULER**

[72] STEVENS, REBECCA ELIZABETH, GB  
[72] ARTHUR, RICHARD, GB  
[72] HAYES, WAYNE CORD, GB  
[72] BUDD, MICHAEL, GB  
[71] BAE SYSTEMS PLC, GB  
[85] 2018-01-03  
[86] 2016-07-06 (PCT/GB2016/052029)  
[87] (WO2017/006110)  
[30] GB (1511867.2) 2015-07-07  
[30] EP (15275168.1) 2015-07-07  
[30] GB (1601434.2) 2016-01-26

[21] **2,991,299**  
[13] A1

[51] **Int.Cl. G01N 21/3504 (2014.01) G01J 1/16 (2006.01) G01N 21/31 (2006.01)**

[25] EN

[54] **GAS DETECTION APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE DETECTION DE GAZ**

[72] MASSIE, CRAWFORD, GB  
[72] MATHIESON, FRASER, GB  
[72] GLENDINNING, ANDREW, GB  
[71] GAS MEASUREMENT INSTRUMENTS LIMITED, GB  
[85] 2018-01-03  
[86] 2016-07-27 (PCT/GB2016/052300)  
[87] (WO2017/017447)  
[30] GB (1513313.5) 2015-07-28  
[30] GB (PCT/GB2016/050055) 2016-01-11

[21] **2,991,369**  
[13] A1

[51] **Int.Cl. C07D 207/04 (2006.01) C07D 233/58 (2006.01) C10L 1/232 (2006.01) C10L 10/18 (2006.01)**

[25] EN

[54] **CYCLIC QUATERNARY AMMONIUM SALTS AS FUEL OR LUBRICANT ADDITIVES**

[54] **SELS D'AMMONIUM QUATERNAIRE CYCLIQUE EN TANT QU'ADDITIFS POUR CARBURANT OU LUBRIFIANT**

[72] COOK, STEPHEN LEONARD, GB  
[71] INNOSPEC LIMITED, GB  
[85] 2018-01-04  
[86] 2016-07-28 (PCT/GB2016/052312)  
[87] (WO2017/017454)  
[30] GB (1513304.4) 2015-07-28

[21] **2,991,462**  
[13] A1

[51] **Int.Cl. G01N 21/71 (2006.01) G01N 21/15 (2006.01) G01N 21/68 (2006.01) G01N 21/85 (2006.01)**

[25] EN

[54] **METHOD FOR OBSERVATION STATE OF OPTICAL PATH IN OPTICAL EMISSION SPECTROSCOPY OF A SAMPLE AND COMPUTER PROGRAM PRODUCT FOR A PROCESSING DEVICE**

[54] **PROCEDE POUR ETAT D'OBSERVATION DE TRAJET OPTIQUE EN SPECTROSCOPIE D'EMISSION OPTIQUE D'UN ECHANTILLON ET PRODUIT-PROGRAMME INFORMATIQUE POUR UN DISPOSITIF DE TRAITEMENT**

[72] KORESAAR, LAURI, FI  
[72] SALMI, BJORN, FI  
[72] OLLIKAINEN, ARTO, FI  
[71] OUTOTEC (FINLAND) OY, FI  
[85] 2018-01-05  
[86] 2016-07-08 (PCT/FI2016/050504)  
[87] (WO2017/009528)  
[30] FI (20155546) 2015-07-10

[21] **2,991,464**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4545 (2006.01) A61P 31/00 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES DE L'ACIDE PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] EASTMAN, KYLE J., US  
[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] PARCELLA, KYLE E., US  
[72] PATEL, MANOJ, US  
[72] TU, YONG, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB  
[85] 2018-01-05  
[86] 2016-07-07 (PCT/IB2016/054089)  
[87] (WO2017/006280)  
[30] US (62/190,598) 2015-07-09

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[21] **2,991,467**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4545 (2006.01) A61P 31/00 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 417/04 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES DE L'ACIDE PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] PATEL, MANOJ, US  
[72] ROMINE, JEFFREY LEE, US  
[72] ST. LAURENT, DENIS R., US  
[72] WANG, TAO, US  
[72] ZHANG, ZHONGXING, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB  
[85] 2018-01-05  
[86] 2016-07-07 (PCT/IB2016/054090)  
[87] (WO2017/006281)  
[30] US (62/190,338) 2015-07-09

[21] **2,991,468**  
[13] A1

[51] **Int.Cl. C07D 207/40 (2006.01) A61K 31/4015 (2006.01) A61P 35/00 (2006.01) C07D 211/88 (2006.01)**

[25] EN

[54] **HYDANTOIN CONTAINING DEOXYURIDINE TRIPHOSPHATASE INHIBITORS**

[54] **HYDANTOINE CONTENANT DES INHIBITEURS DE LA DESOXYURIDINE TRIPHOSPHATASE**

[72] SPYVEE, MARK, US  
[72] SHIRUDE, PRAVIN S., IN  
[71] CV6 THERAPEUTICS (NI) LIMITED, GB  
[85] 2018-01-05  
[86] 2016-07-07 (PCT/IB2016/054091)  
[87] (WO2017/006282)  
[30] IN (740/KOL/2015) 2015-07-08

[21] **2,991,475**  
[13] A1

[51] **Int.Cl. A61F 2/30 (2006.01) A61B 17/80 (2006.01) A61F 2/28 (2006.01) A61F 2/40 (2006.01)**

[25] EN

[54] **IMPROVED PROSTHESIS FOR OSTEOSYNTHESIS**

[54] **PROTHESE AMELIOREE POUR OSTEOSYNTHESE**

[72] RUSSO, ENRICO, IT  
[72] RUSSO, RAFFAELE, IT  
[71] DA VINCI S.R.L., IT  
[85] 2018-01-05  
[86] 2015-07-06 (PCT/IT2015/000179)  
[87] (WO2017/006358)

[21] **2,991,524**  
[13] A1

[51] **Int.Cl. C12Q 1/18 (2006.01)**

[25] FR

[54] **METHOD FOR DETERMINING THE DEGREE OF SENSITIVITY OF A STRAIN OF FUNGUS TO AN ANTIFUNGAL AGENT**

[54] **PROCEDE DE DETERMINATION DU DEGRE DE SENSIBILITE D'UNE SOUCHE DE CHAMPIGNON VIS-A-VIS D'UN ANTIFONGIQUE**

[72] MORIN-ALDEBERT, DELPHINE PAULE RENEE, FR  
[72] CORNET-GIGOU, MURIELLE MONIQUE JACQUELINE, FR  
[71] UNIVERSITE GRENOBLE ALPES, FR  
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE GRENOBLE, FR  
[85] 2018-01-04  
[86] 2016-07-15 (PCT/FR2016/051832)  
[87] (WO2017/009585)  
[30] FR (15/01489) 2015-07-15

[21] **2,991,526**  
[13] A1

[51] **Int.Cl. H01Q 1/28 (2006.01) H01Q 1/12 (2006.01)**

[25] FR

[54] **ASSEMBLY OF REFLECTORS OF ELECTROMAGNETIC ANTENNAE**

[54] **ENSEMBLE DE REFLECTEURS D'ANTENNES ELECTROMAGNETIQUES**

[72] KERKOUR, GAELLE, FR  
[72] KALCHMAN, LAURENT, FR  
[72] LEBORGNE, FLORIAN, FR  
[71] ARIANEGROUP SAS, FR  
[85] 2018-01-04  
[86] 2016-06-23 (PCT/FR2016/000103)  
[87] (WO2017/013310)  
[30] FR (1501553) 2015-07-22

[21] **2,991,533**  
[13] A1

[51] **Int.Cl. G05D 1/10 (2006.01) B08B 1/00 (2006.01) B08B 3/02 (2006.01) G01B 21/20 (2006.01) G01S 5/00 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING A FLYING BODY FOR CLEANING SURFACES**

[54] **METHODE DE CONTROLE D'UN CORPS VOLANT DANS LE NETTOYAGE DE SURFACES**

[72] AZAIZ, RIDHA, GB  
[71] AZAIZ, RIDHA, GB  
[85] 2018-01-05  
[86] 2015-07-05 (PCT/DE2015/000335)  
[87] (WO2016/004914)  
[30] DE (10 2014 009 903.2) 2014-07-05

[21] **2,991,588**  
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) G05B 6/02 (2006.01)**

[25] EN

[54] **TEMPERATURE CONTROL SYSTEM**

[54] **SYSTEME DE REGULATION DE TEMPERATURE**

[72] MULCAHY, JOHN, GB  
[71] BRITISH GAS TRADING LIMITED, GB  
[85] 2018-01-05  
[86] 2016-07-08 (PCT/GB2016/052074)  
[87] (WO2017/006137)  
[30] GB (1512028.0) 2015-07-09



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[21] **2,991,664**  
[13] A1

[51] **Int.Cl. H04L 12/715 (2013.01) H04L 12/741 (2013.01) H04L 29/08 (2006.01)**

[25] EN  
[54] **DYNAMIC PACKET ROUTING**  
[54] **ROUTAGE DE PAQUETS DYNAMIQUE**

[72] BAMFORD, STEWART, GB  
[71] LEVEL 3 COMMUNICATIONS LLC, US

[85] 2018-01-08  
[86] 2016-06-29 (PCT/GB2016/051941)  
[87] (WO2017/006081)  
[30] GB (1512022.3) 2015-07-09

[21] **2,991,677**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 27/00 (2006.01)**

[25] EN  
[54] **BIOSENSOR**  
[54] **BIOCAPTEUR**

[72] SHAVER, MICHAEL P., GB  
[72] HANDS, PHILIP J.W., GB  
[72] FERRIER, DAVID, GB  
[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB

[85] 2018-01-08  
[86] 2016-07-07 (PCT/GB2016/052045)  
[87] (WO2017/006122)  
[30] GB (1511969.6) 2015-07-08

[21] **2,991,684**  
[13] A1

[51] **Int.Cl. C07D 417/06 (2006.01) A61K 31/54 (2006.01) A61P 31/10 (2006.01) C07D 285/16 (2006.01) C07D 417/12 (2006.01)**

[25] EN  
[54] **2-AMINO-1,3,4-THIADIAZINE AND 2-AMINO-1,3,4-OXADIAZINE BASED ANTIFUNGAL AGENTS**  
[54] **AGENTS ANTIFONGIQUES A BASE DE 2-AMINO-1,3,4-THIADIAZINE ET DE 2-AMINO-1,3,4-OXADIAZINE**

[72] SIBLEY, GRAHAM EDWARD MORRIS, GB  
[72] MALMSTROM, LARS JONAS, SE  
[72] LARSSON, JOHANNA MARIA, SE  
[71] F2G LIMITED, GB

[85] 2018-01-08  
[86] 2016-07-14 (PCT/GB2016/052132)  
[87] (WO2017/009651)  
[30] GB (1512286.4) 2015-07-14

[21] **2,991,715**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) A61K 31/496 (2006.01) G01N 33/52 (2006.01)**

[25] EN  
[54] **GDF-15 AS A HAEMATOLOGICAL TOXICITY BIOMARKER**  
[54] **PROTEINE GDF-15 UTILISEE COMME BIOMARQUEUR DE TOXICITE HEMATOLOGIQUE**

[72] GUERREIRO, NELSON, CH  
[72] MEILLE, CHRISTOPHE, CH  
[72] WUERHNER, JENS, CH  
[71] NOVARTIS AG, CH

[85] 2018-01-08  
[86] 2016-08-03 (PCT/IB2016/054685)  
[87] (WO2017/021908)  
[30] US (62/200,310) 2015-08-03

[21] **2,991,739**  
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/20 (2006.01) B01J 2/00 (2006.01)**

[25] FR  
[54] **MANNITOL GRANULES FOR DIRECT COMPRESSION**  
[54] **GRANULES DE MANNITOL POUR COMPRESSION DIRECTE**

[72] BOIT, BAPTISTE, FR  
[72] LEFEVRE, PHILIPPE, FR  
[71] ROQUETTE FRERES, FR

[85] 2018-01-08  
[86] 2016-07-15 (PCT/FR2016/051820)  
[87] (WO2017/013338)  
[30] FR (1556787) 2015-07-17

[21] **2,991,845**  
[13] A1

[51] **Int.Cl. B22F 5/00 (2006.01) B22F 3/11 (2006.01) C22C 1/08 (2006.01) E21B 10/00 (2006.01) C22C 26/00 (2006.01) C22C 29/08 (2006.01)**

[25] EN  
[54] **FABRICATION METHOD USING FOAM ELEMENTS, AND STRUCTURES FABRICATED USING THE METHOD**  
[54] **PROCEDE DE FABRICATION A L'AIDE D'ELEMENTS EN MOUSSE ET STRUCTURES FABRIQUEES A L'AIDE DU PROCEDE**

[72] FRANCIS, MARK JONATHAN, GB  
[72] BRYANT, MARC A., GB  
[71] NOV DOWNHOLE EURASIA LIMITED, GB

[85] 2018-01-09  
[86] 2016-07-08 (PCT/GB2016/052063)  
[87] (WO2017/009610)  
[30] GB (1512095.9) 2015-07-10

[21] **2,991,846**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN  
[54] **FGFR EXPRESSION AND SUSCEPTIBILITY TO AN FGFR INHIBITOR**  
[54] **EXPRESSION DE FGFR ET SENSIBILITE A UN INHIBITEUR DU FGFR**

[72] VASLIN-CHESEX, ANNE, CH  
[72] MOULON, CORINNE, CH  
[72] BRICHORY, FRANCK, FR  
[72] POKORSKA-BOCCI, ANNA, CH  
[71] DEBIOPHARM INTERNATIONAL SA, CH

[85] 2018-01-09  
[86] 2016-07-21 (PCT/IB2016/001044)  
[87] (WO2017/017516)  
[30] IB (PCT/IB2015/001245) 2015-07-24  
[30] IB (PCT/IB2016/000290) 2016-03-14

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[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**  
[25] EN  
[54] **A VALVULAR SLEEVE FOR VALVULAR PROSTHESES AND CORRESPONDING DEVICE**  
[54] **GAINÉ VALVULAIRE POUR PROTHÈSES VALVULAIRES ET DISPOSITIF CORRESPONDANT**  
[72] ROLANDO, GIOVANNI, IT  
[72] GASCHINO, PAOLO, IT  
[71] SORIN GROUP ITALIA S.R.L., IT  
[85] 2018-01-09  
[86] 2016-07-19 (PCT/IB2016/054281)  
[87] (WO2017/013578)  
[30] IT (102015000037126) 2015-07-22

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[21] **2,991,856**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATMENT OF TRAUMATIC BRAIN INJURY TARGETING AGGREGATED PEPTIDES**  
[54] **PROCEDE DE TRAITEMENT D'UNE LESION CEREBRALE TRAUMATIQUE CIBLANT DES PEPTIDES AGREGES**  
[72] LANNFELT, LARS, SE  
[72] BASUN, HANS, SE  
[72] WAARA, ERIK ROLLMAN, SE  
[71] BIOARCTIC NEUROSCIENCE AB, SE  
[85] 2018-01-09  
[86] 2016-07-20 (PCT/IB2016/054318)  
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[30] US (62/195,183) 2015-07-21  
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[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **NOVEL COMBINATION FOR USE IN THE TREATMENT OF CANCER**  
[54] **UTILISATION COMBINEE D'ANTICORPS ANTI-PD-1 ET ANTI-M-CSF DANS LE TRAITEMENT DU CANCER**  
[72] FJAEELLSKOG, MARIE-LOUISE, US  
[72] CAMERON, JOHN, US  
[72] CAO, ZHU, US  
[72] CIPOLLETTA, DANIELA, US  
[72] MACISAAC, KENZIE, US  
[71] NOVARTIS AG, CH  
[85] 2018-01-09  
[86] 2016-07-27 (PCT/IB2016/054487)  
[87] (WO2017/017623)  
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[13] A1

[51] **Int.Cl. A23L 19/12 (2016.01) A23L 19/18 (2016.01)**  
[25] EN  
[54] **METHOD FOR THE PREPARATION OF DRIED CRUNCHY POTATO BODIES AS CONSUMABLE**  
[54] **PROCEDE DE PREPARATION DE CORPS DE POMME DE TERRE SECHES CROUSTILLANTS EN TANT QUE PRODUIT ALIMENTAIRE**  
[72] VAN DOORN, JOHANNES ELISABERT, NL  
[71] HZPC HOLLAND B.V., NL  
[85] 2018-01-09  
[86] 2016-07-05 (PCT/NL2016/050477)  
[87] (WO2017/010869)  
[30] NL (2015152) 2015-07-10  
[30] NL (2015154) 2015-07-10

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[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01)**  
[25] EN  
[54] **BARRIER FUNCTION MEASUREMENTS**  
[54] **MESURES DE FONCTION BARRIERE**  
[72] VULTO, PAUL, NL  
[72] TRIETSCH, SEBASTIAAN JOHANNES, NL  
[72] LANZ, HENRIETTE LEONORE, NL  
[72] VORMANN, MARIANNE KATHARINA, NL  
[71] MIMETAS B.V., NL  
[85] 2018-01-09  
[86] 2016-07-08 (PCT/NL2016/050502)  
[87] (WO2017/007325)  
[30] NL (2015130) 2015-07-09

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **HUMAN CD3 BINDING ANTIBODY**  
[54] **ANTICORPS SE LIANT A UN CD3 HUMAIN**  
[72] BAKKER, ALEXANDER BERTHOLD HENDRIK, NL  
[72] VAN LOO, PIETER FOKKO, NL  
[71] MERUS N.V., NL  
[85] 2018-01-09  
[86] 2016-07-08 (PCT/NL2016/050507)  
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[30] EP (15176355.4) 2015-07-10

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[13] A1

[51] **Int.Cl. C12N 15/63 (2006.01) C07K 14/435 (2006.01) C12N 5/10 (2006.01) C12N 15/10 (2006.01) C12N 15/62 (2006.01) C40B 40/02 (2006.01)**  
[25] EN  
[54] **SH3 DOMAIN DERIVATIVES**  
[54] **DERIVES DE DOMAINES SH3**  
[72] SAKSELA, KALLE, FI  
[71] NEXT BIOMED THERAPIES OY, FI  
[85] 2018-01-10  
[86] 2016-07-08 (PCT/FI2016/050509)  
[87] (WO2017/009533)  
[30] FI (20155554) 2015-07-10

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[13] A1

[51] **Int.Cl. G01N 27/82 (2006.01) G01N 17/00 (2006.01) G01N 27/87 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE PREDICTION OF LEAKAGE IN A PIPELINE**

[54] **SYSTEME ET PROCEDE PERMETTANT LA PREDICTION D'UNE FUITE DANS UNE CANALISATION**

[72] WAYMAN, MALCOLM, GB

[72] TREECE, RICHARD J., GB

[71] ADVANCED ENGINEERING SOLUTIONS LTD., GB

[85] 2018-01-10

[86] 2016-05-25 (PCT/GB2016/051505)

[87] (WO2016/189299)

[30] GB (1509169.7) 2015-05-28

[21] **2,991,980**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **HIDE1 COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS DE HIDE1 ET METHODES ASSOCIEES**

[72] DICKEN, YOSEF, IL

[72] DASSA, LIAT, IL

[72] NOVIK, AMIT, IL

[72] TOPORIK, AMIR, IL

[72] COJOCARU, GAD S., IL

[72] KLIGER, YOSSEF, IL

[72] BENITA, YAIR, IL

[72] LEVY, OFER, IL

[72] VAKNIN, ILAN, IL

[72] MACHLENKIN, ARTHUR, IL

[72] HECHT, IRIS, IL

[72] KIM, JUNGMIN, IL

[72] POW, ANDREW, IL

[72] DRAKE, ANDREW W., IL

[71] COMPUGEN LTD., IL

[85] 2018-01-10

[86] 2016-07-13 (PCT/IB2016/001079)

[87] (WO2017/009712)

[30] US (62/191,775) 2015-07-13

[30] US (62/191,804) 2015-07-13

[21] **2,992,025**  
[13] A1

[51] **Int.Cl. C01F 7/16 (2006.01) C04B 7/32 (2006.01)**

[25] FR

[54] **PROCESS FOR MANUFACTURING CALCIUM ALUMINATES**

[54] **PROCEDE DE FABRICATION D'ALUMINATES DE CALCIUM**

[72] VALERO, REMI, FR

[72] DEFFRASNES, PHILIPPE, FR

[72] SEVER, LIONEL, FR

[72] SCHROEDER, FRANCK, FR

[71] KERNEOS, FR

[85] 2018-01-10

[86] 2016-07-13 (PCT/FR2016/051811)

[87] (WO2017/009581)

[30] FR (1556686) 2015-07-15

[21] **2,992,026**  
[13] A1

[51] **Int.Cl. H01R 35/04 (2006.01)**

[25] EN

[54] **AN ELECTRICAL CONNECTOR**

[54] **CONNECTEUR ELECTRIQUE**

[72] COX, GREGORY SIMON, GB

[71] VOLTRICS LTD, GB

[85] 2018-01-08

[86] 2015-07-15 (PCT/IB2015/055346)

[87] (WO2016/009365)

[30] GB (1412539.7) 2014-07-15

[21] **2,992,070**  
[13] A1

[51] **Int.Cl. A23K 40/10 (2016.01) A23K 10/30 (2016.01) A23K 10/37 (2016.01) A23K 20/111 (2016.01) C05F 5/00 (2006.01) C05F 11/00 (2006.01)**

[25] EN

[54] **GRANULAR SOLID COMPOSITION COMPRISING TANNIN, ITS PRODUCTION PROCESS AND ITS USES IN ANIMAL FEED AND AGRICULTURE**

[54] **COMPOSITION SOLIDE GRANULAIRE COMPRENANT UN TANIN, SON PROCEDE DE PRODUCTION ET SES UTILISATIONS DANS UN ALIMENT POUR ANIMAUX ET DANS L'AGRICULTURE**

[72] MICHELOTTI, MARCO, IT

[71] PROPHOS CHEMICALS SRL, IT

[85] 2018-01-10

[86] 2016-07-21 (PCT/IB2016/054336)

[87] (WO2017/017567)

[30] IT (102015000037950) 2015-07-24

[21] **2,992,174**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 38/10 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION COMPOSITIONS FOR TREATING DISORDERS REQUIRING REMOVAL OR DESTRUCTION OF UNWANTED CELLULAR PROLIFERATIONS**

[54] **COMPOSITIONS DE COMBINAISONS POUR LE TRAITEMENT DE TROUBLES NECESSITANT LE RETRAIT OU LA DESTRUCTION DE PROLIFERATIONS CELLULAIRES NON VOULUES**

[72] AVERBACK, PAUL, BS

[71] NYMOX CORPORATION, US

[85] 2018-01-11

[86] 2016-06-13 (PCT/IB2016/053483)

[87] (WO2016/199112)

[30] US (14/738,551) 2015-06-12

[21] **2,992,213**  
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01) G02B 6/10 (2006.01)**

[25] EN

[54] **APERTURE MULTIPLIER USING A RECTANGULAR WAVEGUIDE**

[54] **MULTIPLICATEUR D'OUVERTURE EMPLOYANT UN GUIDE D'ONDE RECTANGULAIRE**

[72] DANZIGER, YOCHAY, IL

[71] LUMUS LTD, IL

[85] 2018-02-20

[86] 2017-09-12 (PCT/IL2017/051028)

[87] (2992213)

[30] US (62/405,936) 2016-10-09

[30] US (62/418,919) 2016-11-08

[30] US (62/509,369) 2017-05-22

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[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H04M 1/04 (2006.01) G06F 1/16 (2006.01)**  
[25] EN  
[54] **CHARGING STATION FOR TELECOMMUNICATION DEVICES AND ELECTRONIC WATCHES**  
[54] **STATION DE CHARGE POUR EQUIPEMENTS DE TELECOMMUNICATIONS ET MONTRES ELECTRONIQUES**  
[72] DITTRICH, KLEMENS, DE  
[71] DITTRICH, KLEMENS, DE  
[85] 2018-01-12  
[86] 2016-07-12 (PCT/DE2016/100309)  
[87] (WO2017/008786)  
[30] DE (20 2015 103 714.7) 2015-07-15  
[30] DE (20 2016 101 967.2) 2016-04-14

[21] **2,992,397**  
[13] A1

[51] **Int.Cl. G06F 19/10 (2011.01)**  
[25] EN  
[54] **LOCAL GENETIC ETHNICITY DETERMINATION SYSTEM**  
[54] **SYSTEME DE DETERMINATION D'ETHNICITE GENETIQUE LOCALE**  
[72] NOTO, KEITH D., US  
[72] WANG, YONG, US  
[71] ANCESTRY.COM DNA, LLC, US  
[85] 2018-01-12  
[86] 2016-07-13 (PCT/IB2016/054180)  
[87] (WO2017/009788)  
[30] US (62/191,968) 2015-07-13

[21] **2,992,402**  
[13] A1

[51] **Int.Cl. H04L 12/24 (2006.01) G06F 17/30 (2006.01)**  
[25] EN  
[54] **CONTROL CENTER SYSTEM FOR SEARCHING AND MANAGING OBJECTS ACROSS DATA CENTERS**  
[54] **SYSTEME DE CENTRE DE COMMANDE PERMETTANT DE RECHERCHER ET GERER DES OBJETS A TRAVERS DES CENTRES DE DONNEES**  
[72] PURUSOTHAMAN, ANAND, US  
[72] PALANISAMY, MURALI, US  
[71] APPVIEWX INC, US  
[85] 2018-01-12  
[86] 2016-07-14 (PCT/IB2016/054200)  
[87] (WO2017/009797)  
[30] US (14/798,738) 2015-07-14

[21] **2,992,404**  
[13] A1

[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/135 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/44 (2017.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION CONTAINING CELECOXIB AND TRAMADOL**  
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT DU CELECOXIB ET DU TRAMADOL**  
[72] KIM, JUNG JU, KR  
[72] LEE, DONG MIN, KR  
[72] KIM, SUN KYOUNG, KR  
[71] YOO YOUNG PHARM CO.,LTD., KR  
[85] 2018-01-12  
[86] 2016-06-29 (PCT/KR2016/006930)  
[87] (WO2017/010706)  
[30] KR (10-2015-0099808) 2015-07-14

[21] **2,992,409**  
[13] A1

[51] **Int.Cl. A61F 5/455 (2006.01) A61F 5/44 (2006.01)**  
[25] EN  
[54] **SMART MENSTRUAL CUP AND METHOD FOR MEASURING MENSTRUAL BLOOD USING SMART MENSTRUAL CUP**  
[54] **COUPE MENSTRUELLE INTELLIGENTE ET PROCEDE DE MESURE DE SANG MENSTRUEL A L'AIDE DE LA COUPE MENSTRUELLE INTELLIGENTE**  
[72] HWANG, RYONG, KR  
[71] LOON LAB INC., KR  
[85] 2018-01-12  
[86] 2016-07-13 (PCT/KR2016/007597)  
[87] (WO2017/010800)  
[30] KR (10-2015-0098986) 2015-07-13  
[30] KR (10-2015-0099024) 2015-07-13  
[30] KR (10-2016-0088516) 2016-07-13

[30] KR (10-2016-0088516) 2016-07-13

[21] **2,992,417**  
[13] A1

[51] **Int.Cl. A61N 1/20 (2006.01) A61N 1/05 (2006.01)**  
[25] EN  
[54] **DEVICE FOR STERILIZING OBJECTS AND ASSOCIATED METHOD OF STERILIZATION**  
[54] **APPAREIL DE STERILISATION D'OBJETS ET METHODE ASSOCIEE DE STERILISATION**  
[72] CASOLI, LINO, IT  
[72] LAGARDE, PHILIPPE EDOUARD JOSEPH PAUL, FR  
[71] LAGARDE PAJOT, JOSIANE, FR  
[71] LAGARDE, PHILIPPE EDOUARD JOSEPH PAUL, FR  
[85] 2018-01-12  
[86] 2016-06-23 (PCT/IB2016/053742)  
[87] (WO2017/009727)  
[30] IT (102015000033486) 2015-07-13

[21] **2,992,419**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) C07K 14/47 (2006.01)**  
[25] EN  
[54] **PEPTIDE COMBINATIONS FOR USE IN THE DIAGNOSIS OF SCHIZOPHRENIA**  
[54] **COMBINAISONS DE PEPTIDES A UTILISER POUR LE DIAGNOSTIC DE LA SCHIZOPHRENIE**  
[72] SHINITZKY, MEIR (DECEASED), IL  
[72] SCHECHTMAN, LUDMILA, IL  
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL  
[85] 2018-01-12  
[86] 2016-07-14 (PCT/IL2016/050768)  
[87] (WO2017/009846)  
[30] US (62/192,206) 2015-07-14

[21] **2,992,501**  
[13] A1

[51] **Int.Cl. F24S 20/20 (2018.01)**  
[25] EN  
[54] **ENCLOSED SOLAR ENERGY UTILIZATION DEVICE AND SYSTEM**  
[54] **DISPOSITIF ET SYSTEME D'UTILISATION D'ENERGIE SOLAIRE ENFERMEE**  
[72] HU, XIAOPING, CN  
[71] BOLYMEDIA HOLDINGS CO. LTD., US  
[85] 2018-01-15  
[86] 2015-07-29 (PCT/CN2015/085442)  
[87] (WO2017/015901)

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[13] A1

[51] **Int.Cl. H04R 27/00 (2006.01)**  
[25] EN  
[54] **SYNCHRONISING AN AUDIO SIGNAL**  
[54] **SYNCHRONISATION D'UN SIGNAL AUDIO**  
[72] TULL, GRAHAM, GB  
[71] POWERCHORD GROUP LIMITED, GB  
[85] 2018-01-15  
[86] 2016-07-14 (PCT/GB2016/052136)  
[87] (WO2017/009653)  
[30] GB (1512450.6) 2015-07-16

[21] **2,992,520**  
[13] A1

[51] **Int.Cl. G01N 27/62 (2006.01) H01J 49/06 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE**  
[72] PIPER, LEE JAMES, GB  
[71] SMITHS DETECTION-WATFORD LIMITED, GB  
[85] 2018-01-15  
[86] 2016-07-29 (PCT/GB2016/052360)  
[87] (WO2017/017479)  
[30] GB (1513472.9) 2015-07-30

[21] **2,992,549**  
[13] A1

[51] **Int.Cl. H05B 1/02 (2006.01)**  
[25] EN  
[54] **HEATER CONTROL SYSTEM**  
[54] **SYSTEME DE COMMANDE DE DISPOSITIF DE CHAUFFAGE**  
[72] SIEK, TADEUSZ, PL  
[71] VTS SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL  
[85] 2018-01-15  
[86] 2016-04-14 (PCT/PL2016/050012)  
[87] (WO2017/010898)  
[30] PL (P.413127) 2015-07-14

[21] **2,992,512**  
[13] A1

[51] **Int.Cl. H04R 27/00 (2006.01)**  
[25] EN  
[54] **A METHOD OF AUGMENTING AN AUDIO CONTENT**  
[54] **PROCEDE PERMETTANT D'AUGMENTER UN CONTENU AUDIO**  
[72] TULL, GRAHAM, GB  
[71] POWERCHORD GROUP LIMITED, GB  
[85] 2018-01-15  
[86] 2016-07-14 (PCT/GB2016/052139)  
[87] (WO2017/009654)  
[30] GB (1512444.9) 2015-07-16

[21] **2,992,522**  
[13] A1

[51] **Int.Cl. A23L 27/00 (2016.01) A23L 27/20 (2016.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING TASTE MODULATION COMPOUNDS, THEIR USE AND FOODSTUFF COMPRISING THEM**  
[54] **COMPOSITION COMPRENANT DES COMPOSES MODULATEURS DE GOUT, SON UTILISATION ET PRODUIT ALIMENTAIRE LA COMPRENANT**  
[72] JOSEPHSON, DAVE, US  
[71] V. MANE FILS, FR  
[85] 2018-01-15  
[86] 2016-08-05 (PCT/IB2016/001272)  
[87] (WO2017/025804)  
[30] US (62/202,542) 2015-08-07

[21] **2,992,682**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) B03B 9/00 (2006.01) C04B 18/30 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR TRANSFORMING MUNICIPAL SOLID ORGANIC AND INORGANIC WASTE INTO AGGREGATES**  
[54] **PROCEDE ET APPAREIL POUR TRANSFORMER DES DECHETS URBAINS SOLIDES ORGANIQUES ET INORGANIQUES EN AGREGATS**  
[72] GARIN ROTONDARO, INAKI JOSE, ES  
[71] GNADINGER, OSCAR MIGUEL, AR  
[71] IBIRCOM S.A., UY  
[85] 2018-01-16  
[86] 2015-07-17 (PCT/ES2015/070552)  
[87] (WO2017/013272)

[21] **2,992,517**  
[13] A1

[51] **Int.Cl. A61F 2/08 (2006.01) A61B 17/04 (2006.01)**  
[25] EN  
[54] **JOINT STABILISATION**  
[54] **STABILISATION D'ARTICULATION**  
[72] WALLACE, WILLIAM ANGUS, GB  
[72] RAVENSCROFT, MATTHEW JOHN, GB  
[72] YOUNG, BENJAMIN JOHN, GB  
[72] BEEVERS, DAVID JOHN, GB  
[72] SEEDHOM, BAHAA BOTROS, GB  
[71] XIROS LIMITED, GB  
[71] WALLACE, WILLIAM ANGUS, GB  
[71] RAVENSCROFT, MATTHEW JOHN, GB  
[85] 2018-01-15  
[86] 2016-07-20 (PCT/GB2016/052202)  
[87] (WO2017/013431)  
[30] GB (1512682.4) 2015-07-20

[21] **2,992,525**  
[13] A1

[51] **Int.Cl. A61K 8/29 (2006.01) A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/81 (2006.01) A61Q 17/04 (2006.01)**  
[25] EN  
[54] **UV-PROTECTIVE COMPOSITIONS**  
[54] **COMPOSITIONS DE PROTECTION CONTRE LE RAYONNEMENT ULTRAVIOLET (UV)**  
[72] LANDA, BENZION, IL  
[72] ABRAMOVICH, SAGI, IL  
[72] DOR, SNIR, IL  
[71] LANDA LABS (2012) LTD., IL  
[85] 2018-01-15  
[86] 2016-07-22 (PCT/IB2016/054397)  
[87] (WO2017/013633)  
[30] GB (1512958.8) 2015-07-22  
[30] GB (1605857.0) 2016-04-06  
[30] GB (1607831.3) 2016-05-05

[21] **2,992,699**  
[13] A1

[51] **Int.Cl. A23L 27/00 (2016.01) A23L 27/20 (2016.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING TASTE MODULATION COMPOUNDS, THEIR USE AND FOODSTUFF COMPRISING THEM**  
[54] **COMPOSITION COMPRENANT DES COMPOSES MODULATEURS DE GOUT, SON UTILISATION ET PRODUIT ALIMENTAIRE LA COMPRENANT**  
[72] JOSEPHSON, DAVE, US  
[71] V. MANE FILS, FR  
[85] 2018-01-16  
[86] 2016-08-05 (PCT/IB2016/001309)  
[87] (WO2017/025811)  
[30] US (62/202,529) 2015-08-07

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[21] **2,992,700**  
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/4245 (2006.01) A61P 37/00 (2006.01) C07D 413/04 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 491/107 (2006.01) C07D 498/08 (2006.01)**

[25] EN

[54] **OXADIAZOLE DERIVATIVES USEFUL AS HDAC INHIBITORS**

[54] **DERIVES OXADIAZOLE UTILES EN TANT QU'INHIBITEURS DE HDAC**

[72] KAIEDA, AKIRA, JP  
[72] TOYOFUKU, MASASHI, JP  
[72] DAINI, MASAKI, JP  
[72] NARA, HIROSHI, JP  
[72] YOSHIKAWA, MASATO, JP  
[72] ISHII, NAOKI, JP  
[72] HIDAKA, KOUSUKE, JP  
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2018-01-16  
[86] 2016-07-15 (PCT/JP2016/071655)  
[87] (WO2017/014321)  
[30] JP (2015-143354) 2015-07-17  
[30] JP (2016-029020) 2016-02-18

[21] **2,992,705**  
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/51 (2006.01)**

[25] EN

[54] **NANOCAPSULE FOR DELIVERY OF LIPOPHILIC COMPOUND AND PROCESS OF PREPARATION THEREOF**

[54] **NANOCAPSULE POUR L'ADMINISTRATION D'UN COMPOSE LIPOPHILE ET PROCEDE DE PREPARATION ASSOCIE**

[72] ZAPOTOCZNY, SZCZEPAN, PL  
[72] SZAFRANIEC, JOANNA, PL  
[71] UNIWERSYTET JAGIELLONSKI, PL

[85] 2018-01-16  
[86] 2016-07-12 (PCT/PL2016/050032)  
[87] (WO2017/014655)  
[30] PL (P.413155) 2015-07-17

[21] **2,992,791**  
[13] A1

[51] **Int.Cl. F25J 3/02 (2006.01) C10G 5/06 (2006.01) C10L 3/10 (2006.01) F25J 1/00 (2006.01) F25J 1/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PURIFYING A GAS RICH IN HYDROCARBONS**

[54] **METHODE DE PURIFICATION D'UN GAZ RICHE EN HYDROCARBURES**

[72] CHAMBRON, NICOLAS, FR  
[72] COSTA DE BEAUREGARD, PIERRE, FR

[72] PARADOWSKI, HENRI, FR  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[85] 2018-01-17  
[86] 2016-07-12 (PCT/FR2016/051789)  
[87] (WO2017/013329)  
[30] FR (1557018) 2015-07-23

[21] **2,992,800**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A01N 63/00 (2006.01)**

[25] EN

[54] **NOVEL MICROORGANISMS AND THEIR USE IN AGRICULTURE**

[54] **NOUVEAUX MICRO-ORGANISMES ET LEUR UTILISATION EN AGRICULTURE**

[72] DENT, DAVID, GB  
[72] PATEL, DHAVAL, GB  
[72] DEVINE, GARY, GB  
[71] AZOTIC TECHNOLOGIES LTD, GB

[85] 2018-01-17  
[86] 2016-07-27 (PCT/GB2016/052289)  
[87] (WO2017/017440)  
[30] GB (1513277.2) 2015-07-28

[21] **2,992,802**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 36/185 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **USE OF CANNABINOIDS IN THE TREATMENT OF EPILEPSY**

[54] **UTILISATION DE CANNABINOIDES DANS LE TRAITEMENT DE L'EPILEPSIE**

[72] STOTT, COLIN, GB  
[72] JONES, NICHOLAS, GB  
[72] WILLIAMS, ROBIN, GB  
[72] WHALLEY, BENJAMIN, GB  
[71] GW PHARMA LIMITED, GB

[85] 2018-01-17  
[86] 2016-07-29 (PCT/GB2016/052340)  
[87] (WO2017/025712)  
[30] GB (1514079.1) 2015-08-10

[21] **2,992,809**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A01N 63/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **DIAGNOSTIC KITS**

[54] **TROUSSES DE DIAGNOSTIC**

[72] DENT, DAVID, GB  
[72] PATEL, DHAVAL, GB  
[72] DEVINE, GARY, GB  
[71] AZOTIC TECHNOLOGIES LTD, GB

[85] 2018-01-17  
[86] 2016-07-27 (PCT/GB2016/052288)  
[87] (WO2017/017439)  
[30] GB (1513277.2) 2015-07-28

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[21] **2,992,812**  
[13] A1

[51] **Int.Cl. G01J 1/42 (2006.01) A61B 90/30 (2016.01) G01J 1/04 (2006.01) G01J 1/30 (2006.01) G02B 6/35 (2006.01) G02B 6/38 (2006.01) G02B 6/40 (2006.01) G02B 6/42 (2006.01)**

[25] EN

[54] **SUB-MICRON ALIGNMENT OF A MONITORING FIBER FOR OPTICAL FEEDBACK IN AN OPHTHALMIC ENDO-ILLUMINATION SYSTEM**

[54] **ALIGNEMENT SUB-MICRONIQUE D'UNE FIBRE DE SURVEILLANCE DE RETROACTION OPTIQUE DANS UN SYSTEME D'ENDO-ECLAIRAGE OPHTALMIQUE**

[72] PAPAC, MICHAEL J., US  
[72] ULINSKAS, VIT, US  
[71] NOVARTIS AG, CH  
[85] 2018-01-17  
[86] 2016-05-03 (PCT/IB2016/052513)  
[87] (WO2017/037548)  
[30] US (14/840,349) 2015-08-31

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[21] **2,992,817**  
[13] A1

[51] **Int.Cl. B65D 51/16 (2006.01) B65D 41/06 (2006.01)**

[25] EN

[54] **CONTAINER AND CLOSURE AND MANUFACTURE THEREOF**

[54] **RECIPIENT ET SYSTEME DE FERMETURE ET FABRICATION DE CEUX-CI**

[72] HEIN, JOHN, GB  
[72] FRASER, ANTHONY HENRY JOSEPH, GB  
[71] THREADLESS CLOSURES LIMITED, GB  
[85] 2018-01-17  
[86] 2015-07-24 (PCT/GB2015/052154)  
[87] (WO2016/012810)  
[30] GB (1413249.2) 2014-07-25  
[30] GB (1503512.4) 2015-03-02

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[21] **2,992,819**  
[13] A1

[51] **Int.Cl. B04B 5/04 (2006.01) B04B 7/08 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR SAMPLE SEPARATION AND COLLECTION**

[54] **PROCEDE ET APPAREIL POUR LA SEPARATION ET LA COLLECTE D'ECHANTILLONS**

[72] BRU GIBERT, RAFAEL, ES  
[72] KUPHAL, MATHIAS, ES  
[72] CARRERA FABRA, JORDI, ES  
[72] MARTIN BLANCO, RICARD, ES  
[72] RAMIREZ, FRANCISCO JAVIER, ES  
[71] BRU GIBERT, RAFAEL, ES  
[71] KUPHAL, MATHIAS, ES  
[71] CARRERA FABRA, JORDI, ES  
[71] MARTIN BLANCO, RICARD, ES  
[71] RAMIREZ, FRANCISCO JAVIER, ES  
[85] 2018-01-17  
[86] 2016-07-15 (PCT/IB2016/054244)  
[87] (WO2017/013560)  
[30] US (62/193,954) 2015-07-17  
[30] US (15/210,689) 2016-07-14

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[21] **2,992,820**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5383 (2006.01) A61P 25/30 (2006.01) C07D 498/04 (2006.01)**

[25] EN

[54] **DOPAMINE D3 RECEPTOR ANTAGONISTS HAVING A BICYCLO MOIETY**

[54] **ANTAGONISTES DU RECEPTEUR D3 DE LA DOPAMINE AYANT UN FRAGMENT BICYCLO**

[72] CREMONESI, SUSANNA, IT  
[72] MICHELI, FABRIZIO, IT  
[72] SEMERARO, TERESA, IT  
[72] TARSI, LUCA, IT  
[71] INDIVIOR UK LIMITED, GB  
[85] 2018-01-17  
[86] 2016-08-04 (PCT/IB2016/054708)  
[87] (WO2017/021920)  
[30] GB (1513871.2) 2015-08-05  
[30] GB (1518125.8) 2015-10-13

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[21] **2,992,823**  
[13] A1

[51] **Int.Cl. B29D 11/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING CONTACT LENSES WITH DURABLE LUBRICIOUS COATINGS THEREON**

[54] **PROCEDE DE FABRICATION DE LENTILLES DE CONTACT RECOUVERTES DE REVETEMENTS LUBRIFIES DURABLES**

[72] QIAN, XINMING, US  
[72] CHANG, FRANK, US  
[72] MATSUZAWA, YASUO, US  
[72] SHANKAR, VENKAT, US  
[71] NOVARTIS AG, CH  
[85] 2018-01-17  
[86] 2016-08-29 (PCT/IB2016/055153)  
[87] (WO2017/037610)  
[30] US (62/214,240) 2015-09-04

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[21] **2,992,824**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**

[25] EN

[54] **FLUIDIC SYSTEM FOR PERFORMING ASSAYS**

[54] **SYSTEME FLUIDIQUE DESTINE A EFFECTUER DES DOSAGES**

[72] BRU GIBERT, RAFAEL, ES  
[72] CARRERA FABRA, JORDI, ES  
[72] COMENGES CASAS, ANNA, ES  
[72] KUPHAL, MATHIAS, ES  
[71] BRU GIBERT, RAFAEL, ES  
[71] CARRERA FABRA, JORDI, ES  
[71] COMENGES CASAS, ANNA, ES  
[71] KUPHAL, MATHIAS, ES  
[85] 2018-01-17  
[86] 2016-07-15 (PCT/IB2016/054245)  
[87] (WO2017/013561)  
[30] US (62/193,884) 2015-07-17  
[30] US (15/210,734) 2016-07-14

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[21] **2,992,829**  
[13] A1

[51] **Int.Cl. A63F 13/53 (2014.01) A63F 13/46 (2014.01) A63F 13/85 (2014.01)**

[25] EN

[54] **METHOD FOR OUTPUTTING MESSAGE USING GAME RESULT INFORMATION WINDOW**

[54] **PROCEDE PERMETTANT DE DELIVRER UN MESSAGE EN SORTIE EN UTILISANT UNE FENETRE D'INFORMATION DE RESULTAT DE JEU**

[72] YOON, JONG MIN, KR  
[71] YOON, JONG MIN, KR  
[85] 2018-01-17  
[86] 2016-07-22 (PCT/KR2016/007994)  
[87] (WO2017/014590)  
[30] KR (10-2015-0103607) 2015-07-22

[21] **2,992,837**  
[13] A1

[51] **Int.Cl. E05D 15/06 (2006.01) E05F 15/643 (2015.01)**

[25] FR

[54] **SYSTEM FOR GUIDING AND SUPPORTING A LEAF OF A PLATFORM-ACCESS DOOR**

[54] **SYSTEME DE GUIDAGE ET DE SUPPORT D'UN VANTAIL DE PORTE PALIERE DE QUAI**

[72] MAREAUX, SEBASTIEN, FR  
[71] FAIVELEY TRANSPORT TOURS, FR  
[85] 2018-01-17  
[86] 2016-07-29 (PCT/FR2016/051995)  
[87] (WO2017/021643)  
[30] FR (1557442) 2015-07-31

[21] **2,992,865**  
[13] A1

[51] **Int.Cl. B64C 11/18 (2006.01) F01D 5/14 (2006.01) F03B 11/00 (2006.01)**

[25] EN

[54] **STRUCTURE WITH RIGID PROJECTIONS ADAPTED TO TRAVERSE A FLUID ENVIRONMENT**

[54] **STRUCTURE COMPORTANT DES PARTIES SAILLANTES RIGIDES, ADAPTEE POUR TRAVERSER UN ENVIRONNEMENT FLUIDE**

[72] CHURCH, RYAN, CA  
[71] CHURCH, RYAN, CA  
[85] 2018-01-18  
[86] 2015-08-05 (PCT/CA2015/050741)  
[87] (WO2016/019468)  
[30] US (62/033,331) 2014-08-05

[21] **2,992,915**  
[13] A1

[51] **Int.Cl. A61K 49/04 (2006.01) B82Y 5/00 (2011.01) A61K 47/69 (2017.01) A61K 49/16 (2006.01) A61K 49/18 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **NEURODEGENERATIVE DISORDERS**

[54] **TROUBLES NEURODEGENERATIFS**

[72] NITHIYANANDAM, KRTIN, GB  
[71] KRAN LIFE SCIENCES LLP, GB  
[85] 2018-01-18  
[86] 2016-07-21 (PCT/GB2016/052206)  
[87] (WO2017/021686)  
[30] GB (1513845.6) 2015-08-05

[21] **2,992,919**  
[13] A1

[51] **Int.Cl. G01F 1/58 (2006.01) G01F 15/14 (2006.01) G01F 15/18 (2006.01)**

[25] EN

[54] **ELECTROMAGNETIC FLOW SENSOR**

[54] **CAPTEUR DE FLUX ELECTROMAGNETIQUE**

[72] DAMES, ANDREW NICHOLAS, GB  
[72] HAYTON, CARL MARTIN, GB  
[71] SENTEC LTD, GB  
[85] 2018-01-18  
[86] 2016-07-28 (PCT/GB2016/052323)  
[87] (WO2017/017463)  
[30] GB (1513271.5) 2015-07-28  
[30] GB (1515159.0) 2015-08-26

[21] **2,992,930**  
[13] A1

[51] **Int.Cl. H04N 19/63 (2014.01) H04N 19/12 (2014.01) H04N 19/136 (2014.01)**

[25] EN

[54] **METHOD FOR CHOOSING A COMPRESSION ALGORITHM DEPENDING ON THE IMAGE TYPE**

[54] **PROCEDE POUR CHOISIR UN ALGORITHME DE COMPRESSION EN FONCTION DU TYPE D'IMAGE**

[72] GERVAIS, THAN MARC-ERIC, FR  
[72] LOUBET, BRUNO, FR  
[72] BESSOU, NICOLAS, FR  
[72] GUIMIOT, YVES, FR  
[72] PETITFILS, MICKAEL, FR  
[72] ROQUES, SEBASTIEN, FR  
[71] COLIN, JEAN-CLAUDE, FR  
[85] 2018-01-18  
[86] 2015-07-09 (PCT/FR2015/000142)  
[87] (WO2016/012667)  
[30] FR (14/01695) 2014-07-24

[21] **2,992,949**  
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **HYDRAULIC INJECTOR AND METHODS FOR INTRA-OCULAR LENS INSERTION**

[54] **INJECTEUR HYDRAULIQUE ET METHODES POUR L'INSERTION D'UNE LENTILLE INTRAOCULAIRE**

[72] CANELLI, HUGH B., US  
[72] CHANDRAKANT, PARTHA, US  
[72] CHON, JAMES Y., US  
[72] GORDON, RAPHAEL, US  
[72] SORENSEN, GARY P., US  
[72] WILSON, DANIEL J., US  
[71] NOVARTIS AG, CH  
[85] 2018-01-18  
[86] 2016-06-16 (PCT/IB2016/053569)  
[87] (WO2017/046661)  
[30] US (14/855,855) 2015-09-16



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[21] **2,992,952**  
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61B 8/00 (2006.01) A61B 17/02 (2006.01)**

[25] EN

[54] **CONTACT LENS MOUNTING SPECULUM FOR VITREORETINAL SURGERY**

[54] **SPECULUM DE MONTAGE DE LENTILLE DE CONTACT POUR INTERVENTION CHIRURGICALE VITREO-RETINIENNE**

[72] FARLEY, MARK, US  
[72] CHARLES, STEVE, US  
[71] NOVARTIS AG, CH  
[85] 2018-01-18  
[86] 2016-07-29 (PCT/IB2016/054537)  
[87] (WO2017/046665)  
[30] US (14/858,878) 2015-09-18

[21] **2,992,953**  
[13] A1

[51] **Int.Cl. A01D 57/00 (2006.01) B65G 65/06 (2006.01)**

[25] EN

[54] **AGRICULTURAL MACHINE FOR HARVESTING A CROP, COMPRISING A HARVESTING HEAD AND A CROP TRANSPORTATION SYSTEM FOR SAID HARVESTING HEAD, AND RELATED TRANSPORTATION SYSTEM**

[54] **MACHINE AGRICOLE POUR LA RECOLTE DE CULTURE, COMPRENANT UNE TETE DE RECOLTE ET UN SYSTEME DE TRANSPORT DE CULTURE POUR LADITE TETE DE RECOLTE, ET SYSTEME DE TRANSPORT ASSOCIE**

[72] BONGIOVANNI, LIVIO, IT  
[72] ARMANDO, LODOVICO, IT  
[71] STW S.R.L., IT  
[85] 2018-01-18  
[86] 2016-08-03 (PCT/IB2016/054684)  
[87] (WO2017/021907)  
[30] IT (102015000042950) 2015-08-06

[21] **2,992,969**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04L 27/26 (2006.01) H04L 27/34 (2006.01)**

[25] EN

[54] **TRANSMITTING APPARATUS, RECEIVING APPARATUS, AND CONTROL METHODS THEREOF**

[54] **APPAREIL D'EMISSION, APPAREIL DE RECEPTION ET PROCEDES DE COMMANDE ASSOCIES**

[72] PARK, JUNG-HYUN, KR  
[72] KIM, MIN-HO, KR  
[72] PARK, SUNG-WOO, KR  
[72] JUNG, SUNG-KYU, KR  
[72] CHOI, CHANG-HOON, KR  
[72] HWANG, DOO-CHAN, KR  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2018-01-18  
[86] 2016-07-22 (PCT/KR2016/008002)  
[87] (WO2017/014591)  
[30] US (62/195,883) 2015-07-23  
[30] KR (10-2016-0087975) 2016-07-12

[21] **2,992,970**  
[13] A1

[51] **Int.Cl. C12N 15/77 (2006.01) C12P 13/00 (2006.01) C12P 13/10 (2006.01)**

[25] EN

[54] **MICROORGANISMS FOR PRODUCING PUTRESCINE OR ORNITHINE AND PROCESS FOR PRODUCING PUTRESCINE OR ORNITHINE USING THEM**

[54] **MICRO-ORGANISME POUR PRODUIRE DE LA PUTRESCINE OU DE L'ORNITHINE, ET PROCEDE POUR PREPARER DE LA PUTRESCINE OU DE L'ORNITHINE A L'AIDE DE CE MICRO-ORGANISME**

[72] PARK, SU JIN, KR  
[72] YANG, YOUNG LYEOL, KR  
[72] UM, HYE WON, KR  
[72] LI, HONG XIAN, KR  
[72] LEE, KYOUNG MIN, KR  
[72] LEE, BAEK SEOK, KR  
[72] LEE, HYO HYOUNG, KR  
[72] JUNG, HEE KYOUNG, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2018-01-18  
[86] 2016-07-19 (PCT/KR2016/007841)  
[87] (WO2017/014532)  
[30] KR (10-2015-0102624) 2015-07-20

[21] **2,992,971**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2006.01)**

[25] EN

[54] **NOVEL PEPTIDE AND USE THEREOF**

[54] **NOUVEAU PEPTIDE ET UTILISATION ASSOCIEE**

[72] KIM, HAE JIN, KR  
[72] HWANG, DUK SOON, KR  
[72] MOON, EUN JOUNG, KR  
[71] ENSOL BIOSCIENCES INC., KR  
[85] 2018-01-18  
[86] 2016-07-22 (PCT/KR2016/008062)  
[87] (WO2017/014604)  
[30] KR (10-2015-0104332) 2015-07-23

[21] **2,992,973**  
[13] A1

[51] **Int.Cl. C21D 8/00 (2006.01) B01D 1/06 (2006.01) B01J 19/02 (2006.01) C07C 273/04 (2006.01) C21D 6/00 (2006.01) C21D 9/08 (2006.01) C22C 33/04 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/44 (2006.01) C22C 38/58 (2006.01) F28F 21/08 (2006.01)**

[25] EN

[54] **DUPLEX STAINLESS STEEL AND USE THEREOF**

[54] **ACIER INOXYDABLE DUPLEX ET SON UTILISATION**

[72] GULLBERG, DANIEL, SE  
[72] HARALDSSON, CHRISTINA, SE  
[72] WILSON, ANDERS, SE  
[72] SCHEERDER, ALEXANDER ALEIDA ANTONIUS, NL  
[72] OFEI, KIRK ANGUAH, NL  
[71] STAMICARBON B.V., NL  
[85] 2018-01-18  
[86] 2016-07-20 (PCT/NL2016/050542)  
[87] (WO2017/014632)  
[30] EP (15177441.1) 2015-07-20

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[21] **2,993,092**  
[13] A1

[51] **Int.Cl. A62B 33/00 (2006.01) B63C 9/00 (2006.01) F04F 5/48 (2006.01)**

[25] FR

[54] **PORTABLE INFLATION DEVICE**

[54] **DISPOSITIF PORTABLE DE GONFLAGE**

[72] SCHMETZ, JEAN-MICHEL, BE

[72] NAVEZ, NICOLAS, FR

[72] GIRAUDON, PATRICK, FR

[71] NIC IMPEX, FR

[85] 2018-01-19

[86] 2016-07-12 (PCT/FR2016/051782)

[87] (WO2017/013327)

[30] FR (1557000) 2015-07-23

[21] **2,993,130**  
[13] A1

[51] **Int.Cl. A23G 9/08 (2006.01) B01F 7/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING REFRIGERATED PRODUCTS**

[54] **PROCEDE DE PREPARATION DE PRODUITS REFRIGERES**

[72] GRAMPASSI, ENRICO, IT

[71] S.P.M. DRINK SYSTEMS S.P.A., IT

[85] 2018-01-19

[86] 2016-08-04 (PCT/IB2016/054714)

[87] (WO2017/021925)

[30] IT (102015000043059) 2015-08-06

[21] **2,993,137**  
[13] A1

[51] **Int.Cl. F16L 55/40 (2006.01) G01N 27/90 (2006.01)**

[25] EN

[54] **IMPROVED PIPE PIG**

[54] **RACLEUR DE TUBE AMELIORE**

[72] BANKS, STEVE, GB

[72] QUEK, SUNG, GB

[72] TORRES, VLADIMIR, GB

[72] FERNANDES, BOSCO, GB

[71] I2I PIPELINES LIMITED, GB

[85] 2018-01-19

[86] 2016-07-20 (PCT/GB2016/052182)

[87] (WO2017/013426)

[30] GB (1512905.9) 2015-07-22

[21] **2,993,093**  
[13] A1

[51] **Int.Cl. A61F 5/455 (2006.01)**

[25] EN

[54] **ERGONOMIC MENSTRUAL CUP**

[54] **COUPE MENSTRUELLE ERGONOMIQUE**

[72] MEDAS, BERTRAND, FR

[71] TEOLAB, FR

[85] 2018-01-19

[86] 2016-07-19 (PCT/FR2016/051845)

[87] (WO2017/017340)

[30] FR (1557046) 2015-07-24

[21] **2,993,131**  
[13] A1

[51] **Int.Cl. C05G 3/08 (2006.01) C05D 3/00 (2006.01) C05D 5/00 (2006.01) C05G 5/00 (2006.01)**

[25] EN

[54] **FERTILIZER COMPOSITION AND METHODS OF MAKING AND USING SAME**

[54] **COMPOSITION D'ENGRAIS ET SES PROCEDES DE FABRICATION ET D'UTILISATION**

[72] KANAGALINGAM, SABESHAN, SA

[72] HEGDE, RAVI, IN

[72] SRINIVASARAO, MADDURI, IN

[72] KORIPELLY, RAJAMALLESWARANMA, IN

[72] GUPTA, SAMIK, IN

[72] BAG, NILKAMAL, IN

[72] BURLA, SATISH, IN

[72] GURUMALLAPPA, YOGANAND, IN

[71] SABIC GLOBAL TECHNOLOGIES B.V., NL

[85] 2018-01-19

[86] 2016-07-18 (PCT/IB2016/054270)

[87] (WO2017/013572)

[30] US (62/194,589) 2015-07-20

[30] US (62/316,188) 2016-03-31

[21] **2,993,139**  
[13] A1

[51] **Int.Cl. A61F 2/38 (2006.01)**

[25] EN

[54] **TOTAL KNEE REPLACEMENT PROSTHESIS ASSEMBLY**

[54] **ENSEMBLE PROTHESE DE REMPLACEMENT TOTAL DU GENOU**

[72] FITZPATRICK, NOEL, GB

[72] MESWANIA, JAYANTILAL, GB

[71] FITZBIONICS LIMITED, GB

[85] 2018-01-19

[86] 2016-07-20 (PCT/GB2016/052197)

[87] (WO2017/013428)

[30] GB (1512696.4) 2015-07-20

[21] **2,993,129**  
[13] A1

[51] **Int.Cl. E03C 1/122 (2006.01) E03F 5/04 (2006.01) E03F 5/14 (2006.01) E03F 5/22 (2006.01) E03F 5/26 (2006.01)**

[25] EN

[54] **SEWAGE PIT**

[54] **FOSSE D'EAUX USEES**

[72] VAN DEN BERG, EDUARDO ALEXANDER, NL

[71] PHARMAFILTER B.V., NL

[85] 2018-01-19

[86] 2016-07-21 (PCT/NL2016/050547)

[87] (WO2017/014636)

[30] NL (2015201) 2015-07-21

[30] NL (2016583) 2016-04-11

[21] **2,993,135**  
[13] A1

[51] **Int.Cl. G06K 7/08 (2006.01) G06K 7/00 (2006.01)**

[25] FR

[54] **LECTEUR DE CARTE COMPACT**

[54] **COMPACT CARD READER**

[72] ROTSAERT, CHRISTOPHER, FR

[71] ROAM DATA, INC., US

[85] 2018-01-19

[86] 2016-07-20 (PCT/IB2016/054326)

[87] (WO2017/013606)

[30] FR (15/56838) 2015-07-20

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[21] **2,993,142**  
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) G06F 19/20 (2011.01) C12Q 1/6876 (2018.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **GENE SIGNATURE FOR IMMUNE THERAPIES IN CANCER**

[54] **SIGNATURE GENIQUE POUR IMMUNOTHERAPIES DANS LE CANCER**

[72] DAVISON, TIMOTHY, GB  
[72] O'DONNELL, JUDE, GB  
[72] BYLESJO, MAX, GB  
[72] PATTERSON, FIONNUALA, GB  
[72] DEHARO, STEVE, GB  
[72] HILL, LAURA A., GB  
[72] KEATING, KATHERINE E., GB  
[72] PROUTSKI, VITALI, GB  
[72] HARKIN, DENIS PAUL, GB  
[72] KENNEDY, RICHARD, GB  
[72] GOFFARD, NICOLAS, GB  
[72] WALKER, STEVEN, GB  
[72] TAGGART, LAURA, GB  
[72] PARKES, EILEEN, GB  
[71] ALMAC DIAGNOSTICS LIMITED, GB  
[85] 2018-01-19  
[86] 2016-07-21 (PCT/GB2016/052213)  
[87] (WO2017/013436)  
[30] GB (1512869.7) 2015-07-21  
[30] US (62/237,497) 2015-10-05

[21] **2,993,145**  
[13] A1

[51] **Int.Cl. E03C 1/042 (2006.01)**

[25] EN

[54] **INSTALLATION STRUCTURE FOR FAUCET**

[54] **STRUCTURE D'INSTALLATION POUR ROBINET**

[72] LEE, DO KYEONG, KR  
[72] KIM, YONG KYOUNG, KR  
[71] IDIN LAB, INC., KR  
[85] 2018-01-19  
[86] 2016-07-20 (PCT/KR2016/007918)  
[87] (WO2017/018714)  
[30] KR (10-2015-0105213) 2015-07-24

[21] **2,993,147**  
[13] A1

[51] **Int.Cl. G10H 3/16 (2006.01) G10H 3/12 (2006.01) G10H 3/26 (2006.01)**

[25] EN

[54] **APPARATUS FOR A REED INSTRUMENT**

[54] **APPAREIL POUR INSTRUMENT A ANCHE**

[72] SMITH, BRIAN, GB  
[72] DAVEY, PAUL, GB  
[71] AUDIO INVENTIONS LIMITED, GB  
[85] 2018-01-19  
[86] 2016-07-25 (PCT/GB2016/052267)  
[87] (WO2017/013455)  
[30] GB (1513036.2) 2015-07-23

[21] **2,993,160**  
[13] A1

[51] **Int.Cl. B05B 17/00 (2006.01) B05B 17/06 (2006.01)**

[25] EN

[54] **ATOMISER ASSEMBLY**

[54] **ENSEMBLE ATOMISEUR**

[72] GASKIN, GRAHAM, GB  
[72] HILLIER, STEPHEN JOHN, GB  
[71] THE JAMES HUTTON INSTITUTE, GB  
[85] 2018-01-19  
[86] 2016-09-16 (PCT/GB2016/052900)  
[87] (WO2017/046607)  
[30] GB (1516492.4) 2015-09-17

[21] **2,993,238**  
[13] A1

[51] **Int.Cl. D07B 5/00 (2006.01) D07B 7/02 (2006.01)**

[25] EN

[54] **HYBRID STRANDED CONDUCTOR**

[54] **CABLE TORONNE HYBRIDE**

[72] TRAXL, ROBERT, AT  
[72] KAISER, GUNTER, AT  
[72] KIRTH, RUDOLF, AT  
[72] BJORN, ERNST, AT  
[72] RUHRNOSSL, ERICH, AT  
[72] BALDINGER, PETER, AT  
[71] TEUFELBERGER SEIL GESELLSCHAFT M.B.H., AT  
[85] 2018-01-22  
[86] 2016-07-21 (PCT/AT2016/060012)  
[87] (WO2017/011847)  
[30] AT (A 50649/2015) 2015-07-23

[21] **2,993,279**  
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **PAYMENT HANDLING APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE GESTION DE PAIEMENT**

[72] JAMIESON, STUART, GB  
[72] GOODMAN, JAMES, GB  
[72] SYMINGTON, KEITH, GB  
[71] COMCARDE LIMITED, GB  
[85] 2018-01-22  
[86] 2015-08-04 (PCT/GB2015/052257)  
[87] (WO2016/020672)  
[30] GB (1413834.1) 2014-08-05

[21] **2,993,288**  
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/4439 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61K 31/55 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **TREATMENT FOR VITILIGO**

[54] **TRAITEMENT DU VITILIGO**

[72] DICKSON, MARION CATHERINE, GB  
[72] RUBENSTEIN, DAVID, US  
[71] GLAXO GROUP LIMITED, GB  
[85] 2018-01-22  
[86] 2016-07-21 (PCT/IB2016/054355)  
[87] (WO2017/017571)  
[30] US (62/196,349) 2015-07-24

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[21] **2,993,304**  
[13] A1

[51] **Int.Cl. C07D 231/12 (2006.01) A61K 31/506 (2006.01) A61P 37/00 (2006.01) C07D 213/40 (2006.01) C07D 239/26 (2006.01) C07D 239/36 (2006.01) C07D 239/42 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS AS ROR GAMMA MODULATORS**

[54] **NOUVEAUX COMPOSES UTILISES EN TANT QUE MODULATEURS DE ROR GAMMA**

[72] DAS, SANJIB, IN

[72] GHARAT, LAXMIKANT ATMARAM, IN

[72] HARDE, RAJENDRA LAXMAN, IN

[72] SHELKE, SANDEEP YADUNATH, IN

[72] PARDESHI, SHAILESH RAMESH, IN

[72] THOMAS, ABRAHAM, IN

[72] KHAIRATKAR-JOSHI, NEELIMA, IN

[72] SHAH, DAISY MANISH, IN

[72] BAJPAI, MALINI, IN

[71] GLENMARK PHARMACEUTICALS S.A., CH

[85] 2018-01-22

[86] 2016-08-02 (PCT/IB2016/054639)

[87] (WO2017/021879)

[30] IN (2930/MUM/2015) 2015-08-03

[21] **2,993,312**  
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/4375 (2006.01) A61K 31/4985 (2006.01) A61K 31/5383 (2006.01) A61K 31/542 (2006.01) A61P 19/02 (2006.01) C07D 471/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **1-SUBSTITUTED 1,2,3,4-TETRAHYDRO-1,7-NAPHTHYRIDIN-8-AMINE DERIVATIVES AND THEIR USE AS EP4 RECEPTOR ANTAGONISTS**

[54] **DERIVES SUBSTITUES EN 1 DE 1,2,3,4-TETRAHYDRO-1,7-NAPHTYRIDIN-8-AMINE ET LEUR UTILISATION COMME ANTAGONISTES DU RECEPTEUR EP4**

[72] BARAWKAR, DINESH, IN

[72] DESHPANDE, ANIL M., IN

[72] PATIL, SANTOSH, IN

[72] WAMAN, YOGESH, IN

[72] PANMAND, ANIL, IN

[72] JADHAV, DILIP, IN

[72] KULKARNI, BHEEMASHANKAR, IN

[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2018-01-22

[86] 2016-07-22 (PCT/JP2016/072244)

[87] (WO2017/014323)

[30] IN (2244/DEL/2015) 2015-07-23

[21] **2,993,342**  
[13] A1

[51] **Int.Cl. A01G 31/04 (2006.01)**

[25] EN

[54] **FARMING SYSTEMS**

[54] **SYSTEMES AGRICOLES**

[72] LODGE, JONATHAN, GB

[71] LODGE, JONATHAN, GB

[85] 2018-01-23

[86] 2015-07-07 (PCT/GB2015/051965)

[87] (WO2016/012748)

[30] GB (1413112.2) 2014-07-24

[21] **2,993,345**  
[13] A1

[51] **Int.Cl. G01R 33/035 (2006.01) A61B 5/04 (2006.01)**

[25] EN

[54] **NEUROIMAGING HEADSET**

[54] **CASQUE DE NEURO-IMAGERIE**

[72] PETRASHOV, VICTOR TIKHONOVICH, GB

[71] YORK INSTRUMENTS LIMITED, GB

[85] 2018-01-23

[86] 2016-07-27 (PCT/GB2016/052295)

[87] (WO2017/017444)

[30] GB (1513191.5) 2015-07-27

[21] **2,993,408**  
[13] A1

[51] **Int.Cl. C11D 3/37 (2006.01) C11D 11/00 (2006.01) D06B 11/00 (2006.01) D06F 35/00 (2006.01)**

[25] EN

[54] **CLEANING METHOD, APPARATUS AND USE**

[54] **PROCEDE, APPAREIL DE NETTOYAGE ET UTILISATION**

[72] BIRD, ROBERT ANDREW, GB

[72] JENKINS, STEPHEN DEREK, GB

[72] KLOKE, PHILIPP, DE

[72] KNIESEL, SIMON, DE

[72] SATHYANARAYANA, SHYAM, DE

[72] SCHOEMER, MARTINA, DE

[71] XEROS LIMITED, GB

[85] 2018-01-23

[86] 2016-07-28 (PCT/GB2016/052314)

[87] (WO2017/017455)

[30] GB (1513346.5) 2015-07-29

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[21] **2,993,410**  
[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01) B23Q 17/09 (2006.01) E02F 9/28 (2006.01) E21B 12/02 (2006.01) G01N 3/56 (2006.01)**

[25] EN

[54] **WEAR SENSOR AND THE CORRESPONDING WEAR ELEMENT, ASSEMBLY AND USE**

[54] **CAPTEUR D'USURE ET ELEMENT D'USURE, ET ENSEMBLE ET UTILISATION**

**CORRESPONDANTS**

[72] MARQUEZ LLINAS, JORDI, ES

[72] CESAR GALBARDES, JOAN, ES

[72] VALLVE, NIL, ES

[72] TRIGINER BOIXEDA, JORGE, ES

[72] TORAL MARTIN, CRISTIAN, ES

[72] PUIG CASTELLO, ALBERT, ES

[72] CAMPRUBI TORRAS, ENRIC, ES

[71] METALOGENIA RESEARCH & TECHNOLOGIES S.L., ES

[85] 2018-01-23

[86] 2015-07-24 (PCT/ES2015/070574)

[87] (WO2017/017289)

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[21] **2,993,411**  
[13] A1

[51] **Int.Cl. C23C 16/54 (2006.01) C03C 17/00 (2006.01)**

[25] EN

[54] **COATING APPARATUS**

[54] **APPAREIL D'APPLICATION DE REVETEMENT**

[72] WILLIAMS, IAN ROSS, GB

[72] RAISBECK, DEBORAH, GB

[72] NELSON, DOUGLAS MARTIN, US

[72] SANDERSON, KEVIN DAVID, GB

[71] PILKINGTON GROUP LIMITED, GB

[85] 2018-01-23

[86] 2016-07-29 (PCT/GB2016/052359)

[87] (WO2017/017478)

[30] GB (1513339.0) 2015-07-29

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[21] **2,993,416**  
[13] A1

[51] **Int.Cl. A61B 3/10 (2006.01)**

[25] EN

[54] **VITREORETINAL MEMBRANE CHARACTERIZATION USING OPTICAL COHERENCE TOMOGRAPHY**

[54] **CARACTERISATION DE MEMBRANE VITREO-RETINIENNE PAR TOMOGRAPHIE EN COHERENCE OPTIQUE**

[72] REN, HUGANG, US

[72] YU, LINGFENG, US

[71] NOVARTIS AG, CH

[85] 2018-01-23

[86] 2016-06-30 (PCT/IB2016/053952)

[87] (WO2017/046662)

[30] US (14/858,541) 2015-09-18

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[21] **2,993,417**  
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01) A61F 9/007 (2006.01)**

[25] EN

[54] **CONTROL OF SCANNING IMAGES DURING VITREORETINAL SURGERY**

[54] **COMMANDE DE BALAYAGE D'IMAGES PENDANT UNE CHIRURGIE VITREO-RETINIENNE**

[72] HOPKINS, MARK, US

[72] SANCHEZ, ROBERT, US

[72] TAKAKAWA, RYAN, US

[72] YU, LINGFENG, US

[72] REN, HUGANG, US

[71] NOVARTIS AG, CH

[85] 2018-01-23

[86] 2016-06-30 (PCT/IB2016/053954)

[87] (WO2017/046663)

[30] US (14/858,701) 2015-09-18

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[21] **2,993,423**  
[13] A1

[51] **Int.Cl. C07K 14/235 (2006.01) C07K 16/00 (2006.01) C07K 16/24 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **IL-8-BINDING ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS DE LIAISON A L'IL-8 ET LEURS UTILISATIONS**

[72] IGAWA, TOMOYUKI, JP

[72] MAEDA, ATSUSHIKO, JP

[72] NAKAMURA, GENKI, JP

[72] MURAOKA, MASARU, JP

[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP

[85] 2018-01-23

[86] 2016-08-05 (PCT/JP2016/003616)

[87] (WO2017/046994)

[30] JP (2015-185254) 2015-09-18

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[21] **2,993,430**  
[13] A1

[51] **Int.Cl. F16H 3/10 (2006.01) F16H 3/06 (2006.01) H02K 7/116 (2006.01)**

[25] EN

[54] **TRANSMISSION FOR MOTOR**

[54] **TRANSMISSION POUR MOTEUR**

[72] YOO, HYUK, KR

[72] JUNG, TAE-JIN, KR

[72] AN, SEONG-CHEOL, KR

[72] YOO, MOON-SOO, KR

[71] MBI CO., LTD., KR

[85] 2018-01-23

[86] 2016-06-20 (PCT/KR2016/006504)

[87] (WO2017/047911)

[30] KR (10-2015-0130523) 2015-09-15

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[21] **2,993,481**  
[13] A1

[51] **Int.Cl. B64F 5/00 (2017.01)**

[25] EN

[54] **AIRCRAFT PART ASSEMBLY**

[54] **ASSEMBLAGE DE PIECES D'AERONEFS**

[72] KIRKHAM, ANDREW JOHN, GB

[72] BRADBURY, DAVID MARK, GB

[71] BAE SYSTEMS PLC, GB

[85] 2018-01-24

[86] 2016-08-01 (PCT/GB2016/052367)

[87] (WO2017/021722)

[30] GB (1513823.3) 2015-08-05

[30] EP (15275184.8) 2015-08-05

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[21] **2,993,483**  
[13] A1

[51] **Int.Cl. G06F 3/147 (2006.01) G06F 1/16 (2006.01) G06F 3/14 (2006.01) G09G 3/34 (2006.01)**

[25] EN

[54] **METHOD AND ARRANGEMENT FOR TRANSMITTING AND DISPLAYING IMAGE INFORMATION**

[54] **PROCEDE ET AGENCEMENT DE TRANSMISSION ET D'AFFICHAGE D'INFORMATIONS D'IMAGE**

[72] KOVACS, ZOLTAN, HU  
[72] KURUCZ, GABOR, HU  
[71] LIBER8TECH HUNGARY KFT., HU  
[85] 2018-01-24  
[86] 2016-07-25 (PCT/HU2016/000049)  
[87] (WO2017/017481)  
[30] HU (P1500347) 2015-07-27  
[30] HU (P1600155) 2016-02-29

[21] **2,993,484**  
[13] A1

[51] **Int.Cl. C07D 401/08 (2006.01) A61K 31/451 (2006.01) A61K 31/4523 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01)**

[25] EN

[54] **MUSCARINIC AGONISTS**

[54] **AGONISTES MUSCARINIQUES**

[72] BROWN, GILES ALBERT, GB  
[72] CONGREVE, MILES STUART, GB  
[72] PICKWORTH, MARK, GB  
[72] TEHAN, BENJAMIN GERALD, GB  
[71] HEPTARES THERAPEUTICS LIMITED, GB  
[85] 2018-01-24  
[86] 2016-08-03 (PCT/GB2016/052386)  
[87] (WO2017/021730)  
[30] GB (1513742.5) 2015-08-03

[21] **2,993,488**  
[13] A1

[51] **Int.Cl. C09J 153/00 (2006.01) C09J 133/12 (2006.01)**

[25] EN

[54] **ADDITIVE COMPOSITION SUITABLE FOR USE IN A STRUCTURAL ADHESIVE**

[54] **COMPOSITION D'ADDITIF UTILISABLE DANS UN ADHESIF STRUCTURAL**

[72] BRET, CHRISTIAN, FR  
[72] FRADIN, OLIVIER, FR  
[72] ROUX, MATHIEU, FR  
[72] VAIQUE, EMILIE, FR  
[72] VALLOIR, NICOLAS, FR  
[72] INOUBLI, RABER, FR  
[71] ARKEMA FRANCE, FR  
[85] 2018-01-24  
[86] 2016-07-08 (PCT/FR2016/051748)  
[87] (WO2017/017329)  
[30] FR (15 57197) 2015-07-28

[21] **2,993,490**  
[13] A1

[51] **Int.Cl. F21V 5/00 (2018.01) F21V 7/00 (2006.01) G02B 19/00 (2006.01)**

[25] FR

[54] **OPTICAL SYSTEM FOR NON-IMAGING COLLIMATION OF MAXIMUM LIGHT INTENSITY**

[54] **SYSTEME OPTIQUE DE COLLIMATION NON-IMAGEUR D'INTENSITE LUMINEUSE MAXIMALE**

[72] LAURET, JEAN-PIERRE, FR  
[71] GAGGIONE SAS, FR  
[85] 2018-01-24  
[86] 2016-07-27 (PCT/FR2016/051946)  
[87] (WO2017/017375)  
[30] FR (15/57347) 2015-07-30

[21] **2,993,501**  
[13] A1

[51] **Int.Cl. E01C 13/02 (2006.01) E01C 3/00 (2006.01) E01C 11/22 (2006.01) E01C 13/08 (2006.01)**

[25] EN

[54] **PLAYING SURFACE AND METHOD OF CONSTRUCTING SAME**

[54] **SURFACE DE JEU ET SON PROCEDE DE CONSTRUCTION**

[72] BENNETT, DUNCAN, GB  
[72] FOXON, STEVE, GB  
[71] NOTTS SPORT GROUP LIMITED, GB  
[85] 2018-01-24  
[86] 2016-07-27 (PCT/GB2016/052305)  
[87] (WO2017/021696)  
[30] GB (1513837.3) 2015-08-05

[21] **2,993,502**  
[13] A1

[51] **Int.Cl. C08L 23/08 (2006.01) B29C 43/00 (2006.01) B29C 45/00 (2006.01) B65D 41/00 (2006.01) C08F 2/00 (2006.01)**

[25] EN

[54] **POLYETHYLENE COMPOSITIONS, PROCESS AND CLOSURES**

[54] **COMPOSITIONS DE POLYETHYLENE, PROCEDE ET FERMETURES**

[72] WANG, XIAOCHUAN, CA  
[72] SALOMONS, STEPHEN, CA  
[71] NOVA CHEMICALS CORPORATION, CA  
[85] 2018-01-24  
[86] 2016-08-03 (PCT/IB2016/054689)  
[87] (WO2017/029571)  
[30] US (14/829,998) 2015-08-19

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[21] **2,993,595**  
[13] A1

[51] **Int.Cl. G01N 27/403 (2006.01) G01N 33/18 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL MEASURING CELL FOR MEASURING THE CONTENT OF CHLORINE COMPOUNDS IN WATER**  
[54] **CELLULE DE MESURE ELECTROCHIMIQUE POUR LA MESURE DE LA TENEUR DE L'EAU EN COMPOSES CHLORES**  
[72] KUNTZE, VERENA, DE  
[71] KUNTZE INSTRUMENTS GMBH, DE  
[85] 2018-01-22  
[86] 2016-07-11 (PCT/DE2016/100306)  
[87] (WO2017/012607)  
[30] DE (10 2015 111 849.1) 2015-07-22

[21] **2,993,628**  
[13] A1

[51] **Int.Cl. H04B 7/195 (2006.01)**  
[25] EN  
[54] **COMMUNICATION-SATELLITE SYSTEM WITH ENHANCED CAPACITY IN DESIGNATED LOCATIONS**  
[54] **CONSTELLATION DE SATELLITES SUR DES ORBITES TERRESTRES BASSES, CHAQUE SATELLITE COMPRENANT UN MODULE DE COMMANDE D'ORIENTATION DESTINE A FAIRE TOURNER LE SATELLITE AUTOUR DE SON AXE DE ROULIS AFIN D'ASSURER UNE COUVERTURE RADIO TERRESTRE**  
[72] WYLER, GREGORY, US  
[71] WORLDVU SATELLITES LIMITED, US  
[85] 2018-01-23  
[86] 2016-07-21 (PCT/IB2016/054353)  
[87] (WO2017/017570)  
[30] US (14/808,422) 2015-07-24

[21] **2,993,634**  
[13] A1

[51] **Int.Cl. A01N 43/828 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01) A01P 15/00 (2006.01) A01P 21/00 (2006.01)**  
[25] EN  
[54] **APPLICATION OF 7-CARBOXYBENZO[1,2,3]THIADIAZOLE AMIDES AS PLANT STIMULANTS**  
[54] **APPLICATION D'AMIDES DE 7-CARBOXYBENZO[1,2,3]THIADIAZOLE COMME STIMULANTS DE PLANTES**  
[72] SMIGLAK, MARCIN, PL  
[72] POSPIESZNY, HENRYK, PL  
[72] KUKAWKA, RAFAL, PL  
[72] LEWANDOWSKI, PIOTR, PL  
[72] STOLARSKA, OLGA, PL  
[72] MACIEJEWSKI, HIERONIM, PL  
[71] ADAM MICKIEWICZ UNIVERSITY FOUNDATION, PL  
[85] 2018-01-24  
[86] 2016-07-27 (PCT/IB2016/054491)  
[87] (WO2017/017626)  
[30] PL (P413298) 2015-07-28

[21] **2,993,746**  
[13] A1

[51] **Int.Cl. C07K 14/53 (2006.01) C07K 14/54 (2006.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **THERAPEUTIC AGENTS**  
[54] **AGENTS THERAPEUTIQUES**  
[72] MAHER, JOHN, GB  
[72] ACHKOVA, DANIELA YORDANOVA, GB  
[72] WHILDING, LYNSEY MAY, GB  
[72] DRAPER, BENJAMIN OWEN, GB  
[71] KING'S COLLEGE LONDON, GB  
[85] 2018-01-25  
[86] 2016-07-28 (PCT/GB2016/052324)  
[87] (WO2017/021701)  
[30] GB (1513540.3) 2015-07-31

[21] **2,993,751**  
[13] A1

[51] **Int.Cl. A47B 47/00 (2006.01) A47B 83/00 (2006.01) A47B 97/00 (2006.01)**  
[25] EN  
[54] **MODULAR FURNITURE ARRANGEMENT**  
[54] **SYSTEME DE MOBILIER MODULAIRE**  
[72] MORIMOTO, TEPPEI, FI  
[71] ABSOLUTE MODULE OY, FI  
[85] 2018-01-25  
[86] 2015-08-28 (PCT/FI2015/050557)  
[87] (WO2016/030580)  
[30] FI (20145752) 2014-08-29

[21] **2,993,753**  
[13] A1

[51] **Int.Cl. C07J 63/00 (2006.01) A61K 31/575 (2006.01) A61K 31/58 (2006.01) A61P 31/18 (2006.01)**  
[25] EN  
[54] **BETUIN DERIVATIVES FOR PREVENTING OR TREATING HIV INFECTIONS**  
[54] **DERIVES DE BETUINE PERMETTANT DE OU DE TRAITER DES INFECTIONS A VIH**  
[72] JOHNS, BRIAN ALVIN, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB  
[85] 2018-01-25  
[86] 2016-07-26 (PCT/IB2016/054458)  
[87] (WO2017/017609)  
[30] US (62/197,765) 2015-07-28

[21] **2,993,756**  
[13] A1

[51] **Int.Cl. B62D 9/02 (2006.01) B62K 5/027 (2013.01) B62K 5/05 (2013.01) B62K 5/10 (2013.01) B62K 5/08 (2006.01)**  
[25] EN  
[54] **FORECARRIAGE OF TILTING MOTOR VEHICLE AND MOTOR VEHICLE THEREOF**  
[54] **SUSPENSION AVANT POUR VEHICULE A MOTEUR**  
[72] RAFFAELLI, ANDREA, IT  
[71] PIAGGIO & C. S.P.A., IT  
[85] 2018-01-25  
[86] 2016-07-28 (PCT/IB2016/054520)  
[87] (WO2017/017636)  
[30] IT (102015000039551) 2015-07-29

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[21] **2,993,757**  
[13] A1

[51] **Int.Cl. B62D 9/02 (2006.01) B62K 5/027 (2013.01) B62K 5/05 (2013.01) B62K 5/10 (2013.01) B62K 5/08 (2006.01)**

[25] EN

[54] **FORECARRIAGE OF TILTING MOTOR VEHICLE AND MOTOR VEHICLE THEREOF**

[54] **SUSPENSION AVANT DE VEHICULE A MOTEUR**

[72] RAFFAELLI, ANDREA, IT

[71] PIAGGIO & C. S.P.A., IT

[85] 2018-01-25

[86] 2016-07-28 (PCT/IB2016/054524)

[87] (WO2017/017639)

[30] IT (102015000039549) 2015-07-29

[21] **2,993,758**  
[13] A1

[51] **Int.Cl. C07J 63/00 (2006.01) A61K 31/575 (2006.01) A61K 31/58 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **BETUIN DERIVATIVES FOR PREVENTING OR TREATING HIV INFECTIONS**

[54] **DERIVES DE BETUINE PERMETTANT DE PREVENIR OU DE TRAITER DES INFECTIONS A VIH**

[72] JOHNS, BRIAN ALVIN, US

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB

[85] 2018-01-25

[86] 2016-07-26 (PCT/IB2016/054456)

[87] (WO2017/017607)

[30] US (62/197,756) 2015-07-28

[21] **2,993,759**  
[13] A1

[51] **Int.Cl. A61N 1/378 (2006.01)**

[25] EN

[54] **TRANSCUTANEOUS ENERGY TRANSFER SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE TRANSFERT D'ENERGIE TRANSCUTANE**

[72] ESCALONA, OMAR JACINTO, GB

[72] MCENEANEY, DAVID JOHN, GB

[72] MCLAUGHLIN, JAMES, GB

[71] UNIVERSITY OF ULSTER, GB

[85] 2018-01-25

[86] 2016-07-29 (PCT/IB2016/054555)

[87] (WO2017/021846)

[30] GB (1513596.5) 2015-07-31

[21] **2,993,765**  
[13] A1

[51] **Int.Cl. F41H 7/04 (2006.01)**

[25] EN

[54] **ARMOURED VEHICLE**

[54] **VEHICULE BLINDE**

[72] DAVIES, CHRISTOPHER, GB

[72] SANDERCOTT, MICHAEL, GB

[71] NP AEROSPACE LIMITED, GB

[85] 2018-01-25

[86] 2016-08-05 (PCT/GB2016/052437)

[87] (WO2017/025725)

[30] GB (1514022.1) 2015-08-07

[21] **2,993,778**  
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C07K 7/06 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **IMPROVED CELL-PERMEABLE (ICP) PARKIN RECOMBINANT PROTEIN AND USE THEREOF**

[54] **PROTEINE RECOMBINEE DE LA PARKINE A PERMEABILITE CELLULAIRE AMELIOREE (ICP) ET SON UTILISATION**

[72] JO, DAEWOONG, US

[71] CELLIVERY THERAPEUTICS, INC., KR

[85] 2018-01-25

[86] 2016-07-26 (PCT/KR2016/008174)

[87] (WO2017/018787)

[30] US (14/809,279) 2015-07-27

[21] **2,993,871**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) C12Q 1/68 (2018.01) G01N 33/68 (2006.01)**

[25] FR

[54] **PREDICTIVE METHOD FOR CHARACTERIZING THE SENSITIVITY OF A TUMOUR IN RESPONSE TO A DNA-BREAKING TREATMENT**

[54] **METHODE PREDICTIVE POUR CARACTERISER LA SENSIBILITE D'UNE TUMEUR EN REPONSE A UN TRAITEMENT CASSANT L'ADN**

[72] FORAY, NICOLAS, FR

[72] BODGI, LARRY, FR

[72] PEREIRA, SANDRINE, FR

[71] NEOLYS DIAGNOSTICS, FR

[71] CENTRE LEON BERARD, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] UNIVERSITE CLAUDE BERNARD LYON 1, FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[85] 2018-01-25

[86] 2016-08-16 (PCT/FR2016/052082)

[87] (WO2017/029449)

[30] FR (1501752) 2015-08-19

[30] FR (1559961) 2015-10-20

[21] **2,993,896**  
[13] A1

[51] **Int.Cl. E01B 9/42 (2006.01) B66C 7/08 (2006.01) E01B 9/46 (2006.01)**

[25] EN

[54] **RAIL FASTENING DEVICE**

[54] **DISPOSITIF DE FIXATION DE RAIL**

[72] BYGRAVE, PETER NATHAN, GB

[72] ENGERT, STEPHEN DAVID, GB

[71] GANTRY RAILING LTD, GB

[85] 2018-01-26

[86] 2016-07-27 (PCT/GB2016/052302)

[87] (WO2017/017449)

[30] GB (1513369.7) 2015-07-29

[30] GB (1600443.4) 2016-01-11



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[21] **2,993,902**  
[13] A1

[51] **Int.Cl. G01S 13/90 (2006.01) G01S 7/02 (2006.01)**  
[25] EN  
[54] **INTERFEROMETRIC RADAR WITH ROTATING ANTENNA**  
[54] **RADAR INTERFEROMETRIQUE A ANTENNE TOURNANTE**  
[72] PIERACCINI, MASSIMILIANO, IT  
[71] UNIVERSITA' DEGLI STUDI DI FIRENZE, IT  
[85] 2018-01-26  
[86] 2016-07-26 (PCT/IB2016/001052)  
[87] (WO2017/017518)  
[30] IT (102015000038482) 2015-07-27

[21] **2,993,903**  
[13] A1

[51] **Int.Cl. B60R 9/08 (2006.01) B60R 9/04 (2006.01)**  
[25] EN  
[54] **SUPPORT PAD FOR A LOAD CARRIER**  
[54] **PATIN DE SUPPORT POUR PORTE-CHARGE**  
[72] CONNORS, DANIEL, SE  
[71] THULE SWEDEN AB, SE  
[85] 2018-01-26  
[86] 2016-05-13 (PCT/IB2016/052796)  
[87] (WO2017/017538)  
[30] US (14/811,376) 2015-07-28

[21] **2,993,904**  
[13] A1

[51] **Int.Cl. B60R 9/045 (2006.01) B60R 9/08 (2006.01)**  
[25] EN  
[54] **ADJUSTABLE LOAD SUPPORT**  
[54] **SUPPORT DE CHARGE REGLABLE**  
[72] CONNORS, DANIEL, SE  
[71] THULE SWEDEN AB, SE  
[85] 2018-01-26  
[86] 2016-05-13 (PCT/IB2016/052798)  
[87] (WO2017/017539)  
[30] US (14/811,381) 2015-07-28

[21] **2,993,906**  
[13] A1

[51] **Int.Cl. A22B 5/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR CUTTING A CARCASS**  
[54] **SYSTEME ET PROCEDE POUR COUPER UNE CARCASSE**  
[72] BORK, THOMAS F., DK  
[71] G.E. LEBLANC INC., CA  
[71] SFK LEBLANC A/S, DK  
[85] 2018-01-26  
[86] 2016-08-05 (PCT/IB2016/054752)  
[87] (WO2017/021937)  
[30] US (62/201,699) 2015-08-06

[21] **2,993,907**  
[13] A1

[51] **Int.Cl. C07K 16/06 (2006.01) C07K 16/22 (2006.01)**  
[25] EN  
[54] **AN IMPROVED REFOLDING PROCESS FOR ANTIBODY'S FRAGMENTS**  
[54] **PROCEDE DE REPLIEMENT AMELIORE POUR FRAGMENTS D'ANTICORPS**  
[72] SOMANI, SANDEEP, IN  
[72] PANDEY, ASHISH, IN  
[72] MISHRA, ASHOK, IN  
[72] MODY, RUSTOM, SORAB, IN  
[71] LUPIN LIMITED, IN  
[85] 2018-01-26  
[86] 2016-08-17 (PCT/IB2016/054926)  
[87] (WO2017/029620)  
[30] IN (3118/MUM/2015) 2015-08-17

[21] **2,993,908**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **COMBINATION OF PD-1 ANTAGONIST WITH AN EGFR INHIBITOR**  
[54] **COMBINAISON D'ANTAGONISTE DE PD-1 ET D'UN INHIBITEUR D'EGFR**  
[72] JIA, YONG, US  
[72] KASIBHATLA, SHAILAJA, US  
[72] BILIC, SANELA, US  
[72] CAMERON, JOHN, US  
[72] HOWARD, DANNY, JR., US  
[71] NOVARTIS AG, CH  
[85] 2018-01-26  
[86] 2016-07-27 (PCT/IB2016/054488)  
[87] (WO2017/017624)  
[30] US (62/198,390) 2015-07-29  
[30] US (62/331,371) 2016-05-03

[21] **2,993,910**  
[13] A1

[51] **Int.Cl. C12N 5/079 (2010.01) A61K 35/30 (2015.01)**  
[25] EN  
[54] **PREPARATION OF PHOTORECEPTORS FOR THE TREATMENT OF RETINAL DISEASES**  
[54] **PREPARATION DE PHOTORECEPTEURS POUR LE TRAITEMENT DE MALADIES RETINIENNES**  
[72] BOHANA-KASHTAN, OSNAT, IL  
[71] CELL CURE NEUROSCIENCES LTD., IL  
[85] 2018-01-26  
[86] 2016-08-04 (PCT/IL2016/050856)  
[87] (WO2017/021972)  
[30] US (62/201,132) 2015-08-05  
[30] US (62/253,739) 2015-11-11

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[21] **2,993,912**  
[13] A1

[51] **Int.Cl. C12N 5/079 (2010.01)**  
[25] EN  
[54] **PREPARATION OF RETINAL PIGMENT EPITHELIUM CELLS**  
[54] **PREPARATION DE CELLULES DE L'EPITHELIUM PIGMENTAIRE RETINIEN**

[72] BOHANA-KASHTAN, OSNAT, IL  
[72] WISER, OFER, IL  
[71] CELL CURE NEUROSCIENCES LTD., IL

[85] 2018-01-26  
[86] 2016-08-04 (PCT/IL2016/050857)  
[87] (WO2017/021973)  
[30] US (62/201,156) 2015-08-05  
[30] US (62/253,738) 2015-11-11

[21] **2,993,914**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**  
[25] EN  
[54] **PROBE SET FOR ANALYZING A DNA SAMPLE AND METHOD FOR USING THE SAME**  
[54] **ENSEMBLE SONDE D'ANALYSE D'UN ECHANTILLON D'ADN ET PROCEDE POUR L'UTILISER**

[72] DAHL, CARL OSCAR FREDRIK, SE  
[72] ERICSSON, OLOF JOHN, SE  
[72] KARLSSON, FILIP, SE  
[72] ROOS, FREDRIK, SE  
[71] VANADIS DIAGNOSTICS, SE

[85] 2018-01-26  
[86] 2016-09-16 (PCT/IB2016/055558)  
[87] (WO2017/046775)  
[30] US (62/220,746) 2015-09-18

[21] **2,993,919**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 10/08 (2012.01)**  
[25] FR  
[54] **METHOD FOR UPDATING ASSOCIATION DATA BETWEEN ARTICLES AND LOCATIONS**  
[54] **PROCEDE DE MISE A JOUR DE DONNEES D'ASSOCIATION ENTRE DES ARTICLES ET DES EMBLEMES**

[72] BOTTINE, PHILIPPE, FR  
[72] ROBIN, FRANCOIS, FR  
[71] SES-IMAGOTAG, FR

[85] 2018-01-26  
[86] 2016-07-25 (PCT/FR2016/051930)  
[87] (WO2017/017366)  
[30] FR (1557153) 2015-07-27

[21] **2,993,913**  
[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01)**  
[25] EN  
[54] **CONTINUOUS CIRCULATION SUB CONNECTION SYSTEM AND METHOD TO CONDUCT DRILLING OPERATIONS USING SUCH A SYSTEM**  
[54] **SYSTEME DE CONNEXION POUR RACCORD DOUBLE DE CIRCULATION CONTINUE ET PROCEDE POUR MENER DES OPERATIONS DE FORAGE A L'AIDE D'UN TEL SYSTEME**

[72] JOHNSON, RACHEL LYNN, US  
[72] BELANGER, ALAIN JOSEPH, US  
[72] BOTTINO, AURELIO, US  
[72] LECCACORVI, GIANMARIA, US  
[72] LEWIS, MICHAEL DON, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US

[71] ENI S.P.A., IT  
[85] 2018-01-26  
[86] 2015-07-29 (PCT/IT2015/000190)  
[87] (WO2017/017700)

[21] **2,993,918**  
[13] A1

[51] **Int.Cl. C07D 271/10 (2006.01) A61K 31/4245 (2006.01) C07D 413/10 (2006.01) C07D 413/12 (2006.01)**  
[25] EN  
[54] **1,3,4-OXADIAZOLE AMIDE DERIVATIVE COMPOUND AS HISTONE DEACETYLASE 6 INHIBITOR, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME**  
[54] **COMPOSE DERIVE AMIDE DE 1,3,4-OXADIAZOLE UTILISE COMME INHIBITEUR DE L'HISTONE DESACETYLASE 6, ET COMPOSITION PHARMACEUTIQUE CONTENANT CELUI-CI**

[72] LEE, JAEKWANG, KR  
[72] KO, MOO SUNG, KR  
[72] HAN, YOUNGHUE, KR  
[72] KIM, YUNTAE, KR  
[71] CHONG KUN DANG PHARMACEUTICAL CORP., KR

[85] 2018-01-26  
[86] 2016-07-27 (PCT/KR2016/008216)  
[87] (WO2017/018804)  
[30] KR (10-2015-0106007) 2015-07-27

[21] **2,993,920**  
[13] A1

[51] **Int.Cl. A61K 47/30 (2006.01) A61K 9/107 (2006.01) A61K 31/122 (2006.01) A61K 31/337 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION WITH IMPROVED STORAGE STABILITY AND METHOD FOR PREPARING THE SAME**  
[54] **COMPOSITION PHARMACEUTIQUE PRESENTANT UNE STABILITE DE STOCKAGE AMELIOREE, ET SON PROCEDE DE PREPARATION**

[72] KIM, BONG OH, KR  
[72] MIN, BUM CHAN, KR  
[72] KIM, JI YEONG, KR  
[72] KIM, HYE RIM, KR  
[72] SEO, MIN HYO, KR  
[72] LEE, SA WON, KR  
[72] YI, YIL WOONG, KR  
[72] CHO, JOONG WOONG, KR  
[72] CHOI, IN JA, KR  
[71] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR

[85] 2018-01-26  
[86] 2016-07-28 (PCT/KR2016/008265)  
[87] (WO2017/018816)  
[30] KR (10-2015-0106626) 2015-07-28

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[21] **2,993,922**  
[13] A1

[51] **Int.Cl. A61K 31/439 (2006.01) A61P 17/02 (2006.01)**  
[25] EN  
[54] **METHOD OF WOUND HEALING**  
[54] **PROCEDE DE CICATRISATION**  
[72] JAGANNATH, M.R., IN  
[72] VENKATARANGANNA, M.V., IN  
[72] BAGGAVALLI, SOMESH, IN  
[72] OOMMEN MAMMEN, ANUP, IN  
[71] CONNEXIOS LIFE SCIENCES PVT. LTD., IN  
[85] 2018-01-26  
[86] 2016-08-11 (PCT/IN2016/050270)  
[87] (WO2017/025988)  
[30] IN (4178/CHE/2015) 2015-08-11

[21] **2,993,923**  
[13] A1

[51] **Int.Cl. A61K 47/30 (2006.01) A61K 9/107 (2006.01) A61K 31/122 (2006.01) A61K 31/337 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION WITH IMPROVED STORAGE STABILITY AND METHOD FOR PREPARING THE SAME**  
[54] **COMPOSITION PHARMACEUTIQUE A STABILITE AU STOCKAGE AMELIOREE, ET SON PROCEDE DE PREPARATION**  
[72] KIM, BONG OH, KR  
[72] KYUNG, KYU JIN, KR  
[72] KIM, JI YEONG, KR  
[72] KIM, HYE RIM, KR  
[72] MIN, BUM CHAN, KR  
[72] YOON, YOO JEONG, KR  
[72] SEO, MIN HYO, KR  
[72] YI, YIL WOONG, KR  
[71] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR  
[85] 2018-01-26  
[86] 2016-07-28 (PCT/KR2016/008269)  
[87] (WO2017/018819)  
[30] KR (10-2015-0106628) 2015-07-28

[21] **2,993,925**  
[13] A1

[51] **Int.Cl. A61K 47/30 (2006.01) A61K 9/107 (2006.01) A61K 31/122 (2006.01) A61K 31/337 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION WITH IMPROVED STORAGE STABILITY AND METHOD FOR PREPARING THE SAME**  
[54] **COMPOSITION PHARMACEUTIQUE A STABILITE AU STOCKAGE AMELIOREE, ET SON PROCEDE DE PREPARATION**  
[72] KIM, BONG OH, KR  
[72] KYUNG, KYU JIN, KR  
[72] KIM, JI YEONG, KR  
[72] KIM, HYE RIM, KR  
[72] MIN, BUM CHAN, KR  
[72] YOON, YOO JEONG, KR  
[72] SEO, MIN HYO, KR  
[72] YI, YIL WOONG, KR  
[71] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR  
[85] 2018-01-26  
[86] 2016-07-28 (PCT/KR2016/008267)  
[87] (WO2017/018818)  
[30] KR (10-2015-0106627) 2015-07-28

[21] **2,993,926**  
[13] A1

[51] **Int.Cl. B64G 1/10 (2006.01) G06Q 10/06 (2012.01)**  
[25] FR  
[54] **METHOD FOR PLANNING THE ACQUISITION OF IMAGES OF AREAS OF THE EARTH BY A SPACECRAFT**  
[54] **PROCEDE DE PLANIFICATION D'ACQUISITION D'IMAGES DE ZONES TERRESTRES PAR UN ENGIN SPATIAL**  
[72] BLANC-PAQUES, PIERRE, FR  
[71] AIRBUS DEFENCE AND SPACE SAS, FR  
[85] 2018-01-26  
[86] 2016-07-28 (PCT/FR2016/051963)  
[87] (WO2017/017384)  
[30] FR (1557215) 2015-07-28

[21] **2,993,928**  
[13] A1

[51] **Int.Cl. A61K 47/30 (2006.01) A61K 9/107 (2006.01) A61K 31/122 (2006.01) A61K 31/337 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION WITH IMPROVED STORAGE STABILITY AND METHOD FOR PREPARING THE SAME**  
[54] **COMPOSITION PHARMACEUTIQUE A STABILITE AU STOCKAGE AMELIOREE, ET SON PROCEDE DE PREPARATION**  
[72] KIM, BONG OH, KR  
[72] KYUNG, KYU JIN, KR  
[72] KIM, JI YEONG, KR  
[72] KIM, HYE RIM, KR  
[72] MIN, BUM CHAN, KR  
[72] YOON, YOO JEONG, KR  
[72] SEO, MIN HYO, KR  
[72] YI, YIL WOONG, KR  
[71] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR  
[85] 2018-01-26  
[86] 2016-07-28 (PCT/KR2016/008270)  
[87] (WO2017/018820)  
[30] KR (10-2015-0106629) 2015-07-28

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[21] **2,993,929**  
[13] A1

[51] **Int.Cl. C07D 271/10 (2006.01) A61K 31/18 (2006.01) A61K 31/4245 (2006.01) C07D 413/10 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **1,3,4-OXADIAZOLE SULFONAMIDE DERIVATIVE COMPOUNDS AS HISTONE DEACETYLASE 6 INHIBITOR, AND THE PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**

[54] **COMPOSES DERIVES DE 1,3,4-OXADIAZOLE SULFONAMIDE SERVANT D'INHIBITEUR DE L'HISTONE DESACETYLASE 6, ET COMPOSITION PHARMACEUTIQUE COMPRENANT CEUX-CI**

[72] LEE, JAEKWANG, KR  
[72] HAN, YOUNGHUE, KR  
[72] KIM, YUNTAE, KR  
[72] CHOI, DAEKYU, KR  
[72] MIN, JAEKI, KR  
[72] BAE, MISEON, KR  
[72] YANG, HYUNMO, KR  
[72] KIM, DOHOON, KR  
[71] CHONG KUN DANG  
PHARMACEUTICAL CORP., KR  
[85] 2018-01-26  
[86] 2016-07-27 (PCT/KR2016/008214)  
[87] (WO2017/018803)  
[30] KR (10-2015-0105976) 2015-07-27

[21] **2,994,021**  
[13] A1

[51] **Int.Cl. A63J 5/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR MAKING GROUND FOG**

[54] **METHODE ET APPAREIL DE FABRICATION DE BROUILLARD AU SOL**

[72] TOMAZETICH, MARIO, AT  
[71] TOMAZETICH, MARIO, AT  
[85] 2018-01-29  
[86] 2016-08-01 (PCT/AT2016/060023)  
[87] (WO2017/020057)  
[30] AT (A 50692/2015) 2015-07-31

[21] **2,994,023**  
[13] A1

[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/427 (2006.01) A61K 31/506 (2006.01)**

[25] EN

[54] **N-(PYRIDIN-2-YL)-4-(THIAZOL-5-YL)PYRIMIDIN-2-AMINE DERIVATIVES AS THERAPEUTIC COMPOUNDS**

[54] **DERIVES DE N-(PYRIDIN-2-YL)-4-(THIAZOL-5-YL) PYRIMIDIN-2-AMINE UTILISES COMME COMPOSES THERAPEUTIQUES**

[72] WANG, SHUDONG, AU  
[72] ZELEKE, SOLOMON TADESSE, AU  
[72] YU, MINGFENG, AU  
[71] UNIVERSITY OF SOUTH AUSTRALIA, AU  
[85] 2018-01-29  
[86] 2016-08-04 (PCT/AU2016/000269)  
[87] (WO2017/020065)  
[30] AU (2015903106) 2015-08-04

[21] **2,994,025**  
[13] A1

[51] **Int.Cl. F16F 9/02 (2006.01)**

[25] EN

[54] **DEVICE FOR TRIGGERING A GAS SPRING**

[54] **DISPOSITIF PERMETTANT DE DECLENCHER UN RESSORT A GAZ**

[72] WANDSCHNEIDER, GUIDO, DE  
[71] WANDSCHNEIDER, GUIDO, DE  
[85] 2018-01-29  
[86] 2016-07-02 (PCT/DE2016/000264)  
[87] (WO2017/032351)  
[30] DE (10 2015 010 880.8) 2015-08-25

[21] **2,994,047**  
[13] A1

[51] **Int.Cl. A01N 31/06 (2006.01) A01N 65/22 (2009.01) A01N 25/04 (2006.01) A01N 25/28 (2006.01) A01P 17/00 (2006.01)**

[25] FR

[54] **COMPOSITION TO REPEL INSECTS THAT ARE VECTORS FOR TROPICAL DISEASES IN SPRAY FORM**

[54] **COMPOSITION REPULSIVE CONTRE LES INSECTES VECTEURS DE MALADIES TROPICALES SOUS FORME DE SPRAY**

[72] TORTILLARD, DAVID, FR  
[71] TORTILLARD, DAVID, FR  
[85] 2018-01-29  
[86] 2016-08-11 (PCT/FR2016/052065)  
[87] (WO2017/032941)  
[30] FR (15/57908) 2015-08-25

[21] **2,994,049**  
[13] A1

[51] **Int.Cl. A61L 27/12 (2006.01) A61L 27/36 (2006.01) A61L 27/56 (2006.01)**

[25] EN

[54] **LARGE 3D POROUS SCAFFOLDS MADE OF ACTIVE HYDROXYAPATITE OBTAINED BY BIOMORPHIC TRANSFORMATION OF NATURAL STRUCTURES AND PROCESS FOR OBTAINING THEM**

[54] **ECHAFAUDAGES POREUX 3D DE GRANDE TAILLE CONSTITUES D'HYDROXYAPATITE ACTIVE OBTENUE PAR TRANSFORMATION BIOMORPHE DE STRUCTURES NATURELLES ET PROCEDE POUR LES OBTENIR**

[72] TAMPIERI, ANNA, IT  
[72] SPRIO, SIMONE, IT  
[72] RUFFINI, ANDREA, IT  
[71] GREENBONE ORTHO S.R.L., IT  
[85] 2018-01-29  
[86] 2016-08-03 (PCT/IB2016/054665)  
[87] (WO2017/021894)  
[30] IT (102015000042762) 2015-08-06  
[30] IT (102015000042834) 2015-08-06

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[21] **2,994,055**  
[13] A1

[51] **Int.Cl. G06Q 50/18 (2012.01) G06F 21/36 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ELECTRONICALLY PROVIDING LEGAL INSTRUMENT**  
[54] **SYSTEME ET PROCEDE PERMETTANT DE FOURNIR ELECTRONIQUEMENT UN ACTE JURIDIQUE**  
[72] KAMINSKI, RAYMOND, US  
[72] BUNNELL, ANTHONY, US  
[72] HURLEY, WILLIAM, US  
[72] CARDONA, DAVID, US  
[71] GOLDMAN SACHS & CO. LLC, US  
[85] 2018-01-29  
[86] 2016-07-03 (PCT/IB2016/053995)  
[87] (WO2017/002097)  
[30] US (62/188,351) 2015-07-02

[21] **2,994,103**  
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/70 (2006.01) A61K 31/44 (2006.01) A61K 47/12 (2006.01) A61P 25/04 (2006.01)**  
[25] EN  
[54] **TRANSDERMAL DELIVERY SYSTEM**  
[54] **SYSTEME D'ADMINISTRATION TRANSDERMIQUE**  
[72] WHITELOCK, STEVE, GB  
[72] HARDING, DEBORAH PHYLLIS, GB  
[72] JOHNSON, HELEN, GB  
[72] SMITH, KEVIN, GB  
[72] MUNDIN, GILL, GB  
[71] EURO-CELTIQUE S.A., LU  
[85] 2018-01-29  
[86] 2016-07-28 (PCT/GB2016/052307)  
[87] (WO2017/017452)  
[30] GB (1513441.4) 2015-07-30

[21] **2,994,143**  
[13] A1

[51] **Int.Cl. A61K 31/451 (2006.01) A61K 31/4523 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01)**  
[25] EN  
[54] **MUSCARINIC AGONISTS**  
[54] **AGONISTES MUSCARINIQUES**  
[72] BROWN, GILES ALBERT, GB  
[72] CONGREVE, MILES STUART, GB  
[72] PICKWORTH, MARK, GB  
[72] RACKHAM, MARK DAVID, GB  
[72] TEHAN, BENJAMIN GERALD, GB  
[71] HEPTARES THERAPEUTICS LIMITED, GB  
[85] 2018-01-29  
[86] 2016-08-03 (PCT/GB2016/052384)  
[87] (WO2017/021728)  
[30] GB (1513740.9) 2015-08-03

[21] **2,994,058**  
[13] A1

[51] **Int.Cl. A61M 5/145 (2006.01) A61M 5/148 (2006.01) A61M 5/152 (2006.01)**  
[25] EN  
[54] **DEVICE FOR INFUSION OF FLUIDS**  
[54] **DISPOSITIF POUR LA PERFUSION DE FLUIDES**  
[72] CARBONE, DOMENICO CARMELO, IT  
[72] RECCA, GIUSEPPE RENATO MASSIMO, IT  
[72] MARAVIGNA, ARTURO, IT  
[71] GAMASTECH S.R.L., IT  
[85] 2018-01-29  
[86] 2016-07-20 (PCT/IB2016/054301)  
[87] (WO2017/025829)  
[30] IT (102015000043474) 2015-08-07

[21] **2,994,109**  
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/70 (2006.01) A61K 31/44 (2006.01) A61K 47/12 (2006.01) A61K 47/32 (2006.01) A61P 25/04 (2006.01)**  
[25] EN  
[54] **TRANSDERMAL DELIVERY SYSTEM**  
[54] **SYSTEME D'ADMINISTRATION TRANSDERMIQUE**  
[72] WHITELOCK, STEVE, GB  
[72] HARDING, DEBORAH PHYLLIS, GB  
[72] JOHNSON, HELEN, GB  
[72] SMITH, KEVIN, GB  
[72] MUNDIN, GILL, GB  
[71] EURO-CELTIQUE S.A., LU  
[85] 2018-01-29  
[86] 2016-07-28 (PCT/GB2016/052308)  
[87] (WO2017/017453)  
[30] GB (1513442.2) 2015-07-30

[21] **2,994,193**  
[13] A1

[51] **Int.Cl. E04B 1/26 (2006.01) E04B 1/10 (2006.01) E04F 17/08 (2006.01)**  
[25] EN  
[54] **PIECE DE CONNEXION**  
[54] **CONNECTION PART**  
[72] DELFELD, MARC, BE  
[71] DELFELD, MARC, BE  
[85] 2018-01-30  
[86] 2016-07-29 (PCT/BE2016/000035)  
[87] (WO2017/020098)  
[30] BE (2015/0191) 2015-07-31

[21] **2,994,100**  
[13] A1

[51] **Int.Cl. B66C 13/08 (2006.01) B66C 13/06 (2006.01)**  
[25] EN  
[54] **LOAD CONTROL APPARATUS**  
[54] **APPAREIL DE COMMANDE DE CHARGE**  
[72] MANCHESTER, JONATHAN RALPH, GB  
[71] IHC ENGINEERING BUSINESS LIMITED, GB  
[85] 2018-01-29  
[86] 2016-07-27 (PCT/GB2016/052304)  
[87] (WO2017/017450)  
[30] GB (1513483.6) 2015-07-30

[21] **2,994,203**  
[13] A1

[51] **Int.Cl. A61K 31/451 (2006.01) A61K 31/4523 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01) C07D 401/14 (2006.01)**  
[25] EN  
[54] **MUSCARINIC AGONISTS**  
[54] **AGONISTES MUSCARINIQUES**  
[72] BROWN, GILES ALBERT, GB  
[72] CANSFIELD, JULIE, GB  
[72] PICKWORTH, MARK, GB  
[72] TEHAN, BENJAMIN GERALD, GB  
[72] TEOBALD, BARRY JOHN, GB  
[71] HEPTARES THERAPEUTICS LIMITED, GB  
[85] 2018-01-30  
[86] 2016-08-03 (PCT/GB2016/052385)  
[87] (WO2017/021729)  
[30] GB (1513743.3) 2015-08-03

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[21] **2,994,208**  
[13] A1

[51] **Int.Cl. G01F 1/66 (2006.01) G01F 1/708 (2006.01) G01F 1/74 (2006.01) G01N 29/024 (2006.01) G01N 29/46 (2006.01)**

[25] EN

[54] **MULTI-PHASE FLOW-MONITORING WITH AN OPTICAL FIBER DISTRIBUTED ACOUSTIC SENSOR**

[54] **SURVEILLANCE D'ECOULEMENT POLYPHASIQUE AVEC UN CAPTEUR ACOUSTIQUE DISTRIBUE A FIBRES OPTIQUES**

[72] AMIR, MOHAMMAD, GB

[72] FARHADIROUSHAN, MAHMOUD, GB

[72] FINFER, DANIEL, GB

[72] MAHUE, VERONIQUE, GB

[72] PARKER, TOM, GB

[71] SILIXA LTD., GB

[71] CHEVRON U.S.A. INC., US

[85] 2018-01-30

[86] 2016-08-05 (PCT/GB2016/052444)

[87] (WO2017/021740)

[30] GB (1513867.0) 2015-08-05

[21] **2,994,216**  
[13] A1

[51] **Int.Cl. C21C 7/10 (2006.01)**

[25] EN

[54] **PLANT AND METHOD FOR VACUUM DEGASSING LIQUID STEEL**

[54] **INSTALLATION ET PROCEDE POUR LE DEGAZAGE D'ACIER LIQUIDE SOUS VIDE**

[72] MILOCCO, MAURO, IT

[72] MAZZARINI, FEDERICO, IT

[72] TRIGATTI, FABIO, IT

[71] SMS GROUP S.P.A., IT

[85] 2018-01-30

[86] 2016-08-03 (PCT/IB2016/054667)

[87] (WO2017/021895)

[30] IT (102015000042858) 2015-08-06

[21] **2,994,217**  
[13] A1

[51] **Int.Cl. C07D 209/48 (2006.01) A61K 31/4035 (2006.01)**

[25] EN

[54] **NOVEL FORMS OF APREMILAST AND THE PROCESS OF MAKING THE SAME**

[54] **NOUVELLES FORMES D'APREMILAST ET LEUR PROCEDE DE FABRICATION**

[72] FANG, HSIAO-PING, TW

[72] LO, WEI-SHUO, TW

[72] WANG, KUAN HSUN, TW

[72] LIN, YU-SHENG, TW

[72] HU, TSUNG-CHENG, TW

[72] HUANG, YUANCHANG, TW

[71] SCINOPHARM TAIWAN, LTD., TW

[85] 2018-01-30

[86] 2016-08-25 (PCT/SG2016/050413)

[87] (WO2017/039537)

[30] US (62/211,280) 2015-08-28

[30] US (62/279,147) 2016-01-15

[21] **2,994,220**  
[13] A1

[51] **Int.Cl. B60G 3/01 (2006.01) B62K 5/10 (2013.01) B60G 15/06 (2006.01) F16F 9/32 (2006.01)**

[25] EN

[54] **MOTOR VEHICLE WHEEL SUSPENSION, MOTOR VEHICLE ASSEMBLY, MOTOR VEHICLE FORECARRIAGE AND MOTOR VEHICLE THEREOF**

[54] **SUSPENSION DE ROUE D'UN VEHICULE A MOTEUR, ENSEMBLE VEHICULE A MOTEUR, AVANT-TRAIN DE VEHICULE A MOTEUR ET VEHICULE A MOTEUR ASSOCIE**

[72] RAFFAELLI, ANDREA, IT

[71] PIAGGIO & C. S.P.A., IT

[85] 2018-01-30

[86] 2016-08-03 (PCT/IB2016/054683)

[87] (WO2017/021906)

[30] IT (102015000041338) 2015-08-03

[21] **2,994,230**  
[13] A1

[51] **Int.Cl. H05B 3/56 (2006.01) H01B 1/02 (2006.01) H01B 3/30 (2006.01) H01B 13/012 (2006.01) H01B 13/02 (2006.01) H01B 13/22 (2006.01) H01B 13/26 (2006.01) H05B 3/00 (2006.01) H05B 3/02 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING HEATING ELEMENT, HEATING ELEMENT MANUFACTURED THEREBY, AND USE METHOD THEREOF**

[54] **PROCEDE DE FABRICATION D'UN ELEMENT CHAUFFANT, ELEMENT CHAUFFANT AINSI FABRIQUE ET PROCEDE D'UTILISATION ASSOCIE**

[72] KIM, SE YEONG, KR

[72] KIM, DONG WOO, KR

[71] KIM, SE YEONG, KR

[71] KIM, DONG WOO, KR

[85] 2018-01-30

[86] 2016-07-08 (PCT/KR2016/007411)

[87] (WO2017/026666)

[30] KR (10-2015-0114303) 2015-08-13

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[21] **2,994,246**  
[13] A1

[51] **Int.Cl. B32B 7/00 (2006.01) B32B 3/14 (2006.01) B32B 3/18 (2006.01) B32B 7/12 (2006.01) B32B 21/04 (2006.01) B32B 21/13 (2006.01) B32B 21/14 (2006.01)**

[25] FR

[54] **MULTILAYER WOOD PANEL AND METHOD FOR CUTTING AND ASSEMBLING SQUARED GREEN WOOD FOR PRODUCING SUCH A PANEL**

[54] **PANNEAU DE BOIS MULTICOUCHE ET PROCEDE DE DECOUPE ET D'ASSEMBLAGE D'AVIVES DE BOIS A L'ETAT VERT POUR LA FABRICATION D'UN TEL PANNEAU**

[72] POMMIER, REGIS, FR

[72] GARBAY, GUILLAUME, FR

[72] MINDEGUIA, JEAN-CHRISTOPHE, FR

[71] UNIVERSITE DE BORDEAUX, FR

[71] INSTITUT POLYTECHNIQUE DE BORDEAUX, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] BEYNEL, FR

[85] 2018-01-30

[86] 2016-07-22 (PCT/FR2016/051926)

[87] (WO2017/021619)

[30] FR (1557385) 2015-07-31

[21] **2,994,251**  
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01)**

[25] EN

[54] **DRUG DELIVERY SYSTEM AND METHOD FOR CONTROLLED AND CONTINUOUS DELIVERY OF DRUGS INTO THE BRAIN BY BYPASSING THE BLOOD BRAIN BARRIER**

[54] **SYSTEME D'ADMINISTRATION DE MEDICAMENT ET PROCEDE D'ADMINISTRATION CONTROLEE ET CONTINUE DE MEDICAMENTS DANS LE CERVEAU EN CONTOURNANT LA BARRIERE HEMATO-ENCEPHALIQUE**

[72] U.R, ANOOP, IN

[72] VERMA, KAVITA, IN

[71] U.R, ANOOP, IN

[71] VERMA, KAVITA, IN

[85] 2018-01-30

[86] 2016-06-29 (PCT/IB2016/053899)

[87] (WO2017/017543)

[30] IN (3904/CHE/2015) 2015-07-30

[30] IN (201641014398) 2016-04-26

[30] US (15/177,347) 2016-06-09

[21] **2,994,263**  
[13] A1

[51] **Int.Cl. F04B 43/02 (2006.01) F04D 9/04 (2006.01)**

[25] EN

[54] **PUMP**

[54] **POMPE**

[72] BERNDSSEN, JOOST ROBERT, NL

[72] BERNDSSEN, MIECHIEL ANTHONY, NL

[71] ALTOP PATENTS B.V., NL

[85] 2018-01-30

[86] 2016-08-01 (PCT/NL2016/050565)

[87] (WO2017/023171)

[30] NL (2015261) 2015-08-04

[21] **2,994,360**  
[13] A1

[51] **Int.Cl. E21B 31/00 (2006.01) E21B 19/07 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR RAISING COMPONENTS FROM A WELLBORE**

[54] **APPAREIL ET PROCEDE D'ELEVATION DE COMPOSANTS DEPUIS UN Puits DE FORAGE**

[72] MCGARIAN, BRUCE, GB

[72] BIART, WAYNE, US

[71] MCGARIAN TDC LIMITED, GB

[85] 2018-01-31

[86] 2016-07-25 (PCT/GB2016/052269)

[87] (WO2017/021691)

[30] GB (1513566.8) 2015-07-31

[21] **2,994,361**  
[13] A1

[51] **Int.Cl. B42C 19/00 (2006.01) B42C 9/00 (2006.01)**

[25] EN

[54] **MODULAR AND PRODUCTION SYSTEM WITH HIGH FLEXIBILITY OF USE AND OPERATION, FOR COMBINED MANUFACTURING OF CUSTOMIZED PRINTS, PAPER AND PAPERBOARD PROCESSING AND BINDING**

[54] **SYSTEME MODULAIRE ET DE PRODUCTION DOTE D'UNE GRANDE SOUPLESSE D'UTILISATION ET DE FONCTIONNEMENT, POUR COMBINER LA FABRICATION D'UNE IMPRESSION PERSONNALISEE, LA LIAISON ET LE TRAITEMENT DE PAPIER ET DE CARTON**

[72] MASTALIA, CARMINE, IT

[71] MASTALIA, CARMINE, IT

[85] 2018-01-31

[86] 2016-04-29 (PCT/IB2016/052445)

[87] (WO2017/021788)

[30] IT (102015000041934) 2015-08-04

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[21] **2,994,362**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A41D 1/00 (2018.01) A61B 5/0205 (2006.01)**  
[25] EN  
[54] **FLEXIBLE FABRIC RIBBON CONNECTORS FOR GARMENTS WITH SENSORS AND ELECTRONICS**  
[54] **CONNECTEURS SOUS FORME DE RUBANS TEXTILES FLEXIBLES POUR DES VETEMENTS AVEC DES CAPTEURS ET DES COMPOSANTS ELECTRONIQUES**  
[72] LONGINOTTI-BUITONI, GIANLUIGI, LU  
[72] ALIVERTI, ANDREA, LU  
[72] PALLAI, FABRIZIO, LU  
[71] L.I.F.E. CORPORATION S.A., LU  
[85] 2018-01-31  
[86] 2016-07-20 (PCT/IB2016/001146)  
[87] (WO2017/013493)  
[30] US (62/194,731) 2015-07-20

[21] **2,994,363**  
[13] A1

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[25] FR  
[54] **PAIN-KILLING COMPOSITION COMPRISING A SALICYLIC ACID DERIVATIVE**  
[54] **COMPOSITION ANTIDOULEUR COMPRENANT UN DERIVE DE L'ACIDE SALICYLIQUE**  
[72] CHELLE, RENE, FR  
[71] AB7 INNOVATION S.A.S.U., FR  
[85] 2018-01-31  
[86] 2016-08-09 (PCT/FR2016/000129)  
[87] (WO2017/025666)  
[30] FR (1501724) 2015-08-12

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[25] EN  
[54] **PAYLOAD DISPENSING SYSTEM**  
[54] **SYSTEME DE DISTRIBUTION DE CHARGE UTILE**  
[72] FIELD, DANIEL W., US  
[72] ASKIJIAN, ARMEN, US  
[72] GROSSMAN, JAMES, US  
[72] SMITH, ALEXANDER D., US  
[71] WORLDVU SATELLITES LIMITED, US  
[85] 2018-01-31  
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[30] US (14/745,527) 2015-06-22

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[13] A1

[51] **Int.Cl. A61B 5/20 (2006.01) A61M 5/168 (2006.01)**  
[25] EN  
[54] **POINT OF CARE URINE ANALYZER**  
[54] **DISPOSITIF D'ANALYSE D'URINE IN SITU**  
[72] ELIA, LIRON, IL  
[72] IDAN, GAVRIEL J., IL  
[71] ART HEALTHCARE LTD., IL  
[85] 2018-01-31  
[86] 2016-08-04 (PCT/IL2016/050855)  
[87] (WO2017/021971)  
[30] US (62/201,118) 2015-08-05

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[13] A1

[51] **Int.Cl. H02M 7/483 (2007.01)**  
[25] EN  
[54] **CAPACITE VIRTUELLE**  
[54] **VIRTUAL CAPACITANCE**  
[72] SHINODA, KOSEI, FR  
[72] BENCHAIB, ABDELKRIM, FR  
[72] GUILLAUD, XAVIER, FR  
[72] DAI, JING, FR  
[71] SUPERGRID INSTITUTE, FR  
[71] INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON, FR  
[71] CENTRALESUPELEC, FR  
[85] 2018-01-31  
[86] 2016-07-29 (PCT/FR2016/051993)  
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[30] FR (1557501) 2015-08-03

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[25] EN  
[54] **FORECARRIAGE OF TILTING MOTOR VEHICLE AND MOTOR VEHICLE THEREOF**  
[54] **SUSPENSION AVANT DE VEHICULE A MOTEUR**  
[72] RAFFAELLI, ANDREA, IT  
[71] PIAGGIO & C. S.P.A., IT  
[85] 2018-01-31  
[86] 2016-08-03 (PCT/IB2016/054682)  
[87] (WO2017/021905)  
[30] IT (102015000041334) 2015-08-03

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[51] **Int.Cl. D21H 27/30 (2006.01) B32B 29/00 (2006.01) D21H 11/18 (2006.01)**  
[25] EN  
[54] **FLEXIBLE MICROFIBRILLATED FILM FORMATION**  
[54] **FORMATION DE FILM MICROFIBRILLE FLEXIBLE**  
[72] HEISKANEN, ISTO, FI  
[72] BACKFOLK, KAJ, FI  
[72] LYYTIKAINEN, KATJA, FI  
[71] STORA ENSO OYJ, FI  
[85] 2018-01-31  
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[87] (WO2017/046749)  
[30] SE (1551196-7) 2015-09-17

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[51] **Int.Cl. B67D 1/12 (2006.01) B67D 1/00 (2006.01)**  
[25] EN  
[54] **THE PRESENT INVENTION RELATES TO A DEVICE FOR THE MIXING OF FLUIDS**  
[54] **DISPOSITIF POUR LE MELANGE ET LA DISTRIBUTION DE BOISSONS**  
[72] ALBERINI, VILIAM, IT  
[72] ROLLI, STEFANO, IT  
[71] MARCHETTI, ROBERTO, IT  
[85] 2018-01-31  
[86] 2016-08-03 (PCT/IB2016/054691)  
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[25] FR  
[54] **SUPERVISED PROPORTIONAL METERING DEVICE AND METHODS FOR MONITORING A METERING PUMP**  
[54] **DISPOSITIF DE DOSAGE PROPORTIONNEL SUPERVISE ET PROCEDES DE SUPERVISION D'UNE POMPE DOSEUSE**  
[72] LUCAS, GREGORY, FR  
[72] CHARRIERE, CHRISTOPHE, FR  
[71] DOSATRON INTERNATIONAL, FR  
[85] 2018-01-31  
[86] 2016-07-13 (PCT/IB2016/054171)  
[87] (WO2017/021801)  
[30] FR (15 57578) 2015-08-06

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[13] A1

[51] **Int.Cl. A01B 29/06 (2006.01) A01B 29/00 (2006.01)**  
[25] EN  
[54] **A ROLLER ASSEMBLY**  
[54] **ENSEMBLE ROULEAU**  
[72] DUFTY, RAYMOND JEFFREY, AU  
[71] DUFTY, RAYMOND JEFFREY, AU  
[71] RIX, DOROTHEA ISABEL MAUD, AU  
[85] 2018-02-01  
[86] 2016-08-08 (PCT/AU2016/095002)  
[87] (WO2017/024364)  
[30] AU (2015903165) 2015-08-07

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[13] A1

[51] **Int.Cl. B27M 3/00 (2006.01) B63B 3/06 (2006.01) B63B 15/00 (2006.01) E04C 2/36 (2006.01) E04C 3/18 (2006.01) E04C 3/29 (2006.01) E04H 12/04 (2006.01) F16B 7/04 (2006.01)**  
[25] EN  
[54] **BAR ELEMENT**  
[54] **ELEMENT DE BARRE**  
[72] NIEDERLANDER, JORN, DE  
[71] NIEDERLANDER, JORN, DE  
[85] 2018-02-01  
[86] 2016-08-12 (PCT/DE2016/100360)  
[87] (WO2017/028841)  
[30] DE (20 2015 104 295.7) 2015-08-14

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[13] A1

[51] **Int.Cl. C12Q 1/04 (2006.01) C12M 1/34 (2006.01) C12M 1/36 (2006.01) G06F 13/00 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR COMPENSATING PERTURBED MEASUREMENTS**  
[54] **PROCEDE ET SYSTEME DE COMPENSATION DE MESURES PERTURBEES**  
[72] EMMERSON, GREGORY DANIEL, GB  
[72] SMITH, PETER GEORGE ROBIN, GB  
[71] STRATOPHASE LTD, GB  
[85] 2018-02-01  
[86] 2016-08-02 (PCT/GB2016/052373)  
[87] (WO2017/021726)  
[30] GB (1513799.5) 2015-08-04  
[30] GB (1601853.3) 2016-02-02

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[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) A61P 31/04 (2006.01) C12N 15/09 (2006.01)**  
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[54] **DELIVERY VEHICLE**  
[54] **VEHICULE D'ADMINISTRATION**  
[72] LICHTENSTEIN, CONRAD PAUL, GB  
[72] MIKAWA, YOSHIKAZU GI, GB  
[71] NEMESIS BIOSCIENCE LTD, GB  
[85] 2018-02-01  
[86] 2016-08-12 (PCT/GB2016/052524)  
[87] (WO2017/029485)  
[30] GB (1514510.5) 2015-08-14

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[13] A1

[51] **Int.Cl. H01S 3/034 (2006.01) B65D 81/26 (2006.01) H01S 3/02 (2006.01) B01D 46/00 (2006.01) B01D 53/00 (2006.01) G02B 27/00 (2006.01) G02F 1/35 (2006.01) H01S 3/036 (2006.01) H01S 3/081 (2006.01) H01S 3/109 (2006.01) H01S 3/16 (2006.01)**  
[25] EN  
[54] **PURGING SYSTEM FOR A LASER SYSTEM**  
[54] **SYSTEME DE PURGE POUR SYSTEME LASER**  
[72] MAKER, GARETH THOMAS, GB  
[72] MUNRO, SIMON, GB  
[71] M SQUARED LASERS LIMITED, GB  
[85] 2018-02-01  
[86] 2016-08-22 (PCT/GB2016/052595)  
[87] (WO2017/032994)  
[30] GB (1514930.5) 2015-08-21

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[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G06T 7/00 (2017.01)**  
[25] EN  
[54] **VEGETATION MANAGEMENT FOR POWER LINE CORRIDOR MONITORING USING COMPUTER VISION**  
[54] **GESTION DE VEGETATION DE SURVEILLANCE DE CORRIDOR DE LIGNES ELECTRIQUES AU MOYEN D'UNE VISION PAR ORDINATEUR**  
[72] PESTUN, VADIM, RU  
[72] EREMINA, OLGA, RU  
[72] TYULYAEVA, EKATERINA, RU  
[71] ACCENTURE GLOBAL SERVICES LIMITED, IE  
[85] 2018-02-01  
[86] 2015-08-06 (PCT/IB2015/001843)  
[87] (WO2017/021751)

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[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01)**  
[25] EN  
[54] **CONDITION DETECTION USING IMAGE PROCESSING**  
[54] **DETECTION DE CONDITION A L'AIDE D'UN TRAITEMENT D'IMAGE**  
[72] PESTUN, VADIM, RU  
[72] TYULYAEVA, EKATERINA, RU  
[72] EREMINA, OLGA, RU  
[72] LEVASHOV, ALEXEY, RU  
[72] GULDOGAN, OLCAY, FI  
[72] ROTOLA-PUKKILA, JANI, FI  
[72] ROSSI, TEEMU KALEVI, FI  
[71] ACCENTURE GLOBAL SERVICES LIMITED, IE  
[85] 2018-02-01  
[86] 2015-08-06 (PCT/IB2015/002615)  
[87] (WO2017/021753)

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[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/444 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES D'ACIDE PYRIDIN-3-YL ACETIQUE COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] ROMINE, JEFFREY LEE, US  
[72] SIVAPRAKASAM, PRASANNA, US  
[72] ST. LAURENT, DENIS R., US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-02-01  
[86] 2016-08-03 (PCT/IB2016/054688)  
[87] (WO2017/025864)  
[30] US (62/202,521) 2015-08-07

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[13] A1

[51] **Int.Cl. E04F 15/18 (2006.01) F24D 13/02 (2006.01)**

[25] EN

[54] **MULTILAYER INSULATING PANEL FOR THE INSTALLATION OF AN ELECTRIC HEATING SYSTEM IN SUBFLOORS OR WALLS**

[54] **PANNEAU ISOLANT MULTICOUCHE DESTINE A L'INSTALLATION D'UN SYSTEME DE CHAUFFAGE ELECTRIQUE DANS DES SOUS-PLANCHERS OU DES PAROIS**

[72] FAOTTO, UGO, IT  
[71] ELEMENTS S.R.L., IT

[85] 2018-02-01  
[86] 2016-07-27 (PCT/IB2016/054480)  
[87] (WO2017/021821)  
[30] IT (102015000041246) 2015-08-03

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[13] A1

[51] **Int.Cl. H04N 13/128 (2018.01) H04N 19/176 (2014.01) G06T 7/50 (2017.01)**

[25] EN

[54] **2D-TO-3D VIDEO FRAME CONVERSION**

[54] **CONVERSION DE TRAME VIDEO BIDIMENSIONNELLE (2D) A TRIDIMENSIONNELLE (3D)**

[72] HEFEEDA, MOHAMED M., QA  
[72] CALAGARI, KIANA ALI ASGHAR, QA  
[72] ELGHARIB, MOHAMED ABDELAZIZ A MOHAMED, QA  
[72] MATUSIK, WOJCIECH, QA  
[72] INDYK, PIOTR, QA  
[72] KASPAR, ALEXANDRE, QA  
[71] HEFEEDA, MOHAMED M., QA  
[71] CALAGARI, KIANA ALI ASGHAR, QA  
[71] ELGHARIB, MOHAMED ABDELAZIZ A MOHAMED, QA  
[71] MATUSIK, WOJCIECH, QA  
[71] INDYK, PIOTR, QA  
[71] KASPAR, ALEXANDRE, QA

[85] 2018-02-01  
[86] 2016-08-03 (PCT/GB2016/052388)  
[87] (WO2017/021731)  
[30] US (62/200,311) 2015-08-03

[21] **2,994,516**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING FGF21-ASSOCIATED DISORDERS**

[54] **METHODE DE TRAITEMENT DES TROUBLES ASSOCIES AU FGF21**

[72] YOWE, DAVID LANGDON, US  
[72] BOETTCHER, BRIAN, US  
[72] CEBE, REGIS, CH  
[72] TARASZKA, JOHN, US  
[72] LI, GUOCHUN, US  
[72] CAPLAN, SHARI LYNN, US  
[72] XU, FANGMIN, US  
[71] NOVARTIS AG, CH

[85] 2018-02-01  
[86] 2016-08-02 (PCT/IB2016/054660)  
[87] (WO2017/021893)  
[30] US (62/200,445) 2015-08-03

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[13] A1

[51] **Int.Cl. C07D 498/22 (2006.01) A61K 31/437 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **IMIDAZOPYRIDINE MACROCYCLES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **MACROCYCLES D'IMIDAZOPYRIDINE EN TANT QU'INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] PATEL, MANOJ, US  
[72] PEESE, KEVIN, US  
[72] WANG, ZHONGYU, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-02-01  
[86] 2016-08-10 (PCT/IB2016/054827)  
[87] (WO2017/025913)  
[30] US (62/202,973) 2015-08-10

[21] **2,994,518**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/24 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING PHOSPHORYLATED ALPHA-SYNUCLEIN**

[54] **PROCEDES DE DETECTION D'ALPHA-SYNUCLEINE PHOSPHORYLEE**

[72] BARBOUR, ROBIN, US  
[72] ZIESKE, LYNN R., US  
[72] HAMREN, SARAH, US  
[71] PROTHENA BIOSCIENCES LIMITED, IE

[85] 2018-02-01  
[86] 2016-08-25 (PCT/IB2016/055088)  
[87] (WO2017/033152)  
[30] US (62/209,800) 2015-08-25  
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[51] **Int.Cl. A61C 8/00 (2006.01) A61C 13/225 (2006.01)**  
[25] EN  
[54] **MAGIC PIN THREADER FOR DENTAL IMPLANT CONSIDERING STRENGTHS OF TITANIUM AND BONE**  
[54] **SYSTEME D'INSERTION DE BROCHE MAGIQUE POUR IMPLANT DENTAIRE TENANT COMPTE DE LA RESISTANCE DU TITANE ET DE L'OS**  
[72] WANG, JE-WON, KR  
[71] WANG, JE-WON, KR  
[85] 2018-02-01  
[86] 2016-02-22 (PCT/KR2016/001698)  
[87] (WO2017/022915)  
[30] KR (10-2015-0109361) 2015-08-03

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[13] A1

[51] **Int.Cl. B01J 8/36 (2006.01) B01J 8/00 (2006.01)**  
[25] FR  
[54] **DEVICE FOR INJECTING FLUIDS INTO THE FREE AREA OF A ROTATING FLUIDISED BED**  
[54] **DISPOSITIF D'INJECTION DE FLUIDES DANS LA ZONE LIBRE D'UN LIT FLUIDIFIE ROTATIF**  
[72] DE BROQUEVILLE, AXEL, BE  
[71] DE BROQUEVILLE, AXEL, BE  
[85] 2018-02-01  
[86] 2016-08-02 (PCT/BE2016/000036)  
[87] (WO2017/031556)  
[30] BE (BE2015/0206) 2015-08-24

[21] **2,994,584**  
[13] A1

[51] **Int.Cl. B67D 1/08 (2006.01) B67D 1/12 (2006.01)**  
[25] EN  
[54] **FITTING FOR A CASK HAVING AN OVERPRESSURE FUNCTION**  
[54] **RACCORD MUNI D'UNE FONCTION DE SURPRESSION POUR RECIPIENTS A BOISSONS**  
[72] STEINMETZ, HARALD, DE  
[72] SOMMER, PHILIPP, DE  
[72] WOLTER, MIRCO, DE  
[71] DSI GETRANKEARMATUREN GMBH, DE  
[85] 2018-02-02  
[86] 2016-07-22 (PCT/DE2016/100330)  
[87] (WO2017/025080)  
[30] DE (10 2015 113 387.3) 2015-08-13

[21] **2,994,616**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR COMMUNICATIONS MANAGEMENT**  
[54] **APPAREIL ET PROCEDE PERMETTANT UNE GESTION DE COMMUNICATION**  
[72] HUDSON, PETER NOBLE, GB  
[72] EISSA, RANIA HAMDY, GB  
[71] BAE SYSTEMS PLC, GB  
[85] 2018-02-02  
[86] 2016-08-02 (PCT/GB2016/052371)  
[87] (WO2017/025713)  
[30] GB (1514451.2) 2015-08-13  
[30] EP (15183514.7) 2015-09-02

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[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/28 (2006.01) C08G 18/75 (2006.01)**  
[25] FR  
[54] **THICKENING AGENT FOR AQUEOUS SYSTEMS, FORMULATIONS CONTAINING SAME AND USES THEREOF**  
[54] **AGENT EPAISSISSANT POUR SYSTEMES AQUEUX, FORMULATIONS LE CONTENANT ET UTILISATIONS**  
[72] RUHLMANN, DENIS, FR  
[72] CORFIAS ZUCCALLI, CATHERINE, FR  
[72] SUAU, JEAN-MARC, FR  
[72] MATTER, YVES, FR  
[72] MAGNY, BENOIT, FR  
[71] COATEX, FR  
[85] 2018-02-02  
[86] 2016-08-03 (PCT/FR2016/052022)  
[87] (WO2017/021656)  
[30] FR (1557551) 2015-08-05

[21] **2,994,627**  
[13] A1

[51] **Int.Cl. A61M 25/02 (2006.01) H04R 5/033 (2006.01)**  
[25] EN  
[54] **GARMENT CLIP**  
[54] **PINCE POUR VETEMENT**  
[72] MULROONEY, CONOR, GB  
[71] PHAGENESIS LIMITED, GB  
[85] 2018-02-02  
[86] 2016-08-03 (PCT/GB2016/052381)  
[87] (WO2017/021727)  
[30] GB (1513792.0) 2015-08-04

[21] **2,994,630**  
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 90/00 (2016.01) A61M 25/00 (2006.01)**  
[25] EN  
[54] **CATHETER**  
[54] **CATHETER**  
[72] MULROONEY, CONOR, GB  
[72] BOOKBINDER, STEVE, GB  
[71] PHAGENESIS LIMITED, GB  
[85] 2018-02-02  
[86] 2016-08-04 (PCT/GB2016/052390)  
[87] (WO2017/021732)  
[30] GB (1513797.9) 2015-08-04

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01)**  
[25] EN  
[54] **COMBINATION TREATMENTS AND USES AND METHODS THEREOF**  
[54] **POLYTHERAPIES, UTILISATIONS ET METHODES CORRESPONDANTES**  
[72] HOOS, AXEL, US  
[72] KAUFMAN, DAVID, US  
[72] PINHEIRO, ELAINE, US  
[72] STRUEMPEL, HERBERT, US  
[72] YANAMANDRA, NIRANJAN, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB  
[71] MERCK SHARP & DOHME CORP., US  
[85] 2018-02-02  
[86] 2016-08-03 (PCT/IB2016/054692)  
[87] (WO2017/021910)  
[30] US (62/200,779) 2015-08-04  
[30] US (62/204,555) 2015-08-13

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[13] A1

[51] **Int.Cl. B23B 31/11 (2006.01) B23C 5/10 (2006.01) B23C 5/26 (2006.01)**

[25] EN

[54] **REPLACEABLE CUTTING HEAD HAVING THREADED MOUNTING PORTION WITH TWO SPACED APART CONICAL ABUTMENT SURFACES PROVIDED WITH THE SAME CONE ANGLE, TOOL HOLDER AND ROTARY CUTTING TOOL**

[54] **TETE DE COUPE REMPLACABLE COMPRENANT UNE PARTIE DE MONTAGE FILETEE PRESENTANT DEUX SURFACES DE BUTEE CONIQUES ESPACEES PRESENTANT LE MEME ANGLE DE CONE, PORTE-OUTIL ET OUTIL DE COUPE ROTATIF**

[72] HECHT, GIL, IL  
[71] ISCAR LTD., IL  
[85] 2018-02-02  
[86] 2016-07-21 (PCT/IL2016/050798)  
[87] (WO2017/025947)  
[30] US (14/822,967) 2015-08-11

[21] **2,994,644**  
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 403/04 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **PYRAZOLE PYRIMIDINE DERIVATIVE AND USES THEREOF**

[54] **DERIVE DE PYRAZOLE PYRIMIDINE ET UTILISATIONS DE CELUI-CI**

[72] BEN NERIAH, YINON, IL  
[72] BRACHYA, GUY, IL  
[72] BURSTAIN, IDO, IL  
[72] MINZEL, WALEED, IL  
[72] SNIR-ALKALAY, IRIT, IL  
[72] VACCA, JOSEPH, US  
[72] LI, DANSU, US  
[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL  
[85] 2018-02-02  
[86] 2016-08-04 (PCT/IL2016/050852)  
[87] (WO2017/021969)  
[30] US (62/200,846) 2015-08-04  
[30] US (62/268,750) 2015-12-17

[21] **2,994,660**  
[13] A1

[51] **Int.Cl. E21B 43/00 (2006.01) E21B 28/00 (2006.01) E21B 43/25 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR SONOCHEMICAL TREATMENT OF WELL AND RESERVOIR**

[54] **PROCEDE ET DISPOSITIF POUR TRAITEMENT SONOCHIMIQUE DE Puits ET DE RESERVOIR**

[72] KAMLER, ANNA VLADIMIROVNA, RU  
[72] KOPP, MANUEL, CA  
[71] VENTORA TECHNOLOGIES AG, CH  
[85] 2018-02-02  
[86] 2015-08-06 (PCT/RU2015/000493)  
[87] (WO2017/023186)

[21] **2,994,686**  
[13] A1

[51] **Int.Cl. A01K 1/12 (2006.01) A01J 5/00 (2006.01) A01J 5/017 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MILKING A GROUP OF MILKING ANIMALS**

[54] **SYSTEME ET PROCEDE DE TRAITE D'UN TROUPEAU D'ANIMAUX LAITIERS**

[72] VAN DEN BERG, KAREL, NL  
[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL  
[72] WISSE, DIK-JAN, NL  
[71] LELY PATENT N.V., NL  
[85] 2018-02-02  
[86] 2016-07-19 (PCT/NL2016/050536)  
[87] (WO2017/034395)  
[30] NL (2015337) 2015-08-24

[21] **2,994,688**  
[13] A1

[51] **Int.Cl. C07D 271/10 (2006.01) A61K 31/4245 (2006.01) A61K 31/497 (2006.01) A61K 31/5377 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **1,3,4-OXADIAZOLE DERIVATIVE COMPOUNDS AS HISTONE DEACETYLASE 6 INHIBITOR, AND THE 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, JAEKWANG, KR  
[72] KIM, YUNTAE, KR  
[72] LEE, CHANG SIK, KR  
[72] SONG, HYESEUNG, KR  
[72] GWAK, DAL-YONG, KR  
[72] LEE, JAEYOUNG, KR  
[72] OH, JUNG TAEK, KR  
[72] LEE, CHANG GON, KR  
[72] KIM, IL HYANG, KR  
[71] CHONG KUN DANG PHARMACEUTICAL CORP., KR  
[85] 2018-02-02  
[86] 2016-08-04 (PCT/KR2016/008622)  
[87] (WO2017/023133)  
[30] KR (10-2015-0110227) 2015-08-04

[21] **2,994,727**  
[13] A1

[51] **Int.Cl. B65G 45/12 (2006.01)**

[25] EN

[54] **CONVEYOR BELT SCRAPER**

[54] **RACLOIR DE COURROIE TRANSPORTEUSE**

[72] CHRISTIAN, PAUL, ZA  
[71] BRELKO PATENTS (PTY) LTD, ZA  
[85] 2018-02-02  
[86] 2016-06-14 (PCT/ZA2016/050019)  
[87] (WO2017/024323)  
[30] ZA (2015/05592) 2015-08-04

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[13] A1

[51] **Int.Cl. H01Q 1/04 (2006.01) H01Q 9/42 (2006.01) H01Q 9/44 (2006.01)**  
[25] FR  
[54] **SURFACE-WAVE ANTENNA, ANTENNA ARRAY AND USE OF AN ANTENNA OR AN ANTENNA ARRAY**  
[54] **ANTENNE A ONDES DE SURFACE, RESEAU D'ANTENNES ET UTILISATION D'UNE ANTENNE OU D'UN RESEAU D'ANTENNES**  
[72] BELLEC, MATHILDE, FR  
[72] LAURENT, JEAN-YVES, FR  
[72] PALUD, SEBASTIEN, FR  
[72] JEZEQUEL, PIERRE-YVES, FR  
[72] COLOMBEL, FRANCK, FR  
[72] AVRILLON, STEPHANE, FR  
[71] TDF, FR  
[71] UNIVERSITE DE RENNES 1, FR  
[85] 2018-02-05  
[86] 2016-07-22 (PCT/FR2016/051917)  
[87] (WO2017/025675)  
[30] FR (1557654) 2015-08-10

[21] **2,994,730**  
[13] A1

[51] **Int.Cl. B65G 45/12 (2006.01)**  
[25] EN  
[54] **BASE FOR CONVEYOR BELT SCRAPER**  
[54] **BASE POUR RACLOIR DE COURROIE TRANSPORTEUSE**  
[72] CHRISTIAN, PAUL, ZA  
[71] BRELKO PATENTS (PTY) LTD, ZA  
[85] 2018-02-02  
[86] 2016-06-14 (PCT/ZA2016/050020)  
[87] (WO2017/024324)  
[30] ZA (2015/05594) 2015-08-04

[21] **2,994,734**  
[13] A1

[51] **Int.Cl. B23K 11/11 (2006.01) B23K 11/30 (2006.01) B23K 11/31 (2006.01) B23K 11/36 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR THE LOW-RESISTANCE WELDING OF METAL SHEETS WITH A HIGH CYCLE RATE**  
[54] **DISPOSITIF ET PROCEDE DE SOUDAGE A FAIBLE VALEUR OHMIQUE DE TOLES A UNE VITESSE DE PRODUCTION ELEVEE**  
[72] WEIGL, MARKUS, DE  
[71] GRENZEBACH MASCHINENBAU GMBH, DE  
[85] 2018-02-05  
[86] 2016-08-10 (PCT/DE2016/000313)  
[87] (WO2017/028833)  
[30] DE (10 2015 010 734.8) 2015-08-17

[21] **2,994,764**  
[13] A1

[51] **Int.Cl. B23K 20/12 (2006.01) B23K 37/02 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR HOMOGENEOUSLY WELDING TWO-Dimensionally BENT STRUCTURES BY FRICTION STIR WELDING**  
[54] **DISPOSITIF ET PROCEDE DE SOUDAGE HOMOGENE DE STRUCTURES CINTREES A PLAT PAR SOUDAGE PAR FRICTION-MALAXAGE**  
[72] WEIGL, MARKUS, DE  
[71] GRENZEBACH MASCHINENBAU GMBH, DE  
[85] 2018-02-05  
[86] 2016-08-10 (PCT/DE2016/000312)  
[87] (WO2017/025078)  
[30] DE (10 2015 010 638.4) 2015-08-13

[21] **2,994,776**  
[13] A1

[51] **Int.Cl. E06B 9/38 (2006.01) E06B 9/36 (2006.01) E06B 9/68 (2006.01)**  
[25] EN  
[54] **BLIND APPARATUS**  
[54] **APPAREIL STORE**  
[72] WILEMAN, RICHARD, GB  
[71] LOUVER-LITE LIMITED, GB  
[85] 2018-02-05  
[86] 2016-08-05 (PCT/GB2016/052453)  
[87] (WO2017/029473)  
[30] GB (1514502.2) 2015-08-14

[21] **2,994,777**  
[13] A1

[51] **Int.Cl. H01M 10/052 (2010.01) A23L 33/185 (2016.01) A23L 33/19 (2016.01) A23P 10/00 (2016.01) B01J 13/04 (2006.01) C08J 3/12 (2006.01) A24F 47/00 (2006.01) A61M 15/06 (2006.01)**  
[25] EN  
[54] **ELECTRONIC VAPOUR PROVISION SYSTEM**  
[54] **SYSTEME DE FOURNITURE DE VAPEUR ELECTRONIQUE**  
[72] OTIABA, KENNY, GB  
[71] NICOVENTURES HOLDINGS LIMITED, GB  
[85] 2018-02-05  
[86] 2016-08-24 (PCT/GB2016/052624)  
[87] (WO2017/033007)  
[30] GB (1515087.3) 2015-08-25

[21] **2,994,789**  
[13] A1

[51] **Int.Cl. G01V 7/06 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR GRAVITY AND/OR GRAVITY GRADIENT TERRAIN CORRECTIONS**  
[54] **SYSTEME ET PROCEDE POUR CORRECTIONS DE GRAVITE ET/OU DE TERRAIN DE GRADIENT DE GRAVITE**  
[72] LI, XIONG, FR  
[72] FOKS, NATHAN, FR  
[71] CGG SERVICES SAS, FR  
[85] 2018-02-05  
[86] 2016-08-04 (PCT/IB2016/001242)  
[87] (WO2017/025801)  
[30] US (62/204,613) 2015-08-13

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[21] **2,994,790**  
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/407 (2006.01) A61K 31/675 (2006.01) A61K 31/7032 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TLR4 AGONISTS AND COMPOSITIONS THEREOF AND THEIR USE IN THE TREATMENT OF CANCER**

[54] **AGONISTES DE TLR4, LEURS COMPOSITIONS ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] CLUFF, CHRISTOPHER W., US

[72] GAO, HUA-XIN, US

[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE

[85] 2018-02-05

[86] 2016-06-03 (PCT/IB2016/053290)

[87] (WO2017/021792)

[30] US (62/201,912) 2015-08-06

[21] **2,994,791**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/444 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **5-(N-BENZYL TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES D'ACIDE 5-(N-BENZYL TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] EASTMAN, KYLE J., US

[72] KADOW, JOHN F., US

[72] PARCELLA, KYLE E., US

[72] NAIDU, B. NARASIMHULU, US

[72] WANG, TAO, US

[72] YIN, ZHIWEI, US

[72] ZHANG, ZHONGXING, US

[71] VIH HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-02-05

[86] 2016-08-10 (PCT/IB2016/054832)

[87] (WO2017/025917)

[30] US (62/203,791) 2015-08-11

[21] **2,994,796**  
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 31/165 (2006.01) A61K 31/341 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOUNDS FOR THE ALLEVIATION AND/OR PREVENTION OF PAIN**

[54] **METHODES ET COMPOSES D'ATTENUATION ET/OU DE PREVENTION DE LA DOULEUR**

[72] SVENSSON, CAMILLA, SE

[72] KLARESKOG, LARS, SE

[72] MALMSTROM, VIVIANNE, SE

[72] CATRINA, ANCA, SE

[71] SVENSSON, CAMILLA, SE

[71] KLARESKOG, LARS, SE

[71] MALMSTROM, VIVIANNE, SE

[71] CATRINA, ANCA, SE

[85] 2018-02-05

[86] 2016-06-30 (PCT/SE2016/050664)

[87] (WO2017/007403)

[30] US (62/188,499) 2015-07-03

[30] US (62/221,119) 2015-09-21

[30] US (62/221,134) 2015-09-21

[30] US (62/221,133) 2015-09-21

[30] US (62/221,122) 2015-09-21

[30] US (62/303,452) 2016-03-04

[21] **2,994,797**  
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) A61K 35/17 (2015.01) C07K 16/24 (2006.01) C07K 19/00 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTORS, AND T CELLS IN WHICH CHIMERIC ANTIGEN RECEPTOR IS EXPRESSED**

[54] **RECEPTEUR D'ANTIGENES CHIMERE ET LYMPHOCYTES T DANS LESQUELS LE RECEPTEUR D'ANTIGENES CHIMERE EST EXPRIME**

[72] KONG, SEOGKYOUNG, KR

[71] YOO YOUNG PHARM. CO.,LTD., KR

[85] 2018-02-05

[86] 2016-08-05 (PCT/KR2016/008632)

[87] (WO2017/023138)

[30] KR (10-2015-0110788) 2015-08-05

[21] **2,994,798**  
[13] A1

[51] **Int.Cl. A61K 31/166 (2006.01) A61K 31/4184 (2006.01) A61K 31/47 (2006.01) A61K 39/00 (2006.01) A61P 19/02 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOUNDS FOR THE ALLEVIATION AND/OR PREVENTION OF BONE LOSS**

[54] **PROCEDES ET COMPOSES POUR LE SOULAGEMENT ET/OU LA PREVENTION DE LA PERTE OSSEUSE**

[72] CATRINA, ANCA, SE

[72] SVENSSON, CAMILLA, SE

[72] KLARESKOG, LARS, SE

[72] MALMSTROM, VIVIANNE, SE

[71] CATRINA, ANCA, SE

[71] SVENSSON, CAMILLA, SE

[71] KLARESKOG, LARS, SE

[71] MALMSTROM, VIVIANNE, SE

[85] 2018-02-05

[86] 2016-06-30 (PCT/SE2016/050673)

[87] (WO2017/007405)

[30] US (62/188,499) 2015-07-03

[30] US (62/206,872) 2015-08-19

[21] **2,994,896**  
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 20/00 (2012.01)**

[25] EN

[54] **EXCHANGING PHYSICAL CASH WITH AN ELECTRONIC FUNDS ACCOUNT**

[54] **ECHANGE D'ESPECES PHYSIQUES AVEC UN COMPTE A FONDS ELECTRONIQUES**

[72] DE VILLIERS, DAVID, ZA

[72] MOSHAL, MARTIN PAUL, GI

[71] GELLINER LIMITED, GB

[85] 2018-02-06

[86] 2016-08-05 (PCT/GB2016/052445)

[87] (WO2017/025728)

[30] GB (1514006.4) 2015-08-07

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[21] **2,994,902**  
[13] A1

[51] **Int.Cl. E21B 34/10 (2006.01)**  
[25] EN  
[54] **PRESSURE OPERATED APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE ACTIONNES PAR PRESSION**  
[72] REID, STEPHEN, GB  
[72] JAFFREY, IAN, GB  
[71] WEATHERFORD U.K. LIMITED, GB  
[85] 2018-02-06  
[86] 2016-08-19 (PCT/GB2016/052584)  
[87] (WO2017/032989)  
[30] GB (1514968.5) 2015-08-23

[21] **2,994,903**  
[13] A1

[51] **Int.Cl. G02F 1/11 (2006.01) G02F 1/33 (2006.01)**  
[25] EN  
[54] **ACOUSTO-OPTIC DEFLECTOR WITH LAYERED STRUCTURE AND METHOD FOR DEFLECTING AN OPTICAL BEAM WITH SUCH DEFLECTOR**  
[54] **DEFLECTEUR ACOUSTO-OPTIQUE A STRUCTURE EN COUCHES ET PROCEDE POUR DEVIER UN FAISCEAU OPTIQUE AVEC UN TEL DEFLECTEUR**  
[72] ROZSA, BALAZS, HU  
[72] KATONA, GERGELY, HU  
[72] VERESS, MATE, HU  
[72] MAAK, PAL, HU  
[72] SZALAY, GERGELY, HU  
[71] FEMTONICS KFT, HU  
[85] 2018-02-06  
[86] 2016-05-31 (PCT/HU2016/050020)  
[87] (WO2016/193770)  
[30] HU (P1500264) 2015-06-01

[21] **2,994,910**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/7008 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **COMBINATIONS OF AN OX40 ANTIBODY AND A TLR4 MODULATOR AND USES THEREOF**  
[54] **COMBINAISONS D'UN ANTICORPS OX40 ET D'UN MODULATEUR TLR4 ET UTILISATIONS DE CELLES-CI**  
[72] FRANCIS, CHRISTOPHER JOHN, US  
[72] GAO, HUA-XIN, US  
[72] YANAMANDRA, NIRANJAN, US  
[72] LI, YUFENG, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB  
[85] 2018-02-06  
[86] 2016-06-03 (PCT/IB2016/053285)  
[87] (WO2017/021791)  
[30] US (62/201,828) 2015-08-06  
[30] US (62/247,488) 2015-10-28  
[30] US (62/300,400) 2016-02-26  
[30] US (62/322,906) 2016-04-15

[21] **2,994,912**  
[13] A1

[51] **Int.Cl. F01D 5/14 (2006.01)**  
[25] FR  
[54] **TURBOMACHINE ROTOR BLADE**  
[54] **AUBE DE ROTOR DE TURBOMACHINE**  
[72] MONTES PARRA, ROGER FELIPE, FR  
[72] COJANDE, PRASAAD, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-02-06  
[86] 2016-08-05 (PCT/FR2016/052043)  
[87] (WO2017/025684)  
[30] FR (FR 1557660) 2015-08-11

[21] **2,994,913**  
[13] A1

[51] **Int.Cl. F25B 6/04 (2006.01) F25B 40/02 (2006.01) F25B 40/04 (2006.01)**  
[25] EN  
[54] **PERFECTED PORTABLE AIR CONDITIONER**  
[54] **CLIMATISEUR PORTABLE PERFECTIONNE**  
[72] DE' LONGHI, GIUSEPPE, IT  
[72] CALLEGARO, IVANO, IT  
[72] VIT, STEFANO, IT  
[71] DE' LONGHI APPLIANCES S.R.L. CON UNICO SOCIO, IT  
[85] 2018-02-06  
[86] 2016-08-05 (PCT/IB2016/054740)  
[87] (WO2017/025877)  
[30] IT (102015000043339) 2015-08-07

[21] **2,994,914**  
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) C12Q 1/68 (2018.01) G01N 33/68 (2006.01)**  
[25] FR  
[54] **INDIVIDUAL METHOD PREDICTIVE OF THE DNA-BREAKING GENOTOXIC EFFECTS OF CHEMICAL OR BIOCHEMICAL AGENTS**  
[54] **METHODE INDIVIDUELLE PREDICTIVE DES EFFETS GENOTOXIQUES D'AGENTS CHIMIQUES OU BIOCHIMIQUES, CASSANT L'ADN**  
[72] FORAY, NICOLAS, FR  
[72] FERLAZZO, MELANIE, FR  
[72] BONZOGNI, LAURENE, FR  
[72] BODGI, LARRY, FR  
[72] PEREIRA, SANDRINE, FR  
[71] NEOLYS DIAGNOSTICS, FR  
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] CENTRE LEON BERARD, FR  
[71] UNIVERSITE CLAUDE BERNARD LYON 1, FR  
[85] 2018-02-06  
[86] 2016-08-16 (PCT/FR2016/052083)  
[87] (WO2017/029450)  
[30] FR (1501745) 2015-08-19  
[30] FR (1559962) 2015-10-20

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[51] <b>Int.Cl. A23K 50/40 (2016.01) A23L 33/00 (2016.01) A61P 3/04 (2006.01)</b>	[51] <b>Int.Cl. C07D 417/04 (2006.01) A61K 31/404 (2006.01) A61P 3/04 (2006.01)</b>	[51] <b>Int.Cl. A61K 31/506 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)</b>
[25] EN	A61P 25/24 (2006.01) A61P 31/18 (2006.01) C07D 209/10 (2006.01)	[25] EN
[54] <b>METHODS USING MORPHOMETRIC MEASUREMENTS OF A SMALL DOG TO IMPROVE FOOD FOR THE SMALL DOG</b>	C07D 209/18 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01)	[54] <b>5-BROMO-2,6-DI-(1H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE FOR USE IN THE TREATMENT OF CANCER</b>
[54] <b>PROCEDES UTILISANT DES MESURES MORPHOMETRIQUES D'UN PETIT CHIEN POUR AMELIORER LA NOURRITURE POUR LE PETIT CHIEN</b>	C07D 407/12 (2006.01) C07D 409/12 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)	[54] <b>5-BROMO -2,6-DI- (1H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE POUR UTILISATION DANS LE TRAITEMENT DU CANCER</b>
[72] BOUTHEGOURD, JEAN-CHRISTOPHE, FR	[25] EN	[54] <b>5-BROMO -2,6-DI- (1H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE POUR UTILISATION DANS LE TRAITEMENT DU CANCER</b>
[72] GORE, ASA, US	[54] <b>3-INDOL SUBSTITUTED DERIVATIVES, PHARMACEUTICAL COMPOSITIONS AND METHODS FOR USE</b>	[72] BILIC, SANELA, US
[71] NESTEC S.A., CH	[54] <b>DERIVES SUBSTITUES PAR UN 3-INDOLE, COMPOSITIONS PHARMACEUTIQUES ET LEURS PROCEDES D'UTILISATION</b>	[72] CAMACHO GOMEZ, JUAN ALBERTO, ES
[85] 2018-02-06	[72] NINKOVIC, SACHA, US	[72] CAMERON, JOHN SCOTT, US
[86] 2016-08-05 (PCT/IB2016/054748)	[72] COLLINS, MICHAEL RAYMOND, US	[72] CASTRO-PALOMINO LARIA, JULIO CESAR, ES
[87] (WO2017/025881)	[72] CROSIGNANI, STEFANO, BE	[72] HOWARD, DANNY ROLAND, JR., US
[30] US (62/203,710) 2015-08-11	[72] MADERNA, ANDREAS, US	[71] NOVARTIS AG, CH
[30] US (62/242,107) 2015-10-15	[72] MCALPINE, INDRAWAN JAMES, US	[71] PALOBIOFARMA, S.L., ES
	[72] SCALES, STEPHANIE ANNE, US	[85] 2018-02-06
	[72] WYTHES, MARTIN, US	[86] 2016-08-10 (PCT/IB2016/054834)
	[71] PFIZER INC., US	[87] (WO2017/025918)
	[71] ITEOS THERAPEUTICS, BE	[30] EP (15382425.5) 2015-08-11
	[85] 2018-02-06	[30] US (62/335,984) 2016-05-13
	[86] 2016-08-04 (PCT/IB2016/054701)	
	[87] (WO2017/025868)	
	[30] US (62/203,032) 2015-08-10	
	[30] US (62/309,530) 2016-03-17	



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[21] **2,995,021**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 5/0784 (2010.01) A61K 35/13 (2015.01) A61K 35/74 (2015.01) A61K 39/00 (2006.01)**

[25] EN

[54] **TRANSINFECTED LYMPHOCYTES FOR ANTI-TUMOR THERAPY**

[54] **LYMPHOCYTES TRANSFECTES POUR THERAPIE ANTITUMORALE**

[72] VEIGA CHACON, ESTEBAN, ES  
[72] CRUZ ADALIA, ARANZAZU, ES  
[72] RAMIREZ SANTIAGO, GUILLERMO, ES  
[72] ALARCON SANCHEZ, BALBINO, ES  
[72] SANCHEZ MADRID, FRANCISCO, ES

[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, ES

[71] UNIVERSIDAD AUTONOMA DE MADRID, ES

[71] FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL DE LA PRINCESA, ES

[85] 2018-02-07  
[86] 2016-08-08 (PCT/ES2016/070597)  
[87] (WO2017/025657)  
[30] ES (P201531177) 2015-08-07

[21] **2,995,022**  
[13] A1

[51] **Int.Cl. D21C 5/00 (2006.01) D21C 5/02 (2006.01) D21H 11/14 (2006.01) D21H 21/36 (2006.01)**

[25] EN

[54] **A METHOD FOR TREATING STARCH IN PULP, PAPER AND BOARD MAKING PROCESSES**

[54] **PROCEDE DE TRAITEMENT DE L'AMIDON DANS LA PATE A PAPIER, PROCESSUS DE FABRICATION DE PAPIER ET DE CARTON**

[72] HIETANIEMI, MATTI, FI  
[72] EKMAN, JAAKKO, FI  
[72] KARPPI, ASKO, FI  
[72] KOLARI, MARKO, FI  
[71] KEMIRA OYJ, FI

[85] 2018-02-07  
[86] 2016-08-26 (PCT/FI2016/050583)  
[87] (WO2017/032927)  
[30] FI (20155612) 2015-08-27

[21] **2,995,028**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61J 15/00 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **DEVICES FOR AND METHODS OF DIAGNOSIS AND/OR MONITORING DYSPHAGIA**

[54] **DISPOSITIFS ET METHODES POUR LE DIAGNOSTIC ET/OU LA SURVEILLANCE DE LA DYSPHAGIE**

[72] MULROONEY, CONOR, GB  
[71] PHAGENESIS LIMITED, GB

[85] 2018-02-07  
[86] 2016-08-04 (PCT/GB2016/052389)  
[87] (WO2017/025720)  
[30] GB (1513989.2) 2015-08-07  
[30] GB (1521538.7) 2015-12-07

[21] **2,995,032**  
[13] A1

[51] **Int.Cl. C02F 1/52 (2006.01) B01D 21/01 (2006.01)**

[25] EN

[54] **A METHOD FOR REMOVING HUMIC SUBSTANCES FROM AN AQUEOUS ALKALINE SOLUTION**

[54] **PROCEDE D'ELIMINATION DES SUBSTANCES HUMIQUES D'UNE SOLUTION ALCALINE AQUEUSE**

[72] AHLGREN, JONNI, FI  
[72] HALTTUNEN, SAKARI, FI  
[72] RUOTSALAINEN, JUSSI, FI  
[72] LUHTALA, MARIA, FI  
[72] NIEMELA, MIIA, FI  
[71] KEMIRA OYJ, FI

[85] 2018-02-07  
[86] 2016-08-31 (PCT/FI2016/050595)  
[87] (WO2017/037340)  
[30] FI (20155628) 2015-09-02

[21] **2,995,042**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4545 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61P 31/18 (2006.01) C07D 403/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 473/16 (2006.01) C07D 473/18 (2006.01) C07D 487/04 (2006.01) C07D 495/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **5-(N-[6,5]-FUSED BICYCLIC ARYL TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES BICYCLIQUES CONDENSES D'ACIDE 5-(N-[6,5]-ARYLE TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL-ACETIQUE UTILISES EN TANT QU'INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] WANG, TAO, US  
[72] YIN, ZHIWEI, US  
[72] ZHANG, ZHONGXING, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-02-07  
[86] 2016-08-10 (PCT/IB2016/054831)  
[87] (WO2017/025916)  
[30] US (62/203,986) 2015-08-12

[21] **2,995,045**  
[13] A1

[51] **Int.Cl. A47J 43/22 (2006.01) A23L 7/10 (2016.01) A23L 7/157 (2016.01) A23P 20/12 (2016.01) A47G 19/24 (2006.01) A47J 47/04 (2006.01) B65D 85/36 (2006.01)**

[25] EN

[54] **PACKAGED WHEAT FLOUR**

[54] **FARINE CONTENUE DANS UN RECIPIENT**

[72] OMURA, MASATO, JP  
[72] SAKAKIBARA, MICHIIHIRO, JP  
[71] NISSHIN FOODS INC., JP

[85] 2018-02-07  
[86] 2015-08-07 (PCT/JP2015/072498)  
[87] (WO2017/026004)

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[21] **2,995,053**  
[13] A1

[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING CAMPTOTHECIN POLYMER DERIVATIVE**

[54] **COMPOSITION PHARMACEUTIQUE A TENEUR EN DERIVE DE POLYMERE DE CAMPTOTHECINE**

[72] AOKI, SHIN, JP  
[72] FUJITA, SHINYA, JP  
[71] NIPPON KAYAKU KABUSHIKI KAISHA, JP

[85] 2018-02-07  
[86] 2016-08-25 (PCT/JP2016/074762)  
[87] (WO2017/038607)  
[30] JP (2015-173755) 2015-09-03

[21] **2,995,064**  
[13] A1

[51] **Int.Cl. A61M 16/08 (2006.01)**

[25] EN

[54] **COAXIAL AND DOUBLE LUMEN BREATHING CIRCUIT SYSTEMS HAVING A LUNG PRESSURE MEASUREMENT PORT AND CLOSED SYSTEM WATER TRAP WHICH CAN BE DRAINED WITH AN ENJECTOR**

[54] **SYSTEMES DE CIRCUIT RESPIRATOIRE COAXIAL ET A DOUBLE LUMIERE AYANT UN ORIFICE DE MESURE DE PRESSION DU POUMON ET UN PIEGE A EAU EN SYSTEME FERME QUI PEUT ETRE DRAINE PAR UN INJECTEUR**

[72] SEVINCLI, ATILLA, TR  
[71] ALTERA TIBBI MALZEME SANAYI VE TICARET ANONIM SIRKETI, TR

[71] SEVINCLI, ATILLA, TR

[85] 2018-02-07  
[86] 2015-08-13 (PCT/TR2015/050066)  
[87] (WO2017/026951)

[21] **2,995,079**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS TO TREAT LIVER DISEASES AND CONDITIONS**

[54] **METHODES ET COMPOSITIONS POUR TRAITER DES MALADIES ET DES TROUBLES HEPATIQUES**

[72] MARTINEZ CHANTAR, MARIA LUZ, ES  
[72] ANGUIA, JUAN, ES  
[71] ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS-CIC BIOGUNE, ES

[85] 2018-02-07  
[86] 2016-08-20 (PCT/IB2016/001275)  
[87] (WO2017/029556)  
[30] US (62/207,456) 2015-08-20

[21] **2,995,085**  
[13] A1

[51] **Int.Cl. E04B 1/26 (2006.01)**

[25] EN

[54] **CONNECTION DEVICE FOR FASTENING TWO ELEMENTS, IN PARTICULAR FOR BUILDING CONSTRUCTION**

[54] **DISPOSITIF DE RACCORDEMENT POUR ATTACHER DEUX ELEMENTS, EN PARTICULIER POUR UNE CONSTRUCTION DE BATIMENT**

[72] FEBBO, FRANCO, IT  
[71] FEBBO, FRANCO, IT

[85] 2018-02-07  
[86] 2016-08-06 (PCT/IB2016/054762)  
[87] (WO2017/025886)  
[30] IT (102015000043304) 2015-08-07

[21] **2,995,087**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4545 (2006.01) A61K 31/519 (2006.01) A61P 31/18 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 491/147 (2006.01) C07D 495/04 (2006.01) C07D 513/14 (2006.01)**

[25] EN

[54] **5-(N-FUSED TRICYCLIC ARYL TETRAHYDROISOQUINOLIN-6-YL) PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES TRICYCLIQUES CONDENSES D'ACIDE 5-(N-ARYLE TETRAHYDROISOQUINOLINE-6-YL) PYRIDIN-3-YL ACETIQUE COMME INHIBITEURS DE LA REPLICATION DU VIRUS D'IMMUNODEFICIENCE HUMAINE**

[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] WANG, TAO, US  
[72] YIN, ZHIWEI, US  
[72] ZHANG, ZHONGXING, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB

[85] 2018-02-07  
[86] 2016-08-10 (PCT/IB2016/054829)  
[87] (WO2017/025914)  
[30] US (62/204,117) 2015-08-12

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[21] **2,995,099**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/444 (2006.01) A61P 31/18 (2006.01) C07D 401/04 (2006.01) C07D 405/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION**

[54] **DERIVES D'ACIDE PYRIDIN-3-YLE ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE**

[72] EASTMAN, KYLE J., US  
[72] KADOW, JOHN F., US  
[72] NAIDU, B. NARASIMHULU, US  
[72] PARCELLA, KYLE E., US  
[72] PATEL, MANOJ, US  
[72] SIVAPRAKASAM, PRASANNA, US  
[72] TU, YONG, US  
[71] VIIV HEALTHCARE UK (NO.5) LIMITED, GB  
[85] 2018-02-07  
[86] 2016-08-10 (PCT/IB2016/054830)  
[87] (WO2017/025915)  
[30] US (62/204,239) 2015-08-12

[21] **2,995,130**  
[13] A1

[51] **Int.Cl. B26D 7/01 (2006.01) B23Q 39/04 (2006.01) B26D 7/06 (2006.01)**

[25] EN

[54] **METHOD AND CUTTING APPARATUS FOR CUTTING BLANK PROFILES**

[54] **METHODE ET APPAREIL DE COUPE DESTINES A COUPER DES PROFILS D'EBAUCHE**

[72] MICHAUD, STEEVE, CA  
[72] LANGLOIS, BENOIT, CA  
[71] MILAN CONCEPTION INC., CA  
[85] 2018-02-14  
[86] 2017-10-25 (PCT/IB2017/056637)  
[87] (2995130)  
[30] US (62/423,537) 2016-11-17

[21] **2,995,141**  
[13] A1

[51] **Int.Cl. C30B 25/10 (2006.01) C23C 16/24 (2006.01) C23C 16/26 (2006.01) C30B 25/16 (2006.01) C30B 29/02 (2006.01) C30B 29/06 (2006.01) C30B 29/60 (2006.01)**

[25] EN

[54] **A METHOD OF PRODUCING A TWO-DIMENSIONAL MATERIAL**

[54] **PROCEDE DE PRODUCTION D'UN MATERIAU A DEUX DIMENSIONS**

[72] THOMAS, SIMON CHARLES STEWART, GB  
[71] PARAGRAF LIMITED, GB  
[85] 2018-02-08  
[86] 2016-07-01 (PCT/GB2016/052003)  
[87] (WO2017/029470)  
[30] GB (1514542.8) 2015-08-14  
[30] GB (1519182.8) 2015-10-30  
[30] GB (1523083.2) 2015-12-30  
[30] GB (1610467.1) 2016-06-15

[21] **2,995,150**  
[13] A1

[51] **Int.Cl. B61C 3/00 (2006.01) B61C 17/06 (2006.01) H01M 2/10 (2006.01)**

[25] EN

[54] **ELECTRIC RAIL CARRIAGE**

[54] **WAGON FERROVIAIRE ELECTRIQUE**

[72] SHOOTER, ADRIAN, GB  
[71] VIVARAIL LTD, GB  
[85] 2018-02-08  
[86] 2016-08-11 (PCT/GB2016/052494)  
[87] (WO2017/025751)  
[30] GB (1514204.5) 2015-08-11  
[30] GB (1606757.1) 2016-04-18

[21] **2,995,151**  
[13] A1

[51] **Int.Cl. E21B 28/00 (2006.01) E21B 7/24 (2006.01) F15B 21/12 (2006.01) F15D 1/00 (2006.01)**

[25] EN

[54] **VORTEX CONTROLLED VARIABLE FLOW RESISTANCE DEVICE AND RELATED TOOLS AND METHODS**

[54] **DISPOSITIF DE RESISTANCE A DEBIT VARIABLE REGULE PAR TOURBILLON ET OUTILS ET PROCEDES ASSOCIES**

[72] SCHULTZ, ROGER L., US  
[72] FERGUSON, ANDREW M., US  
[71] THRU TUBING SOLUTIONS, INC., US  
[85] 2018-02-08  
[86] 2016-07-26 (PCT/IB2016/054461)  
[87] (WO2017/025838)  
[30] US (14/823,625) 2015-08-11

[21] **2,995,153**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01) C07D 451/06 (2006.01)**

[25] EN

[54] **BICYCLIC-FUSED HETEROARYL OR ARYL COMPOUNDS**

[54] **COMPOSES ARYLE OU HETEROARYLE CONDENSES BICYCLIQUES**

[72] CURRAN, KEVIN JOSEPH, US  
[72] LOWE, MICHAEL DENNIS, US  
[72] SAIAH, EDDINE, US  
[72] PIERCE, BETSY SUSAN, US  
[72] LEE, ARTHUR, US  
[72] GAVRIN, LORI KRIM, US  
[72] ANDERSON, DAVID RANDOLPH, US  
[72] GOLDBERG, JOEL ADAM, US  
[72] PATNY, AKSHAY, US  
[72] TRZUPEK, JOHN DAVID, US  
[71] PFIZER INC., US  
[85] 2018-02-08  
[86] 2016-07-29 (PCT/IB2016/054571)  
[87] (WO2017/025849)  
[30] US (62/204,521) 2015-08-13

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[21] **2,995,154**  
[13] A1

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 40/25 (2016.01) A23L 29/00 (2016.01) A23P 30/20 (2016.01)**

[25] EN

[54] **SEMI-MOIST FOOD COMPOSITIONS THAT MAINTAIN SOFT TEXTURE**

[54] **COMPOSITIONS ALIMENTAIRES SEMI-HUMIDES QUI CONSERVENT UNE TEXTURE MOELLEUSE**

[72] PIBAROT, PATRICK, FR

[72] REYNES, PIERRE, FR

[71] NESTEC S.A., CH

[85] 2018-02-08

[86] 2016-08-05 (PCT/IB2016/054756)

[87] (WO2017/029575)

[30] US (62/205,237) 2015-08-14

[21] **2,995,162**  
[13] A1

[51] **Int.Cl. C09D 163/00 (2006.01) C08G 59/14 (2006.01) C09J 163/00 (2006.01)**

[25] FR

[54] **USE OF A COMPOSITION OF LOW-VISCOSITY BIS-ANHYDROHEXITOL ETHERS AS A REACTIVE DILUENT FOR CROSSLINKABLE RESIN, ADHESIVE, COATING AND MATRIX COMPOSITIONS FOR COMPOSITES**

[54] **UTILISATION D'UNE COMPOSITION D'ETHERS DE BIS-ANHYDROHEXITOL DE FAIBLE VISCOSITE COMME DILUANT REACTIF POUR COMPOSITIONS RETICULABLES DE RESINES, D'ADHESIFS, DE REVETEMENTS ET DE MATRICES POUR COMPOSITES**

[72] BUFFE, CLOTHILDE, FR

[72] PASCAULT, JEAN-PIERRE, FR

[72] ROI MEIZOSO, LOUREIRO, ES

[72] PRENDES GONZALES, PILAR, ES

[72] PAZ ABUIN, SENEN, ES

[71] ROQUETTE FRERES, FR

[85] 2018-02-08

[86] 2016-08-08 (PCT/FR2016/052052)

[87] (WO2017/025687)

[30] FR (15 57712) 2015-08-13

[21] **2,995,164**  
[13] A1

[51] **Int.Cl. B29B 11/16 (2006.01) B29C 70/22 (2006.01) B29C 70/46 (2006.01) B29C 70/48 (2006.01)**

[25] FR

[54] **METHOD FOR MANUFACTURING A RING-SHAPED FRAME**

[54] **PROCEDE DE FABRICATION D'UN CADRE DE FORME ANNULAIRE**

[72] VALEMBOSIS, GUY, FR

[71] CONSEIL ET TECHNIQUE, FR

[85] 2018-02-08

[86] 2016-08-10 (PCT/FR2016/052060)

[87] (WO2017/029445)

[30] FR (1570023) 2015-08-14

[21] **2,995,314**  
[13] A1

[51] **Int.Cl. C07C 67/08 (2006.01) A61K 31/23 (2006.01) C07C 69/24 (2006.01) C07C 69/533 (2006.01) C11C 3/08 (2006.01)**

[25] EN

[54] **CETYLATED FATTY ACIDS, SYSTEM FOR THE PREPARATION THEREOF AND USE THEREOF**

[54] **ACIDES GRAS CETYLES, SYSTEME UTILISE POUR LEUR PREPARATION ET UTILISATION DESDITS ACIDES GRAS CETYLES**

[72] LACORTE, ANDREA, IT

[72] TARANTINO, GERMANO, IT

[72] BONDIOLI, PAOLO, IT

[71] PHARMANUTRA S.P.A., IT

[85] 2018-02-09

[86] 2016-08-09 (PCT/IB2016/054788)

[87] (WO2017/029580)

[30] IT (102015000044822) 2015-08-14

[21] **2,995,316**  
[13] A1

[51] **Int.Cl. B63B 35/34 (2006.01) H02S 20/00 (2014.01) B63B 35/58 (2006.01) B63B 38/00 (2006.01) E02B 3/06 (2006.01)**

[25] EN

[54] **FLOATING ELEMENT FOR REALIZING FLOATING STRUCTURES FOR SUPPORTING PHOTOVOLTAIC PANELS AND METHOD FOR PRODUCING SAID FLOATING ELEMENT**

[54] **ELEMENT FLOTTANT POUR REALISER DES STRUCTURES FLOTTANTES POUR SOUTENIR DES PANNEAUX PHOTOVOLTAIQUES ET PROCEDES DE PRODUCTION DUDIT ELEMENT FLOTTANT**

[72] SERAVALLI, LORIS, IT

[72] PAUSINI, SIMONE, IT

[71] NRG ENERGIA S.R.L., IT

[85] 2018-02-09

[86] 2016-08-12 (PCT/IB2016/054863)

[87] (WO2017/025932)

[30] IT (102015000044101) 2015-08-12

[21] **2,995,320**  
[13] A1

[51] **Int.Cl. A61M 27/00 (2006.01) A61M 39/28 (2006.01) F16K 7/00 (2006.01)**

[25] EN

[54] **PINCH VALVE FOR A URINARY DRAINAGE SYSTEM**

[54] **VANNE A MANCHON POUR SYSTEME DE DRAINAGE URINAIRE**

[72] LEE, SIU MAN, GB

[71] ROYAL UNITED HOSPITALS BATH NHS FOUNDATION TRUST, GB

[85] 2018-02-09

[86] 2016-08-02 (PCT/GB2016/052376)

[87] (WO2017/025715)

[30] GB (1514322.5) 2015-08-12

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[21] **2,995,323**  
[13] A1

[51] **Int.Cl. C10L 11/04 (2006.01)**  
[25] EN  
[54] **FIRELIGHTER**  
[54] **ALLUME-FEU**  
[72] VERNON, FREDRICK MICHAEL  
JOSEPH, IE  
[71] STANDARD BRANDS (UK)  
LIMITED, GB  
[85] 2018-02-09  
[86] 2016-08-08 (PCT/GB2016/052456)  
[87] (WO2017/025733)  
[30] GB (1514421.5) 2015-08-13

[21] **2,995,326**  
[13] A1

[51] **Int.Cl. G05B 13/04 (2006.01)**  
[25] FR  
[54] **SYSTEM FOR CONTROLLING A  
CONTROLLED PARAMETER**  
[54] **SYSTEME DE REGULATION D'UN  
PARAMETRE REGULE**  
[72] DJELASSI, CEDRIK, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-01-31  
[86] 2016-08-18 (PCT/FR2016/052090)  
[87] (WO2017/029456)  
[30] FR (1557808) 2015-08-19

[21] **2,995,327**  
[13] A1

[51] **Int.Cl. A22C 29/02 (2006.01) B08B  
3/02 (2006.01) B65G 15/12 (2006.01)  
B65G 43/00 (2006.01)**  
[25] EN  
[54] **CRAB SHELL STRIPPING  
APPARATUS FOR EASILY  
REMOVING GILLS**  
[54] **APPAREIL D'EXTRACTION DE  
CARAPACE DE CRABE  
PERMETTANT UN RETRAIT AISE  
DES BRANCHIES**  
[72] LIM, YOUNG HO, KR  
[71] LIM, YOUNG HO, KR  
[85] 2018-02-09  
[86] 2015-10-23 (PCT/KR2015/011293)  
[87] (WO2017/030235)  
[30] KR (10-2015-0117553) 2015-08-20

[21] **2,995,331**  
[13] A1

[51] **Int.Cl. C09K 21/10 (2006.01) A62D  
1/06 (2006.01) C06B 23/02 (2006.01)  
C06D 5/06 (2006.01)**  
[25] EN  
[54] **GAS-PRODUCING MATERIAL**  
[54] **MATERIAU PRODUCTEURS DE  
GAZ**  
[72] ALBERTELLI, ALDINO, IE  
[72] FRIEH, MICHAEL, IE  
[71] ACELL INDUSTRIES LIMITED, IE  
[85] 2018-02-09  
[86] 2016-08-10 (PCT/GB2016/052491)  
[87] (WO2017/025749)  
[30] GB (1514106.2) 2015-08-10

[21] **2,995,333**  
[13] A1

[51] **Int.Cl. C09K 21/10 (2006.01) A62D  
1/06 (2006.01)**  
[25] EN  
[54] **FLAME RETARDANT MATRIX**  
[54] **MATRICE IGNIFUGE**  
[72] ALBERTELLI, ALDINO, IE  
[72] FRIEH, MICHAEL, IE  
[71] ACELL INDUSTRIES LIMITED, IE  
[85] 2018-02-09  
[86] 2016-08-10 (PCT/GB2016/052492)  
[87] (WO2017/025750)  
[30] GB (1514107.0) 2015-08-10

[21] **2,995,343**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B  
5/0295 (2006.01) A61B 5/05 (2006.01)  
A61B 5/0408 (2006.01) A61B 5/08  
(2006.01) A61B 5/113 (2006.01)**  
[25] FR  
[54] **DEVICE AND METHOD FOR NON-  
INVASIVE MEASUREMENT OF  
SUBDIAPHRAGMATIC AORTIC  
FLOW IN A SMALL  
LABORATORY MAMMAL**  
[54] **DISPOSITIF ET PROCEDE DE  
MESURE NON-INVASIVE DU  
DEBIT AORTIQUE SOUS-  
DIAPHRAGMATIQUE CHEZ UN  
PETIT MAMMIFERE DE  
LABORATOIRE**  
[72] BACONNIER, PIERRE, FR  
[72] BOUCHER, FRANCOIS, FR  
[72] GUMERY, PIERRE-YVES, FR  
[71] UNIVERSITE GRENOBLE ALPES,  
FR  
[85] 2018-02-09  
[86] 2016-08-26 (PCT/FR2016/052130)  
[87] (WO2017/037369)  
[30] FR (1557992) 2015-08-28

[21] **2,995,345**  
[13] A1

[51] **Int.Cl. C03C 17/00 (2006.01) B60J  
1/00 (2006.01) B60J 1/02 (2006.01)  
C03C 17/42 (2006.01)**  
[25] FR  
[54] **TRANSPORT VEHICLE GLAZING  
WITH WATER REPELLENT AND  
ANTI-DUST COATING  
ASSOCIATED WITH A  
DETECTION DEVICE**  
[54] **VITRAGE DE VEHICULE DE  
TRANSPORT A REVETEMENT  
DEPERLANT ET ANTI-  
POUSSIERE ASSOCIE A UN  
APPAREIL DE DETECTION**  
[72] BRUDIEU, BARBARA, FR  
[72] GUILLEMOT, FRANCOIS, FR  
[72] TEISSEIRE, JEREMIE, FR  
[71] SAINT-GOBAIN GLASS FRANCE,  
FR  
[85] 2018-02-09  
[86] 2016-09-06 (PCT/FR2016/052208)  
[87] (WO2017/042469)  
[30] FR (1558264) 2015-09-07

[21] **2,995,349**  
[13] A1

[51] **Int.Cl. C08K 5/3415 (2006.01) B01D  
71/54 (2006.01) B01D 71/68 (2006.01)  
C08J 3/09 (2006.01) C08K 5/41  
(2006.01) C08L 75/04 (2006.01) C08L  
81/06 (2006.01) D06N 3/12 (2006.01)**  
[25] FR  
[54] **SOLVENT COMPOSITION  
COMPRISING A MIXTURE OF A  
MOLECULE HAVING A  
SULPHOXIDE FUNCTION AND A  
MOLECULE HAVING AN AMIDE  
FUNCTION**  
[54] **COMPOSITION DE SOLVANT(S)  
COMPRENANT UN MELANGE  
D'UNE MOLECULE AYANT UNE  
FONCTION SULFOXYDE ET  
D'UNE MOLECULE AYANT UNE  
FONCTION AMIDE**  
[72] SCHMITT, PAUL GUILLAUME, FR  
[71] ARKEMA FRANCE, FR  
[85] 2018-02-09  
[86] 2016-09-15 (PCT/FR2016/052337)  
[87] (WO2017/046533)  
[30] FR (1558600) 2015-09-15

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[51] <b>Int.Cl. G01N 33/38 (2006.01)</b> [25] EN [54] <b>METHOD AND DEVICE FOR DETERMINING THE TEMPERATURE AND HUMIDITY OF A BUILDING</b>	[51] <b>Int.Cl. F01K 25/06 (2006.01) F01K 21/04 (2006.01) F22B 1/14 (2006.01) F22B 1/18 (2006.01)</b> [25] EN [54] <b>THERMODYNAMIC ENGINE</b> [54] <b>MOTEUR THERMODYNAMIQUE</b>	[51] <b>Int.Cl. C10G 2/00 (2006.01) B01J 8/18 (2006.01)</b> [25] EN [54] <b>A METHOD OF OPERATING A SLURRY BUBBLE COLUMN REACTOR</b>
[54] <b>PROCEDE ET DISPOSITIF PERMETTANT DE DETERMINER LA TEMPERATURE ET L'HUMIDITE D'UN OUVRAGE</b>	[72] PEARCE, ALAN CHARLES, GB [72] WINTER, NATALIE ADELE, GB [72] FEW, SIMON, GB [71] GAS EXPANSION MOTORS LIMITED, GB	[54] <b>PROCEDE DE FONCTIONNEMENT D'UN REACTEUR A COLONNE DE BULLES POUR SUSPENSION EPAISSE</b>
[72] JILG, HELMUT, AT [72] PUCHEGGER, ALFRED, AT [71] PUCHEGGER U. JILG PARKETT GROSS U. EINZELHANDELS GES.M.B.H., NO [85] 2018-02-12 [86] 2016-08-11 (PCT/AT2016/060028) [87] (WO2017/024329) [30] AT (A 50718/2015) 2015-08-13	[85] 2018-02-12 [86] 2015-08-13 (PCT/GB2015/052344) [87] (WO2017/025700)	[72] BOOYSEN, WILLEM ADRIAAN, NL [72] OORTMAN, RUBEN, NL [71] SASOL TECHNOLOGY PROPRIETARY LIMITED, ZA [85] 2018-02-12 [86] 2016-08-10 (PCT/IB2016/054806) [87] (WO2017/029581) [30] ZA (2015/05974) 2015-08-19
[21] <b>2,995,401</b> [13] A1	[21] <b>2,995,428</b> [13] A1	[21] <b>2,995,433</b> [13] A1
[51] <b>Int.Cl. F23L 17/02 (2006.01) F23J 13/08 (2006.01) F23L 17/00 (2006.01)</b> [25] EN [54] <b>COMPACT SMOKE OR AIR DILUTER FOR HIGH-TEMPERATURE FLUE GAS AND CONTAMINATED AIR</b>	[51] <b>Int.Cl. F16B 11/00 (2006.01) H02G 3/00 (2006.01)</b> [25] EN [54] <b>ATTACHMENT BRACKET AND SUPPORT ASSEMBLY</b>	[51] <b>Int.Cl. C01B 32/184 (2017.01) C01B 32/182 (2017.01)</b> [25] EN [54] <b>METHOD AND DEVICE FOR PRODUCTION OF GRAPHENE OR GRAPHENE-LIKE MATERIALS</b>
[54] <b>DISPOSITIF COMPACT DE DILUTION DE FUMEE OU D'AIR POUR DU GAZ DE COMBUSTION A HAUTE TEMPERATURE ET DE L'AIR CONTAMINE</b>	[54] <b>ETRIER D'ATTACHEMENT ET ENSEMBLE DE SUPPORT</b>	[54] <b>PROCEDE ET DISPOSITIF DE FABRICATION DE GRAPHENE OU DE MATERIAUX SIMILAIRES AU GRAPHENE</b>
[72] BJORKKLUND, MORTEN ASGER NILSSON, DK [71] BJORKKLUND, MORTEN ASGER NILSSON, DK [85] 2018-02-12 [86] 2015-08-21 (PCT/DK2015/050247) [87] (WO2016/026501) [30] DK (PA 2014 00461) 2014-08-21	[72] GALLIEN, RENE, CA [72] DESHAIES, MARTIN, CA [71] BOMBARDIER INC., CA [85] 2018-02-12 [86] 2016-08-01 (PCT/IB2016/054622) [87] (WO2017/029569) [30] US (62/206,477) 2015-08-18	[72] MARQUES ABRANTES, VITOR EMANUEL, PT [72] REIS FIGUEIREDO, BRUNO, PT [72] FONSECA FERREIRA DA SILVA, RUI PEDRO, PT [71] GRAPHENEST, S.A., PT [85] 2018-02-12 [86] 2016-08-11 (PCT/IB2016/054848) [87] (WO2017/025926) [30] PT (108765) 2015-08-11
[21] <b>2,995,429</b> [13] A1	[21] <b>2,995,429</b> [13] A1	
[51] <b>Int.Cl. C12N 5/073 (2010.01) C12N 5/0775 (2010.01)</b> [25] EN [54] <b>STEM CELL COMPOSITIONS AND METHODS OF PRODUCING STEM CELLS FOR THERAPEUTIC APPLICATIONS</b>	[51] <b>Int.Cl. C12N 5/073 (2010.01) C12N 5/0775 (2010.01)</b> [25] EN [54] <b>STEM CELL COMPOSITIONS AND METHODS OF PRODUCING STEM CELLS FOR THERAPEUTIC APPLICATIONS</b>	
[54] <b>COMPOSITIONS DE CELLULES SOUCHES ET METHODES DE PRODUCTION DE CELLULES SOUCHES POUR APPLICATIONS THERAPEUTIQUES</b>	[54] <b>COMPOSITIONS DE CELLULES SOUCHES ET METHODES DE PRODUCTION DE CELLULES SOUCHES POUR APPLICATIONS THERAPEUTIQUES</b>	
[72] KERKIS, IRINA, BR [72] GLOZMAN, SABINA, IL [71] AVITA INTERNATIONAL LTD., VG [85] 2018-02-12 [86] 2015-08-14 (PCT/IB2015/056215) [87] (WO2016/024256) [30] US (62/037,600) 2014-08-14	[72] KERKIS, IRINA, BR [72] GLOZMAN, SABINA, IL [71] AVITA INTERNATIONAL LTD., VG [85] 2018-02-12 [86] 2015-08-14 (PCT/IB2015/056215) [87] (WO2016/024256) [30] US (62/037,600) 2014-08-14	

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[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) D21H 19/10 (2006.01) D21H 19/36 (2006.01) D21H 21/16 (2006.01)**

[25] EN

[54] **SURFACE SIZING OF DENSE FILMS**

[54] **COLLAGE EN SURFACE DE FILMS DENSES**

[72] HEISKANEN, ISTO, FI

[72] BACKFOLK, KAJ, FI

[72] SAUKKONEN, ESA, FI

[71] STORA ENSO OYJ, FI

[85] 2018-02-12

[86] 2016-09-16 (PCT/IB2016/055527)

[87] (WO2017/046751)

[30] SE (1551193-4) 2015-09-17

[21] **2,995,437**  
[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) D21H 17/22 (2006.01) D21H 17/24 (2006.01) D21H 17/28 (2006.01) D21H 17/31 (2006.01) D21H 17/32 (2006.01) D21H 21/10 (2006.01)**

[25] EN

[54] **A METHOD TO PRODUCE A FILM COMPRISING MICROFIBRILLATED CELLULOSE AND AN AMPHOTERIC POLYMER**

[54] **PROCEDE DE PRODUCTION DE FILM COMPRENANT DE LA CELLULOSE MICROFIBRILLEE ET UN POLYMERE AMPHOTERE**

[72] HEISKANEN, ISTO, FI

[72] BACKFOLK, KAJ, FI

[71] STORA ENSO OYJ, FI

[85] 2018-02-12

[86] 2016-09-16 (PCT/IB2016/055531)

[87] (WO2017/046754)

[30] SE (1551195-9) 2015-09-17

[21] **2,995,438**  
[13] A1

[51] **Int.Cl. A23G 9/38 (2006.01) A23G 9/46 (2006.01) A61K 8/64 (2006.01) A61K 38/16 (2006.01) A61K 47/42 (2017.01) C07K 14/37 (2006.01)**

[25] EN

[54] **SYNTHETIC MULTIPHASE SYSTEMS**

[54] **SYSTEMES DE SYNTHESE A PHASES MULTIPLES**

[72] MCPHEE, CAIT, GB

[72] STANLEY-WALL, NICOLA, GB

[72] BROMLEY, KEITH, GB

[72] MORRIS, RYAN, GB

[72] HOBLEY, LAURA, GB

[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB

[85] 2018-02-12

[86] 2015-08-18 (PCT/GB2015/052396)

[87] (WO2016/027078)

[30] GB (1414732.6) 2014-08-19

[30] GB (1511724.5) 2015-07-03

[21] **2,995,440**  
[13] A1

[51] **Int.Cl. F03D 1/04 (2006.01)**

[25] EN

[54] **TUNNEL WIND TURBINE WITH A HORIZONTAL AXIS OF THE ROTOR ROTATION**

[54] **EOLIENNE A TUNNEL AYANT UN AXE HORIZONTAL DE LA ROTATION DU ROTOR**

[72] STASZOR, ROMAN, PL

[71] STASZOR, ROMAN, PL

[85] 2018-02-12

[86] 2016-08-24 (PCT/PL2016/000090)

[87] (WO2017/034426)

[30] PL (P.413664) 2015-08-25

[21] **2,995,471**  
[13] A1

[51] **Int.Cl. C03C 17/36 (2006.01)**

[25] FR

[54] **GLAZING INCLUDING A STACK OF THIN LAYERS**

[54] **VITRAGE COMPRENANT UN EMPILEMENT DE COUCHES MINCES**

[72] CAILLET, XAVIER, FR

[72] KHARCHENKO, ANDRIY, FR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2018-02-12

[86] 2016-09-05 (PCT/FR2016/052198)

[87] (WO2017/042463)

[30] FR (1558308) 2015-09-08

[21] **2,995,476**  
[13] A1

[51] **Int.Cl. C03C 17/36 (2006.01)**

[25] FR

[54] **GLAZING COMPRISING A FUNCTIONAL COATING**

[54] **VITRAGE COMPRENANT UN REVETEMENT FONCTIONNEL**

[72] SINGH, LAURA, FR

[72] DODET, REMY, FR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2018-02-12

[86] 2016-09-05 (PCT/FR2016/052196)

[87] (WO2017/042462)

[30] FR (1558307) 2015-09-08

[21] **2,995,478**  
[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) B29D 7/01 (2006.01) B65D 65/46 (2006.01) C08J 5/18 (2006.01) D21H 21/20 (2006.01)**

[25] EN

[54] **A METHOD FOR PRODUCING A FILM HAVING GOOD BARRIER PROPERTIES**

[54] **PROCEDE DE PRODUCTION DE FILM AYANT DE BONNES PROPRIETES DE BARRIERE**

[72] HEISKANEN, ISTO, FI

[72] BACKFOLK, KAJ, FI

[72] SAUKKONEN, ESA, FI

[72] RUOHONIEMI, NINA, FI

[72] LYYTIKAINEN, KATJA, FI

[71] STORA ENSO OYJ, FI

[85] 2018-02-12

[86] 2016-09-16 (PCT/IB2016/055532)

[87] (WO2017/046755)

[30] SE (1551194-2) 2015-09-17

[21] **2,995,508**  
[13] A1

[51] **Int.Cl. A63B 43/00 (2006.01) A63B 43/02 (2006.01) A63B 69/00 (2006.01)**

[25] EN

[54] **A DEVICE FOR TRAINING AND REHABILITATION**

[54] **DISPOSITIF D'APPRENTISSAGE ET DE REEDUCATION**

[72] NIMRICHTER, VACLAV, CZ

[71] NIMRICHTER, VACLAV, CZ

[85] 2018-02-13

[86] 2016-08-31 (PCT/CZ2016/050032)

[87] (WO2017/036435)

[30] CZ (PUV 2015-31482) 2015-09-03

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[13] A1

[51] **Int.Cl. A47G 25/90 (2006.01)**  
[25] EN  
[54] **A PUTTING-ON AID FOR A SUPPORT STOCKING**  
[54] **ENFILE-BAS DESTINE A UN BAS DE CONTENTION**  
[72] HERZIG, GEORG, CH  
[71] HERZIG, GEORG, CH  
[85] 2018-02-13  
[86] 2016-08-26 (PCT/CH2016/000111)  
[87] (WO2017/031604)  
[30] CH (01236/15) 2015-08-27

[21] **2,995,515**  
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06Q 10/06 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR MOBILE VISITOR IDENTIFICATION AND SELECTIVELY ALLOWING AUTOMATED ELEVATOR USAGE TO THE DESTINATION SELECTED BY THE TENANT**  
[54] **METHODE ET SYSTEME D'IDENTIFICATION DE VISITEUR MOBILE ET D'ATTRIBUTION SELECTIVE D'UTILISATION AUTOMATISEE D'ASCENSEUR VERS LA DESTINATION SELECTIONNEE PAR LE LOCATAIRE**  
[72] LAAS, MADIS, EE  
[72] PAUM, PEEP, EE  
[72] EELTEE, HENRIK, EE  
[71] INDOOR.NINJA OU, EE  
[85] 2018-02-13  
[86] 2015-08-13 (PCT/EE2015/000006)  
[87] (WO2017/025106)

[21] **2,995,551**  
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 48/16 (2009.01)**  
[25] EN  
[54] **REDUCING COLLISIONS BETWEEN COMMUNICATION AND DISCOVERY RESOURCES**  
[54] **REDUCTION DES COLLISIONS ENTRE DES RESSOURCES DE COMMUNICATION ET DES RESSOURCES DE DECOUVERTE**  
[72] BELLESCHI, MARCO, SE  
[72] SORRENTINO, STEFANO, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2018-02-13  
[86] 2016-08-08 (PCT/IB2016/054773)  
[87] (WO2017/029577)  
[30] US (62/205,381) 2015-08-14

[21] **2,995,552**  
[13] A1

[51] **Int.Cl. A61K 31/616 (2006.01) A61K 9/70 (2006.01) A61K 31/70 (2006.01) A61K 47/40 (2006.01) A61P 31/16 (2006.01)**  
[25] EN  
[54] **COMPOSITION AND MEDICAL DEVICE COMPRISING ACETYLSALICYLIC ACID FOR THE TREATMENT OF HUMAN PAPILLOMA VIRUS SKIN INFECTIONS**  
[54] **COMPOSITION ET DISPOSITIF MEDICAL COMPRENANT DE L'ACIDE ACETYLSALICYLIQUE POUR LE TRAITEMENT D'INFECTIONS CUTANEEES PAR LE PAPILLOMAVIRUS HUMAIN**  
[72] POLI, ELENA, IT  
[71] POLI, ELENA, IT  
[71] POLI MD S.R.L., IT  
[85] 2018-02-13  
[86] 2016-09-05 (PCT/IB2016/055300)  
[87] (WO2017/037684)  
[30] IT (102015000048609) 2015-09-04  
[30] IT (102016000049308) 2016-05-13

[21] **2,995,553**  
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01)**  
[25] EN  
[54] **EPICARDIAL ACCESS SYSTEM & METHODS**  
[54] **SYSTEME ET PROCEDES D'ACCES EPICARDIQUE**  
[72] URBANSKI, JOHN PAUL, CA  
[72] MILLER, BROCK, CA  
[72] ABOU-MARIE, RUND, CA  
[71] BAYLIS MEDICAL COMPANY INC., CA  
[85] 2018-02-13  
[86] 2016-09-09 (PCT/IB2016/055404)  
[87] (WO2017/042743)  
[30] US (62/216,059) 2015-09-09

[21] **2,995,558**  
[13] A1

[51] **Int.Cl. B01D 1/06 (2006.01) B01D 3/12 (2006.01) B01D 3/14 (2006.01) C11C 1/10 (2006.01) C11C 3/00 (2006.01)**  
[25] EN  
[54] **PROCESS FOR OBTAINING FREE FATTY ACID AND/OR FATTY ACID ESTER**  
[54] **PROCEDE D'OBTENTION D'ACIDES GRAS LIBRES ET/OU D'ESTERS D'ACIDES GRAS**  
[72] KRUMBHOLZ, RUDOLF, DE  
[71] K.D. PHARMA BEXBACH GMBH, DE  
[85] 2018-02-13  
[86] 2015-07-06 (PCT/DE2015/100280)  
[87] (WO2017/005235)

[21] **2,995,560**  
[13] A1

[51] **Int.Cl. C13K 13/00 (2006.01) B01D 53/14 (2006.01) B01J 31/40 (2006.01) D21C 3/00 (2006.01) D21C 11/00 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE RECOVERY OF HYDROCHLORIC ACID**  
[54] **PROCEDE DE RECUPERATION D'ACIDE CHLORHYDRIQUE**  
[72] MCKAY, BENJAMIN, NL  
[72] VAN DER WAAL, JAN CORNELIS, NL  
[72] GRUTER, GERARDUS JOHANNES MARIA, NL  
[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL  
[85] 2018-02-13  
[86] 2016-08-29 (PCT/NL2016/050600)  
[87] (WO2017/039439)  
[30] NL (2015374) 2015-08-31



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[21] **2,995,565**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **SIGNALING OF IDC PROBLEMS**  
[54] **SIGNALISATION DE PROBLEMES IDC**  
[72] SUSITAIVAL, RIIKKA, FI  
[72] WIEMANN, HENNING, DE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2018-02-13  
[86] 2016-07-01 (PCT/SE2016/050679)  
[87] (WO2017/030480)  
[30] US (62/205,462) 2015-08-14

[21] **2,995,568**  
[13] A1

[51] **Int.Cl. A61B 50/00 (2016.01) A61B 50/30 (2016.01)**  
[25] EN  
[54] **SAFETY APPARATUS FOR USE IN A MEDICAL PROCEDURE**  
[54] **APPAREIL DE SECURITE DESTINE A ETRE UTILISE DANS UNE PROCEDURE MEDICALE**  
[72] YOUNG, PETER JEFFREY, GB  
[71] VENNER MEDICAL TECHNOLOGIES SA, GB  
[71] MARIYASELVAM, MARYANNE, GB  
[71] YOUNG, PETER JEFFREY, GB  
[85] 2018-02-13  
[86] 2016-08-16 (PCT/GB2016/052536)  
[87] (WO2017/029492)  
[30] GB (1514560.0) 2015-08-16  
[30] GB (1522150.0) 2015-12-15  
[30] GB (1522226.8) 2015-12-16

[21] **2,995,643**  
[13] A1

[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/77 (2006.01) C01D 7/00 (2006.01) C02F 1/00 (2006.01)**  
[25] EN  
[54] **PROCESS FOR CAPTURE OF CARBON DIOXIDE AND DESALINATION**  
[54] **PROCEDE DE CAPTURE DE DIOXYDE DE CARBONE ET DE DESSALEMENT**  
[72] EL-NAAS, MUFTAH, AE  
[71] UNITED ARAB EMIRATES UNIVERSITY, AE  
[71] ABU DHABI OIL REFINING COMPANY (TAKREER), AE  
[85] 2018-02-14  
[86] 2016-08-18 (PCT/GB2016/052560)  
[87] (WO2017/029509)  
[30] US (14/829,429) 2015-08-18

[21] **2,995,646**  
[13] A1

[51] **Int.Cl. B01J 8/22 (2006.01) B01D 53/14 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR CONTACTING GASES AND LIQUIDS**  
[54] **SYSTEME DE MISE EN CONTACT DE GAZ ET DE LIQUIDES**  
[72] EL-NAAS, MUFTAH, AE  
[71] UNITED ARAB EMIRATES UNIVERSITY, AE  
[71] ABU DHABI OIL REFINING COMPANY (TAKREER), AE  
[85] 2018-02-14  
[86] 2016-08-18 (PCT/GB2016/052561)  
[87] (WO2017/029510)  
[30] US (14/829,419) 2015-08-18

[21] **2,995,650**  
[13] A1

[51] **Int.Cl. A61K 8/46 (2006.01) A61K 8/02 (2006.01) A61K 8/92 (2006.01) A61Q 19/10 (2006.01)**  
[25] EN  
[54] **COLOURED SURFACTANT COMPOSITION**  
[54] **COMPOSITION DE TENSIOACTIF COLOREE**  
[72] CONSTANTINE, MARK, GB  
[72] CONSTANTINE, MARGARET JOAN, GB  
[72] AMBROSEN, HELEN ELIZABETH, GB  
[72] BIRD, ROWENA JACQUELINE, GB  
[71] COSMETIC WARRIORS LIMITED, GB  
[85] 2018-02-14  
[86] 2016-09-02 (PCT/GB2016/052709)  
[87] (WO2017/037464)  
[30] GB (1515734.0) 2015-09-04

[21] **2,995,655**  
[13] A1

[51] **Int.Cl. B23K 26/06 (2014.01) B23K 26/352 (2014.01) B23K 26/067 (2006.01) B23K 26/073 (2006.01) B23K 26/08 (2014.01) G02B 27/09 (2006.01) H01L 21/02 (2006.01) H01S 5/40 (2006.01)**  
[25] FR  
[54] **LASER APPARATUS COMPRISING A PLURALITY OF LASER MODULES, EACH GENERATING ONE LINE, THE LINES OVERLAPPING WITH AN OFFSET IN THE WIDTHWISE DIRECTION**  
[54] **APPAREIL LASER COMPRENANT PLUSIEURS MODULES LASER GENERANT CHACUN UNE LIGNE, LES LIGNES SE RECOUVRANT AVEC UN DECALAGE DANS LE SENS DE LA LARGEUR**  
[72] DUBOST, BRICE, FR  
[72] MIMOUN, EMMANUEL, FR  
[72] CANOVA, LORENZO, FR  
[72] DESBOEUF, NICOLAS, FR  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2018-02-14  
[86] 2016-08-23 (PCT/FR2016/052104)  
[87] (WO2017/032947)  
[30] FR (1557907) 2015-08-25

[21] **2,995,656**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) C12N 15/86 (2006.01)**  
[25] EN  
[54] **TREATMENT OF RETINITIS PIGMENTOSA**  
[54] **TRAITEMENT DE LA RETINITE PIGMENTAIRE**  
[72] MACLAREN, ROBERT, GB  
[72] FISCHER, DOMINIK, GB  
[71] OXFORD UNIVERSITY INNOVATION LIMITED, GB  
[85] 2018-02-14  
[86] 2016-09-09 (PCT/GB2016/052802)  
[87] (WO2017/042584)  
[30] GB (1516066.6) 2015-09-10

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[21] **2,995,659**  
[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61P 3/10 (2006.01)**  
[25] EN  
[54] **USE OF CHLORITE TO TREAT RED BLOOD CELL DISEASES AND INDICATIONS MEDIATED THEREBY**  
[54] **UTILISATION DE CHLORITE POUR TRAITER DES MALADIES DES GLOBULES ROUGES ET DES INDICATIONS A MEDIATION PAR CES DERNIERS**  
[72] MARAPRYGSAVAN, PAIBOON, TH  
[72] KUEHNE, FRIEDRICH-WILHELM, TH  
[71] OXO CHEMIE (THAILAND) CO., LTD, TH  
[71] MARAPRYGSAVAN, PAIBOON, TH  
[85] 2018-02-14  
[86] 2016-08-22 (PCT/IB2016/055011)  
[87] (WO2017/029648)  
[30] US (62/207,774) 2015-08-20

[21] **2,995,662**  
[13] A1

[51] **Int.Cl. C07D 257/04 (2006.01) A61K 31/41 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE PREPARATION OF A DUAL-ACTING ANGIOTENSIN RECEPTOR-NEPRILYSIN INHIBITOR COMPOUND**  
[54] **PROCEDE POUR LA PREPARATION D'UN COMPOSE A DOUBLE EFFET INHIBITEUR DE LA NEPRILYSINE-RECEPTEUR DE L'ANGIOTENSINE**  
[72] PARTHASARADHI REDDY, BANDI, IN  
[72] RATHNAKAR REDDY, KURA, IN  
[72] VENKAT NARSIMHA REDDY, ADULLA, IN  
[72] VAMSI KRISHNA, BANDI, IN  
[71] HETERO LABS LTD, IN  
[85] 2018-02-14  
[86] 2016-08-26 (PCT/IB2016/055097)  
[87] (WO2017/037591)  
[30] IN (4528/che/2015) 2015-08-28

[21] **2,995,663**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C07J 41/00 (2006.01) C07J 43/00 (2006.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **COMPOUNDS AND METHODS FOR TRANS-MEMBRANE DELIVERY OF MOLECULES**  
[54] **COMPOSES ET PROCEDES D'ADMINISTRATION TRANSMEMBRANAIRE DE MOLECULES**  
[72] ZIV, ILAN, IL  
[71] APOSENSE LTD., IL  
[85] 2018-02-14  
[86] 2016-08-17 (PCT/IL2016/050893)  
[87] (WO2017/029664)  
[30] US (14/830,799) 2015-08-20  
[30] US (14/872,179) 2015-10-01  
[30] US (14/985,526) 2015-12-31  
[30] US (15/057,813) 2016-03-01  
[30] US (15/164,344) 2016-05-25  
[30] US (15/222,559) 2016-07-28

[21] **2,995,675**  
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4439 (2006.01) A61K 31/497 (2006.01) C07D 403/04 (2006.01)**  
[25] EN  
[54] **HETEROARYL COMPOUNDS AND THEIR USE AS THERAPEUTIC DRUGS**  
[54] **COMPOSES HETEROARYLE ET LEUR UTILISATION COMME MEDICAMENTS THERAPEUTIQUES**  
[72] KIM, MYEONG-SEOP, KR  
[72] KIM, SUMIN, KR  
[72] KIM, JIN KWAN, KR  
[72] KIM, HADONG, KR  
[72] RYU, KI MOON, KR  
[72] PARK, SEONG JIN, KR  
[72] PARK, TAESUN, KR  
[72] SHEEN, JOON-HO, KR  
[72] YOON, TAEYOUNG, KR  
[72] JANG, MI YEON, KR  
[71] DONG-A SOCIO HOLDINGS CO., LTD., KR  
[85] 2018-02-14  
[86] 2016-08-31 (PCT/KR2016/009743)  
[87] (WO2017/039331)  
[30] US (62/212,520) 2015-08-31

[21] **2,995,677**  
[13] A1

[51] **Int.Cl. H04W 74/00 (2009.01) H04W 74/08 (2009.01)**  
[25] EN  
[54] **RANDOM ACCESS PROCEDURE FOR MTC OPERATION**  
[54] **PROCEDURE D'ACCES ALEATOIRE POUR FONCTIONNEMENT MTC**  
[72] BLANKENSHIP, YUFEI, US  
[72] BERGMAN, JOHAN, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2018-02-14  
[86] 2016-08-12 (PCT/SE2016/050750)  
[87] (WO2017/030485)  
[30] US (62/205,352) 2015-08-14

[21] **2,995,775**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 35/17 (2015.01) A61K 39/395 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **CELL**  
[54] **CELLULE**  
[72] PULE, MARTIN, GB  
[72] CORDOBA, SHAUN, GB  
[72] RIGHI, MATTEO, GB  
[72] SILLIBOURNE, JAMES, GB  
[71] AUTOLUS LIMITED, GB  
[85] 2018-02-15  
[86] 2016-08-19 (PCT/GB2016/052563)  
[87] (WO2017/029511)  
[30] GB (1514874.5) 2015-08-20

[21] **2,995,785**  
[13] A1

[51] **Int.Cl. C07K 14/46 (2006.01) A61K 38/00 (2006.01) A61K 48/00 (2006.01)**  
[25] EN  
[54] **CHIMERIC CYTOKINE RECEPTOR**  
[54] **RECEPTEURS DE CYTOKINES CHIMERIQUES**  
[72] PULE, MARTIN, GB  
[72] CORDOBA, SHAUN, GB  
[72] RIGHI, MATTEO, GB  
[72] SILLIBOURNE, JAMES, GB  
[72] ONUOHA, SHIMOBII, GB  
[72] THOMAS, SIMON, GB  
[71] AUTOLUS LIMITED, GB  
[85] 2018-02-15  
[86] 2016-08-19 (PCT/GB2016/052564)  
[87] (WO2017/029512)  
[30] GB (1514875.2) 2015-08-20

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[51] <b>Int.Cl. C07D 405/14 (2006.01) A61K 31/4545 (2006.01) A61P 31/18 (2006.01) C07D 213/55 (2006.01) C07D 405/04 (2006.01) C07D 487/04 (2006.01) C07D 491/052 (2006.01)</b>	[51] <b>Int.Cl. C07K 16/08 (2006.01)</b>	[51] <b>Int.Cl. A21B 3/07 (2006.01) A21B 7/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>PYRIDIN-3-YL ACETIC ACID DERIVATIVES AS INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION</b>	[54] <b>POLYOMAVIRUS NEUTRALIZING ANTIBODIES</b>	[54] <b>BAKE-OFF OVEN SYSTEM AND METHOD</b>
[54] <b>DERIVES DE L'ACIDE PYRIDIN-3-YL-ACETIQUE UTILISES COMME INHIBITEURS DE LA REPLICATION DU VIRUS DE L'IMMUNODEFICIENCE HUMAINE</b>	[54] <b>ANTICORPS DE NEUTRALISATION DU VIRUS DU POLYOME</b>	[54] <b>SYSTEME DE FOUR DE CUISSON ET PROCEDE</b>
[72] KADOW, JOHN F., US	[72] ABEND, JOHANNA, US	[72] VAN LOON, JOHANNES JOZEPHUS GERARDUS, NL
[72] NAIDU, B. NARASIMHULU, US	[72] DRAGIC, ZORICA, CH	[72] VERHOEVEN, EDWIN GERT JAN, NL
[72] TU, YONG, US	[72] FEIRE, ADAM LLOYD, US	[71] LEVENS COOKING & BAKING SYSTEMS B.V., NL
[71] <b>VIIV HEALTHCARE UK (NO.5) LIMITED, GB</b>	[72] KNAPP, MARK, US	[85] 2018-02-15
[85] 2018-02-15	[72] KOVACS, STEVEN, US	[86] 2016-08-17 (PCT/NL2016/050580)
[86] 2016-08-18 (PCT/IB2016/054944)	[72] TRAGGIAI, ELISABETTA, CH	[87] (WO2017/030440)
[87] (WO2017/029631)	[72] WANG, LICHUN, CN	[30] NL (2015311) 2015-08-17
[30] US (62/207,560) 2015-08-20	[72] WANG, YONGQIANG, CN	
	[72] WU, DANQING, CN	[21] <b>2,995,876</b> [13] A1
	[72] WU, QILONG, CN	[51] <b>Int.Cl. B65G 47/68 (2006.01)</b>
	[72] XU, FANGMIN, US	[25] FR
	[71] <b>NOVARTIS AG, CH</b>	[54] <b>COMPACT ALIGNMENT OF A FLOW</b>
	[85] 2018-02-15	[54] <b>ALIGNEMENT COMPACT D'UN FLUX</b>
	[86] 2016-09-08 (PCT/IB2016/055339)	[72] BERGER, JULIEN, FR
	[87] (WO2017/046676)	[71] <b>GEBO PACKAGING SOLUTIONS FRANCE, FR</b>
	[30] CN (PCT/CN2015/089764) 2015-09-16	[85] 2018-02-16
		[86] 2016-08-11 (PCT/FR2016/052070)
	[21] <b>2,995,800</b> [13] A1	[87] (WO2017/032942)
	[51] <b>Int.Cl. B05B 1/28 (2006.01) B65D 83/26 (2006.01)</b>	[30] FR (1557963) 2015-08-27
	[25] EN	
	[54] <b>MODIFIED SPRAY HEAD</b>	[21] <b>2,995,896</b> [13] A1
	[54] <b>TETE DE PULVERISATION MODIFIEE</b>	[51] <b>Int.Cl. A61K 9/20 (2006.01) A61K 31/519 (2006.01) A61K 31/5386 (2006.01) A61P 35/00 (2006.01)</b>
	[72] COLLINSON, NIKKI, GB	[25] EN
	[72] DAS, AVIJIT, GB	[54] <b>COMPOSITIONS COMPRISING TRICYCLIC HETEROCYCLIC COMPOUNDS</b>
	[72] RUDKIN, SCOTT, GB	[54] <b>COMPOSITIONS COMPRENANT DES COMPOSES HETEROCYCLIQUES</b>
	[72] SZKLARZ, ANNE RENEE JEANNE, GB	[72] SHUTTLEWORTH, STEPHEN JOSEPH, GB
	[72] WITTY, CHRISTOPHER, GB	[72] BONE, ELIZABETH ANN, GB
	[71] <b>RECKITT BENCKISER (BRANDS) LIMITED, GB</b>	[72] SILVA, FRANCK ALEXANDRE, GB
	[85] 2018-02-15	[72] CECIL, ALEXANDER RICHARD LIAM, GB
	[86] 2016-09-19 (PCT/GB2016/052920)	[71] <b>KARUS THERAPEUTICS LTD, GB</b>
	[87] (WO2017/046618)	[85] 2018-02-16
	[30] GB (1516549.1) 2015-09-18	[86] 2016-08-19 (PCT/GB2016/052577)
		[87] (WO2017/029518)
		[30] GB (1514758.0) 2015-08-19
[21] <b>2,995,794</b> [13] A1		
[51] <b>Int.Cl. A61K 31/65 (2006.01) A61K 9/00 (2006.01) A61K 45/06 (2006.01) A61P 17/00 (2006.01)</b>		
[25] EN		
[54] <b>TETRACYCLINE MANAGEMENT OF EGFR INHIBITOR ASSOCIATED DERMATOSES</b>		
[54] <b>PRISE EN CHARGE PAR LA TETRACYCLINE DES DERMATOSES ASSOCIEES A L'INHIBITEUR DE L'EGFR</b>		
[72] SHIRVAN, MITCHELL, IL		
[72] KEYNAN, RITA, IL		
[72] BERMAN, TAL, IL		
[72] SCHUZ, DAVID, IL		
[72] HAZOT, YOCHAN, IL		
[72] EINI, MEIR, IL		
[71] <b>FOAMIX PHARMACEUTICALS LTD., IL</b>		
[85] 2018-02-15		
[86] 2016-08-19 (PCT/IB2016/054989)		
[87] (WO2017/029647)		
[30] US (62/207,712) 2015-08-20		
[30] US (62/248,008) 2015-10-29		
[30] US (62/345,695) 2016-06-03		

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[21] **2,995,898**  
[13] A1

[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/519 (2006.01) A61K 31/5386 (2006.01) A61K 31/69 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING PHOSPHOINOSITIDE 3-KINASE INHIBITORS AND A SECOND ANTIPROLIFERATIVE AGENT**

[54] **COMPOSITIONS COMPRENANT DES INHIBITEURS DE LA PHOSPHOINOSITIDE 3-KINASE ET UN SECOND AGENT ANTIPROLIFERATIF**

[72] SHUTTLEWORTH, STEPHEN JOSEPH, GB

[72] WHALE, ANDREW DAVID, GB

[71] KARUS THERAPEUTICS LTD, GB

[85] 2018-02-16

[86] 2016-08-19 (PCT/GB2016/052575)

[87] (WO2017/029517)

[30] GB (1514760.6) 2015-08-19

[21] **2,995,902**  
[13] A1

[51] **Int.Cl. C07D 491/147 (2006.01) A61P 35/00 (2006.01) C07D 495/14 (2006.01)**

[25] EN

[54] **TRICYCLIC HETEROCYCLIC COMPOUNDS AS PHOSPHOINOSITIDE 3-KINASE INHIBITORS**

[54] **COMPOSES HETEROCYCLIQUES TRICYCLIQUES EN TANT QU'INHIBITEURS DE PHOSPHOINOSITIDE 3-KINASE**

[72] SHUTTLEWORTH, STEPHEN JOSEPH, GB

[72] SILVA, FRANCK ALEXANDRE, GB

[72] CECIL, ALEXANDER RICHARD LIAM, GB

[72] GATLAND, ALICE ELIZABETH, GB

[72] FINNEMORE, DANIEL JOHN, GB

[71] KARUS THERAPEUTICS LTD, GB

[85] 2018-02-16

[86] 2016-08-19 (PCT/GB2016/052578)

[87] (WO2017/029519)

[30] GB (1514751.5) 2015-08-19

[21] **2,995,909**  
[13] A1

[51] **Int.Cl. C07D 491/147 (2006.01) A61P 35/00 (2006.01) C07D 495/14 (2006.01)**

[25] EN

[54] **TRICYCLIC HETEROCYCLIC COMPOUNDS AS PHOSPHOINOSITIDE 3-KINASE INHIBITORS**

[54] **COMPOSES HETEROCYCLIQUES TRICYCLIQUES UTILISES EN TANT QU'INHIBITEURS DE LA PHOSPHOINOSITIDE 3-KINASE**

[72] SHUTTLEWORTH, STEPHEN JOSEPH, GB

[72] SILVA, FRANCK ALEXANDRE, GB

[72] CECIL, ALEXANDER RICHARD LIAM, GB

[72] ALEXANDER, RIKKI PETER, GB

[72] GATLAND, ALICE ELIZABETH, GB

[72] FINNEMORE, DANIEL JOHN, GB

[71] KARUS THERAPEUTICS LTD, GB

[85] 2018-02-16

[86] 2016-08-19 (PCT/GB2016/052581)

[87] (WO2017/029521)

[30] GB (1514754.9) 2015-08-19

[21] **2,995,924**  
[13] A1

[51] **Int.Cl. C08K 3/38 (2006.01) C08K 5/136 (2006.01) C08K 5/378 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL AND ANTIVIRAL COMPOSITE POLYMER SURFACES**

[54] **SURFACES POLYMERES COMPOSITES ANTIMICROBIENNES ET ANTIVIRALES**

[72] IYIGUNDOGDU, ZEYNEP, TR

[72] DEMIR, OKAN, TR

[72] SAHIN, FIKRETTIN, TR

[71] YEDITEPE UNIVERSITESI, TR

[85] 2018-02-16

[86] 2016-08-16 (PCT/TR2016/050290)

[87] (WO2017/044062)

[30] TR (2015/11205) 2015-09-09

[21] **2,995,927**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/496 (2006.01) A61P 25/18 (2006.01)**

[25] EN

[54] **USE OF CANNABINOIDS IN THE TREATMENT OF MENTAL DISORDERS**

[54] **UTILISATION DE CANNABINOIDES DANS LE TRAITEMENT DE TROUBLES MENTAUX**

[72] ROBSON, PHILIP, GB

[72] GUY, GEOFFREY, GB

[72] WRIGHT, STEPHEN, GB

[72] CHEETHAM, EMMA, GB

[72] SCHILLER, DOMINIC, GB

[71] GW PHARMA LIMITED, GB

[85] 2018-02-16

[86] 2016-09-08 (PCT/GB2016/052778)

[87] (WO2017/042567)

[30] GB (1515986.6) 2015-09-09

[21] **2,995,935**  
[13] A1

[51] **Int.Cl. B65D 19/34 (2006.01)**

[25] EN

[54] **PALLET MADE OF CORRUGATED PAPERBOARD**

[54] **PALETTE EN CARTON ONDULE**

[72] BERKES, MIHALY, HU

[71] BERKES, MIHALY, HU

[85] 2018-02-16

[86] 2016-09-02 (PCT/HU2016/000057)

[87] (WO2017/037483)

[30] HU (U 15 00147) 2015-09-04

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[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 9/00 (2006.01) A61K 31/433 (2006.01) A61K 31/4365 (2006.01) A61K 31/4402 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5386 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING A PI3K INHIBITOR AND AN HDAC INHIBITOR**

[54] **COMPOSITIONS COMPRENANT UN INHIBITEUR DE PI3K ET UN INHIBITEUR DE HDAC**

[72] SHUTTLEWORTH, STEPHEN JOSEPH, GB

[72] WHALE, ANDREW DAVID, GB

[71] KARUS THERAPEUTICS LTD, GB

[85] 2018-02-16

[86] 2016-08-19 (PCT/GB2016/052571)

[87] (WO2017/029514)

[30] GB (1514756.4) 2015-08-19

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[21] **2,996,016**  
[13] A1

[51] **Int.Cl. A01G 5/02 (2006.01)**

[25] FR

[54] **STATION FOR FORMING A ROUND BOUQUET AND BOUQUET-FORMING FACILITY COMPRISING A PLURALITY OF SUCH STATIONS**

[54] **POSTE DE CONFORMATION DE BOUQUET ROND ET INSTALLATION DE CONFORMATION DE BOUQUET COMPRENANT UNE PLURALITE DE TELS POSTES**

[72] SURRIRAY, LAURENT, FR

[71] MECAFLOR, FR

[85] 2018-02-19

[86] 2016-08-03 (PCT/FR2016/052020)

[87] (WO2017/032937)

[30] FR (1557882) 2015-08-24

[30] FR (1560322) 2015-10-28

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[21] **2,996,023**  
[13] A1

[51] **Int.Cl. G01V 3/06 (2006.01) G01V 3/17 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR DETERMINING EARTH'S NEAR-SURFACE PROPERTIES WITH ON-TIME MEASUREMENTS FROM AIRBORNE TIME-DOMAIN ELECTROMAGNETIC DATA**

[54] **APPAREIL ET PROCEDE POUR DETERMINER DES PROPRIETES PRES DE LA SURFACE DE LA TERRE AVEC DES MESURES DE TEMPS D'ACTIVITE A PARTIR DE DONNEES ELECTROMAGNETIQUES AEROPORTEES A DIMENSION TEMPORELLE**

[72] SMIAROWSKI, ADAM, FR

[72] HODGES, GREG, FR

[71] CGG SERVICES SAS, FR

[85] 2018-02-19

[86] 2016-08-31 (PCT/IB2016/001334)

[87] (WO2017/037536)

[30] US (62/213,122) 2015-09-02

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[21] **2,996,024**  
[13] A1

[51] **Int.Cl. B32B 37/24 (2006.01) B29C 43/48 (2006.01) B29C 70/50 (2006.01) B32B 37/00 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING FLOOR PANELS AND FLOOR PANEL FOR FORMING A FLOOR COVERING**

[54] **PROCEDE DE FABRICATION DE PANNEAUX DE PLANCHER ET PANNEAU DE PLANCHER POUR FORMER UN REVETEMENT DE PLANCHER**

[72] VAN VLASSENRODE, KRISTOF, BE

[72] BOSSUYT, FILIP, BE

[71] IVC, BVBA, BE

[85] 2018-02-19

[86] 2016-09-13 (PCT/IB2016/055434)

[87] (WO2017/046693)

[30] BE (BE2015/5572) 2015-09-14

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[21] **2,996,025**  
[13] A1

[51] **Int.Cl. C12P 13/02 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING SPHINGOID BASE OR SPHINGOLIPID**

[54] **PROCEDE DE PRODUCTION D'UNE BASE SPHINGOIDE OU DE SPHINGOLIPIDE**

[72] SCHWAB, MARKUS, DE

[72] WIRDNAM, CORINA DANIELA, CH

[72] TANGE, THOMAS OESTERGAARD, CH

[72] BABAU, MAUD, DK

[72] HATSCH, ANAELLE, FR

[72] DELEGRANGE, FANNY, FR

[72] FISCHER, DAVID, CH

[72] TAVARES, SABINA DE ANDRADE PEREIRA, CH

[71] AJINOMOTO CO., INC., JP

[71] EVOLVA SA, CH

[85] 2018-02-19

[86] 2016-08-24 (PCT/JP2016/003865)

[87] (WO2017/033463)

[30] US (62/208,932) 2015-08-24

[30] JP (2015-164685) 2015-08-24

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[21] **2,996,028**  
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 1/19 (2006.01) C12P 13/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PHYTOSPHINGOSINE OR SPHINGANINE**

[54] **PROCEDE DE PRODUCTION DE PHYTOSPHINGOSINE OU DE SPHINGANINE**

[72] SCHWAB, MARKUS, DE

[72] BABAU, MAUD, DK

[72] FISCHER, DAVID, CH

[72] HATSCH, ANAELLE, FR

[72] TAVARES, SABINA DE ANDRADE PEREIRA, CH

[72] NIELSEN, CURT AIME FRIIS, CH

[72] KLEIN, JENS, CH

[72] WIRDNAM, CORINA DANIELA, CH

[71] AJINOMOTO CO., INC., JP

[71] EVOLVA SA, CH

[85] 2018-02-19

[86] 2016-08-24 (PCT/JP2016/003866)

[87] (WO2017/033464)

[30] US (62/208,934) 2015-08-24

[30] JP (2015-164693) 2015-08-24

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[21] **2,996,056**  
[13] A1

[51] **Int.Cl. B01L 9/00 (2006.01)**  
[25] EN  
[54] **PIPETTE-TIP-ACCOMMODATING CONTAINER AND METHOD FOR PROVIDING THE SAME**  
[54] **RECIPIENT DE RECEPTION DE POINTES DE PIPETTES ET PROCEDE DE FOURNITURE CORRESPONDANT**  
[72] KOFLER, GEORG, AT  
[71] GREINER BIO-ONE GMBH, AT  
[85] 2018-02-20  
[86] 2016-08-18 (PCT/AT2016/060031)  
[87] (WO2017/031514)  
[30] AT (A 50732/2015) 2015-08-21

[21] **2,996,069**  
[13] A1

[51] **Int.Cl. G01H 7/00 (2006.01)**  
[25] FR  
[54] **METHOD AND SYSTEM FOR OBTAINING AT LEAST ONE ACOUSTIC PARAMETER OF AN ENVIRONMENT**  
[54] **PROCEDE ET SYSTEME D'OBTENTION D'AU MOINS UN PARAMETRE ACOUSTIQUE D'UN ENVIRONNEMENT**  
[72] DUBOST, BRICE, FR  
[72] SAUSSET, FRANCOIS, FR  
[71] SAINT-GOBAIN ISOVER, FR  
[71] SAINT-GOBAIN PLACO, FR  
[85] 2018-02-20  
[86] 2016-08-30 (PCT/FR2016/052144)  
[87] (WO2017/042451)  
[30] FR (1558318) 2015-09-08

[21] **2,996,082**  
[13] A1

[51] **Int.Cl. F16L 21/02 (2006.01) F16L 21/06 (2006.01) F16L 25/12 (2006.01) F16L 25/14 (2006.01)**  
[25] EN  
[54] **PIPE COUPLING INCLUDING A FOLDABLE SEAL FOR RANGE OF PIPE DIAMETERS**  
[54] **RACCORD DE TUYAU A JOINT D'ETANCHEITE PLIABLE POUR UNE PLAGE DE DIAMETRES DE TUYAU**  
[72] CHIPROOT, AVI, IL  
[71] ELIEZER KRAUSZ INDUSTRIAL DEVELOPMENT LTD., IL  
[85] 2018-02-20  
[86] 2016-08-19 (PCT/IB2016/054973)  
[87] (WO2017/033109)  
[30] US (14/833,254) 2015-08-24

[21] **2,996,088**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) C07K 1/16 (2006.01)**  
[25] EN  
[54] **BIOPHARMACEUTICAL COMPOSITIONS**  
[54] **COMPOSITIONS BIOPHARMACEUTIQUES**  
[72] MONCK, MYRNA A., US  
[72] BAM, NARENDRA B., US  
[72] DALLY, JENNIFER, US  
[72] SPATARA, MICHELLE, US  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB  
[85] 2018-02-20  
[86] 2016-08-22 (PCT/IB2016/055012)  
[87] (WO2017/033121)  
[30] US (62/209,000) 2015-08-24  
[30] US (62/240,131) 2015-10-12  
[30] US (62/247,906) 2015-10-29  
[30] US (62/249,497) 2015-11-02

[21] **2,996,089**  
[13] A1

[51] **Int.Cl. F24D 13/02 (2006.01) H05B 3/36 (2006.01) B63J 2/12 (2006.01)**  
[25] EN  
[54] **A HEATING MODULE AND METHOD OF MANUFACTURING THEREOF**  
[54] **MODULE DE CHAUFFAGE ET SON PROCEDE DE FABRICATION**  
[72] FORSBOM, JAN, FI  
[71] WENDA OY, FI  
[85] 2018-02-20  
[86] 2016-09-02 (PCT/FI2016/050611)  
[87] (WO2017/042431)  
[30] US (14/848,398) 2015-09-09

[21] **2,996,097**  
[13] A1

[51] **Int.Cl. B60N 2/50 (2006.01) B60N 2/52 (2006.01) B60N 2/54 (2006.01) B63B 29/04 (2006.01)**  
[25] EN  
[54] **A VEHICLE SEAT SUSPENSION MECHANISM**  
[54] **MECANISME DE SUSPENSION DE SIEGE DE VEHICULE**  
[72] KEMP, NICHOLAS, GB  
[72] DUNSFORD, MARK, GB  
[71] COBRA SEATS TECHNOLOGY LTD, GB  
[85] 2018-02-20  
[86] 2016-08-22 (PCT/GB2016/052603)  
[87] (WO2017/032997)  
[30] GB (1514951.1) 2015-08-21

[21] **2,996,102**  
[13] A1

[51] **Int.Cl. A01C 7/10 (2006.01) A01C 7/08 (2006.01)**  
[25] EN  
[54] **SEED COUNTING SENSOR AND METHOD FOR DETECTING BLOCKAGE OF A SEED CONVEYING PIPE**  
[54] **CAPTEUR DE COMPTAGE DE GRAINES ET PROCEDE PERMETTANT DE DETECTER LE BLOCAGE D'UN TUYAU DE TRANSPORT DE GRAINES**  
[72] KOROSI, GERGO, HU  
[72] CSATARI, TAMAS, HU  
[72] ERDEI, CSABA, HU  
[72] SILYE, JANOS, HU  
[71] DIGITROLL KFT., HU  
[85] 2018-02-20  
[86] 2016-08-22 (PCT/HU2016/050036)  
[87] (WO2017/033034)  
[30] EP (15462004.1) 2015-08-24

[21] **2,996,120**  
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) A61K 35/768 (2015.01) A61K 38/19 (2006.01) A61K 38/46 (2006.01) A61K 45/06 (2006.01) C07K 14/52 (2006.01) C07K 14/565 (2006.01) C12N 9/18 (2006.01)**  
[25] EN  
[54] **MODIFIED ONCOLYTIC VACCINIA VIRUSES EXPRESSING A CYTOKINE AND A CARBOXYLESTERASE AND METHODS OF USE THEREOF**  
[54] **VIRUS DE LA VACCINE ONCOLYTIQUES MODIFIES EXPRIMANT UNE CYTOKINE ET UNE CARBOXYESTERASE ET LEURS PROCEDES D'UTILISATION**  
[72] HWANG, TAE HO, KR  
[72] LEE, NAM HEE, KR  
[72] CHO, EUNA, KR  
[71] SILLAJEN, INC., KR  
[85] 2018-02-20  
[86] 2016-09-02 (PCT/KR2016/009866)  
[87] (WO2017/043815)  
[30] US (62/215,651) 2015-09-08

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[21] **2,996,124**  
[13] A1

[51] **Int.Cl. F03D 80/40 (2016.01) F03D 80/30 (2016.01)**  
[25] EN  
[54] **ARRANGEMENT FOR THE ICE-FREE MAINTENANCE AND DE-ICING OF A WIND TURBINE ROTOR BLADE**  
[54] **ENSEMBLE DE PROTECTION CONTRE LE GEL ET DE DEGIVRAGE POUR UNE PALE DE ROTOR D'EOLIENNE**  
[72] SPITZNER, JORG, DE  
[71] ADIOS PATENT GMBH, DE  
[85] 2018-02-20  
[86] 2016-08-15 (PCT/DE2016/100364)  
[87] (WO2017/028843)  
[30] DE (10 2015 113 763.1) 2015-08-19

[21] **2,996,227**  
[13] A1

[51] **Int.Cl. H01R 9/03 (2006.01) H01R 43/20 (2006.01) H01R 24/40 (2011.01) H01R 13/56 (2006.01)**  
[25] EN  
[54] **CABLE CONNECTOR HAVING A SHIELDING SLEEVE AND METHOD FOR PRODUCING THE SAME**  
[54] **CONNECTEUR DE CABLE ENFICHABLE COMPRENANT UNE DOUILLE DE BLINDAGE ET SON PROCEDE DE FABRICATION**  
[72] HENZLER, MAGNUS, DE  
[71] ERNI PRODUCTION GMBH & CO. KG, DE  
[85] 2018-02-21  
[86] 2016-08-17 (PCT/DE2016/100370)  
[87] (WO2017/032359)  
[30] DE (10 2015 114 040.3) 2015-08-24

[21] **2,996,228**  
[13] A1

[51] **Int.Cl. E21B 34/04 (2006.01) E21B 34/00 (2006.01) F16K 5/06 (2006.01)**  
[25] EN  
[54] **VALVE**  
[54] **CLAPET**  
[72] COWIE, GAVIN DAVID, GB  
[72] SANGSTER, JOHN DAVID, GB  
[71] INTERVENTEK SUBSEA ENGINEERING LIMITED, GB  
[85] 2018-02-21  
[86] 2016-07-29 (PCT/GB2016/052353)  
[87] (WO2017/032971)  
[30] GB (1515117.8) 2015-08-25

[21] **2,996,233**  
[13] A1

[51] **Int.Cl. C07D 491/16 (2006.01) A61K 31/4745 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 491/22 (2006.01)**  
[25] EN  
[54] **CONDENSED TRICYCLIC COMPOUNDS AS PROTEIN KINASE INHIBITORS**  
[54] **COMPOSES TRICYCLIQUES CONDENSES A TITRE D'INHIBITEURS DE PROTEINES KINASES**  
[72] PASTOR FERNANDEZ, JOAQUIN, ES  
[72] MARTINEZ GONZALEZ, SONIA, ES  
[72] BLANCO-APARICIO, CARMEN, ES  
[72] HERNANDEZ HIGUERAS, ANA ISABEL, ES  
[72] GOMEZ DE LA OLIVA, CRISTINA ANA, ES  
[72] RIVERO BUCETA, VIRGINIA, ES  
[72] RIESCO FAGUNDO, ROSARIO CONCEPCION, ES  
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES  
[85] 2018-02-21  
[86] 2016-08-25 (PCT/GB2016/052641)  
[87] (WO2017/033019)  
[30] EP (15382431.3) 2015-08-26

[21] **2,996,246**  
[13] A1

[51] **Int.Cl. A61F 5/058 (2006.01)**  
[25] EN  
[54] **CRANIAL REMOULDING ORTHOSIS AND METHOD OF MANUFACTURE THEREOF**  
[54] **ORTHESE DE REMODELAGE CRANIEN ET SON PROCEDE DE FABRICATION**  
[72] MOTTRAM, STEPHEN, GB  
[72] ROSICKY, JIRI, CZ  
[71] TECHNOLOGY IN MOTION LTD, GB  
[71] ING CORPORATION SPOL. S.R.O, CZ  
[85] 2018-02-21  
[86] 2016-09-06 (PCT/GB2016/052744)  
[87] (WO2017/042550)  
[30] GB (1515877.7) 2015-09-08

[21] **2,996,252**  
[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01) A61B 5/04 (2006.01)**  
[25] EN  
[54] **NEUROMODULATION DEVICE**  
[54] **DISPOSITIF DE NEUROMODULATION**  
[72] CARR, MICHAEL JOHN, US  
[72] HUNSBERGER, GERALD E., US  
[72] KWONG, KEVIN K., US  
[71] GALVANI BIOELECTRONICS LIMITED, GB  
[85] 2018-02-21  
[86] 2016-08-18 (PCT/IB2016/054957)  
[87] (WO2017/033101)  
[30] US (62/208,057) 2015-08-21

[21] **2,996,253**  
[13] A1

[51] **Int.Cl. B02C 2/04 (2006.01)**  
[25] EN  
[54] **ECCENTRIC ASSEMBLY FOR GYRATORY OR CONE CRUSHER**  
[54] **ENSEMBLE EXCENTRIQUE POUR BROYEUR GIRATOIRE OU A CONE**  
[72] NIKLEWSKI, ANDRZEJ, BR  
[72] BARSCEVICIUS, PAULO, BR  
[71] METSO MINERALS INDUSTRIES, INC., US  
[85] 2018-02-21  
[86] 2016-08-19 (PCT/IB2016/054964)  
[87] (WO2017/033103)  
[30] EP (15182030.5) 2015-08-21

[21] **2,996,254**  
[13] A1

[51] **Int.Cl. B02C 2/04 (2006.01) B02C 2/06 (2006.01)**  
[25] EN  
[54] **CRUSHER DEVICE COMPRISING AN OVERLOAD SAFETY DEVICE**  
[54] **DISPOSITIF DE BROYEUR COMPRENANT UN DISPOSITIF DE SECURITE CONTRE LES SURCHARGES**  
[72] NIKLEWSKI, ANDRZEJ, BR  
[72] BARSCEVICIUS, PAULO, BR  
[71] METSO MINERALS INDUSTRIES, INC., US  
[85] 2018-02-21  
[86] 2016-08-19 (PCT/IB2016/054966)  
[87] (WO2017/033104)  
[30] EP (15182028.9) 2015-08-21

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[21] **2,996,255**  
[13] A1

[51] **Int.Cl. B02C 2/04 (2006.01)**  
[25] EN  
[54] **ANTI-SPIN DUST SEAL FOR CONE AND GYRATORY CRUSHERS**  
[54] **JOINT D'ETANCHEITE VIS-A-VIS DE LA POUSSIERE ANTI-ROTATION POUR CONCASSEUR A CONE ET CONCASSEUR GIRATOIRE**  
[72] NIKLEWSKI, ANDRZEJ, BR  
[72] BARSCEVICIUS, PAULO, BR  
[71] METSO MINERALS INDUSTRIES, INC., US  
[85] 2018-02-21  
[86] 2016-08-19 (PCT/IB2016/054968)  
[87] (WO2017/033106)  
[30] EP (15182027.1) 2015-08-21

[21] **2,996,256**  
[13] A1

[51] **Int.Cl. E04B 1/26 (2006.01) E04B 7/02 (2006.01) F16B 15/00 (2006.01) E04C 3/02 (2006.01)**  
[25] EN  
[54] **HANGER FOR BRACING PANEL**  
[54] **DISPOSITIF DE SUSPENSION POUR PANNEAU DE RENFORT**  
[72] WERT, DAVID C., US  
[72] GANNON, GARY, US  
[72] O'REGAN, PHILIP, US  
[72] SORRILL, LEVI, US  
[72] GALINSKI, JOHN, US  
[71] MITEK HOLDINGS, INC., US  
[85] 2018-02-21  
[86] 2016-08-22 (PCT/IB2016/055008)  
[87] (WO2017/033120)  
[30] US (14/832,176) 2015-08-21

[21] **2,996,258**  
[13] A1

[51] **Int.Cl. C07D 257/02 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR THE PREPARATION OF XYLENE LINKED CYCLAM COMPOUNDS**  
[54] **PROCEDE DE PREPARATION DE COMPOSES DE CYCLAME LIES AU XYLENE**  
[72] SINGH, HEMANT KUMAR, IN  
[72] KUMAR, SANDEEP, IN  
[72] SONAVANE, GHANASHYAM MADHUKAR, IN  
[72] HANDA, VISHAL, IN  
[72] GUPTA, CHANDAN KUMAR, IN  
[72] SANGHANI, SUNIL, IN  
[72] SIVAI AH, POTRU, IN  
[72] LAHIRI, SASWATA, IN  
[72] CABRI, WALTER, IN  
[72] GUPTA, NITIN, IN  
[71] FRESENIUS KABI ONCOLOGY LTD., IN  
[85] 2018-02-21  
[86] 2016-09-01 (PCT/IB2016/055215)  
[87] (WO2017/037639)  
[30] IN (2758/DEL/2015) 2015-09-02

[21] **2,996,259**  
[13] A1

[51] **Int.Cl. G05B 19/401 (2006.01) B26D 5/00 (2006.01) B27B 1/00 (2006.01)**  
[25] EN  
[54] **METHOD OF OPTIMIZATION OF CUTTING OF FLAT PRODUCTS MADE OF NATURAL MATERIAL, MAINLY OF WOOD, AND SYSTEM FOR ITS REALIZATION**  
[54] **PROCEDE D'OPTIMISATION DE COUPE DE PRODUITS PLATS COMPOSES DE MATIERE NATURELLE, PRINCIPALEMENT DE BOIS, ET SYSTEME POUR SA REALISATION**  
[72] SCHMERINGA, PETER, SK  
[71] BIATEC LASER TECHNOLOGY S. R. O., SK  
[85] 2018-02-21  
[86] 2016-08-25 (PCT/IB2016/055080)  
[87] (WO2017/033148)  
[30] SK (PP 50044-2015) 2015-08-25

[21] **2,996,261**  
[13] A1

[51] **Int.Cl. A01K 1/12 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MILKING A GROUP OF DAIRY ANIMALS**  
[54] **SYSTEME ET PROCEDE DE TRAITE D'UN GROUPE D'ANIMAUX LAITIERS**  
[72] VAN DEN BERG, KAREL, NL  
[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL  
[72] WISSE, DIK-JAN, NL  
[71] LELY PATENT N.V., NL  
[85] 2018-02-21  
[86] 2016-07-19 (PCT/NL2016/050533)  
[87] (WO2017/034392)  
[30] NL (2015334) 2015-08-24

[21] **2,996,262**  
[13] A1

[51] **Int.Cl. A01K 1/06 (2006.01) A01K 1/12 (2006.01) A01K 7/02 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR MILKING A GROUP OF DAIRY ANIMALS**  
[54] **SYSTEME DE TRAITE D'UN GROUPE D'ANIMAUX LAITIERS**  
[72] VAN DEN BERG, KAREL, NL  
[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL  
[72] WISSE, DIK-JAN, NL  
[71] LELY PATENT N.V., NL  
[85] 2018-02-21  
[86] 2016-07-19 (PCT/NL2016/050534)  
[87] (WO2017/034393)  
[30] NL (2015335) 2015-08-24



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[21] **2,996,263**  
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4427 (2006.01) A61K 31/506 (2006.01) A61P 29/00 (2006.01) C07D 405/12 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **SULFONAMIDE COMPOUNDS AS VOLTAGE-GATED SODIUM CHANNEL MODULATORS**

[54] **COMPOSES DE SULFONAMIDE A TITRE DE MODULATEURS DES CANAUX SODIQUES VOLTAGE-DEPENDANTS**

[72] RAMDAS, VIDYA, IN

[72] LORIYA, RAJESHKUMAR MAGANLAL, IN

[72] BANERJEE, MOLOY, IN

[72] PATIL, PRADEEP RANGRAO, IN

[72] JOSHI, ADVAIT ARUN, IN

[72] DATRANGE, LAXMIKANT SHAMLAL, IN

[72] WALKE, DEEPAK SAHEBRAO, IN

[72] KHAN, TALHA HUSSAIN, IN

[72] DAS, AMIT KUMAR, IN

[72] GOTE, GANESH NAVINCHANDRA, IN

[72] KALHAPURE, VAIBHAV MADHUKAR, IN

[72] PALLE, VENKATA P., IN

[72] KAMBOJ, RAJENDER KUMAR, IN

[71] LUPIN LIMITED, IN

[85] 2018-02-21

[86] 2016-09-03 (PCT/IB2016/055291)

[87] (WO2017/037682)

[30] IN (3420/MUM/2015) 2015-09-04

[30] IN (201621011342) 2016-03-31

[21] **2,996,264**  
[13] A1

[51] **Int.Cl. A01K 1/06 (2006.01) A01K 1/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MILKING A GROUP OF MILKING ANIMALS**

[54] **SYSTEME ET PROCEDE POUR LA TRAITE D'UN GROUPE D'ANIMAUX LAITIERS**

[72] VAN DEN BERG, KAREL, NL

[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL

[72] WISSE, DIK-JAN, NL

[71] LELY PATENT N.V., NL

[85] 2018-02-21

[86] 2016-07-19 (PCT/NL2016/050535)

[87] (WO2017/034394)

[30] NL (2015336) 2015-08-24

[21] **2,996,265**  
[13] A1

[51] **Int.Cl. A01K 1/12 (2006.01) A01J 5/00 (2006.01) A01J 5/017 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MILKING A GROUP OF MILKING ANIMALS**

[54] **SYSTEME ET PROCEDE DE TRAITE D'UN GROUPE D'ANIMAUX LAITIERS**

[72] VAN DEN BERG, KAREL, NL

[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL

[72] WISSE, DIK-JAN, NL

[71] LELY PATENT N.V., NL

[85] 2018-02-21

[86] 2016-07-19 (PCT/NL2016/050537)

[87] (WO2017/034396)

[30] NL (2015338) 2015-08-24

[21] **2,996,266**  
[13] A1

[51] **Int.Cl. A01J 5/017 (2006.01)**

[25] EN

[54] **MILKING ROBOT WITH CYLINDER SYSTEM**

[54] **ROBOT DE TRAITE AVEC DISPOSITIF DE CYLINDRE**

[72] KRAAIJ, DIRK, NL

[72] MOSTERT, GERARD, NL

[72] BREVET, MICHIEL, NL

[71] LELY PATENT N.V., NL

[85] 2018-02-21

[86] 2016-08-02 (PCT/NL2016/050566)

[87] (WO2017/034398)

[30] NL (2015356) 2015-08-27

[21] **2,996,268**  
[13] A1

[51] **Int.Cl. A21D 2/00 (2006.01) A21D 13/00 (2017.01)**

[25] EN

[54] **NOVEL FOOD PRODUCT AND METHOD OF USE**

[54] **PRODUIT ALIMENTAIRE INNOVANT ET PROCEDE D'UTILISATION**

[72] JOHNSON, PETER STUART, NZ

[72] LEE, SUNG JE, NZ

[72] ALTALHI, ARWA SALEH D, NZ

[71] JOHNSON, PETER STUART, NZ

[85] 2018-02-21

[86] 2015-08-27 (PCT/NZ2015/050122)

[87] (WO2016/032346)

[30] NZ (629773) 2014-08-29

[21] **2,996,273**  
[13] A1

[51] **Int.Cl. B65D 5/42 (2006.01) B65D 65/40 (2006.01)**

[25] EN

[54] **VENTILATION BOARDS AND METHODS FOR MANUFACTURING VENTILATION BOARD**

[54] **PANNEAUX DE VENTILATION ET PROCEDES DE FABRICATION DE PANNEAUX DE VENTILATION**

[72] MEHTA, VINAY K., IN

[71] MEHTA, VINAY K., IN

[85] 2018-02-21

[86] 2016-08-24 (PCT/IN2016/050282)

[87] (WO2017/033210)

[30] IN (3222/MUM/2015) 2015-08-24

[21] **2,996,291**  
[13] A1

[51] **Int.Cl. B32B 27/32 (2006.01) B32B 1/08 (2006.01) B32B 25/14 (2006.01)**

[25] EN

[54] **MULTILAYER FILMS AND METHODS THEREOF**

[54] **FILMS MULTICOUCHES ET PROCEDES ASSOCIES**

[72] LEE, JONG YOUNG, US

[72] KARJALA, TERESA P., US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2018-02-21

[86] 2016-08-10 (PCT/US2016/046248)

[87] (WO2017/039986)

[30] US (62/212,161) 2015-08-31

[21] **2,996,368**  
[13] A1

[51] **Int.Cl. G09F 3/20 (2006.01) H01R 12/78 (2011.01) H01R 25/14 (2006.01)**

[25] EN

[54] **CONNECTOR SYSTEM**

[54] **SYSTEME DE CONNECTEUR**

[72] PAGANO, IAN, GB

[72] KAY, NICOLA, GB

[72] DAVIES, GRAHAM, GB

[72] BROWN, CHRIS, GB

[71] SFD SYSTEMS LIMITED, GB

[85] 2018-02-22

[86] 2016-08-24 (PCT/GB2016/052627)

[87] (WO2017/033010)

[30] GB (1515029.5) 2015-08-24

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[21] **2,996,373**  
[13] A1

[51] **Int.Cl. F26B 3/347 (2006.01) F26B 25/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DRYING EXTRUDED HONEYCOMB BODIES**

[54] **SYSTEME ET PROCEDE DE SECHAGE DE CORPS EXTRUDE EN NID-D'ABEILLES**

[72] DOTZEL, RALF, DE  
[72] FISCHER, WALTER, DE  
[72] LEPPELT, RAINER, DE  
[72] MUNCH, JORG WERNER, DE  
[72] ZAPF, THOMAS, DE  
[72] SCHOENE, THOMAS, DE  
[72] HIRSCHMANN, THOMAS, DE  
[72] PROSKE, THOMAS, DE  
[71] JOHNSON MATTHEY CATALYSTS (GERMANY) GMBH, DE  
[85] 2018-02-22  
[86] 2016-08-31 (PCT/GB2016/052695)  
[87] (WO2017/037452)  
[30] DE (10 2015 216 647.3) 2015-08-31

[21] **2,996,375**  
[13] A1

[51] **Int.Cl. G09B 23/28 (2006.01) G09B 23/34 (2006.01)**

[25] EN

[54] **ANIMAL DENTISTRY TRAINING APPARATUS**

[54] **APPAREIL DE FORMATION POUR DENTISTERIE VETERINAIRE**

[72] BENNETT, MARIE-LOUISE AMANDA, GB  
[71] MARS, INCORPORATED, US  
[85] 2018-02-22  
[86] 2016-09-02 (PCT/GB2016/052721)  
[87] (WO2017/037474)  
[30] GB (1515722.5) 2015-09-04

[21] **2,996,388**  
[13] A1

[51] **Int.Cl. B63J 99/00 (2009.01) G06F 9/54 (2006.01)**

[25] EN

[54] **GOING ON LOCATION FEASIBILITY TAKING INTO ACCOUNT OFF-SHORE OCEAN CONDITIONS**

[54] **FAISABILITE DE DEPLACEMENT TENANT COMPTE DES CONDITIONS OCEANIQUES HAUTURIERES**

[72] MELKOWITS, MASON COREY, US  
[72] GRASSO, BARTON D., US  
[72] STRACHAN, FRANK, US  
[72] VAZQUEZ, JOSE H., US  
[71] ENSCO SERVICES LIMITED, GB  
[85] 2018-02-22  
[86] 2016-08-25 (PCT/IB2016/055083)  
[87] (WO2017/033149)  
[30] US (62/209,407) 2015-08-25  
[30] US (15/218,935) 2016-07-25  
[30] US (15/246,280) 2016-08-24

[21] **2,996,389**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4375 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61P 11/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 207/273 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 491/18 (2006.01)**

[25] EN

[54] **BICYCLIC-FUSED HETEROARYL OR ARYL COMPOUNDS AS IRAK4 MODULATORS**

[54] **COMPOSES HETEROARYLE OU ARYLE BICYCLIQUES FUSIONNES EN TANT QUE MODULATEURS D'IRAK 4**

[72] LEE, KATHERINE LIN, US  
[72] ALLAIS, CHRISTOPHE PHILIPPE, US  
[72] DEHNHARDT, CHRISTOPH MARTIN, CA  
[72] GAVRIN, LORI KRIM, US  
[72] HAN, SEUNGIL, US  
[72] HEPWORTH, DAVID, US  
[72] LEE, ARTHUR, US  
[72] LOVERING, FRANK ELDRIDGE, US  
[72] MATHIAS, JOHN PAUL, US  
[72] OWEN, DAFYDD RHYS, US  
[72] PAPAIOANNOU, NIKOLAOS, US  
[72] SAIAH, EDDINE, US  
[72] STROHBACH, JOSEPH WALTER, US  
[72] TRZUPEK, JOHN DAVID, US  
[72] WRIGHT, STEPHEN WAYNE, US  
[72] ZAPF, CHRISTOPH WOLFGANG, US  
[71] PFIZER INC., US  
[85] 2018-02-22  
[86] 2016-08-16 (PCT/IB2016/054906)  
[87] (WO2017/033093)  
[30] US (62/210,573) 2015-08-27

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[21] **2,996,391**  
[13] A1

[51] **Int.Cl. F24F 13/28 (2006.01) A01G 7/00 (2006.01) A01G 9/02 (2018.01) A01G 9/24 (2006.01) F24F 1/00 (2011.01) F24F 3/16 (2006.01) F24F 5/00 (2006.01) F24F 7/00 (2006.01)**

[25] EN

[54] **MODULE OF VENTILATION AND BIOLOGICAL PURIFICATION OF INTERNAL AND EXTERNAL AIR TO AN ENVIRONMENT, AND RELEVANT METHOD**

[54] **MODULE DE VENTILATION ET DE PURIFICATION BIOLOGIQUE DE L'AIR INTERIEUR ET EXTERIEUR D'UN ENVIRONNEMENT, ET PROCEDE ASSOCIE**

[72] DE PAOLI, ORIO, IT  
[72] SIMONETTI, MARCO, IT  
[72] MORRA, ANGELICA, IT  
[72] NOVARA, MONICA, IT  
[71] POLITECNICO DI TORINO, IT  
[85] 2018-02-22  
[86] 2016-08-31 (PCT/IB2016/055195)  
[87] (WO2017/042664)  
[30] IT (UB2015A003572) 2015-09-11

[21] **2,996,394**  
[13] A1

[51] **Int.Cl. B01D 46/00 (2006.01)**

[25] EN

[54] **PAINTING BOOTH WITH CHANGE FILTER SYSTEM**

[54] **CABINE DE PEINTURE POUR VUE D'UN SYSTEME DE FILTRE DE CHANGEMENT**

[72] COVIZZI, GIAMPAOLO, IT  
[72] COLOMBAROLI, PAOLO, IT  
[71] GEICO SPA, IT  
[85] 2018-02-22  
[86] 2016-09-01 (PCT/IB2016/055226)  
[87] (WO2017/037644)  
[30] IT (102015000047636) 2015-09-01

[21] **2,996,400**  
[13] A1

[51] **Int.Cl. B60W 50/08 (2012.01) B60W 50/14 (2012.01) G08G 1/0967 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DRIVING ASSISTANCE ALONG A PATH**

[54] **SYSTEME ET PROCEDE POUR ASSISTANCE A LA CONDUITE LE LONG D'UNE TRAJECTOIRE**

[72] GUPTA, MANISH, IN  
[72] SASTRY, RAMESHA CHELUR RAMACHANDRA, IN  
[72] CHINTALAPOODI, PRAMOD, US  
[72] TANAKA, SHO, JP  
[71] SONY CORPORATION, JP  
[85] 2018-02-22  
[86] 2016-08-26 (PCT/JP2016/003887)  
[87] (WO2017/043032)  
[30] US (14/851,231) 2015-09-11

[21] **2,996,401**  
[13] A1

[51] **Int.Cl. G08G 1/16 (2006.01) B60Q 1/00 (2006.01) B60Q 9/00 (2006.01) B60R 1/12 (2006.01) B60R 11/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO PROVIDE DRIVING ASSISTANCE**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'ASSISTANCE A LA CONDUITE**

[72] GUPTA, MANISH, IN  
[72] CHINTALAPOODI, PRAMOD, US  
[72] TANAKA, SHO, JP  
[71] SONY CORPORATION, JP  
[85] 2018-02-22  
[86] 2016-08-26 (PCT/JP2016/003901)  
[87] (WO2017/043033)  
[30] US (14/851,201) 2015-09-11

[21] **2,996,402**  
[13] A1

[51] **Int.Cl. B62D 15/02 (2006.01) G06Q 20/32 (2012.01) G08G 1/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROVIDING DRIVING ASSISTANCE TO SAFELY OVERTAKE A VEHICLE**

[54] **SYSTEME ET PROCEDE POUR FOURNIR UNE ASSISTANCE A LA CONDUITE POUR DEPASSER SANS DANGER UN VEHICULE**

[72] GUPTA, MANISH, IN  
[72] SASTRY, RAMESHA CHELUR RAMACHANDRA, IN  
[72] CHINTALAPOODI, PRAMOD, US  
[72] TANAKA, SHO, JP  
[71] SONY CORPORATION, JP  
[85] 2018-02-22  
[86] 2016-09-05 (PCT/JP2016/004040)  
[87] (WO2017/047038)  
[30] US (14/856,737) 2015-09-17

[21] **2,996,406**  
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/5513 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01) C07D 409/12 (2006.01) C07D 409/14 (2006.01)**

[25] EN

[54] **PIPERIDINOBENZODIAZEPINE COMPOUNDS WITH ANTI PROLIFERATIVE ACTIVITY**

[54] **COMPOSES DE PIPERIDINOBENZODIAZEPINE AYANT UNE ACTIVITE ANTI-PROLIFERATIVE**

[72] JACKSON, PAUL JOSEPH MARK, GB  
[72] THURSTON, DAVID EDWIN, GB  
[72] RAHMAN, KHONDAKER MIRAZUR, GB  
[71] FEMTOGENIX LIMITED, GB  
[85] 2018-02-15  
[86] 2016-08-19 (PCT/GB2016/052565)  
[87] (WO2017/032983)  
[30] GB (1514928.9) 2015-08-21

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[21] **2,996,436**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **SIALYL-DI-LEWIS A AS EXPRESSED ON GLYCOPROTEINS BUT NOT GLYCOLIPIDS AS A FUNCTIONAL CANCER TARGET AND ANTIBODIES THERETO**

[54] **FORME SIALYLEE DU DI-LEWIS A TELLE QU'ELLE EST EXPRIMEE SUR DES GLYCOPROTEINES MAIS PAS SUR LES GLYCOLIPIDES A TITRE DE CIBLE CANCEREUSE FONCTIONNELLE ET ANTICORPS DIRIGE CONTRE CELLE-CI**

[72] DURRANT, LINDY GILLIAN, GB  
[72] VANKEMMELBEKE, MIREILLE, GB  
[72] TIVADAR, SILVANA, GB  
[72] PARSONS, TINA, GB  
[72] MCINTOSH, RICHARD, GB  
[71] THE UNIVERSITY OF NOTTINGHAM, GB

[85] 2018-02-23  
[86] 2016-08-25 (PCT/GB2016/052647)  
[87] (WO2017/033020)  
[30] GB (1515094.9) 2015-08-25

[21] **2,996,442**  
[13] A1

[51] **Int.Cl. B01D 46/00 (2006.01)**

[25] EN

[54] **PAINTING BOOTH WITH AUTOMATIC FILTER SYSTEM**

[54] **CABINE DE PEINTURE DOTEE D'UN SYSTEME DE FILTRE AUTOMATIQUE**

[72] COVIZZI, GIAMPAOLO, IT  
[72] COLOMBAROLI, PAOLO, IT  
[71] GEICO SPA, IT

[85] 2018-02-22  
[86] 2016-09-01 (PCT/IB2016/055225)  
[87] (WO2017/037643)  
[30] IT (102015000047669) 2015-09-01

[21] **2,996,446**  
[13] A1

[51] **Int.Cl. C12N 15/77 (2006.01) C12P 13/06 (2006.01)**

[25] EN

[54] **MICROORGANISM PRODUCING L-LEUCINE AND METHOD FOR PRODUCING L-LEUCINE USING THE SAME**

[54] **MICRO-ORGANISME PRODUISANT DE LA L-LEUCINE; ET PROCEDE DE PREPARATION DE L-LEUCINE UTILISANT CELUI-CI**

[72] SONG, BYEONG CHEOL, KR  
[72] LEE, JI HYE, KR  
[72] JEON, AE JI, KR  
[72] KIM, JONG HYUN, KR  
[72] KIM, HYE WON, KR  
[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2018-02-22  
[86] 2016-08-25 (PCT/KR2016/009438)  
[87] (WO2017/034343)  
[30] KR (10-2015-0119785) 2015-08-25

[21] **2,996,454**  
[13] A1

[51] **Int.Cl. F16J 15/44 (2006.01) F01D 11/02 (2006.01) F01D 11/12 (2006.01) F16J 15/447 (2006.01)**

[25] EN

[54] **TURBINE OF A GAS TURBINE ENGINE COMPRISING A LABYRINTH SEAL ELEMENT**

[54] **TURBINE DE MOTEUR A TURBINE A GAZ COMPRENANT UN ELEMENT DE JOINT D'ETANCHEITE A LABYRINTHE**

[72] MASSOT, AURELIEN RENE-PIERRE, FR  
[72] SCHWARTZ, ERIC, FR  
[72] SCHWEBLEN, WILFRIED LIONEL, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR

[85] 2018-02-23  
[86] 2016-09-02 (PCT/FR2016/052171)  
[87] (WO2017/037394)  
[30] FR (1558118) 2015-09-02

[21] **2,996,457**  
[13] A1

[51] **Int.Cl. B64C 27/00 (2006.01) B64C 15/14 (2006.01) B64C 27/06 (2006.01) B64C 29/00 (2006.01)**

[25] EN

[54] **HELICOPTER EQUIPPED WITH A DEVICE FOR EMERGENCY LIFT ASSISTANCE**

[54] **HELICOPTERE EQUIPE D'UN DISPOSITIF D'ASSISTANCE D'URGENCE A LA SUSTENTATION**

[72] SEINTURIER, ERIC PIERRE, FR  
[72] THIRIET, ROMAIN, FR  
[72] MERCIER-CALVAIRAC, FABIEN, FR  
[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2018-02-23  
[86] 2016-09-02 (PCT/FR2016/052182)  
[87] (WO2017/037401)  
[30] FR (1558230) 2015-09-04

[21] **2,996,471**  
[13] A1

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/005 (2006.01) A63B 21/062 (2006.01) A63B 24/00 (2006.01)**

[25] EN

[54] **WEIGHTS SYSTEM**

[54] **SYSTEME DE POIDS**

[72] LACEY, RAYMOND, GB  
[71] FLAK LIMITED, AF

[85] 2018-02-23  
[86] 2016-08-04 (PCT/GB2016/052396)  
[87] (WO2017/037411)  
[30] GB (1515323.2) 2015-08-28

[21] **2,996,472**  
[13] A1

[51] **Int.Cl. B29C 70/38 (2006.01)**

[25] EN

[54] **LAY-UP HEAD**

[54] **TETE DE DRAPAGE**

[72] TINGLE, JAMES, GB  
[71] COMPOSITE TECHNOLOGY AND APPLICATIONS LIMITED, GB

[85] 2018-02-23  
[86] 2016-08-31 (PCT/GB2016/052687)  
[87] (WO2017/037446)  
[30] US (62/213,912) 2015-09-03  
[30] GB (1515955.1) 2015-09-09

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[21] **2,996,474**  
[13] A1

[51] **Int.Cl. B22D 25/00 (2006.01) C22C 1/08 (2006.01) C22C 21/00 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCTION OF COMPONENT FROM METAL FOAM, COMPONENT PRODUCED BY SAID METHOD AND MOULD FOR THE REALIZATION OF SAID METHOD**  
[54] **PROCEDE DE PRODUCTION D'UN ELEMENT A PARTIR DE MOUSSE METALLIQUE, ELEMENT PRODUIT PAR LEDIT PROCEDE ET MOULE POUR LA REALISATION DUDIT PROCEDE**  
[72] SIMANCIK, FRANTISEK, SK  
[72] PAVLIK, L'UBOMIR, SK  
[72] □ PANIELKA, JAN, SK  
[72] TOBOLKA, PETER, SK  
[72] SPANIELKA, JAN, SK  
[71] USTAV MATERIALOV A MECHANIKY STROJOV SAV, SK  
[85] 2018-02-23  
[86] 2015-12-15 (PCT/IB2015/059639)  
[87] (WO2017/037522)  
[30] SK (PP50046-2015) 2015-08-28  
[30] SK (PP50082-2015) 2015-12-14

[21] **2,996,485**  
[13] A1

[51] **Int.Cl. A61K 31/167 (2006.01) A61K 9/00 (2006.01) A61K 9/70 (2006.01) A61P 23/02 (2006.01)**  
[25] EN  
[54] **NON-AQUEOUS PATCH COMPRISING LIDOCAINE**  
[54] **TIMBRE NON AQUEUX COMPRENANT DE LA LIDOCAINE**  
[72] MORI, TATSUYA, JP  
[72] SAIDA, NAUYUKI, JP  
[71] OISHI KOSEIDO CO., LTD., JP  
[71] ITOCHU CHEMICAL FRONTIER CORPORATION, JP  
[85] 2018-02-23  
[86] 2016-08-24 (PCT/JP2016/075376)  
[87] (WO2017/034041)  
[30] US (62/208,985) 2015-08-24

[21] **2,996,486**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**  
[25] EN  
[54] **ZIC1 AND GHSR, MOLECULAR DIAGNOSTIC MARKERS FOR HPV-INDUCED INVASIVE CANCERS, NONHPV-INDUCED GYNAECOLOGICAL AND ANOGENITAL CANCERS AND THEIR HIGH-GRADE PRECURSOR LESIONS**  
[54] **ZIC1 ET GHSR, MARQUEURS DE DIAGNOSTIC MOLECULAIRE POUR CANCERS INVASIFS INDUITS PAR LE PVH, CANCERS GYNECOLOGIQUES ET ANOGENITAUX NON INDUITS PAR LE PVH ET DE LEURS LESIONS PRECURSEURS DE HAUT GRADE**  
[72] HESSELINK, ALBERTUS THEODORUS, NL  
[71] SELF-SCREEN B.V., NL  
[85] 2018-02-23  
[86] 2016-08-25 (PCT/NL2016/050593)  
[87] (WO2017/034407)  
[30] EP (15182601.3) 2015-08-26

[21] **2,996,488**  
[13] A1

[51] **Int.Cl. B24C 1/00 (2006.01) B24C 7/00 (2006.01)**  
[25] EN  
[54] **DRY ICE CONTAINER FOR DRY ICE CLEANING DEVICES**  
[54] **RECIPIENT DE GLACE SECHE POUR DISPOSITIFS DE NETTOYAGE A LA GLACE SECHE**  
[72] BAKALA, L'UDOVIT, SK  
[72] GABRIS, PETER, SK  
[72] KUBIS, IVAN, SK  
[71] ICS ICE CLEANING SYSTEMS S.R.O., SK  
[85] 2018-02-23  
[86] 2016-08-29 (PCT/SK2016/050009)  
[87] (WO2017/039548)  
[30] SK (PP50047-2015) 2015-08-29

[21] **2,996,495**  
[13] A1

[51] **Int.Cl. A01K 5/00 (2006.01) A01K 5/02 (2006.01)**  
[25] EN  
[54] **AUTOMATIC FEED COMPOSING DEVICE**  
[54] **DISPOSITIF DE COMPOSITION DE NOURRITURE AUTOMATIQUE**  
[72] RUIZENAAAR, RUUD, NL  
[71] LELY PATENT N.V., NL  
[85] 2018-02-23  
[86] 2016-07-28 (PCT/NL2016/050558)  
[87] (WO2017/034397)  
[30] NL (2015355) 2015-08-27

[21] **2,996,537**  
[13] A1

[51] **Int.Cl. B63B 21/66 (2006.01) B65H 75/14 (2006.01) B65H 75/42 (2006.01) B66D 1/30 (2006.01) G01V 1/38 (2006.01) H01Q 1/34 (2006.01)**  
[25] EN  
[54] **DRUM FOR A TOWED ANTENNA, WINCH FOR A TOWED ANTENNA, TOWED ANTENNA FOR TOWING IN WATER, AND SHIP FOR TOWING A TOWED ANTENNA IN WATER**  
[54] **TAMBOUR POUR ANTENNE REMORQUEE, TREUIL POUR ANTENNE REMORQUEE, ANTENNE REMORQUEE DESTINEE A ETRE REMORQUEE DANS L'EAU ET NAVIRE POUR REMORQUER UNE ANTENNE REMORQUEE DANS L'EAU**  
[72] WUERKER, SASCHA, DE  
[71] ATLAS ELEKTRONIK GMBH, DE  
[85] 2018-02-22  
[86] 2016-07-28 (PCT/DE2016/100345)  
[87] (WO2017/036442)  
[30] DE (10 2015 114 375.5) 2015-08-28

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[21] **2,996,588**  
[13] A1

[51] **Int.Cl. F24S 10/55 (2018.01) F24S 10/40 (2018.01) E04D 13/18 (2018.01)**  
[25] EN  
[54] **SOLAR THERMAL COLLECTOR**  
[54] **CAPTEUR SOLAIRE THERMIQUE**  
[72] ROCHEFORT, JEAN-MARC, CA  
[72] CAUX, JOCELYN, CA  
[71] SOLAR-O-MATIC TECHNOLOGIE INC., CA  
[85] 2018-02-26  
[86] 2016-08-25 (PCT/CA2016/051000)  
[87] (WO2017/031588)  
[30] US (62/209,977) 2015-08-26

[21] **2,996,601**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**  
[25] EN  
[54] **T-CELL RECEPTOR MIMIC (TCRM) ANTIBODIES**  
[54] **ANTICORPS IMITATEUR DE RECEPTEUR DE LYMPHOCYTES T (TCRM)**  
[72] BANHAM, ALISON, GB  
[72] LI, DEMIN, GB  
[71] CANCER RESEARCH TECHNOLOGY LIMITED, GB  
[85] 2018-02-26  
[86] 2016-08-26 (PCT/GB2016/052674)  
[87] (WO2017/037440)  
[30] GB (1515351.3) 2015-08-28

[21] **2,996,617**  
[13] A1

[51] **Int.Cl. B29C 45/44 (2006.01) B29C 45/00 (2006.01)**  
[25] EN  
[54] **A METHOD AND A DEVICE FOR PRODUCING A PACKAGE CLOSURE**  
[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'UNE FERMETURE D'EMBALLAGE**  
[72] NILSSON, HUGO, SE  
[71] PETRO-PACK AB, SE  
[85] 2018-02-26  
[86] 2015-11-18 (PCT/SE2015/051240)  
[87] (WO2016/080898)  
[30] SE (1451405-3) 2014-11-21

[21] **2,996,635**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 9/00 (2006.01) A61P 11/06 (2006.01) A61P 37/08 (2006.01)**  
[25] EN  
[54] **THYMIC STROMAL LYMPHOPOIETIN (TSLP)-BINDING MOLECULES AND METHODS OF USING THE MOLECULES**  
[54] **ANTICORPS DE LIAISON A LA LYMPHOPOIETINE STROMALE THYMIQUE (TSLP) ET METHODES D'UTILISATION DES ANTICORPS**  
[72] RONDEAU, JEAN-MICHEL RENE, CH  
[72] EDWARDS, MATTHEW JOHN, GB  
[72] MILLER, DANFORTH, US  
[72] HUANG, DANIEL, US  
[72] HEMMIG, RENE, CH  
[72] KNOPF, HANS-PETER, CH  
[72] GUPTA, KAPIL, US  
[72] VAN HEEKE, GINO ANSELMUS, GB  
[72] HAUBST, NICOLE, DE  
[72] ANDLAUER, BARBARA, DE  
[71] NOVARTIS AG, CH  
[85] 2018-02-26  
[86] 2016-09-07 (PCT/IB2016/055336)  
[87] (WO2017/042701)  
[30] US (62/216,050) 2015-09-09  
[30] US (62/342,511) 2016-05-27

[21] **2,996,665**  
[13] A1

[51] **Int.Cl. C07D 277/10 (2006.01) A61K 31/425 (2006.01) A61K 31/427 (2006.01) A61P 33/06 (2006.01) C07D 277/64 (2006.01)**  
[25] EN  
[54] **COMPOUNDS AS DNA PROBES, METHODS AND APPLICATIONS THEREOF**  
[54] **COMPOSES EN TANT QUE SONDES D'ADN, PROCEDES ET APPLICATIONS DE CES DERNIERS**  
[72] THIMMAIAH, GOVINDARAJU, IN  
[72] NARAYANASWAMY, NAGARJUN, IN  
[71] JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH, IN  
[85] 2018-02-26  
[86] 2016-08-26 (PCT/IB2016/055113)  
[87] (WO2017/033162)  
[30] IN (4493/CHE/2015) 2015-08-26

[21] **2,996,666**  
[13] A1

[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/69 (2006.01)**  
[25] EN  
[54] **COMPOUNDS AS STIMULI-RESPONSIVE PROBES, METHODS AND APPLICATIONS THEREOF**  
[54] **COMPOSES EN TANT QUE SONDES SENSIBLES A DES STIMULI, PROCEDES ET APPLICATIONS ASSOCIES**  
[72] THIMMAIAH, GOVINDARAJU, IN  
[72] NARAYANASWAMY, NAGARJUN, IN  
[71] JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH, IN  
[85] 2018-02-26  
[86] 2016-08-26 (PCT/IB2016/055114)  
[87] (WO2017/033163)  
[30] IN (4494/CHE/2015) 2015-08-26

[21] **2,996,676**  
[13] A1

[51] **Int.Cl. B24B 19/02 (2006.01)**  
[25] EN  
[54] **A MACHINE TOOL FOR MULTIPLE WORKING OF SURFACES OF BODIES**  
[54] **MACHINE-OUTIL POUR USINAGE MULTIPLE DE SURFACES DE CORPS**  
[72] ROVINELLI, MASSIMILIANO, IT  
[71] TRAMA ENGINEERING S.R.L., IT  
[85] 2018-02-26  
[86] 2016-09-01 (PCT/IT2016/000203)  
[87] (WO2017/037750)  
[30] IT (102015000048610) 2015-09-04

[21] **2,996,758**  
[13] A1

[51] **Int.Cl. B29C 47/06 (2006.01) B29C 47/92 (2006.01) B29C 47/90 (2006.01) F16L 9/12 (2006.01)**  
[25] EN  
[54] **COEXTRUSION PROCESSES AND PRODUCTS PRODUCED THEREFROM**  
[54] **PROCEDES DE COEXTRUSION ET PRODUITS DERIVES DESDITS PROCEDES**  
[72] JOHNES, MICHAEL, US  
[72] WHITE, ROBERT, US  
[71] SOCIETE BIC S.A., FR  
[85] 2018-02-27  
[86] 2016-02-04 (PCT/IB2016/000204)  
[87] (WO2016/128829)  
[30] US (62/116,139) 2015-02-13

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[21] **2,996,785**  
[13] A1

[51] **Int.Cl. E21B 29/00 (2006.01)**  
[25] EN  
[54] **DOWNHOLE CUT AND PULL TOOL AND METHOD OF USE**  
[54] **OUTIL DE COUPE ET REMONTEE DE FOND DE TROU ET SON PROCEDE D'UTILISATION**  
[72] WARDLEY, MICHAEL, GB  
[72] FAIRWEATHER, ALAN, GB  
[72] TELFER, GEORGE, GB  
[71] ARDYNE TECHNOLOGIES LIMITED, GB  
[85] 2018-02-27  
[86] 2016-09-16 (PCT/GB2016/052908)  
[87] (WO2017/046613)  
[30] GB (1516452.8) 2015-09-16

[21] **2,996,806**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **DIPLOSPORY GENE**  
[54] **GENE DE DIPLOSPORIE**  
[72] VAN DIJK, PETER JOHANNES, NL  
[72] RIGOLA, DIANA, NL  
[72] PRINS, MARINUS WILLEM, NL  
[72] VAN TUNEN, ADRIANUS JOHANNES, NL  
[71] KEYGENE N.V., NL  
[85] 2018-02-27  
[86] 2016-09-05 (PCT/NL2016/050617)  
[87] (WO2017/039452)  
[30] NL (2015398) 2015-09-04

[21] **2,996,811**  
[13] A1

[51] **Int.Cl. C02F 1/28 (2006.01) B01J 20/24 (2006.01) B01J 20/28 (2006.01) C02F 1/66 (2006.01) C02F 1/38 (2006.01) C02F 1/72 (2006.01) C02F 1/74 (2006.01)**  
[25] EN  
[54] **REMOVAL OF SULFUR SUBSTANCES FROM AN AQUEOUS MEDIUM WITH A SOLID MATERIAL**  
[54] **ELIMINATION DE SUBSTANCES DE SOUFRE D'UN MILIEU AQUEUX AVEC UN MATERIAU SOLIDE**  
[72] AALTO, JUHA-MATTI, FI  
[72] KANKKUNEN, JANNE, FI  
[72] VEPSALAINEN, JOUKO, FI  
[71] BIOSO4 OY, FI  
[85] 2018-02-27  
[86] 2016-08-26 (PCT/FI2016/050587)  
[87] (WO2017/037335)  
[30] FI (20155626) 2015-09-01

[21] **2,996,837**  
[13] A1

[51] **Int.Cl. F16L 13/14 (2006.01)**  
[25] EN  
[54] **PRESS FITTING FOR PIPES HAVING A CHECK RING**  
[54] **AJUSTEMENT PAR PRESSION POUR TUYAUX COMPORTANT UNE BAGUE DE CONTROLE**  
[72] RUISSSEN, JOHANNES, NL  
[72] HULLEGIEN, ANDREAS HUBERTUS, NL  
[71] VSH FITTINGS B.V., NL  
[85] 2018-02-27  
[86] 2016-09-06 (PCT/NL2016/050618)  
[87] (WO2017/043966)  
[30] NL (2015413) 2015-09-08

[21] **2,996,852**  
[13] A1

[51] **Int.Cl. B64D 41/00 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR DISTRIBUTING ELECTRIC POWER ON AN AIRCRAFT DURING A LIMITED POWER AVAILABILITY CONDITION**  
[54] **APPAREIL ET PROCEDES DE DISTRIBUTION D'ENERGIE ELECTRIQUE DANS UN AERONEF LORS D'UN ETAT DE DISPONIBILITE D'ENERGIE LIMITEE**  
[72] NFONGUEM, GUSTAVE, CA  
[72] ILIESCU, VLAD, CA  
[71] BOMBARDIER INC., CA  
[85] 2018-02-27  
[86] 2016-09-08 (PCT/IB2016/055362)  
[87] (WO2017/042712)  
[30] US (62/217,328) 2015-09-11

[21] **2,996,858**  
[13] A1

[51] **Int.Cl. G01N 1/02 (2006.01) A61F 13/40 (2006.01)**  
[25] EN  
[54] **DEVICE FOR COLLECTING, TRANSFERRING AND STORING SAMPLES OF BIOLOGICAL AND/OR CHEMICAL MATERIAL**  
[54] **DISPOSITIF DE COLLECTE, DE TRANSFERT ET DE STOCKAGE D'ECHANTILLONS DE MATERIEL BIOLOGIQUE ET/OU CHIMIQUE**  
[72] CARAGIULI, GABRIELE, IT  
[72] MARTELLO, GIORGIO, IT  
[72] TAINI, ANDREA, IT  
[71] COPAN ITALIA S.P.A., IT  
[85] 2018-02-27  
[86] 2016-08-18 (PCT/IB2016/054943)  
[87] (WO2017/033099)  
[30] IT (102015000046892) 2015-08-27

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[21] **2,996,872**  
[13] A1

[51] **Int.Cl. A61K 31/7004 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01)**

[25] EN

[54] **METHOD FOR INHIBITING LIPID ABSORPTION AND/OR PROMOTING LIPID EXCRETION USING D-PSICOSE**

[54] **METHODE D'INHIBITION DE L'ABSORPTION ET/OU DE PROMOTION DE L'EXCRETION DE LIPIDES A L'AIDE DE D-PSICOSE**

[72] CHOI, MYUNG-SOOK, KR  
[72] KWON, EUN-YOUNG, KR  
[72] HAN, YOUNGJI, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2018-02-27  
[86] 2016-09-01 (PCT/KR2016/009812)  
[87] (WO2017/039365)  
[30] KR (10-2015-0123437) 2015-09-01

[21] **2,996,878**  
[13] A1

[51] **Int.Cl. A63F 9/08 (2006.01)**

[25] EN

[54] **SPHERE PUZZLE**

[54] **PUZZLE SPHERIQUE**

[72] CHRONOPOULOS, ILIAS, GR  
[72] CHRONOPOULOU, ANASTASIA, GR  
[72] CHRONOPOULOU, KALLIOPI, GR  
[71] KAINOTOMIES VERDE KYVIKA LOGIKA PAIXNIDIA A EVE, GR  
[71] CHRONOPOULOS, ILIAS, GR  
[71] CHRONOPOULOU, ANASTASIA, GR  
[71] CHRONOPOULOU, KALLIOPI, GR  
[85] 2018-02-27  
[86] 2016-09-05 (PCT/GR2016/000042)  
[87] (WO2017/042596)  
[30] GR (20150100391) 2015-09-08

[21] **2,996,914**  
[13] A1

[51] **Int.Cl. E05C 3/04 (2006.01) E05B 11/02 (2006.01) E05B 11/04 (2006.01)**

[25] EN

[54] **CAM LOCK**

[54] **SERRURE BATTEUSE**

[72] SKOGSTROM, PETER, FI  
[71] ABLOY OY, FI  
[85] 2018-02-28  
[86] 2015-09-15 (PCT/FI2015/050615)  
[87] (WO2017/046442)

[21] **2,996,918**  
[13] A1

[51] **Int.Cl. A46B 15/00 (2006.01) G06T 7/20 (2017.01)**

[25] EN

[54] **DETERMINATION OF A CURRENTLY TREATED BODY PORTION OF A USER**

[54] **DETERMINATION DE PARTIE DE CORPS ACTUELLEMENT TRAITEE D'UN UTILISATEUR**

[72] VETTER, INGO, DE  
[72] REICK, HANSJORG, DE  
[72] STUCKRATH, CARL, DE  
[72] GARBAS, JENS-UWE, DE  
[72] SEITZ, JOCHEN, DE  
[72] ERNST, ANDREAS, DE  
[72] BOCKSCH, MARCUS, DE  
[71] BRAUN GMBH, DE  
[85] 2018-02-28  
[86] 2016-09-01 (PCT/IB2016/055244)  
[87] (WO2017/042673)  
[30] EP (15184240.8) 2015-09-08

[21] **2,996,937**  
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/10 (2006.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING, AS ACTIVE INGREDIENT, FUSION PROTEIN IN WHICH TUMOR-PENETRATING PEPTIDE AND ANTI-ANGIOGENESIS AGENT ARE FUSED, FOR PREVENTING AND TREATING CANCER OR ANGIOGENESIS-RELATED DISEASES**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT, COMME PRINCIPE ACTIF, UNE PROTEINE DE FUSION DANS LAQUELLE UN PEPTIDE PENETRANT LES TUMEURS ET UN AGENT ANTIANGIOGENESE SONT FUSIONNES, POUR LA PREVENTION ET LE TRAITEMENT DU CANCER OU DE MALADIES ASSOCIEES A L'ANGIOGENESE**

[72] KWON, HYUK SANG, KR  
[72] KO, JONG-HEE, KR  
[72] LEE, YEONG MIN, KR  
[72] JUNG, HYEI YOON, KR  
[72] YANG, SEOK WOO, KR  
[72] KANG, JAE-HOON, KR  
[72] KIM, YONG-SUNG, KR  
[71] IL DONG PHARMACEUTICAL CO., LTD., KR  
[85] 2018-02-28  
[86] 2016-09-01 (PCT/KR2016/009801)  
[87] (WO2017/039358)  
[30] KR (10-2015-0123878) 2015-09-01

[21] **2,996,940**  
[13] A1

[51] **Int.Cl. B01J 23/70 (2006.01) B01J 23/745 (2006.01) D01F 9/127 (2006.01)**

[25] EN

[54] **A PROCESS OF CONTROLLING THE MORPHOLOGY OF GRAPHITE**

[54] **PROCEDE DE CONTROLE DE LA MORPHOLOGIE DE GRAPHITE**

[72] CORNEJO, ANDREW, AU  
[71] HAZER GROUP LIMITED, AU  
[85] 2018-02-23  
[86] 2016-08-26 (PCT/AU2016/000298)  
[87] (WO2017/031529)  
[30] AU (2015903458) 2015-08-26



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[21] **2,996,969**  
[13] A1

[51] **Int.Cl. G02B 21/00 (2006.01) A61B 5/00 (2006.01) G01N 21/64 (2006.01) G02B 5/20 (2006.01) G02B 5/22 (2006.01) G02B 5/28 (2006.01) G02B 21/16 (2006.01)**

[25] EN  
[54] **MOBILE MICROSCOPE**  
[54] **MICROSCOPE MOBILE**  
[72] LUNDIN, JOHAN, FI  
[72] SUUTALA, ANTTI, FI  
[72] MOILANEN, HANNU, FI  
[71] HELSINGIN YLIOPISTO, FI  
[85] 2018-03-06  
[86] 2016-08-26 (PCT/FI2016/050584)  
[87] (WO2017/037334)  
[30] FI (20155618) 2015-08-28

[21] **2,996,995**  
[13] A1

[51] **Int.Cl. G01N 30/42 (2006.01) B01D 15/18 (2006.01)**

[25] EN  
[54] **EXTRACTION CELL FOR A CENTRIFUGAL PARTITION CHROMATOGRAPH, A CENTRIFUGAL PARTITION CHROMATOGRAPH CONTAINING SUCH A CELL, AND A METHOD FOR PROVIDING SUCH AN EXTRACTION CELL**  
[54] **CELLULE D'EXTRACTION POUR UN CHROMATOGRAPHE DE PARTAGE CENTRIFUGE, CHROMATOGRAPHE DE PARTAGE CENTRIFUGE CONTENANT UNE TELLE CELLULE, ET PROCEDE DE PRODUCTION D'UNE TELLE CELLULE D'EXTRACTION**  
[72] LORANTFY, LASZLO, HU  
[72] NEMETH, LASZLO, HU  
[71] ROTACHROM TECHNOLOGIA KFT., HU  
[85] 2018-02-28  
[86] 2016-09-13 (PCT/HU2016/050042)  
[87] (WO2017/037489)  
[30] HU (P1500393) 2015-09-01

[21] **2,997,024**  
[13] A1

[51] **Int.Cl. C22C 21/16 (2006.01) C22F 1/057 (2006.01)**

[25] FR  
[54] **EXTRUDED PRODUCT MADE FROM AL-CU-MG ALLOY WITH IMPROVED COMPROMISE BETWEEN MECHANICAL RESISTANCE AND TOUGHNESS**  
[54] **PRODUIT EXTRUDE EN ALLIAGE AL-CU-MG A COMPROMIS AMELIORE ENTRE RESISTANCE MECANIQUE ET TENACITE**  
[72] BES, BERNARD, FR  
[72] POUGET, GAELLE, FR  
[72] PIGNATEL, JEROME, FR  
[71] CONSTELLIUM ISSOIRE, FR  
[85] 2018-02-28  
[86] 2016-09-01 (PCT/FR2016/052167)  
[87] (WO2017/037391)  
[30] FR (15/58153) 2015-09-03

[21] **2,997,027**  
[13] A1

[51] **Int.Cl. H04L 29/08 (2006.01) H04L 29/06 (2006.01)**

[25] EN  
[54] **APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNAL IN MULTIMEDIA SYSTEM**  
[54] **APPAREIL ET PROCEDE POUR TRANSMETTRE ET RECEVOIR UN SIGNAL DANS UN SYSTEME MULTIMEDIA**  
[72] YANG, HYUN-KOO, KR  
[72] PARK, KYUNG-MO, KR  
[72] SO, YOUNG-WAN, KR  
[72] HWANG, SUNG-HEE, KR  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2018-02-22  
[86] 2016-08-30 (PCT/KR2016/009629)  
[87] (WO2017/039272)  
[30] KR (10-2015-0122808) 2015-08-31  
[30] KR (10-2016-0005354) 2016-01-15

[21] **2,997,033**  
[13] A1

[51] **Int.Cl. A01D 75/20 (2006.01) A01B 73/00 (2006.01)**

[25] EN  
[54] **METHODS OF CONTROLLING AN AGRICULTURAL IMPLEMENT, AND AN AGRICULTURAL IMPLEMENT**  
[54] **PROCEDES DE COMMANDE D'UN OUTIL AGRICOLE ET OUTIL AGRICOLE**  
[72] VALBERG, STEFAN, SE  
[71] VADERSTAD HOLDING AB, SE  
[85] 2018-02-22  
[86] 2016-08-25 (PCT/SE2016/050803)  
[87] (WO2017/034469)  
[30] SE (1551101-7) 2015-08-26

[21] **2,997,043**  
[13] A1

[51] **Int.Cl. A42B 3/06 (2006.01) F16F 7/12 (2006.01)**

[25] EN  
[54] **A COMPOSITE GEOMETRY STRUCTURE FOR THE ABSORPTION AND DISSIPATION OF THE ENERGY GENERATED BY AN IMPACT AND A SAFETY HELMET COMPRISING SAID STRUCTURE.**  
[54] **STRUCTURE GEOMETRIQUE COMPOSITE POUR L'ABSORPTION ET LA DISSIPATION DE L'ENERGIE GENEREE PAR UN IMPACT, ET CASQUE DE SECURITE COMPRENANT LADITE STRUCTURE**  
[72] CROSER, GIOVANNI, IT  
[72] ABDOLAHIAN, ALESSIO, IT  
[71] PEDEVILLA, PATRICK, IT  
[71] AIRHELMET S.R.L., IT  
[85] 2018-02-28  
[86] 2016-09-16 (PCT/IB2016/055534)  
[87] (WO2017/046757)  
[30] IT (102015000052896) 2015-09-18

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[21] **2,997,086**  
[13] A1

[51] **Int.Cl. G02B 27/00 (2006.01) G02B 27/01 (2006.01)**

[25] EN

[54] **EYE PROJECTION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE PROJECTION POUR □IL**

[72] GREENBERG, BORIS, IL

[71] EYEWAY VISION LTD., IL

[85] 2018-02-28

[86] 2016-09-01 (PCT/IL2016/050953)

[87] (WO2017/037708)

[30] IL (241033) 2015-09-02

[21] **2,997,097**  
[13] A1

[51] **Int.Cl. H04N 19/59 (2014.01) H04N 19/122 (2014.01) H04N 19/176 (2014.01) H04N 19/593 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SIGNAL VIDEO**

[72] LEE, BAE KEUN, KR

[72] KIM, JOO YOUNG, KR

[71] KT CORPORATION, KR

[85] 2018-02-28

[86] 2016-08-29 (PCT/KR2016/009574)

[87] (WO2017/039256)

[30] KR (10-2015-0121629) 2015-08-28

[30] KR (10-2015-0122975) 2015-08-31

[30] KR (10-2015-0122976) 2015-08-31

[21] **2,997,102**  
[13] A1

[51] **Int.Cl. F01B 7/16 (2006.01) F02B 75/28 (2006.01)**

[25] EN

[54] **HYDROGEN ENGINE AND THE WAY OF HYDROGEN FUEL PRODUCTION FOR ITS POWER SUPPLY**

[54] **MOTEUR A HYDROGENE ET MOYEN DE PRODUCTION DE CARBURANT HYDROGENE POUR SON ALIMENTATION ENERGETIQUE**

[72] GAJ-JABLONSKI, WOJCIECH, PL

[71] GAJ-JABLONSKI, WOJCIECH, PL

[85] 2018-02-28

[86] 2015-09-28 (PCT/PL2015/000157)

[87] (WO2017/039464)

[30] PL (P.413737) 2015-08-31

[21] **2,997,119**  
[13] A1

[51] **Int.Cl. A61M 11/04 (2006.01) A24F 47/00 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **ELECTRONIC VAPORISER SYSTEM**

[54] **SYSTEME DE VAPORISATEUR ELECTRONIQUE**

[72] MURISON, IAN, GB

[72] MARSH, STEPHEN, GB

[72] GORILOVSKY, DMITRY, GB

[71] BEYOND TWENTY LIMITED, GB

[85] 2018-03-01

[86] 2016-09-01 (PCT/GB2016/052700)

[87] (WO2017/037457)

[30] GB (1515445.3) 2015-09-01

[30] GB (1521110.5) 2015-11-30

[30] GB (1603579.2) 2016-03-01

[30] GB (1610294.9) 2016-06-14

[30] GB (1610531.4) 2016-06-16

[21] **2,997,124**  
[13] A1

[51] **Int.Cl. F22B 1/18 (2006.01) F22B 5/00 (2006.01) F24D 17/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR UTILIZATION OF HOT WATER PLANT WASTE HEAT RECOVERY BY INCORPORATED HIGH TEMPERATURE WATER SOURCE HEAT PUMP**

[54] **PROCEDE ET APPAREIL D'UTILISATION DE RECUPERATION DE CHALEUR RESIDUELLE D'INSTALLATION D'EAU CHAUDE PAR POMPE A CHALEUR A SOURCE D'EAU A TEMPERATURE ELEVEE INTEGREE**

[72] DARKO, GORICANEC, SI

[72] KROPE, JURIJ, SI

[72] BOZICNIK, STANE, SI

[71] UNIVERSITY OF MARIBOR, SI

[85] 2018-03-01

[86] 2016-03-24 (PCT/IB2016/000387)

[87] (WO2017/042613)

[30] SI (P-201500215) 2015-09-11

[21] **2,997,130**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTIBODIES SPECIFIC TO HUMAN T-CELL IMMUNOGLOBULIN AND ITIM DOMAIN (TIGIT)**

[54] **ANTICORPS SPECIFIQUES CONTRE LE DOMAINE D'IMMUNOGLOBULINE DE LYMPHOCYTE T ET ITIM (TIGIT)**

[72] MANDELBOIM, OFER, IL

[72] KAYNAN, NOA S., IL

[72] TSUKERMAN, PINCHAS, IL

[72] JONJIC, STIPAN, HR

[71] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL

[71] UNIVERSITY OF RIJEKA FACULTY OF MEDICINE, HR

[85] 2018-03-01

[86] 2016-09-01 (PCT/IL2016/050952)

[87] (WO2017/037707)

[30] US (62/213,140) 2015-09-02

[30] US (62/314,427) 2016-03-29

[21] **2,997,158**  
[13] A1

[51] **Int.Cl. F17C 13/08 (2006.01)**

[25] EN

[54] **STORAGE BOX FOR BOTTLES OF PRESSURIZED FLUID AND ASSOCIATED STORAGE FRAME**

[54] **CASSETTE DE STOCKAGE POUR BOUTEILLES A FLUIDE SOUS PRESSION ET UN CADRE DE STOCKAGE ASSOCIE**

[72] BAUNE, EMMANUEL, FR

[72] ARNAUD, GUILLAUME, FR

[72] BURGIN, PAUL, GB

[72] ROBERTSON, STEVE, GB

[72] ASKNES, NILS, GB

[72] BLAKEMAN, TOM, GB

[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[71] AIR LIQUIDE OIL AND GAS SERVICES LIMITED, GB

[85] 2018-03-01

[86] 2016-08-02 (PCT/FR2016/052004)

[87] (WO2017/037357)

[30] FR (1558242) 2015-09-04

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[21] **2,997,164**  
[13] A1

[51] **Int.Cl. H02K 44/12 (2006.01) H02K 44/08 (2006.01)**  
[25] FR  
[54] **MAGNETOHYDRODYNAMIC GENERATOR**  
[54] **GENERATEUR MAGNETOHYDRODYNAMIQUE**  
[72] SERGHINE, CAMEL, FR  
[72] KLONOWSKI, THOMAS, FR  
[72] BEDDOK, STEPHANE, FR  
[72] RICHARD, STEPHANE, FR  
[71] SAFRAN HELICOPTER ENGINES, FR  
[85] 2018-02-28  
[86] 2016-09-01 (PCT/FR2016/052163)  
[87] (WO2017/037388)  
[30] FR (1558232) 2015-09-04

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[21] **2,997,167**  
[13] A1

[51] **Int.Cl. A01N 33/12 (2006.01) A01N 47/44 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION FOR PROTECTION OF PLANTS, FRUIT AND VEGETABLES**  
[54] **COMPOSITION DE PROTECTION DE PLANTES, FRUITS ET LEGUMES**  
[72] NIELSEN, DAN MONSTER, DK  
[72] JEPPESEN, PER BENDIX, DK  
[71] LIQUID VANITY APS, DK  
[85] 2018-02-28  
[86] 2016-09-01 (PCT/DK2016/050292)  
[87] (WO2017/036484)  
[30] DK (PA 2015 70568) 2015-09-01

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[21] **2,997,174**  
[13] A1

[51] **Int.Cl. B65D 83/38 (2006.01) B05B 11/00 (2006.01)**  
[25] EN  
[54] **SPRAYING DEVICE AND METHOD OF USING SAME**  
[54] **DISPOSITIF DE PULVERISATION, ET PROCEDE D'UTILISATION DE CE DISPOSITIF**  
[72] BUTLER, MARTIN, CN  
[72] BRUNT, JAMES EDWARD, GB  
[72] DAS, AVIJIT, GB  
[72] GAMBLE, RICHARD, GB  
[72] WITTY, CHRISTOPHER, GB  
[72] WOOLLEY, SIMON, GB  
[72] SANDERS, DAVID, GB  
[71] RECKITT BENCKISER (BRANDS) LIMITED, GB  
[85] 2018-02-28  
[86] 2016-09-19 (PCT/GB2016/052914)  
[87] (WO2017/046614)  
[30] GB (1516544.2) 2015-09-18

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[21] **2,997,182**  
[13] A1

[51] **Int.Cl. F16C 25/06 (2006.01) F16B 2/08 (2006.01) F16C 19/52 (2006.01) F16C 33/60 (2006.01) F16G 11/00 (2006.01) F16C 33/58 (2006.01)**  
[25] EN  
[54] **BEARING COMPRESSION STRAP**  
[54] **SANGLE DE COMPRESSION DE PALIER**  
[72] MCNICHOLS, COLIN, US  
[72] GLINSKY, CHAD PHILLIP, US  
[72] CROWTHER, ASHLEY, US  
[71] ROMAX TECHNOLOGY LIMITED, GB  
[85] 2018-03-01  
[86] 2016-09-02 (PCT/IB2016/055266)  
[87] (WO2017/037667)  
[30] US (14/843,474) 2015-09-02  
[30] GB (1611353.2) 2016-06-30

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[21] **2,997,196**  
[13] A1

[51] **Int.Cl. G01V 1/38 (2006.01) B63B 21/66 (2006.01) G01V 1/20 (2006.01)**  
[25] EN  
[54] **SOUND TRANSDUCER ASSEMBLY, TOWED ARRAY SONAR, WINCH, TOWBOAT AND DEPLOYMENT AND RETRIEVAL METHOD**  
[54] **DISPOSITIF TRANSDUCTEUR DE SON, SONAR RESEAU REMORQUE, TREUIL, BATEAU-REMORQUEUR, ET METHODE DE DEPLOIEMENT ET ENLEVEMENT**  
[72] BOCHENTIN, THORSTEN, DE  
[71] ATLAS ELEKTRONIK GMBH, DE  
[85] 2018-03-01  
[86] 2016-08-29 (PCT/DE2016/100388)  
[87] (WO2017/045665)  
[30] DE (10 2015 115 693.8) 2015-09-17

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[21] **2,997,207**  
[13] A1

[51] **Int.Cl. B05B 1/28 (2006.01) B65D 83/26 (2006.01)**  
[25] EN  
[54] **MODIFIED SPRAY HEAD**  
[54] **TETE DE PULVERISATION MODIFIEE**  
[72] COLLINSON, NIKKI, GB  
[72] DAS, AVIJIT, GB  
[72] RUDKIN, SCOTT, GB  
[72] SZKLARZ, ANNE RENEE JEANNE, GB  
[72] WITTY, CHRISTOPHER, GB  
[71] RECKITT BENCKISER (BRANDS) LIMITED, GB  
[85] 2018-03-01  
[86] 2016-09-19 (PCT/GB2016/052918)  
[87] (WO2017/046616)  
[30] GB (1516547.5) 2015-09-18

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[21] **2,997,208**  
[13] A1

[51] **Int.Cl. G01H 9/00 (2006.01) G01L 7/00 (2006.01)**

[25] EN

[54] **OPTICAL SENSOR DEVICE WITH ENHANCED SHOCK ABSORPTION**

[54] **DISPOSITIF A CAPTEUR OPTIQUE PRESENTANT UNE MEILLEURE ABSORPTION DES CHOCS**

[72] KARABACAK, DEVREZ MEHMET, NL

[71] FUGRO TECHNOLOGY B.V., NL

[85] 2018-03-01

[86] 2016-09-07 (PCT/NL2016/050621)

[87] (WO2017/043968)

[30] NL (2015406) 2015-09-07

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[21] **2,997,225**  
[13] A1

[51] **Int.Cl. A61F 5/443 (2006.01) A61F 5/445 (2006.01) A61F 5/44 (2006.01) A61F 5/448 (2006.01)**

[25] EN

[54] **OSTOMY DEVICE**

[54] **DISPOSITIF DE STOMIE**

[72] OELLGAARD, CLAUS, DK

[72] PINHOLT, NIELS, DK

[71] COLOPLAST A/S, DK

[85] 2018-03-01

[86] 2016-09-09 (PCT/DK2016/050297)

[87] (WO2017/041807)

[30] DK (PA 2015 70585) 2015-09-11

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[21] **2,997,235**  
[13] A1

[51] **Int.Cl. B22D 18/04 (2006.01) B22D 27/04 (2006.01) B29C 33/04 (2006.01)**

[25] EN

[54] **SYSTEM FOR COOLING MOLDS FOR METALS OR FOR METAL ALLOYS, AND MOLDING SET COMPRISING SAID COOLING SYSTEM AND AT LEAST ONE MOLD**

[54] **SYSTEME DE REFROIDISSEMENT DE MOULES POUR METAUX OU ALLIAGES METALLIQUES, ET ENSEMBLE DE MOULAGE COMPRENANT LEDIT SYSTEME DE REFROIDISSEMENT ET AU MOINS UN MOULE**

[72] PELLIZZON, IRENE, IT

[71] ALFI S.R.L., IT

[85] 2018-03-01

[86] 2016-08-26 (PCT/IB2016/055100)

[87] (WO2017/037592)

[30] IT (202015000048083) 2015-09-02

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[21] **2,997,238**  
[13] A1

[51] **Int.Cl. B32B 37/08 (2006.01) B29C 47/88 (2006.01) B29C 65/18 (2006.01)**

[25] EN

[54] **METHOD FOR THE PRODUCTION OF AN ELASTIC LAMINATE AND LAMINATED ELASTIC PRODUCT**

[54] **PROCEDE POUR LA PRODUCTION D'UN STRATIFIE ELASTIQUE ET PRODUIT ELASTIQUE STRATIFIE**

[72] ANGELI, PIETRO, IT

[72] CAIRA, ANTONIO, IT

[72] DI BENEDETTO, CARMINE, IT

[72] FORNONI, GIANLUIGI, IT

[71] PANTEX INTERNATIONAL S.P.A., IT

[85] 2018-03-01

[86] 2016-08-30 (PCT/IB2016/055167)

[87] (WO2017/037617)

[30] IT (UB2015A003333) 2015-09-01

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[21] **2,997,272**  
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 50/10 (2012.01)**

[25] EN

[54] **SERVICE PROVIDING PLACE INFORMATION BASED SERVICE PROVIDING METHOD**

[54] **PROCEDE DE FOURNITURE DE SERVICE BASE SUR DES INFORMATIONS DE LIEU DE FOURNITURE DE SERVICE**

[72] OH, JUN-HO, KR

[72] CHEONG, HOE-SEOK, KR

[72] JO, YOUNG-JIN, KR

[71] YAP COMPANY, KR

[85] 2018-03-01

[86] 2015-09-18 (PCT/KR2015/009805)

[87] (WO2017/047844)

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[21] **2,997,277**  
[13] A1

[51] **Int.Cl. B41J 3/407 (2006.01) B41J 3/28 (2006.01) B41J 11/06 (2006.01)**

[25] EN

[54] **DEVICE FOR DIRECT TO GARMENT PRINTING**

[54] **DISPOSITIF DESTINE A L'IMPRESSION DIRECTE SUR UN VETEMENT**

[72] PERERA, PRINS, LK

[72] KUMARA, SAMAN, LK

[72] GUNASEKERA, KANCHANA, LK

[72] GUNASINGHE, CHAMIKA, LK

[72] DESHAPPRIYA, DINUSHKA, LK

[71] MAS INNOVATION (PRIVATE) LIMITED, LK

[85] 2018-03-01

[86] 2016-09-07 (PCT/SG2016/050437)

[87] (WO2017/044045)

[30] GB (1515777.9) 2015-09-07

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[21] **2,997,308**  
[13] A1

[51] **Int.Cl. C11B 1/04 (2006.01) C11B 1/10 (2006.01) C11B 3/00 (2006.01)**

[25] EN

[54] **METHOD FOR A COMBINED CELL DIGESTION AND EXTRACTION OF OIL-CONTAINING SEEDS**

[54] **PROCEDE DE DESAGREGATION CELLULAIRE COMBINEE A UNE EXTRACTION DE GRAINES OLEAGINEUSES**

[72] BORNER, GUNTER, DE  
[72] BRODKORB, SEBASTIAN, DE  
[72] PUFKY-HEINRICH, DANIELA, DR., DE  
[72] FRANKE, SANDRA, DE  
[72] POLAGE, SARAH, DE  
[72] ZANG, MARCUS, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[71] B+B ENGINEERING GMBH, DE  
[85] 2018-03-02  
[86] 2016-09-03 (PCT/DE2016/000337)  
[87] (WO2017/041776)  
[30] DE (10 2015 011 889.7) 2015-09-11

[21] **2,997,314**  
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01) A61B 34/00 (2016.01) A61B 34/30 (2016.01)**

[25] EN

[54] **SURGICAL INSTRUMENT**

[54] **INSTRUMENT CHIRURGICAL**

[72] SCHELTES, JULIEN SERGE, NL  
[71] DEAM HOLDING B.V., NL  
[85] 2018-03-02  
[86] 2016-09-07 (PCT/NL2016/050623)  
[87] (WO2017/043969)  
[30] NL (2015423) 2015-09-10

[21] **2,997,338**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/60 (2017.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DETERMINING VOLUMETRIC DATA OF A PREDETERMINED ANATOMICAL FEATURE**

[54] **PROCEDE ET APPAREIL PERMETTANT DE DETERMINER DES DONNEES VOLUMETRIQUES D'UNE CARACTERISTIQUE ANATOMIQUE PREDETERMINEE**

[72] HUSHEER, SHAMUS, GB  
[71] HEARTFELT TECHNOLOGIES LIMITED, GB  
[85] 2018-03-02  
[86] 2016-09-02 (PCT/GB2016/052719)  
[87] (WO2017/037472)  
[30] GB (1515634.2) 2015-09-03

[21] **2,997,348**  
[13] A1

[51] **Int.Cl. G01R 33/035 (2006.01)**

[25] EN

[54] **SUPERCONDUCTING DEVICE AND METHOD OF MANUFACTURING A SUPERCONDUCTING DEVICE**

[54] **DISPOSITIF SUPRACONDUCTEUR ET PROCEDE DE FABRICATION DE DISPOSITIF SUPRACONDUCTEUR**

[72] PETRASHOV, VICTOR TIKHONOVICH, GB  
[72] CHECKLEY, CHRISTOPHER, GB  
[71] ROYAL HOLLOWAY AND BEDFORD NEW COLLEGE, GB  
[85] 2018-03-02  
[86] 2016-08-26 (PCT/GB2016/052664)  
[87] (WO2017/037436)  
[30] GB (1515620.1) 2015-09-03

[21] **2,997,364**  
[13] A1

[51] **Int.Cl. C07D 409/06 (2006.01) A61K 31/4436 (2006.01) A61P 3/10 (2006.01) C07C 53/126 (2006.01)**

[25] EN

[54] **NOVEL PYRIDINIUM COMPOUNDS**

[54] **NOUVEAUX COMPOSES DE PYRIDINIUM**

[72] DUTT, CHAITANYA, IN  
[72] GUPTA, RAMESHCHANDRA, IN  
[72] PATEL, MANISH, IN  
[72] ABRAHAM, JAYA, IN  
[72] MISHRA, VIVEK, IN  
[72] KESARWANI, AMIT, IN  
[72] DESHPANDE, SHAIKESH, IN  
[72] ZAMBAD, SHITAL KUMAR, IN  
[72] MATHUR, ANOOP, IN  
[72] KOTECHA, JIGNESH, IN  
[72] LATAD, SACHIN, IN  
[72] CHAUDHARI, ANITA, IN  
[71] TORRENT PHARMACEUTICALS LIMITED, IN  
[85] 2018-03-01  
[86] 2016-04-05 (PCT/IB2016/051917)  
[87] (WO2016/162785)  
[30] IN (1473/MUM/2015) 2015-04-08

[21] **2,997,377**  
[13] A1

[51] **Int.Cl. C01B 33/193 (2006.01)**

[25] EN

[54] **SILICA SYNTHESIS**

[54] **SYNTHESE DE SILICE**

[72] PATWARDHAN, SIDDHARTH VIJAY, GB  
[72] MANNING, JOSEPH RICHARD HENRY, GB  
[71] UNIVERSITY OF SHEFFIELD, GB  
[85] 2018-03-02  
[86] 2016-09-01 (PCT/GB2016/052705)  
[87] (WO2017/037460)  
[30] GB (1515644.1) 2015-09-03

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[21] **2,997,380**  
[13] A1

[51] **Int.Cl. C12N 9/30 (2006.01) C07K 14/39 (2006.01) C12N 15/81 (2006.01)**

[25] EN

[54] **YEAST STRAINS FOR THE EXPRESSION AND SECRETION OF HETEROLOGOUS PROTEINS AT HIGH TEMPERATURES**

[54] **SOUCHES DE LEVURE DESTINEES A L'EXPRESSION ET LA SECRETION DE PROTEINES HETEROLOGUES A HAUTES TEMPERATURES**

[72] RICE, CHARLES F., US

[72] SKINNER, RYAN, US

[72] BARRETT, TRISHA, US

[72] ARGYROS, AARON, US

[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU

[85] 2018-03-02

[86] 2016-08-29 (PCT/IB2016/055162)

[87] (WO2017/037614)

[30] US (62/214,412) 2015-09-04

[30] US (62/299,897) 2016-02-25

[21] **2,997,381**  
[13] A1

[51] **Int.Cl. H04W 4/10 (2009.01) G08B 13/196 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM AND APPARATUS FOR CONTROLLING A PLURALITY OF MOBILE-RADIO EQUIPPED ROBOTS IN A TALKGROUP**

[54] **PROCEDE, SYSTEME ET APPAREIL POUR COMMANDER UNE PLURALITE DE ROBOTS EQUIPES EN RADIOCOMMUNICATION MOBILE DANS UN GROUPE DE CONVERSATION**

[72] KOTLYAROV, YURY VLADIMIROVICH, RU

[71] MOTOROLA SOLUTIONS, INC., US

[85] 2018-03-01

[86] 2015-09-11 (PCT/RU2015/000575)

[87] (WO2017/043996)

[21] **2,997,382**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4523 (2006.01) A61P 17/00 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61P 37/08 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED AMINO TRIAZOLES USEFUL AS HUMAN CHITINASE INHIBITORS**

[54] **TRIAZOLES AMINO-SUBSTITUES UTILES EN TANT QU'INHIBITEURS DE CHITINASE HUMAINE**

[72] MAZUR, MARZENA, PL

[72] KORALEWSKI, ROBERT, PL

[72] BOREK, BARTLOMIEJ, PL

[72] OLEJNICZAK, SYLWIA, PL

[72] CZESTKOWSKI, WOJCIECH J., PL

[72] PIOTROWICZ, MICHAL C., PL

[72] OLCZAK, JACEK P., PL

[72] GOLEBIEWSKI, ADAM A., PL

[72] BARTOSZEWICZ, AGNIESZKA, PL

[72] PLUTA, ELZBIETA, PL

[72] KOWALSKI, MICHAL L., PL

[71] ONCOARENDI THERAPEUTICS S.A., PL

[85] 2018-03-02

[86] 2016-09-02 (PCT/IB2016/055269)

[87] (WO2017/037670)

[30] US (62/214,299) 2015-09-04

[30] PL (415078) 2015-12-04

[21] **2,997,384**  
[13] A1

[51] **Int.Cl. A61F 2/12 (2006.01) A61L 27/00 (2006.01)**

[25] EN

[54] **BIODEGRADABLE MEDICAL DEVICE FOR BREAST RECONSTRUCTION AND/OR AUGMENTATION**

[54] **DISPOSITIF MEDICAL BIODEGRADABLE POUR AUGMENTATION ET/OU RECONSTRUCTION MAMMAIRE**

[72] GERGES, IRINI, IT

[72] MARTELLO, FEDERICO, IT

[72] TAMPLENIZZA, MARGHERITA, IT

[72] TOCCHIO, ALESSANDRO, IT

[71] TENSIVE SRL, IT

[85] 2018-03-02

[86] 2016-09-01 (PCT/IB2016/055238)

[87] (WO2017/037649)

[30] IT (102015000047951) 2015-09-02

[21] **2,997,394**  
[13] A1

[51] **Int.Cl. C07H 15/00 (2006.01) C07C 15/107 (2006.01) C07H 3/04 (2006.01) C07K 1/14 (2006.01) G01N 1/28 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **NOVEL XYLENE-BASED AMPHIPHILIC COMPOUND AND USE THEREOF**

[54] **NOUVEAU COMPOSE AMPHIPATHIQUE A BASE DE XYLENE ET SON UTILISATION**

[72] CHAE, PIL SEOK, KR

[72] CHO, KYUNG HO, KR

[71] INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY ERICA CAMPUS, KR

[85] 2018-03-02

[86] 2016-04-15 (PCT/KR2016/003929)

[87] (WO2017/039107)

[30] KR (10-2015-0124705) 2015-09-03

[30] KR (10-2016-0045394) 2016-04-14

[21] **2,997,396**  
[13] A1

[51] **Int.Cl. B60Q 1/02 (2006.01) F21S 2/00 (2016.01) H04N 5/225 (2006.01) H04N 5/33 (2006.01)**

[25] EN

[54] **ANTI-GLARE TYPE VEHICLE ROAD SIGNBOARD AND ROAD LANE IDENTIFICATION DEVICE**

[54] **PANNEAU INDICATEUR ROUTIER POUR VEHICULE DE TYPE ANTI-EBLOUISSEMENT ET DISPOSITIF D'IDENTIFICATION DE VOIE**

[72] KIM, SUG-BAE, KR

[72] NAM, JIN SOO, KR

[72] HA, HONG KI, KR

[72] KIM, SUN MI, KR

[72] KIM, JONG HO, KR

[71] KIM, SUG-BAE, KR

[71] NAM, JIN SOO, KR

[71] HA, HONG KI, KR

[71] KIM, SUN MI, KR

[71] KIM, JONG HO, KR

[85] 2018-03-02

[86] 2016-08-18 (PCT/KR2016/009059)

[87] (WO2017/039192)

[30] KR (10-2015-0124388) 2015-09-02

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[21] **2,997,413**  
[13] A1

[51] **Int.Cl. B29C 47/10 (2006.01) F04C 2/107 (2006.01) F04C 11/00 (2006.01) F04C 13/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR INJECTING A FLUID FORMULATION INTO A MELTED POLYMERIC MATERIAL**

[54] **APPAREIL ET PROCEDURE D'INJECTION D'UNE FORMULATION LIQUIDE DANS UN MATERIAU POLYMERIQUE FONDU**

[72] JONES, BRIAN, GB  
[72] WHITEHEAD, DAVID, GB  
[72] CAMPBELL, IAN, GB  
[72] BAKER, HARRY, GB  
[71] COLORMATRIX HOLDINGS, INC., US  
[85] 2018-03-05  
[86] 2016-09-09 (PCT/IB2016/055381)  
[87] (WO2017/042726)  
[30] GB (1516143.3) 2015-09-11

[21] **2,997,415**  
[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01) A61M 5/165 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **FILTERING SYRINGE**

[54] **SERINGUE MUNIE D'UN FILTRE**

[72] RA, YONG-KUK, KR  
[71] RA, YONG-KUK, KR  
[85] 2018-03-05  
[86] 2016-09-06 (PCT/KR2016/009939)  
[87] (WO2017/043830)  
[30] KR (10-2015-0127942) 2015-09-09  
[30] KR (10-2016-0034288) 2016-03-22

[21] **2,997,463**  
[13] A1

[51] **Int.Cl. A61K 47/02 (2006.01) A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 31/00 (2006.01) A61K 47/12 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL FORMULATIONS**

[54] **FORMULATIONS PHARMACEUTIQUES**

[72] DUTT, CHAITANYA, IN  
[72] ABRAHAM, JAYA, IN  
[72] MISHRA, VIVEK, IN  
[72] KESARWANI, AMIT, IN  
[72] GUPTA, RAMESH CHANDRA, IN  
[72] DESHPANDE, SHAIKESH, IN  
[72] ZAMBAD, SHITAL KUMAR, IN  
[72] MATHUR, ANOOP, IN  
[72] KOTECHA, JIGNESH, IN  
[72] LATAD, SACHIN, IN  
[72] PATEL, MANISH, IN  
[72] CHAUDHARI, ANITA, IN  
[71] TORRENT PHARMACEUTICALS LIMITED, IN  
[85] 2018-03-01  
[86] 2016-04-05 (PCT/IB2016/051920)  
[87] (WO2016/162787)  
[30] IN (1475/MUM/2015) 2015-04-08

[21] **2,997,494**  
[13] A1

[51] **Int.Cl. C11B 13/02 (2006.01) C10L 1/18 (2006.01) C10L 1/188 (2006.01) C10L 10/08 (2006.01)**

[25] FR

[54] **LUBRICITY ADDITIVE FOR FUEL WITH A LOW SULFUR CONTENT**

[54] **ADDITIF DE LUBRIFIANCE POUR CARBURANT A FAIBLE TENEUR EN SOUFRE**

[72] BEN SAHEL, HAKIM, FR  
[72] LANGLOIS, OLIVIER, FR  
[72] HEROU, JULIEN, FR  
[72] GERMANAUD, LAURENT, FR  
[71] TOTAL MARKETING SERVICES, FR  
[85] 2018-03-01  
[86] 2016-09-02 (PCT/FR2016/052168)  
[87] (WO2017/037392)  
[30] FR (1558161) 2015-09-03

[21] **2,997,514**  
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/50 (2006.01)**

[25] EN

[54] **INJECTION DEVICE**

[54] **DISPOSITIF D'INJECTION**

[72] GLOVER, ROBERT, GB  
[72] WILLOUGHBY, ALASTAIR, GB  
[72] HAWORTH, BRAD, GB  
[71] CONSORT MEDICAL PLC, GB  
[85] 2018-03-02  
[86] 2016-08-19 (PCT/GB2016/052569)  
[87] (WO2017/046556)  
[30] GB (1516219.1) 2015-09-14

[21] **2,997,515**  
[13] A1

[51] **Int.Cl. A23B 9/30 (2006.01) A23L 3/358 (2006.01)**

[25] EN

[54] **METHOD FOR THE REMOVAL OF MYCOTOXINS IN FOOD PRODUCTS**

[54] **PROCEDE D'ELIMINATION DES MYCOTOXINES DANS DES PRODUITS ALIMENTAIRES**

[72] AMADEI, ETTORE, IT  
[71] ALMANOVA S.R.L., IT  
[85] 2018-03-02  
[86] 2016-08-30 (PCT/IB2016/055165)  
[87] (WO2017/042660)  
[30] IT (102015000049534) 2015-09-08

[21] **2,997,517**  
[13] A1

[51] **Int.Cl. C08G 59/68 (2006.01) C08G 65/10 (2006.01)**

[25] EN

[54] **PROCESS FOR FRONTAL POLYMERIZATION OF CATIONICALLY POLYMERIZABLE MONOMERS**

[54] **PROCEDE DE POLYMERISATION FRONTALE DE MONOMERES POUVANT ETRE SOUMIS A UNE POLYMERISATION CATIONIQUE**

[72] LISKA, ROBERT, AT  
[72] BOMZE, DANIEL, AT  
[72] KERN, WOLFGANG, AT  
[72] KNAACK, PATRICK, AT  
[71] TECHNISCHE UNIVERSITAT WIEN, AT  
[71] POLYMER COMPETENCE CENTER LEOBEN GMBH, AT  
[85] 2018-03-02  
[86] 2016-09-02 (PCT/AT2016/060047)  
[87] (WO2017/035551)  
[30] AT (A576/2015) 2015-09-02

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[21] **2,997,519**  
[13] A1

[51] **Int.Cl. A61K 31/19 (2006.01) A61K 31/4192 (2006.01) A61K 31/4196 (2006.01) A61K 31/47 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **POLYMER CONJUGATE COMPRISING A BIOACTIVE AGENT**

[54] **CONJUGUE DE POLYMERE COMPRENANT UN AGENT BIOACTIF**

[72] BIRKETT, STEPHEN LONSDALE, AU

[72] DONOHUE, ANDREW CRAIG, AU

[72] D'SOUZA, ASHA MARINA, AU

[72] NG, SARA MAN YEE, AU

[72] SULISTIO, ADRIAN, AU

[72] TAIT, RUSSELL JOHN, AU

[72] VALADE, DAVID, AU

[72] NAYLOR, ALAN, GN

[71] POLYACTIVA PTY LTD, AU

[85] 2018-03-02

[86] 2016-09-09 (PCT/AU2016/050850)

[87] (WO2017/041142)

[30] US (62/217,215) 2015-09-11

[21] **2,997,520**  
[13] A1

[51] **Int.Cl. C04B 38/02 (2006.01) C04B 40/00 (2006.01)**

[25] EN

[54] **CATALYTICALLY ACTIVE FOAM FORMATION POWDER**

[54] **POUDRE DE FORMATION DE MOUSSE CATALYTIQUEMENT ACTIVE**

[72] GONZENBAUCH, URS T., CH

[72] STURZENEGGER, PHILIP NOAH, CH

[71] DE CAVIS AG, CH

[85] 2018-03-02

[86] 2016-08-30 (PCT/CH2016/000112)

[87] (WO2017/041189)

[30] EP (15002618.5) 2015-09-07

[21] **2,997,521**  
[13] A1

[51] **Int.Cl. A23K 50/80 (2016.01) A23K 10/30 (2016.01) A23K 20/163 (2016.01)**

[25] EN

[54] **FEED COMPOSITION FOR PREVENTION AND TREATMENT OF PARASITE INFECTION OF FISH**

[54] **COMPOSITION ALIMENTAIRE POUR LA PREVENTION ET LE TRAITEMENT D'INFECTIONS PARASITAIRES DES POISSONS**

[72] PINO, JORGE, CL

[72] WADSWORTH, SIMON, NO

[72] JODAA HOLM, HELLE, NO

[72] SKUGOR, STANKO, NO

[71] EWOS INNOVATION AS, NO

[85] 2018-03-02

[86] 2016-09-05 (PCT/NO2016/000024)

[87] (WO2017/039454)

[30] NO (20151133) 2015-09-04

[21] **2,997,531**  
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/55 (2006.01) A61P 35/00 (2006.01) C07D 491/14 (2006.01) C07D 495/14 (2006.01) C07D 513/14 (2006.01)**

[25] EN

[54] **TRICYCLIC FUSED PYRIDIN-2-ONE DERIVATIVES AND THEIR USE AS BRD4 INHIBITORS**

[54] **DERIVES DE PYRIDIN-2-ONE TRICYCLIQUES FUSIONNES ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE BRD4**

[72] MULAKALA, CHANDRIKA, IN

[72] PARIKH, PAYAL KIRAN, IN

[72] GONDRALA, PAVAN KUMAR, IN

[72] RAMAIAH, MANJUNATHA M, IN

[72] RAJAGOPAL, SRIDHARAN, IN

[72] SIVANANDHAN, DHANALAKSHMI, IN

[72] VADIVELU, SARAVANAN, IN

[72] CHINNAPATTU, MURUGAN, IN

[71] JUBILANT BIOSYS LIMITED, IN

[85] 2018-03-02

[86] 2016-09-08 (PCT/IN2016/050300)

[87] (WO2017/042834)

[30] IN (4781/CHE/2015) 2015-09-09

[21] **2,997,549**  
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/423 (2006.01) A61K 31/4365 (2006.01) A61K 31/5375 (2006.01) C07D 261/20 (2006.01) C07D 413/04 (2006.01)**

[25] EN

[54] **COMPOUND HAVING EFFECT OF INHIBITING PLATELET AGGREGATION AND SALT THEREOF, AND COMPOSITION FOR PREVENTING OR TREATING THROMBOTIC DISEASES, CONTAINING SAME**

[54] **COMPOSE AYANT POUR EFFET D'INHIBER L'AGREGATION PLAQUETTAIRE, SEL DE CELUI-CI, ET COMPOSITION DESTINEE A PREVENIR OU A TRAITER LES MALADIES THROMBOTIQUES LE CONTENANT**

[72] RYU, JEI MAN, KR

[72] LEE, DONG WON, KR

[72] LEE, KANG HYEOK, KR

[72] PARK, JIN HUN, KR

[72] CHO, GEUM SIL, KR

[72] LEE, KI SUNG, KR

[72] CHUNG, JIN HO, KR

[72] PARK, WOO ILE, KR

[72] LEE, JAE YOUNG, KR

[71] SHIN POONG PHARMACEUTICAL CO., LTD., KR

[85] 2018-03-02

[86] 2016-09-02 (PCT/KR2016/009859)

[87] (WO2017/039395)

[30] KR (10-2015-0125270) 2015-09-04



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[21] **2,997,573**  
[13] A1

[51] **Int.Cl. F01K 25/04 (2006.01) F22B 1/18 (2006.01)**

[25] EN

[54] **ORC FOR TRANSFORMING WASTE HEAT FROM A HEAT SOURCE INTO MECHANICAL ENERGY AND COMPRESSOR INSTALLATION MAKING USE OF SUCH AN ORC**

[54] **CYCLE DE RANKINE A CALOPORTEUR ORGANIQUE (ORC) PERMETTANT DE TRANSFORMER UNE CHALEUR RESIDUELLE PROVENANT D'UNE SOURCE DE CHALEUR EN ENERGIE MECANIQUE ET INSTALLATION DE COMPRESSEUR UTILISANT UN TEL ORC**

[72] OHMAN, HENRIK, BE  
[71] ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, BE

[85] 2018-03-05  
[86] 2016-08-18 (PCT/BE2016/000038)  
[87] (WO2017/041146)  
[30] US (US 62/215,247) 2015-09-08  
[30] BE (BE 2016/5643) 2016-08-17

[21] **2,997,574**  
[13] A1

[51] **Int.Cl. G05B 13/02 (2006.01) G06N 5/04 (2006.01)**

[25] EN

[54] **METHOD OF GENERATING FUZZY KNOWLEDGE BASE FOR A PROGRAMMABLE FUZZY CONTROLLER**

[54] **PROCEDE DE GENERATION D'UNE BASE DE CONNAISSANCES FLOUE POUR UN CONTROLEUR FLOU PROGRAMMABLE**

[72] BITTENCOURT SANTIAGO, IGOR, BR  
[72] DA SILVA, RONALDO ANTONIO, BR  
[72] LAVIGNE HALLA, DANILO, BR  
[71] I.SYSTEMS AUTOMACAO INDUSTRIAL S.A, BR

[85] 2018-03-05  
[86] 2016-09-09 (PCT/BR2016/050226)  
[87] (WO2017/041158)  
[30] US (14/850,211) 2015-09-10

[21] **2,997,582**  
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01) B01D 21/26 (2006.01) B08B 3/00 (2006.01) C22B 1/00 (2006.01) C23G 3/00 (2006.01)**

[25] EN

[54] **A METHOD FOR SEPARATING MILL SCALE FROM WASTEWATER**

[54] **PROCEDE DE SEPARATION DE CALAMINE PRESENTE DANS DES EAUX USEES**

[72] MA, NAIYANG, US  
[71] ARCELORMITTAL, LU

[85] 2018-03-05  
[86] 2016-09-06 (PCT/IB2016/001372)  
[87] (WO2017/037540)  
[30] US (62/214,550) 2015-09-04

[21] **2,997,602**  
[13] A1

[51] **Int.Cl. A47J 27/00 (2006.01) G05D 23/19 (2006.01)**

[25] FR

[54] **METHOD FOR CONTROLLING A RICE COOKER AND RICE COOKER FOR IMPLEMENTING SUCH A METHOD**

[54] **PROCEDE DE COMMANDE D'UN CUISEUR A RIZ ET CUISEUR A RIZ POUR LA MISE EN OEUVRE D'UN TEL PROCEDE**

[72] GOYON, ANNABELLE, FR  
[72] TORELLI, STEPHANIE, FR  
[71] SEB S.A., FR

[85] 2018-03-05  
[86] 2016-09-08 (PCT/FR2016/052250)  
[87] (WO2017/042498)  
[30] FR (1558354) 2015-09-09

[21] **2,997,616**  
[13] A1

[51] **Int.Cl. H01M 4/86 (2006.01) H01M 4/88 (2006.01) H01M 4/92 (2006.01) H01M 8/1018 (2016.01)**

[25] FR

[54] **P/METAL-N-C HYBRID CATALYST**

[54] **CATALYSEUR HYBRIDE DE TYPE P/METAL-N-C**

[72] SCHUPPERT, ANNA, DE  
[72] JAOUEN, FREDERIC, FR  
[72] JONES, DEBORAH, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] UNIVERSITE DE MONTPELLIER, FR

[85] 2018-03-05  
[86] 2016-09-12 (PCT/FR2016/052289)  
[87] (WO2017/042520)  
[30] FR (15/58452) 2015-09-11

[21] **2,997,633**  
[13] A1

[51] **Int.Cl. B66B 23/04 (2006.01)**

[25] EN

[54] **DEVICE FOR DRIVING A HANDRAIL**

[54] **DISPOSITIF D'ENTRAINEMENT D'UNE MAIN COURANTE**

[72] VLASAK, PAVEL, CZ  
[72] DRENCKO, JIRI, CZ  
[71] INNOVA PATENT GMBH, AT

[85] 2018-03-06  
[86] 2016-09-19 (PCT/AT2016/000083)  
[87] (WO2017/044996)  
[30] AT (A 610/2015) 2015-09-17

[21] **2,997,643**  
[13] A1

[51] **Int.Cl. F03D 13/20 (2016.01)**

[25] EN

[54] **A TOWER SECTION FOR A TETHERED WIND TURBINE TOWER**

[54] **SECTION DE MAT DESTINEE A UN MAT D'EOLIENNE HAUBANE**

[72] LEIJTEN, EDGAR, DK  
[71] VESTAS WIND SYSTEMS A/S, DK

[85] 2018-03-06  
[86] 2016-09-09 (PCT/DK2016/050296)  
[87] (WO2017/041806)  
[30] DK (PA 2015 70584) 2015-09-11

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[21] **2,997,653**  
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01)**  
[25] EN  
[54] **LAPAROSCOPY FORCEPS**  
[54] **PINCE DE C.LIOSCOPE**  
[72] BLANC, ALEXANDRE, FR  
[71] AB MEDICA, FR  
[85] 2018-03-06  
[86] 2016-08-22 (PCT/FR2016/000131)  
[87] (WO2017/042441)  
[30] FR (15/01851) 2015-09-08

[21] **2,997,661**  
[13] A1

[51] **Int.Cl. A61D 7/00 (2006.01) A61D 1/04 (2006.01) A61D 1/06 (2006.01) A61D 1/02 (2006.01)**  
[25] EN  
[54] **LIGATURES AND USE THEREOF**  
[54] **LIGATURES ET LEUR UTILISATION**  
[72] SMITH, ROBIN, GB  
[72] MITCHELL, WILLIAM, GB  
[72] RITCHIE, JOHN, GB  
[72] HARRIS, THOMAS, GB  
[72] ALDRIDGE, MICHAEL, GB  
[72] ANUSAS, MICHAEL, GB  
[72] PENVER, MARK, GB  
[72] TARGELL, JOHN, GB  
[71] 4C DESIGN LIMITED, GB  
[71] MEAT & LIVESTOCK AUSTRALIA LIMITED, AU  
[85] 2018-03-06  
[86] 2015-11-24 (PCT/GB2015/053586)  
[87] (WO2016/083799)  
[30] GB (1420805.2) 2014-11-24

[21] **2,997,665**  
[13] A1

[51] **Int.Cl. A61H 7/00 (2006.01) A61H 9/00 (2006.01) A61H 15/00 (2006.01)**  
[25] EN  
[54] **ABDOMINAL MASSAGE APPARATUS**  
[54] **APPAREIL DE MASSAGE ABDOMINAL**  
[72] WILHELMS, MARKUS, ES  
[72] BENET POZO, MARC, ES  
[72] CALZADA DEFEZ, ANGEL, ES  
[72] HERRERO FRESNEDA, MARIA INMACULADA, ES  
[71] USMIMA, S.L., ES  
[85] 2018-03-06  
[86] 2015-09-08 (PCT/IB2015/001576)  
[87] (WO2017/042599)

[21] **2,997,675**  
[13] A1

[51] **Int.Cl. E04B 1/10 (2006.01) E04C 2/34 (2006.01) E04C 3/12 (2006.01)**  
[25] EN  
[54] **A BUILDING SYSTEM AND MATERIAL**  
[54] **SYSTEME ET MATERIAU DE CONSTRUCTION**  
[72] BOLT, DIRK, GB  
[71] T3 BUILDING SOLUTIONS LIMITED, GB  
[85] 2018-03-06  
[86] 2016-09-07 (PCT/GB2016/000162)  
[87] (WO2017/042525)  
[30] GB (GB1515774.6) 2015-09-07

[21] **2,997,677**  
[13] A1

[51] **Int.Cl. B01L 1/02 (2006.01) B01L 3/00 (2006.01) B65B 17/02 (2006.01)**  
[25] EN  
[54] **TRANSFER DEVICE**  
[54] **DISPOSITIF DE TRANSFERT**  
[72] ECCLES, CHRISTOPHER, GB  
[72] WYLIE, BENJAMIN, GB  
[71] CHARGEPOINT TECHNOLOGY LTD, GB  
[85] 2018-03-06  
[86] 2016-08-26 (PCT/GB2016/052659)  
[87] (WO2017/042536)  
[30] GB (1515865.2) 2015-09-08

[21] **2,997,679**  
[13] A1

[51] **Int.Cl. B29C 65/56 (2006.01) B29C 65/00 (2006.01) B29C 65/66 (2006.01) F16B 4/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR DESIGNING AND FITTING, VIA INTERFERENCE, AN INSERT INTO AN OPENING IN A NON-METALLIC MATERIAL**  
[54] **PROCEDE DE CONCEPTION ET DE RACCORDEMENT, PAR INTERFERENCE, D'UN INSERT DANS UNE OUVERTURE DANS UN MATERIAU NON METALLIQUE**  
[72] HANNA, COLIN SAMUEL, GB  
[72] WILSON, ROBERT SAMUEL, GB  
[72] CAMPBELL, WILLIAM CHRISTOPHER, GB  
[71] SHORT BROTHERS PLC, IE  
[85] 2018-03-06  
[86] 2016-09-09 (PCT/GB2016/052787)  
[87] (WO2017/042573)  
[30] GB (1516039.3) 2015-09-10

[21] **2,997,681**  
[13] A1

[51] **Int.Cl. A61K 38/22 (2006.01) A61K 31/565 (2006.01)**  
[25] EN  
[54] **NOVEL THERAPY**  
[54] **NOUVELLE THERAPIE**  
[72] GARVIN, ROY, GB  
[72] BURNS, ALASDAIR, GB  
[71] BV BIOMED LTD, GB  
[85] 2018-03-06  
[86] 2016-09-09 (PCT/GB2016/052792)  
[87] (WO2017/042577)  
[30] GB (1516068.2) 2015-09-10

[21] **2,997,696**  
[13] A1

[51] **Int.Cl. B29D 30/06 (2006.01)**  
[25] EN  
[54] **CERAMIC TIRE STUD**  
[54] **CRAMPON CERAMIQUE POUR PNEU**  
[72] MUN, DAE-YONG, KR  
[71] MUN, DAE-YONG, KR  
[85] 2018-03-06  
[86] 2016-04-12 (PCT/KR2016/003852)  
[87] (WO2017/090844)  
[30] KR (10-2015-0163794) 2015-11-23

[21] **2,997,734**  
[13] A1

[51] **Int.Cl. A23P 10/30 (2016.01) A23L 5/00 (2016.01) A23L 29/00 (2016.01) A23L 29/20 (2016.01) A61K 9/48 (2006.01) A61P 3/02 (2006.01) C12G 3/00 (2006.01)**  
[25] EN  
[54] **ENCAPSULATED FOOD PRODUCTS AND METHODS OF MAKING SAME**  
[54] **PRODUITS ALIMENTAIRES ENCAPSULES ET PROCEDES POUR LES FABRIQUER**  
[72] LECLAIR BISSON, DIANE, CA  
[72] DESJARDINS, DAVID, CA  
[71] PHOOD STATION, CA  
[85] 2018-03-01  
[86] 2014-09-10 (PCT/CA2014/050857)  
[87] (WO2015/035513)

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[21] **2,997,812**  
[13] A1

[51] **Int.Cl. F23R 3/04 (2006.01) F01D 25/32 (2006.01) F02C 3/14 (2006.01) F02C 7/052 (2006.01)**

[25] FR

[54] **PARTICLE-TRAPPING DEVICE FOR A TURBOMACHINE AND TURBOMACHINE WITH SUCH A DEVICE**

[54] **DISPOSITIF DE PIEGEAGE DE PARTICULES POUR TURBOMACHINE ET TURBOMACHINE EQUIPEE D'UN TEL DISPOSITIF**

[72] PAILLARD, AMAURY, FR

[72] PASCAUD, STEPHANE, FR

[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2018-03-06

[86] 2016-09-08 (PCT/FR2016/052241)

[87] (WO2017/042493)

[30] FR (1558437) 2015-09-10

[21] **2,997,817**  
[13] A1

[51] **Int.Cl. A61B 34/35 (2016.01) A61B 34/20 (2016.01) A61B 34/30 (2016.01) A61B 5/00 (2006.01) B25J 3/04 (2006.01) G05G 9/047 (2006.01)**

[25] EN

[54] **END EFFECTOR JOYSTICK FOR A POSITIONING DEVICE**

[54] **MANETTE DE COMMANDE D'EFFECTEUR TERMINAL POUR UN DISPOSITIF DE POSITIONNEMENT**

[72] BAILEY, BRENT ANDREW, CA

[71] SYNAPTIVE MEDICAL (BARBADOS) INC., BB

[85] 2018-03-06

[86] 2015-09-11 (PCT/CA2015/050882)

[87] (WO2017/041159)

[21] **2,997,863**  
[13] A1

[51] **Int.Cl. A01N 37/02 (2006.01) A01N 37/06 (2006.01) A01N 37/44 (2006.01) A01N 47/44 (2006.01) A01P 7/00 (2006.01)**

[25] EN

[54] **INSECTICIDE/MITICIDE COMPOSITION BASED ON FATTY ACID SALTS**

[54] **COMPOSITION INSECTICIDE/ACARICIDE A BASE DE SELS D'ACIDE GRAS**

[72] JONES, OWEN THOMAS, GB

[72] LONG, MARK, GB

[71] NATURIOL BANGOR LIMITED, GB

[85] 2018-03-07

[86] 2016-09-07 (PCT/GB2016/052761)

[87] (WO2017/042554)

[30] GB (1515759.7) 2015-09-07

[21] **2,997,865**  
[13] A1

[51] **Int.Cl. F04B 43/12 (2006.01)**

[25] EN

[54] **A PERISTALTIC PUMP**

[54] **POMPE PERISTALTIQUE**

[72] MEAD, ROBERT, GB

[72] BROKENSHIRE, STEVEN, GB

[71] WATSON-MARLOW LIMITED, GB

[85] 2018-03-07

[86] 2016-09-09 (PCT/GB2016/052799)

[87] (WO2017/042581)

[30] GB (1516145.8) 2015-09-11

[21] **2,997,868**  
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/438 (2006.01) A61K 31/499 (2006.01) A61K 31/5386 (2006.01) A61K 31/547 (2006.01) A61K 31/551 (2006.01) A61P 25/00 (2006.01) C07D 493/20 (2006.01) C07D 498/10 (2006.01) C07D 513/10 (2006.01)**

[25] EN

[54] **SPIROCYCLIC DERIVATIVES**

[54] **DERIVES SPIROCYCLIQUES**

[72] CREMONESI, SUSANNA, IT

[72] LUKER, TIM, GB

[72] SEMERARO, TERESA, IT

[72] MICHELI, FABRIZIO, IT

[71] CHRONOS THERAPEUTICS LIMITED, GB

[85] 2018-03-07

[86] 2015-09-14 (PCT/IB2015/057030)

[87] (WO2016/042452)

[30] GB (1416352.1) 2014-09-16

[21] **2,997,869**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4025 (2006.01) A61K 31/409 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4545 (2006.01) A61P 25/00 (2006.01) C07D 211/48 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **N-(HETERO)ARYL-SUBSTITUTED HETEROYCLIC DERIVATIVES USEFUL FOR THE TREATMENT OF DISEASES OR CONDITIONS RELATED TO THE CENTRAL NERVOUS SYSTEM**

[54] **DERIVES HETEROCYCLIQUES SUBSTITUES PAR N-(HETERO)ARYLE UTILES POUR LE TRAITEMENT DE MALADIES OU D'AFFECTIONS LIEES AU SYSTEME NERVEUX CENTRAL**

[72] CREMONESI, SUSANNA, IT

[72] MICHELI, FABRIZIO, IT

[72] SEMERARO, TERESA, IT

[72] TARSI, LUCA, IT

[72] LUKER, TIM, GB

[72] LESLIE, COLIN, IT

[71] CHRONOS THERAPEUTICS LIMITED, GB

[85] 2018-03-07

[86] 2015-09-14 (PCT/IB2015/057031)

[87] (WO2016/042453)

[30] GB (1416351.3) 2014-09-16

[21] **2,997,889**  
[13] A1

[51] **Int.Cl. F16H 61/32 (2006.01) F16H 61/00 (2006.01) F16H 61/28 (2006.01) F16H 63/30 (2006.01)**

[25] EN

[54] **METHOD FOR LEARNING THE NEUTRAL POSITION OF A GEAR SHIFT ACTUATOR**

[54] **PROCEDE D'APPRENTISSAGE DE LA POSITION NEUTRE D'UN ACTIONNEUR DE PASSAGE**

[72] MERIENNE, LUDOVIC, FR

[72] KETFI-CHERIF, AHMED, FR

[71] NISSAN MOTOR CO., LTD., JP

[85] 2018-03-07

[86] 2016-09-05 (PCT/FR2016/052188)

[87] (WO2017/042460)

[30] FR (1558446) 2015-09-10

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[21] **2,997,900**  
[13] A1

[51] **Int.Cl. F42B 5/16 (2006.01)**  
[25] EN  
[54] **PROPELLANT CHARGE**  
[54] **CHARGE PROPULSIVE**  
[72] VAN DRIEL, CHRISTOFFEL  
ADRIANUS, NL  
[72] RAMLAL, DINESH RAVINDRE, NL  
[72] ZEBREGS, MARTIJN, NL  
[72] STRAATHOF, MICHIEL HANNES,  
NL  
[71] NEDERLANDSE ORGANISATIE  
VOOR TOEGEPAST-  
NATUURWETENSCHAPPELIJK  
ONDERZOEK TNO, NL  
[85] 2018-03-07  
[86] 2016-09-12 (PCT/NL2016/050630)  
[87] (WO2017/043975)  
[30] EP (15075042.0) 2015-09-10

[21] **2,997,901**  
[13] A1

[51] **Int.Cl. E21B 33/13 (2006.01) E21B  
28/00 (2006.01) E21B 33/124 (2006.01)  
E21B 33/134 (2006.01)**  
[25] EN  
[54] **A PLUGGING TOOL, AND  
METHOD OF PLUGGING A WELL**  
[54] **OUTIL D'OBTURATION, ET  
PROCEDE D'OBTURATION DE  
PUITS**  
[72] ABDOLLAH, JAFAR, NO  
[72] CARLSEN, INGE MANFRED, NO  
[72] FLO, RUNE, NO  
[72] NYHAVN, FRIDTJOF, NO  
[72] ESPE, EIRIK, NO  
[71] WELLGUARD AS, NO  
[85] 2018-03-07  
[86] 2016-09-08 (PCT/NO2016/050185)  
[87] (WO2017/043977)  
[30] NO (20151176) 2015-09-11

[21] **2,997,905**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **FREQUENCY LOCATION OF A  
PCELL**  
[54] **LOCALISATION DE FREQUENCE  
D'UNE CELLULE PRIMAIRE  
(PCELL)**  
[72] KRONESTEDT, FREDRIC, SE  
[72] LUNDEVALL, MAGNUS, SE  
[72] OSTERLING, JACOB, SE  
[72] EKEMARK, SVEN, SE  
[71] TELEFONAKTIEBOLAGET LM  
ERICSSON (PUBL), SE  
[85] 2018-03-07  
[86] 2015-09-08 (PCT/SE2015/050945)  
[87] (WO2017/044018)

[21] **2,997,939**  
[13] A1

[51] **Int.Cl. F01D 11/24 (2006.01) F01D  
25/12 (2006.01) F02C 7/18 (2006.01)**  
[25] FR  
[54] **DEVICE FOR VENTILATION OF A  
TURBOMACHINE TURBINE  
CASING**  
[54] **DISPOSITIF DE VENTILATION  
D'UN CARTER DE TURBINE  
D'UNE TURBOMACHINE**  
[72] PELLATON, BERTRAND  
GUILLAUME ROBIN, FR  
[72] JOUY, BAPTISTE MARIE AUBIN  
PIERRE, FR  
[72] MOUSSETTE, ADRIEN, FR  
[72] VILLARD, LOIC, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-03-06  
[86] 2016-09-12 (PCT/FR2016/052292)  
[87] (WO2017/046499)  
[30] FR (1558619) 2015-09-15

[21] **2,997,956**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K  
31/4155 (2006.01) A61K 31/416  
(2006.01) A61K 31/427 (2006.01)  
A61K 31/428 (2006.01) A61K 31/4439  
(2006.01) A61K 31/4545 (2006.01)  
A61P 25/00 (2006.01) C07D 401/06  
(2006.01) C07D 401/12 (2006.01)  
C07D 403/06 (2006.01) C07D 403/14  
(2006.01) C07D 417/06 (2006.01)  
C07D 417/14 (2006.01)**  
[25] EN  
[54] **FLUOROINDOLE DERIVATIVES  
AS MUSCARINIC M1 RECEPTOR  
POSITIVE ALLOSTERIC  
MODULATORS**  
[54] **DERIVES DE FLUOROINDOLE EN  
TANT QUE MODULATEURS  
ALLOSTERIQUES POSITIFS DU  
RECEPTEUR MUSCARINIQUE M1**  
[72] NIROGI, RAMAKRISHNA, IN  
[72] SHINDE, ANIL KARBHARI, IN  
[72] MOHAMMED, ABDUL RASHEED,  
IN  
[72] SUBRAMANIAN, RAMKUMAR, IN  
[72] BENADE, VIJAY SIDRAM, IN  
[72] BHYRAPUNENI, GOPINADH, IN  
[72] JASTI, VENKATESWARLU, IN  
[71] SUVEN LIFE SCIENCES LIMITED,  
IN  
[85] 2018-03-07  
[86] 2016-07-19 (PCT/IB2016/054290)  
[87] (WO2017/042643)  
[30] IN (4809/CHE/2015) 2015-09-10

[21] **2,997,996**  
[13] A1

[51] **Int.Cl. B01D 1/00 (2006.01) F16K  
17/16 (2006.01) G21C 9/008 (2006.01)**  
[25] FR  
[54] **DEVICE FOR CONVERTING A  
LIQUID INTO VAPOUR**  
[54] **DISPOSITIF DE CONVERSION  
D'UN LIQUIDE EN VAPEUR**  
[72] CHATROUX, ANDRE, FR  
[72] GIROUD, PASCAL, FR  
[72] GOUSSEAU, GEORGES, FR  
[71] COMMISSARIAT A L'ENERGIE  
ATOMIQUE ET AUX ENERGIES  
ALTERNATIVES, FR  
[85] 2018-03-07  
[86] 2016-08-30 (PCT/FR2016/052140)  
[87] (WO2017/042449)  
[30] FR (1558290) 2015-09-07

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[21] **2,998,001**  
[13] A1

[51] **Int.Cl. E21D 19/00 (2006.01) E21D 19/02 (2006.01) E21D 23/03 (2006.01)**

[25] EN

[54] **RAPID DEVELOPMENT MOBILE CANOPY FOR UNDERGROUND MINING**

[54] **ABRI MOBILE A DEVELOPPEMENT RAPIDE DESTINE A L'EXPLOITATION MINIERE SOUTERRAINE**

[72] ELLIOTT, RONALD P., CA

[72] KELSO, BRYAN, CA

[71] NORDIC MINESTEEL TECHNOLOGIES INC., CA

[85] 2018-03-12

[86] 2017-10-16 (PCT/CA2017/000223)

[87] (2998001)

[30] US (62/409,366) 2016-10-17

[21] **2,998,006**  
[13] A1

[51] **Int.Cl. A01K 1/06 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **IMPROVED LOCKING DEVICE FOR A LIVESTOCK HEAD GATE**

[54] **DISPOSITIF DE BLOCAGE AMELIORE DESTINE A UNE PORTE CORNADIS**

[72] LANGRELL, STEPHEN ARTHUR, CA

[71] NORTHQUIP INC., CA

[85] 2018-03-13

[86] 2016-09-23 (PCT/CA2016/000241)

[87] (2998006)

[21] **2,998,010**  
[13] A1

[51] **Int.Cl. A01K 1/06 (2006.01) A01K 1/062 (2006.01)**

[25] EN

[54] **LIVESTOCK HEAD HOLDER WITH SINGULAR OPERATING LEVER FOR CLOSING, UNLOCKING AND OPENING SAME**

[54] **SUPPORT DE TETE DE BETAIL DOTE D'UN LEVIER D'ACTIONNEMENT UNIQUE SERVANT A FERMER, DEBLOQUER ET OUVRIR LEDIT SUPPORT**

[72] FIRTH, PHILIP MALCOLM, CA

[71] NORTHQUIP INC., CA

[85] 2018-03-13

[86] 2016-11-15 (PCT/CA2016/051329)

[87] (2998010)

[21] **2,998,054**  
[13] A1

[51] **Int.Cl. F16H 57/04 (2010.01) F02C 7/36 (2006.01) F02K 3/04 (2006.01)**

[25] EN

[54] **OIL SUPPLY DEVICE FOR AN EPICYCLIC REDUCTION GEAR SET**

[54] **DISPOSITIF D'ALIMENTATION EN HUILE POUR UN REDUCTEUR A TRAIN EPICYCLOIDAL**

[72] GEDIN, PATRICE, FR

[72] FERAUD, BENJAMIN, FR

[71] SAFRAN TRANSMISSION SYSTEMS, FR

[85] 2018-03-08

[86] 2016-09-08 (PCT/FR2016/052238)

[87] (WO2017/046481)

[30] FR (1558616) 2015-09-15

[21] **2,998,057**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] FR

[54] **METHOD AND DEVICE FOR SNP GENOTYPING**

[54] **PROCEDE ET DISPOSITIF POUR LE GENOTYPAGE DE SNP**

[72] BRES, JEAN-CHARLES, FR

[72] GOMEZ-MARTINEZ, JULIEN, FR

[71] ETABLISSEMENT FRANCAIS DU SANG, FR

[85] 2018-03-08

[86] 2016-09-09 (PCT/FR2016/052272)

[87] (WO2017/042509)

[30] FR (1558465) 2015-09-11

[21] **2,998,061**  
[13] A1

[51] **Int.Cl. H01M 8/1004 (2016.01) H01M 8/0258 (2016.01) H01M 8/0263 (2016.01) H01M 8/04007 (2016.01) H01M 8/04225 (2016.01)**

[25] FR

[54] **FUEL CELL PROVIDED WITH A TEMPERATURE-CONTROL SYSTEM AND METHOD FOR THERMAL CONTROL OF THE CELL**

[54] **PILE A COMBUSTIBLE MUNIE D'UN SYSTEME DE REGULATION DE TEMPERATURE ET PROCEDE DE REGULATION THERMIQUE DE LA PILE**

[72] VERDIER, ANTOINE, FR

[72] HORDE, THEOPHILE, FR

[72] BOUDJEMAA, FABIEN, FR

[71] SAFRAN POWER UNITS, FR

[85] 2018-03-08

[86] 2016-09-12 (PCT/FR2016/052284)

[87] (WO2017/046495)

[30] FR (1558596) 2015-09-15

[21] **2,998,063**  
[13] A1

[51] **Int.Cl. B03D 1/008 (2006.01) B03D 1/01 (2006.01) B03D 1/012 (2006.01) C22B 3/00 (2006.01)**

[25] FR

[54] **FLOTATION AGENT OF THIOL ETHER STRUCTURE**

[54] **AGENT DE FLOTTATION DE STRUCTURE THIOL ETHER**

[72] MONGUILLON, BERNARD, FR

[71] ARKEMA FRANCE, FR

[85] 2018-03-08

[86] 2016-09-16 (PCT/FR2016/052355)

[87] (WO2017/046543)

[30] FR (1558755) 2015-09-17

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[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 38/28 (2006.01) A61K 39/35 (2006.01)**  
[25] EN  
[54] **GLYCOTARGETING THERAPEUTICS**  
[54] **AGENTS THERAPEUTIQUES DE GLYCOCIBLAGE**  
[72] HUBBELL, JEFFREY A., CH  
[72] WILSON, DAVID SCOTT, CH  
[71] ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE, CH  
[85] 2018-03-08  
[86] 2016-09-16 (PCT/IB2016/001411)  
[87] (WO2017/046652)  
[30] US (14/859,292) 2015-09-19  
[30] US (15/185,564) 2016-06-17

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[21] **2,998,088**  
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01)**  
[25] EN  
[54] **CHARACTERISATION OF DYNAMICAL PHYSICAL SYSTEMS**  
[54] **CARACTERISATION DE SYSTEMES PHYSIQUES DYNAMIQUES**  
[72] LEVY, MATTHEW CHASE, GB  
[71] NOBLE ARTIFICIAL INTELLIGENCE, INC., US  
[85] 2018-01-29  
[86] 2016-05-25 (PCT/GB2016/051509)  
[87] (WO2016/193672)  
[30] GB (1509636.5) 2015-06-03

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[21] **2,998,092**  
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 47/34 (2017.01) A61K 48/00 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITION CONTAINING ANIONIC DRUG, AND PREPARATION METHOD THEREFOR**  
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT UN MEDICAMENT ANIONIQUE, ET SON PROCEDE DE PREPARATION**  
[72] NAM, HYE YEONG, KR  
[72] KIM, BONG-OH, KR  
[72] SEO, MIN-HYO, KR  
[72] SON, JI-YEON, KR  
[72] CHOI, JI-HYE, KR  
[72] KIM, SANG HOON, KR  
[71] SAMYANG BIOPHARMACEUTICALS CORPORATION, KR  
[85] 2018-03-08  
[86] 2016-09-12 (PCT/KR2016/010269)  
[87] (WO2017/048018)  
[30] KR (10-2015-0130587) 2015-09-15  
[30] KR (10-2016-0117053) 2016-09-12

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[21] **2,998,098**  
[13] A1

[51] **Int.Cl. H04N 19/00 (2014.01) H04N 19/105 (2014.01) H04N 19/134 (2014.01) H04N 19/176 (2014.01) H04N 19/50 (2014.01) H04N 19/52 (2014.01) H04N 19/59 (2014.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL**  
[54] **PROCEDE ET DISPOSITIF POUR TRAITER UN SIGNAL VIDEO**  
[72] LEE, BAE KEUN, KR  
[72] KIM, JOO YOUNG, KR  
[71] KT CORPORATION, KR  
[85] 2018-03-08  
[86] 2016-09-12 (PCT/KR2016/010278)  
[87] (WO2017/043949)  
[30] KR (10-2015-0128964) 2015-09-11  
[30] KR (10-2015-0129439) 2015-09-14

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[21] **2,998,105**  
[13] A1

[51] **Int.Cl. C12P 5/02 (2006.01) A01G 18/00 (2018.01) A01H 1/04 (2006.01) A01H 15/00 (2006.01) C02F 11/04 (2006.01) C05F 5/00 (2006.01)**  
[25] EN  
[54] **AGROINDUSTRIAL PROCESS WITH MINIMAL ENVIRONMENTAL IMPACT**  
[54] **PROCESSUS AGRO-INDUSTRIEL A L'IMPACT ENVIRONNEMENTAL MINIMAL**  
[72] ROLLI, GIAN PAOLO, IT  
[71] INDUSTRIE ROLLI ALIMENTARI S.P.A., IT  
[85] 2018-03-08  
[86] 2015-09-11 (PCT/IT2015/000220)  
[87] (WO2017/042841)

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[21] **2,998,113**  
[13] A1

[51] **Int.Cl. F41C 23/06 (2006.01)**  
[25] EN  
[54] **RECOIL-DAMPING DEVICE**  
[54] **DISPOSITIF D'AMORTISSEMENT DE RECOL**  
[72] SCHONBORN, DAMIAN, AT  
[72] KRONSTEINER, MARTIN, AT  
[71] SCHONBORN, DAMIAN, AT  
[85] 2018-03-07  
[86] 2016-08-10 (PCT/AT2016/060027)  
[87] (WO2017/044997)  
[30] AT (A 50784/2015) 2015-09-14

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[21] **2,998,192**  
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01)**  
[25] EN  
[54] **OVERHEAD LUGGAGE COMPARTMENT**  
[54] **COMPARTIMENT A BAGAGES SURELEVE**  
[72] SCHORKHUBER, JAKOB, AT  
[71] FACC AG, AT  
[85] 2018-03-09  
[86] 2016-09-16 (PCT/AT2016/060061)  
[87] (WO2017/045006)  
[30] AT (A 50803/2015) 2015-09-18

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[21] **2,998,230**  
[13] A1

[51] **Int.Cl. C08J 5/04 (2006.01) B29B 9/14 (2006.01) C08J 3/12 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A LIGNOCELLULOSE PLASTIC COMPOSITE MATERIAL**

[54] **PROCEDE DE FABRICATION D'UN MATERIAU COMPOSITE A BASE DE MATIERE SYNTHETIQUE ET DE LIGNOCELLULOSE**

[72] KRAUSE, ANDREAS, DE  
[72] MERTENS, OLIVER, DE  
[72] KORDSACHIA, OTHAR, DE  
[71] UNIVERSITAT HAMBURG, DE  
[85] 2018-03-09  
[86] 2016-08-16 (PCT/DE2016/200380)  
[87] (WO2017/045676)  
[30] DE (10 2015 115 472.2) 2015-09-14

[21] **2,998,273**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO SECURE TACTICAL NETWORKS**

[54] **AMELIORATIONS DANS ET EN RAPPORT AVEC LES RESEAUX TACTIQUES SECURISES**

[72] HUBBARD, ADRIAN CHRISTOPHER, GB  
[72] RALLINGS, PAUL JOHN MICHAEL, GB  
[72] BARTON, GREGORY WILLIAM JAMES, GB  
[72] ELSON, CHRISTOPHER JOHN, GB  
[71] BAE SYSTEMS PLC, GB  
[85] 2018-03-09  
[86] 2016-06-28 (PCT/GB2016/051934)  
[87] (WO2017/042527)  
[30] GB (1516118.5) 2015-09-11  
[30] EP (15275201.0) 2015-09-11

[21] **2,998,275**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**

[25] EN

[54] **IN VITRO METHOD FOR IDENTIFYING A PREGNANCY RELATED DISEASE**

[54] **PROCEDE IN VITRO POUR L'IDENTIFICATION D'UNE MALADIE ASSOCIEE A LA GROSSESSE**

[72] CHAPARRO PADILLA, ALEJANDRA, CL  
[72] ILLANES LOPEZ, SEBASTIAN, CL  
[71] UNIVERSIDAD DE LOS ANDES, CL  
[85] 2018-03-09  
[86] 2016-09-12 (PCT/IB2016/055426)  
[87] (WO2017/042751)  
[30] US (62/217,270) 2015-09-11  
[30] EP (16161490.4) 2016-03-21

[21] **2,998,277**  
[13] A1

[51] **Int.Cl. F01D 5/18 (2006.01) F01D 9/04 (2006.01)**

[25] EN

[54] **NOZZLE SECTOR FOR A TURBINE ENGINE WITH DIFFERENTIALLY COOLED BLADES**

[54] **SECTEUR DE DISTRIBUTEUR POUR TURBOMACHINE AVEC DES AUBES REFROIDIES DE MANIERE DIFFERENTIELLE**

[72] BAUMAS, OLIVIER JEAN DANIEL, FR  
[72] ARRAITZ, ANNE-MARIE, FR  
[72] BEGUIN, ANTHONY PIERRE, FR  
[72] DOUGLAS, PRAGASH, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-03-09  
[86] 2016-09-15 (PCT/FR2016/052338)  
[87] (WO2017/046534)  
[30] FR (15 58759) 2015-09-17

[21] **2,998,289**  
[13] A1

[51] **Int.Cl. C07C 67/08 (2006.01) C11C 3/02 (2006.01)**

[25] EN

[54] **GLYCEROL ESTER PRODUCTION FROM WASTES CONTAINING ORGANIC OILS AND/OR FATS**

[54] **PRODUCTION D'ESTER DE GLYCEROL A PARTIR DE DECHETS CONTENANT DES HUILES ET/OU DES GRAISSES ORGANIQUES**

[72] DOMINGUEZ DE MATOS, ANA LUISA, PT  
[72] MORAIS SEQUEIRA, ALBINA RAQUEL, PT  
[71] RESIWAY - SOLUCOES SUSTENTAVEIS, LDA., PT  
[85] 2018-03-09  
[86] 2016-09-12 (PCT/IB2016/055422)  
[87] (WO2017/042750)  
[30] PT (108810) 2015-09-11

[21] **2,998,291**  
[13] A1

[51] **Int.Cl. A61K 31/22 (2006.01) A61K 31/365 (2006.01) A61P 7/02 (2006.01)**

[25] EN

[54] **ACETOGENIN MOLECULES HAVING ANTIPLATELET AND/OR ANTITHROMBIC ACTIVITIES, AND METHODS AND COMPOSITIONS THEREOF**

[54] **MOLECULES D'ACETOGENINE PRESENTANT UNE ACTIVITE ANTITHROMBIQUE ET/OU UNE ACTIVITE D'INHIBITION DE L'AGREGATION PLAQUETTAIRE, PROCEDES ET COMPOSITIONS ASSOCIES**

[72] HERNANDEZ BRENES, CARMEN, MX  
[72] GARCIA RIVAS, GERARDO DE JESUS, MX  
[72] TORRE AMIONE, GUILLERMO, MX  
[72] RODRIGUEZ SANCHEZ, DARIANA GRACIELA, MX  
[71] INSTITUTO TECNOLOGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY, MX  
[85] 2018-03-09  
[86] 2015-09-23 (PCT/IB2015/002021)  
[87] (WO2017/051208)

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[21] **2,998,293**  
[13] A1

[51] **Int.Cl. C01G 5/00 (2006.01)**  
[25] EN  
[54] **METHODS FOR OBTAINING SALTS OF SILVER(II) AND HYDRATES THEREOF, PRODUCTS OBTAINED BY THE METHODS AND USE OF THE SAME**  
[54] **PROCEDES D'OBTENTION DE SELS D'ARGENT(II) ET D'HYDRATES DE CES DERNIERS, PRODUITS OBTENUS PAR LES PROCEDES ET LEUR UTILISATION**  
[72] LESZCZYNSKI, PIOTR, PL  
[72] BUDNIAK, ADAM KRZYSZTOF, PL  
[72] ADAMCZYK, WOJCIECH MAREK, PL  
[72] GAWRACKZYNSKI, JAKUB HENRYK, PL  
[72] GILEWSKI, TOMASZ EDWARD, PL  
[72] POLYCYZYNSKI, PIOTR, PL  
[72] JURCZAKOWSKI, RAFAL ROBERT, PL  
[72] GROCHALA, WOJCIECH RAFAL, PA  
[72] MAZEJ, ZORAN, SL  
[71] UNIWERSYTET WARSZAWSKI, PL  
[85] 2018-03-09  
[86] 2016-09-12 (PCT/IB2016/001280)  
[87] (WO2017/042624)  
[30] PL (P.413922) 2015-09-11  
[30] PL (P.416026) 2016-02-04  
[30] PL (P.418465) 2016-08-25  
[30] PL (P.418629) 2016-09-09  
[30] PL (P.418630) 2016-09-09

[21] **2,998,295**  
[13] A1

[51] **Int.Cl. G06Q 20/36 (2012.01)**  
[25] EN  
[54] **PROXY DEVICE FOR REPRESENTING MULTIPLE CREDENTIALS**  
[54] **DISPOSITIF MANDATAIRE PERMETTANT DE REPRESENTER PLUSIEURS AUTHENTIFIANTS**  
[72] CAIRNS, GEOFFREY IAN, US  
[72] MAGES, KENNETH, US  
[72] DRAKE, JAN, US  
[72] MACDONALD, DANIEL J., US  
[72] BAISCH, SCOTT CHARLES, US  
[72] ENGELBERG, ALEX BENJAMIN, US  
[72] MURRAY, PAUL, US  
[72] MORGAN, ALAN J., US  
[71] VERRENCY HOLDINGS LIMITED, SG  
[85] 2018-03-09  
[86] 2016-08-24 (PCT/IB2016/001395)  
[87] (WO2017/042629)  
[30] US (62/283,769) 2015-09-10  
[30] US (15/245,519) 2016-08-24

[21] **2,998,309**  
[13] A1

[51] **Int.Cl. E02D 17/13 (2006.01)**  
[25] EN  
[54] **DRILLING MACHINE**  
[54] **MACHINE DE FORAGE**  
[72] CASCARINO, SARA, FR  
[72] PERPEZAT, DANIEL, FR  
[72] PIVERT, LAURENT, FR  
[72] BERNASINSKI, REGIS, FR  
[71] SOLETANCHE FREYSSINET, FR  
[85] 2018-03-09  
[86] 2016-09-08 (PCT/FR2016/052247)  
[87] (WO2017/042496)  
[30] FR (1558426) 2015-09-10

[21] **2,998,312**  
[13] A1

[51] **Int.Cl. C07K 14/245 (2006.01) C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12N 9/16 (2006.01) C12N 15/70 (2006.01) C12P 13/12 (2006.01)**  
[25] EN  
[54] **NOVEL VARIANT OF O-PHOSPHOSERINE EXPORTER AND METHOD OF PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND ITS DERIVATIVES USING THE SAME**  
[54] **VARIANT NOVATEUR D'EXPORTATEUR O-PHOSPHOSERINE ET METHODE DE PRODUCTION D'O-PHOSPHOSERINE, DE CYSTEINE, ET SES DERIVES EMPLOYANT LEDIT VARIANT**  
[72] KIM, SOL, KR  
[72] KANG, MIN GYEONG, KR  
[72] YOO, IN HWA, KR  
[72] KIM, JONG HYUN, KR  
[72] KIM, HYE WON, KR  
[71] CJ CHEILJEDANG CORPORATION, KR  
[85] 2018-03-09  
[86] 2016-09-09 (PCT/KR2016/010168)  
[87] (WO2017/043915)  
[30] KR (10-2015-0129127) 2015-09-11

[21] **2,998,315**  
[13] A1

[51] **Int.Cl. F16L 58/16 (2006.01) D01F 9/16 (2006.01) D01F 11/14 (2006.01) F16L 11/08 (2006.01)**  
[25] EN  
[54] **HIGH PRESSURE PIPE AND METHOD FOR PRODUCING SUCH PIPE**  
[54] **TUYAU A HAUTE PRESSION ET PROCEDE DE FABRICATION D'UN TEL TUYAU**  
[72] DALMOLEN, LAMBERTUS GERRIT PETER, NL  
[71] PIPELIFE NEDERLAND B.V., NL  
[85] 2018-03-09  
[86] 2016-08-30 (PCT/NL2016/050604)  
[87] (WO2017/048117)  
[30] NL (2015434) 2015-09-14



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[13] A1

[51] **Int.Cl. F04D 29/26 (2006.01) F16D 9/06 (2006.01)**  
[25] EN  
[54] **FAN ROTATABLY CONNECTED TO A DRIVE SHAFT BY MEANS OF A FUSIBLE ELEMENT**  
[54] **VENTILATEUR ROTATIVEMENT CONNECTE A UN ARBRE MOTEUR PAR L'INTERMEDIAIRE D'UN ELEMENT FUSIBLE**  
[72] DEL RIO, FABIEN, FR  
[72] GARCIA, FREDERIC, FR  
[72] GAUHAROU, FRANCOIS, FR  
[72] SALVADOR, RENE, FR  
[71] SAFRAN ELECTRICAL & POWER, FR  
[85] 2018-03-12  
[86] 2016-09-09 (PCT/FR2016/052264)  
[87] (WO2017/046490)  
[30] FR (1558750) 2015-09-17

[21] **2,998,442**  
[13] A1

[51] **Int.Cl. C08F 8/32 (2006.01) C08F 2/38 (2006.01) C08F 8/44 (2006.01) C08F 293/00 (2006.01) C10L 1/236 (2006.01) C10L 10/06 (2006.01)**  
[25] FR  
[54] **COPOLYMER THAT CAN BE USED AS DETERGENT ADDITIVE FOR FUEL**  
[54] **COPOLYMERE UTILISABLE COMME ADDITIF DETERGENT POUR CARBURANT**  
[72] PREVOST, JULIE, FR  
[71] TOTAL MARKETING SERVICES, FR  
[85] 2018-03-12  
[86] 2016-09-15 (PCT/FR2016/052327)  
[87] (WO2017/046526)  
[30] FR (1558831) 2015-09-18

[21] **2,998,456**  
[13] A1

[51] **Int.Cl. A61K 38/21 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) A61P 37/08 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS RELATING TO THE TREATMENT OF DISEASES**  
[54] **COMPOSITIONS ET METHODES ASSOCIEES AU TRAITEMENT DE MALADIES**  
[72] STIMSON, WILLIAM, GB  
[71] ALFACYTE LTD, GB  
[85] 2018-03-12  
[86] 2016-09-14 (PCT/GB2016/052841)  
[87] (WO2017/046583)  
[30] GB (1516303.3) 2015-09-15  
[30] GB (1516437.9) 2015-09-16

[21] **2,998,457**  
[13] A1

[51] **Int.Cl. C02F 1/30 (2006.01) C02F 1/32 (2006.01) C02F 1/72 (2006.01)**  
[25] EN  
[54] **ROTATING CONTACTOR REACTOR**  
[54] **REACTEUR A CONTACTEUR ROTATIF**  
[72] HUDDERSMAN, KATHERINE, GB  
[72] CHI TANGYIE, GEORGE, GB  
[71] DE MONTFORT UNIVERSITY, GB  
[85] 2018-03-12  
[86] 2016-09-14 (PCT/GB2016/052849)  
[87] (WO2017/046589)  
[30] GB (1516253.0) 2015-09-14

[21] **2,998,465**  
[13] A1

[51] **Int.Cl. G06F 9/445 (2018.01)**  
[25] EN  
[54] **APPLICATION PROVISIONING SYSTEM FOR REQUESTING CONFIGURATION UPDATES FOR APPLICATION OBJECTS ACROSS DATA CENTERS**  
[54] **SYSTEME DE FOURNITURE D'APPLICATIONS POUR LA REQUETE DE MISES A JOUR DE CONFIGURATION POUR DES OBJETS D'APPLICATION A TRAVERS DES CENTRES DE DONNEES**  
[72] PURUSOTHAMAN, ANAND, US  
[72] PALANISAMY, MURALI, US  
[71] APPVIEWX INC, US  
[85] 2018-03-12  
[86] 2016-09-08 (PCT/IB2016/055351)  
[87] (WO2017/046679)  
[30] US (14/853,249) 2015-09-14

[21] **2,998,570**  
[13] A1

[51] **Int.Cl. E02D 29/14 (2006.01) E05B 13/00 (2006.01) E05B 15/12 (2006.01) E05B 17/18 (2006.01) E05B 35/00 (2006.01) E05C 9/00 (2006.01)**  
[25] EN  
[54] **MANHOLE COMPRISING A DEVICE FOR SAFETY CLOSING AND LOCKING THE MANHOLE**  
[54] **REGARD COMPRENANT UN DISPOSITIF DE FERMETURE ET DE VERROUILLAGE DE SECURITE DU REGARD**  
[72] DE SIENA, DAVIDE, IT  
[71] DSG S.R.L., IT  
[85] 2018-03-13  
[86] 2016-09-13 (PCT/IB2016/055440)  
[87] (WO2017/046696)  
[30] IT (102015000051147) 2015-09-14

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[13] A1

[51] **Int.Cl. F02G 1/053 (2006.01)**  
[25] FR  
[54] **DUAL-ACTING EXPANSION CYLINDER WITH ADAPTIVE SUPPORT**  
[54] **CYLINDRE DETENDEUR A DOUBLE EFFET A SUPPORT ADAPTATIF**  
[72] RABHI, VIANNEY, FR  
[71] RABHI, VIANNEY, FR  
[85] 2018-03-13  
[86] 2016-09-07 (PCT/FR2016/052232)  
[87] (WO2017/046479)  
[30] FR (1558585) 2015-09-14

[21] **2,998,687**  
[13] A1

[51] **Int.Cl. A61B 5/16 (2006.01) G16H 50/20 (2018.01) A61B 5/00 (2006.01) A61B 5/1455 (2006.01) G06F 15/18 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DETECTING SUBLIMINAL FACIAL RESPONSES IN RESPONSE TO SUBLIMINAL STIMULI**  
[54] **SYSTEME ET METHODE DE DETECTION DES REACTIONS FACIALES SUBLIMINALES EN REACTION A DES STIMULI SUBLIMINAUX**  
[72] LEE, KANG, CA  
[72] ZHENG, PU, CA  
[72] POZZUOLI, MARZIO, CA  
[71] NURALOGIX CORPORATION, CA  
[85] 2018-03-21  
[86] 2017-11-14 (PCT/CA2017/051355)  
[87] (2998687)  
[30] US (62/421,508) 2016-11-14

[21] **2,998,693**  
[13] A1

[51] **Int.Cl. A47L 9/00 (2006.01) A47L 5/24 (2006.01) A47L 5/28 (2006.01) A47L 9/16 (2006.01)**  
[25] EN  
[54] **VACUUM CLEANER**  
[54] **ASPIRATEUR**  
[72] DIMBYLOW, STEPHEN ROBERT, GB  
[71] DYSON TECHNOLOGY LIMITED, GB  
[85] 2018-03-14  
[86] 2016-08-23 (PCT/GB2016/052609)  
[87] (WO2017/046557)  
[30] GB (1516496.5) 2015-09-17

[21] **2,998,696**  
[13] A1

[51] **Int.Cl. A47L 5/24 (2006.01) A47L 5/28 (2006.01) A47L 9/16 (2006.01)**  
[25] EN  
[54] **VACUUM CLEANER**  
[54] **ASPIRATEUR**  
[72] DIMBYLOW, STEPHEN ROBERT, GB  
[71] DYSON TECHNOLOGY LIMITED, GB  
[85] 2018-03-14  
[86] 2016-08-23 (PCT/GB2016/052610)  
[87] (WO2017/046558)  
[30] GB (1516498.1) 2015-09-17

[21] **2,998,702**  
[13] A1

[51] **Int.Cl. A47L 5/24 (2006.01) A47L 5/28 (2006.01) A47L 9/00 (2006.01)**  
[25] EN  
[54] **VACUUM CLEANER**  
[54] **ASPIRATEUR**  
[72] DIMBYLOW, STEPHEN ROBERT, GB  
[71] DYSON TECHNOLOGY LIMITED, GB  
[85] 2018-03-14  
[86] 2016-08-23 (PCT/GB2016/052611)  
[87] (WO2017/046559)  
[30] GB (1516499.9) 2015-09-17

[21] **2,998,703**  
[13] A1

[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/34 (2012.01)**  
[25] EN  
[54] **PAYMENT PROCESSING SYSTEM USING ENCRYPTED PAYMENT INFORMATION AND METHOD FOR PROCESSING THEREOF**  
[54] **SYSTEME DE TRAITEMENT DE PAIEMENT UTILISANT DES INFORMATIONS DE PAIEMENT CHIFFREES, ET PROCEDE ASSOCIE**  
[72] JEONG, HYE JIN, KR  
[71] JINI CO., LTD, KR  
[85] 2018-03-14  
[86] 2016-01-07 (PCT/KR2016/000145)  
[87] (WO2016/153159)  
[30] KR (10-2015-0040710) 2015-03-24

[21] **2,998,704**  
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 40/00 (2012.01) H04L 9/32 (2006.01)**  
[25] EN  
[54] **ELECTRONIC FINANCIAL PROCESSING SYSTEM USING PERSONAL ATM TERMINAL AND METHOD FOR PROCESSING THEREOF**  
[54] **SYSTEME DE TRAITEMENT FINANCIER ELECTRONIQUE EMPLOYANT UN TERMINAL DE GUICHET AUTOMATIQUE PERSONNEL ET METHODE DE TRAITEMENT ASSOCIEE**  
[72] JEONG, HYE JIN, KR  
[71] JINI CO., LTD., KR  
[85] 2018-03-14  
[86] 2016-09-12 (PCT/KR2016/010237)  
[87] (WO2017/048005)  
[30] KR (10-2015-0131733) 2015-09-17

[21] **2,998,705**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 3/00 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**  
[25] EN  
[54] **1-PHENYLPYRROLIDIN-2-ONE DERIVATIVES AS PERK INHIBITORS**  
[54] **DERIVES DE 1-PHENYLPYRROLIDIN-2-ONE COMME INHIBITEURS DE PERK**  
[72] AXTEN, JEFFREY MICHAEL, US  
[72] FAUCHER, NICOLAS ERIC, FR  
[72] DAUGAN, ALAIN CLAUDE-MARIE, FR  
[72] KETHIRI, RAGHAVA REDDY, IN  
[72] KRISTAM, RAJENDRA, IN  
[72] VENKATESHAPPA, CHANDREGOWDA, IN  
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB  
[85] 2018-03-14  
[86] 2016-09-15 (PCT/IB2016/055504)  
[87] (WO2017/046737)  
[30] US (62/218,740) 2015-09-15  
[30] US (62/318,321) 2016-04-05

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[21] **2,998,707**  
[13] A1

[51] **Int.Cl. F25B 9/14 (2006.01)**  
[25] EN  
[54] **THERMOACOUSTIC ENERGY CONVERSION SYSTEM**  
[54] **SYSTEME DE CONVERSION D'ENERGIE THERMOACOUSTIQUE**  
[72] DE BLOK, CORNELIS MARIA, NL  
[71] SOUNDENERGY B.V., NL  
[85] 2018-03-14  
[86] 2015-09-17 (PCT/NL2015/050640)  
[87] (WO2017/048116)

[21] **2,998,710**  
[13] A1

[51] **Int.Cl. F16H 1/28 (2006.01)**  
[25] EN  
[54] **PRECISION PLANETARY GEAR**  
[54] **ENGRENAGE PLANETAIRE DE PRECISION**  
[72] FELISA, GIUSEPPE, IT  
[72] FIORETTI, DANIELE, IT  
[71] SAMP S.P.A. CON UNICO SOCIO, IT  
[85] 2018-03-14  
[86] 2016-09-16 (PCT/IB2016/055547)  
[87] (WO2017/046767)  
[30] IT (102015000052630) 2015-09-17

[21] **2,998,712**  
[13] A1

[51] **Int.Cl. B29C 73/10 (2006.01) B64F 5/00 (2017.01) B29C 73/26 (2006.01)**  
[25] EN  
[54] **METHOD OF REPAIRING A COMPOSITE MATERIAL**  
[54] **PROCEDE DE REPARATION D'UN MATERIAU COMPOSITE**  
[72] HANNA, SAMUEL COLIN, GB  
[72] ARMSTRONG, JOHN A., GB  
[72] ROBB, STEVEN, GB  
[72] BROWN, TOM, GB  
[71] SHORT BROTHERS PLC, IE  
[85] 2018-03-14  
[86] 2016-09-12 (PCT/GB2016/052809)  
[87] (WO2017/046573)  
[30] GB (1516391.8) 2015-09-16

[21] **2,998,714**  
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 3/10 (2006.01) B32B 3/14 (2006.01) B32B 7/04 (2006.01) B32B 7/12 (2006.01) B32B 7/14 (2006.01) B32B 15/04 (2006.01) B32B 15/08 (2006.01) B32B 15/14 (2006.01) B64C 1/12 (2006.01)**  
[25] EN  
[54] **LAMINATE OF MUTUALLY BONDED ADHESIVE LAYERS AND METAL SHEETS, AND METHOD TO OBTAIN SUCH LAMINATE**  
[54] **STRATIFIE DE COUCHES ADHESIVES ET DE FEUILLES METALLIQUES MUTUELLEMENT LIEES, ET PROCEDE D'OBTENTION D'UN TEL STRATIFIE**  
[72] GUNNINK, JAN WILLEM, NL  
[72] GUNNINK, SIMON, NL  
[71] GTM-ADVANCED PRODUCTS B.V., NL  
[85] 2018-03-14  
[86] 2016-09-15 (PCT/NL2016/050636)  
[87] (WO2017/048122)  
[30] NL (2015437) 2015-09-15

[21] **2,998,721**  
[13] A1

[51] **Int.Cl. H01R 13/18 (2006.01) B64G 1/42 (2006.01) B64G 1/58 (2006.01) H01R 13/04 (2006.01) H01R 13/627 (2006.01) H01R 13/64 (2006.01)**  
[25] FR  
[54] **DEVICE FOR ELECTRICAL CONNECTION, METHOD OF ASSEMBLING A FEMALE PART OF THIS CONNECTION DEVICE, SUPERINSULATING BLANKET AND SPACECRAFT**  
[54] **DISPOSITIF DE CONNEXION ELECTRIQUE, PROCEDE D'ASSEMBLAGE D'UNE PARTIE FEMELLE DE CE DISPOSITIF DE CONNEXION, MATELAS SUPER ISOLANT ET ENGIN SPATIAL**  
[72] CESARI, PHILIPPE, FR  
[72] COTTIER, JACQUES, FR  
[72] CLAUDET, VINCENT, FR  
[71] AIRBUS DEFENCE AND SPACE SAS, FR  
[85] 2018-03-14  
[86] 2016-07-07 (PCT/FR2016/051737)  
[87] (WO2017/006064)  
[30] FR (1501460) 2015-07-09

[21] **2,998,722**  
[13] A1

[51] **Int.Cl. B65D 83/38 (2006.01) B05B 11/00 (2006.01)**  
[25] EN  
[54] **SPRAYING DEVICE**  
[54] **DISPOSITIF DE PULVERISATION**  
[72] BUTLER, MARTIN, CN  
[72] BRUNT, JAMES EDWARD, US  
[72] DAS, AVIJIT, GB  
[72] GAMBLE, RICHARD, GB  
[72] WITTY, CHRISTOPHER, GB  
[72] WOOLLEY, SIMON, GB  
[72] SANDERS, DAVID, GB  
[71] RECKITT BENCKISER (BRANDS) LIMITED, GB  
[85] 2018-03-14  
[86] 2016-09-19 (PCT/GB2016/052915)  
[87] (WO2017/046615)  
[30] GB (1516546.7) 2015-09-18

[21] **2,998,724**  
[13] A1

[51] **Int.Cl. H01G 11/36 (2013.01) H01G 11/38 (2013.01) H01M 4/04 (2006.01) H01M 4/36 (2006.01) H01M 4/139 (2010.01) H01M 4/62 (2006.01)**  
[25] EN  
[54] **GRAPHENE DISPERSION, PROCESS FOR PRODUCING SAME, PROCESS FOR PRODUCING PARTICLES OF GRAPHENE/ACTIVE MATERIAL COMPOSITE, AND PROCESS FOR PRODUCING ELECTRODE PASTE**  
[54] **DISPERSION DE GRAPHENE, SON PROCEDE DE PRODUCTION, PROCEDE DE PRODUCTION DE PARTICULES DE COMPOSITE DE GRAPHENE/MATERIAU ACTIF, ET PROCEDE DE PRODUCTION DE PATE D'ELECTRODE**  
[72] MANABE, KOICHIRO, JP  
[72] TAMAKI, EIICHIRO, JP  
[72] KAWASAKI, MANABU, JP  
[71] TORAY INDUSTRIES, INC., JP  
[85] 2018-03-14  
[86] 2016-09-09 (PCT/JP2016/076654)  
[87] (WO2017/047521)  
[30] JP (2015-184813) 2015-09-18

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[21] **2,998,731**  
[13] A1

[51] **Int.Cl. C04B 35/80 (2006.01) C04B 35/83 (2006.01)**  
[25] FR  
[54] **PART MADE OF A COMPOSITE MATERIAL**  
[54] **PIECE EN MATERIAU COMPOSITE**  
[72] DAMBRINE, BRUNO JACQUES GERARD, FR  
[71] SAFRAN AIRCRAFT ENGINES, FR  
[85] 2018-03-14  
[86] 2016-09-15 (PCT/FR2016/052343)  
[87] (WO2017/046538)  
[30] FR (1558797) 2015-09-18

[21] **2,998,781**  
[13] A1

[51] **Int.Cl. A61F 13/02 (2006.01) A61F 13/12 (2006.01) A61F 17/00 (2006.01)**  
[25] EN  
[54] **MEDICAL PLASTER**  
[54] **PANSEMENT MEDICAL**  
[72] STAVROU, PETROS, DE  
[71] STAVROU, PETROS, DE  
[71] POINTEK, ANDRE, DE  
[85] 2018-03-15  
[86] 2016-07-13 (PCT/DE2016/100314)  
[87] (WO2017/045663)  
[30] DE (20 2015 006 520.1) 2015-09-15  
[30] DE (10 2015 118 780.9) 2015-11-03

[21] **2,998,787**  
[13] A1

[51] **Int.Cl. B01D 53/88 (2006.01) A61L 9/20 (2006.01)**  
[25] EN  
[54] **ENCLOSED SPACE INCLUDING A PHOTOCATALYTIC COATING AND A LIGHTING SYSTEM**  
[54] **ESPACE FERME INCLUANT UN REVETEMENT PHOTOCATALYTIQUE ET UN SYSTEME D'ECLAIRAGE**  
[72] BERNARDONI, MASSIMO, GB  
[72] CIANCI, ANTONIO, GB  
[71] AM TECHNOLOGY LIMITED, GB  
[85] 2018-03-15  
[86] 2016-09-16 (PCT/GB2016/052889)  
[87] (WO2017/046596)  
[30] GB (1516363.7) 2015-09-16

[21] **2,998,789**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01)**  
[25] EN  
[54] **VACCINE COMPOSITIONS COMPRISING C-C MOTIF CHEMOKINE 22 (CCL22) OR FRAGMENTS THEREOF**  
[54] **COMPOSITIONS DE VACCIN COMPRENANT LA CHIMIOKINE 22 A MOTIF C-C (CCL22) OU DES FRAGMENTS DE CELLE-CI**  
[72] ANDERSEN, MADSD HALD, DK  
[71] HERLEV HOSPITAL, DK  
[85] 2018-03-15  
[86] 2016-09-16 (PCT/DK2016/050301)  
[87] (WO2017/045691)  
[30] DK (PA 2015 70591) 2015-09-16

[21] **2,998,796**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **PYRAZOLOPYRIMIDINE DERIVATIVES AS BTK INHIBITORS FOR THE TREATMENT OF CANCER**  
[54] **DERIVES DE PYRAZOLOPYRIMIDINE COMME INHIBITEURS DE BTK POUR LE TRAITEMENT DU CANCER**  
[72] GUISOT, NICOLAS, GB  
[71] LOXO ONCOLOGY, INC., US  
[85] 2018-03-15  
[86] 2016-09-16 (PCT/GB2016/052897)  
[87] (WO2017/046604)  
[30] GB (1516445.2) 2015-09-16  
[30] GB (1522246.6) 2015-12-16  
[30] GB (1613947.9) 2016-08-15

[21] **2,998,822**  
[13] A1

[51] **Int.Cl. A61B 1/307 (2006.01) A61M 3/02 (2006.01)**  
[25] EN  
[54] **ADAPTER, PROCESS AND USE FOR INSTILLATION OF AGENTS INTO THE BLADDER THROUGH THE URETHRA WITHOUT CATHETER**  
[54] **ADAPTATEUR, PROCESSUS ET UTILISATION POUR INSTILLATION D'AGENTS DANS LA VESSIE PAR L'URETRE SANS CATHETER**  
[72] LOVASZ, SANDOR, HU  
[72] RENYI, GABOR, HU  
[72] GIBER, JANOS, HU  
[71] LOVASZ, SANDOR, HU  
[71] RENYI, GABOR, HU  
[71] GIBER, JANOS, HU  
[85] 2018-03-15  
[86] 2016-09-15 (PCT/HU2016/000063)  
[87] (WO2017/046621)  
[30] HU (P1500419) 2015-09-16  
[30] HU (P1500648) 2015-12-23

[21] **2,998,825**  
[13] A1

[51] **Int.Cl. C12N 15/52 (2006.01) C12N 15/82 (2006.01)**  
[25] EN  
[54] **MODIFYING MESSENGER RNA STABILITY IN PLANT TRANSFORMATIONS**  
[54] **MODIFICATION DE LA STABILITE DE L'ARN MESSAGER DANS DES TRANSFORMATIONS VEGETALES**  
[72] STODDARD, THOMAS, US  
[72] LUO, SONG, US  
[71] CELLECTIS, FR  
[85] 2018-03-15  
[86] 2016-09-16 (PCT/IB2016/055554)  
[87] (WO2017/046772)  
[30] US (62/219,842) 2015-09-17  
[30] US (15/056,544) 2016-02-29

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[21] **2,998,829**  
[13] A1

[51] **Int.Cl. G02B 21/36 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS FOR DETECTING AN ENTITY IN A BODILY SAMPLE**  
[54] **METHODES ET APPAREIL DE DETECTION D'ENTITE DANS UN ECHANTILLON CORPOREL**  
[72] ESHEL, YOCHAY SHLOMO, IL  
[72] LEZMY, NATALIE, IL  
[72] GLUCK, DAN, IL  
[72] HOURI YAFIN, ARNON, IL  
[72] POLLAK, JOSEPH JOEL, IL  
[71] S.D. SIGHT DIAGNOSTICS LTD, IL  
[85] 2018-03-15  
[86] 2016-09-15 (PCT/IL2016/051025)  
[87] (WO2017/046799)  
[30] US (62/219,889) 2015-09-17

[21] **2,998,830**  
[13] A1

[51] **Int.Cl. C07F 5/04 (2006.01)**  
[25] EN  
[54] **POLYMORPHS OF IXAZOMIB CITRATE AND PROCESSES FOR THE PREPARATION THEREOF**  
[54] **POLYMORPHES DE CITRATE D'IXAZOMIB ET LEURS PROCEDES DE PREPARATION**  
[72] GORE, VINAYAK, IN  
[72] JOSHI, RAJESH, IN  
[72] TRIPATHI, ANIL, IN  
[72] PATIL, MADHUKAR, IN  
[72] JETTI, RAMAKOTESWARA RAO, IN  
[72] INDUKURI, ANJANEYARAJU, IN  
[72] SINGH, AMIT, IN  
[72] GHOSH, SOUMYAJIT, IN  
[71] MYLAN LABORATORIES LIMITED, IN  
[85] 2018-03-15  
[86] 2016-09-15 (PCT/IN2016/050311)  
[87] (WO2017/046815)  
[30] IN (4958/CHE/2015) 2015-09-16  
[30] IN (5364/CHE/2015) 2015-10-07

[21] **2,998,841**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01)**  
[25] EN  
[54] **NOVEL LACTOBACILLUS HAVING VARIOUS FUNCTIONS, AND USE THEREOF**  
[54] **NOUVEAU LACTOBACILLUS PRESENTANT DIVERSES FONCTIONS ET SON UTILISATION**  
[72] KIM, DONG HYUN, KR  
[72] HAN, MYUNG JOO, KR  
[71] UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY, KR  
[71] NAVIPHARM CO, LTD, KR  
[85] 2018-03-15  
[86] 2016-09-07 (PCT/KR2016/009994)  
[87] (WO2017/047968)  
[30] KR (10-2015-0130124) 2015-09-15  
[30] KR (10-2016-0005018) 2016-01-15

[21] **2,998,865**  
[13] A1

[51] **Int.Cl. H03M 13/37 (2006.01) H04N 21/438 (2011.01) H04N 21/6375 (2011.01) H04N 21/6405 (2011.01) H04N 21/6408 (2011.01) H04N 19/895 (2014.01) H04L 1/18 (2006.01)**  
[25] FR  
[54] **METHOD FOR OPTIMISING THE TRANSMISSION OF VIDEO DATA STREAMS IN A WIRELESS NETWORK**  
[54] **PROCEDE D'OPTIMISATION DE TRANSMISSION DE FLUX DE DONNEES VIDEO DANS UN RESEAU SANS FIL**  
[72] KEIFLIN, PIERRE, FR  
[72] CARNIEL, CHRISTOPHE, FR  
[72] DEDISSE, DANIEL, FR  
[71] VOGO, FR  
[85] 2018-03-15  
[86] 2016-09-15 (PCT/FR2016/052331)  
[87] (WO2017/046528)  
[30] FR (1558670) 2015-09-16

[21] **2,998,871**  
[13] A1

[51] **Int.Cl. F21S 2/00 (2016.01) F21K 9/00 (2016.01) F21K 9/60 (2016.01) F21V 3/00 (2015.01)**  
[25] EN  
[54] **ILLUMINATION DEVICE**  
[54] **DISPOSITIF D'ECLAIRAGE**  
[72] WANG, TINGTING, CN  
[72] LONG, QI, CN  
[72] FANG, MIN, CN  
[72] GAO, HONGLEI, CN  
[72] QIN, SHUYI, CN  
[71] GE LIGHTING SOLUTIONS, LLC, US  
[85] 2018-03-15  
[86] 2016-09-19 (PCT/CN2016/099300)  
[87] (WO2017/050194)  
[30] CN (201510616378.9) 2015-09-24

[21] **2,998,877**  
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01)**  
[25] EN  
[54] **NOVEL LACTOBACILLUS AND COMPOSITION FOR PREVENTING, IMPROVING, OR TREATING DEGENERATIVE BRAIN DISEASES OR COGNITIVE FUNCTION DISORDERS**  
[54] **NOUVEAU LACTOBACILLUS ET COMPOSITION POUR PREVENIR, ATTENUER OU TRAITER DES MALADIES CEREBRALES DEGENERATIVES OU DES TROUBLES DE LA FONCTION COGNITIVE**  
[72] KIM, DONG HYUN, KR  
[72] HAN, MYUNG JOO, KR  
[71] UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY, KR  
[85] 2018-03-15  
[86] 2016-09-06 (PCT/KR2016/009961)  
[87] (WO2017/047962)  
[30] KR (10-2015-0130124) 2015-09-15  
[30] KR (10-2016-0001312) 2016-01-06

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[21] **2,998,903**  
[13] A1

[51] **Int.Cl. A63B 59/00 (2015.01)**  
[25] EN  
[54] **REMOVABLE AND RE-ATTACHABLE GOLF CLUB GRIP**  
[54] **POIGNEE DE BATON DE GOLF AMOVIBLE ET RATTACHABLE**  
[72] BARKER, DAVID A., US  
[72] BAUDET, JEAN-PAUL, US  
[71] READY GRIP TECHNOLOGIES, LLC, US  
[85] 2018-03-15  
[86] 2016-09-23 (PCT/IB2016/001531)  
[87] (WO2017/046654)

[21] **2,998,989**  
[13] A1

[51] **Int.Cl. C08B 3/02 (2006.01) C08B 3/06 (2006.01) C08J 5/18 (2006.01) C08L 1/02 (2006.01)**  
[25] EN  
[54] **NCC FILMS AND PRODUCTS BASED THEREON**  
[54] **FILMS NCC ET PRODUITS A BASE DE CEUX-CI**  
[72] SLATTEGARD, RIKARD, IL  
[72] ROTH SHALEV, SIGAL, IL  
[72] AZERRAF, CLARITE, IL  
[72] NEVO, YUVAL, IL  
[71] MELODEA LTD., IL  
[85] 2018-03-16  
[86] 2016-09-15 (PCT/IL2016/051024)  
[87] (WO2017/046798)  
[30] US (62/219, 816) 2015-09-17  
[30] US (62/244, 243) 2015-10-21  
[30] US (62/277,082) 2016-01-11

[21] **2,999,013**  
[13] A1

[51] **Int.Cl. F04C 29/00 (2006.01) F04C 18/02 (2006.01) F16C 19/10 (2006.01) F16C 19/26 (2006.01) F16C 33/38 (2006.01)**  
[25] EN  
[54] **A SCROLL FLUID MACHINE HAVING A ROLLING SUPPORT DEVICE FOR THE ORBITING SCROLL UNIT**  
[54] **UNE MACHINE DE MANUTENTION DE LIQUIDE A VIS HELICOIDALE COMPORTANT UN DISPOSITIF DE SUPPORT ROULANT DESTINE AU MODULE DE VIS HELICOIDALE ORBITANT**  
[72] YOON, JEEN MOK, KR  
[71] YOON, JEEN MOK, KR  
[85] 2018-03-16  
[86] 2016-09-19 (PCT/KR2016/010433)  
[87] (WO2017/048110)  
[30] KR (10-2015-0132644) 2015-09-18

[21] **2,999,348**  
[13] A1

[51] **Int.Cl. B32B 15/08 (2006.01) B32B 33/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A SANDWICH STRUCTURE**  
[54] **PROCEDE DE FABRICATION D'UNE STRUCTURE SANDWICH**  
[72] JACQUET, DENIS, FR  
[71] ARCELORMITTAL, LU  
[85] 2018-01-05  
[86] 2016-07-07 (PCT/IB2016/000972)  
[87] (WO2017/006174)  
[30] IB (PCT/IB2015/001135) 2015-07-07

[21] **2,999,425**  
[13] A1

[51] **Int.Cl. A01N 43/66 (2006.01) A01N 43/72 (2006.01) A01N 43/74 (2006.01) A01N 43/86 (2006.01) C07D 285/125 (2006.01) C07D 417/04 (2006.01)**  
[25] EN  
[54] **HETEROCYCLIC TRIFLUOROALKENYL COMPOUNDS HAVING A NEMATOCIDAL ACTIVITY, THEIR AGRONOMIC COMPOSITIONS AND USE THEREOF**  
[54] **COMPOSES DE TRIFLUOROALCENYLE HETEROCYCLIQUES PRESENTANT UNE ACTIVITE NEMATOCIDE, LEURS COMPOSITIONS AGRONOMIQUES ET UTILISATION ASSOCIEE**  
[72] GUSMEROLI, MARILENA, IT  
[72] SARGIOTTO, CHIARA, IT  
[72] BIANCHI, DANIELE, IT  
[72] BELLANDI, PAOLO, IT  
[71] ISAGRO S.P.A., IT  
[85] 2018-03-21  
[86] 2016-09-23 (PCT/IB2016/055685)  
[87] (WO2017/002100)  
[30] IT (UB2015A003829) 2015-09-23

[21] **2,999,428**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**  
[25] EN  
[54] **BIOMARKERS FOR CERVICAL CANCER**  
[54] **BIOMARQUEURS DESTINES AU CANCER DU COL DE L'UTERUS**  
[72] WISMAN, GIJSBERTHA BARENDINA ALIDA, NL  
[72] VAN DER ZEE, ATE GERARD JAN, NL  
[72] SCHUURING, EDUARDUS MARIA DOMINICUS, NL  
[71] RIJKSUNIVERSITEIT GRONINGEN, NL  
[71] ACADEMISCH ZIEKENHUIS GRONINGEN, NL  
[85] 2018-03-21  
[86] 2015-09-21 (PCT/NL2015/050650)  
[87] (WO2016/048138)  
[30] EP (14185831.6) 2014-09-22

## Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] <b>2,999,615</b> [13] A1</p> <p>[51] <b>Int.Cl. C09K 8/58 (2006.01) C09K 8/524 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>MIXTURE OF COMPOUNDS, ORGANIC BASES, INORGANIC COMPOUNDS AND OXIDIZING COMPOUNDS USED IN THE PRODUCTION, IMPROVED RECOVERY AND TREATMENT OF LIGHT, MEDIUM, HEAVY, EXTRA HEAVY, HYDROCARBONS AND BITUMINOUS SANDS</b></p> <p>[54] <b>MELANGE DE COMPOSES, BASES ORGANIQUES, COMPOSES INORGANIQUES ET COMPOSES OXYDANTS UTILISE DANS LA PRODUCTION, LA RECUPERATION AMELIOREE ET LE TRAITEMENT D'HYDROCARBURES LEGERES, MOYENS, LOURDS, EXTRA-LOURDS ET DE SABLES BITUMEUX</b></p> <p>[72] MARTUCCI UR DANETA, DAVID DE JESUS, PA</p> <p>[72] JIMENEZ CUMARE, WILLIAM J., PA</p> <p>[71] GLOBALQUIMICA A.L C,A, PA</p> <p>[85] 2018-03-23</p> <p>[86] 2014-12-02 (PCT/PA2014/000005)</p> <p>[87] (WO2016/089230)</p>	<p style="text-align: center;">[21] <b>2,999,696</b> [13] A1</p> <p>[51] <b>Int.Cl. C12N 5/075 (2010.01) C12N 5/071 (2010.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS OF IN VITRO OOCYTE DEVELOPMENT</b></p> <p>[54] <b>PROCEDES DE DEVELOPPEMENT D'OVOCYTES IN VITRO</b></p> <p>[72] TELFER, EVELYN ELIZABETH, GB</p> <p>[72] MCLAUGHLIN, MARIE, GB</p> <p>[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB</p> <p>[85] 2018-03-22</p> <p>[86] 2015-09-24 (PCT/GB2015/052769)</p> <p>[87] (WO2016/046557)</p> <p>[30] GB (1416858.7) 2014-09-24</p>	<p style="text-align: center;">[21] <b>2,999,823</b> [13] A1</p> <p>[51] <b>Int.Cl. C07K 14/62 (2006.01) A61K 38/28 (2006.01) C07K 1/12 (2006.01) C07K 1/18 (2006.01) C07K 1/36 (2006.01) C12N 15/70 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>NOVEL INSULIN ANALOGS AND USE THEREOF</b></p> <p>[54] <b>NOUVEAUX ANALOGUES D'INSULINE ET LEUR UTILISATION</b></p> <p>[72] KIM, JIN YOUNG, KR</p> <p>[72] OH, EUH LIM, KR</p> <p>[72] LEE, JONG SOO, KR</p> <p>[72] LIM, HYUNG KYU, KR</p> <p>[72] CHOI, IN YOUNG, KR</p> <p>[72] KWON, SE CHANG, KR</p> <p>[71] HANMI PHARM. CO., LTD., KR</p> <p>[85] 2018-03-23</p> <p>[86] 2016-08-29 (PCT/KR2016/009606)</p> <p>[87] (WO2017/039267)</p> <p>[30] KR (10-2015-0121819) 2015-08-28</p>
<p style="text-align: center;">[21] <b>2,999,681</b> [13] A1</p> <p>[51] <b>Int.Cl. A01G 9/02 (2018.01) A47G 7/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PLANTING ASSEMBLIES</b></p> <p>[54] <b>ENSEMBLES DE PLANTATION</b></p> <p>[72] ROSS, GAVIN, GB</p> <p>[71] ROSS, GAVIN, GB</p> <p>[85] 2018-03-22</p> <p>[86] 2015-09-23 (PCT/GB2015/052756)</p> <p>[87] (WO2016/046547)</p> <p>[30] GB (1416847.0) 2014-09-24</p> <p>[30] GB (1501014.3) 2015-01-21</p>	<p style="text-align: center;">[21] <b>2,999,821</b> [13] A1</p> <p>[51] <b>Int.Cl. C12P 1/04 (2006.01) C12P 23/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHOD FOR PREPARING MICROBIAL PREPARATION AND MICROBIAL PREPARATION PRODUCED BY THE SAME</b></p> <p>[54] <b>PROCEDE POUR LA PREPARATION D'UNE PREPARATION MICROBIENNE DANS LEQUEL DE L'AGLYCONE S'ACCUMULE DANS DES CELLULES ET PREPARATION MICROBIENNE PREPAREE PAR CE PROCEDE</b></p> <p>[72] CHUNG, DAE KYUN, KR</p> <p>[72] KIM, HANGEUN, KR</p> <p>[72] LEE, SEUNG SU, KR</p> <p>[72] JUNG, BONG JUN, KR</p> <p>[72] KIM, HYE RIM, KR</p> <p>[72] LEE, YOON DOO, KR</p> <p>[72] PARK, JAE YEON, KR</p> <p>[72] JEON, BORAM, KR</p> <p>[72] KIM, SEONG JAE, KR</p> <p>[71] RNA INC., KR</p> <p>[85] 2018-03-23</p> <p>[86] 2015-09-30 (PCT/KR2015/010325)</p> <p>[87] (WO2016/053003)</p> <p>[30] KR (10-2014-0131390) 2014-09-30</p>	<p style="text-align: center;">[21] <b>2,999,904</b> [13] A1</p> <p>[51] <b>Int.Cl. C01B 32/19 (2017.01) C01B 32/182 (2017.01) C01B 32/184 (2017.01)</b></p> <p>[25] EN</p> <p>[54] <b>INDUSTRIAL METHOD FOR PREPARING LARGE-SIZED GRAPHENE</b></p> <p>[54] <b>PROCEDE INDUSTRIEL DE PREPARATION DE GRAPHENE DE GRANDE TAILLE</b></p> <p>[72] FENG, CHAOYANG, CN</p> <p>[72] XU, DONGCHUN, CN</p> <p>[71] SUZHOU CSTAR GRAPHENE TECHNOLOGY CO., LTD., CN</p> <p>[71] FENG, CHAOYANG, CN</p> <p>[71] XU, DONGCHUN, CN</p> <p>[85] 2018-03-26</p> <p>[86] 2015-10-23 (PCT/CN2015/092603)</p> <p>[87] (WO2017/049693)</p> <p>[30] CN (201510621739.9) 2015-09-25</p>

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[21] **2,999,945**  
[13] A1

[51] **Int.Cl. B25J 21/02 (2006.01) B01L 1/04 (2006.01) B08B 15/02 (2006.01)**

[25] FR

[54] **PORTABLE CONTAINMENT DEVICE FOR MANIPULATING ORGANIC AND/OR CHEMICAL SUBSTANCES, AND REMOVABLE CONTAINMENT ENCLOSURE FOR SUCH A DEVICE**

[54] **DISPOSITIF PORTABLE DE CONFINEMENT POUR LA MANIPULATION DE SUBSTANCES BIOLOGIQUES ET/OU CHIMIQUES ET ENCEINTE DE CONFINEMENT AMOVIBLE POUR UN TEL DISPOSITIF**

[72] PARZY, DOMINIQUE, FR  
[72] PARZY, SEBASTIEN, FR  
[72] DESMOORT, CYRIL, FR  
[71] K-PLAN, FR  
[85] 2018-03-26  
[86] 2015-09-26 (PCT/FR2015/052570)  
[87] (WO2016/046507)  
[30] FR (1459155) 2014-09-26  
[30] FR (1462085) 2014-12-08

[21] **2,999,947**  
[13] A1

[51] **Int.Cl. H04W 4/90 (2018.01) H04W 36/00 (2009.01)**

[25] FR

[54] **METHOD FOR PROCESSING REQUESTS TO TRANSFER EMERGENCY CALLS**

[54] **PROCEDE DE TRAITEMENT DE REQUETES DE TRANSFERT D'APPEL D'URGENCE**

[72] LOAEC, GUY, FR  
[72] DOREE, JOSE, FR  
[72] LE ROUZIC, JEAN-CLAUDE, FR  
[71] ORANGE, FR  
[85] 2018-03-26  
[86] 2016-09-23 (PCT/FR2016/052412)  
[87] (WO2017/055714)  
[30] FR (1559234) 2015-09-30

[21] **3,000,091**  
[13] A1

[51] **Int.Cl. A61B 18/04 (2006.01) A61B 18/00 (2006.01)**

[25] EN

[54] **ELECTROSURGICAL SWITCH ASSEMBLY AND RELATED SYSTEMS AND METHODS**

[54] **MONTAGE DE COMMUTEUR ELECTROCHIRURGICAL ET SYSTEMES ET PROCEDES ASSOCIES**

[72] WEBER, PAUL, US  
[72] KANE, MARK, US  
[71] WEBER, PAUL, US  
[85] 2018-03-26  
[86] 2016-03-24 (PCT/IB2016/051682)  
[87] (WO2016/151526)  
[30] US (14/752,946) 2015-03-24

[21] **3,000,100**  
[13] A1

[51] **Int.Cl. A01G 18/00 (2018.01)**

[25] EN

[54] **METHOD OF PRODUCING MUSHROOMS**

[54] **PROCEDE DE PRODUCTION DE CHAMPIGNONS**

[72] BAGNATO, MAURIZIO, IT  
[71] BAGNATO, MAURIZIO, IT  
[85] 2018-03-27  
[86] 2016-09-30 (PCT/IB2016/055876)  
[87] (WO2017/056059)  
[30] IT (102015000057159) 2015-10-01

[21] **3,000,121**  
[13] A1

[51] **Int.Cl. F24V 30/00 (2018.01) F17C 11/00 (2006.01)**

[25] EN

[54] **HEAT GENERATING SYSTEM**

[54] **SYSTEME PRODUISANT DE LA CHALEUR**

[72] IWAMURA, YASUHIRO, JP  
[72] ITO, TAKEHIKO, JP  
[72] KASAGI, JIROTA, JP  
[72] YOSHINO, HIDEKI, JP  
[72] HATTORI, MASANAO, JP  
[71] CLEAN PLANET INC., JP  
[71] TOHOKU UNIVERSITY, JP  
[85] 2018-03-27  
[86] 2016-12-12 (PCT/JP2016/086878)  
[87] (WO2017/104602)  
[30] JP (2015-243890) 2015-12-15

[21] **3,000,156**  
[13] A1

[51] **Int.Cl. G01B 9/02 (2006.01) G01B 11/06 (2006.01) G01M 11/00 (2006.01) G01M 11/02 (2006.01)**

[25] EN

[54] **DEVICE FOR MEASURING THE PARAMETERS OF PHASE ELEMENTS AND OPTICAL FIBER DISPERSION AND A METHOD OF MEASURING THE PARAMETERS OF PHASE ELEMENTS AND OPTICAL FIBER DISPERSION**

[54] **DISPOSITIF DE MESURE DES PARAMETRES D'ELEMENTS DE PHASE ET D'UNE DISPERSION DE FIBRES OPTIQUES ET PROCEDE DE MESURE DES PARAMETRES D'ELEMENTS DE PHASE ET D'UNE DISPERSION DE FIBRES OPTIQUES**

[72] STEPIEN, KAROL, PL  
[72] JOZWIK, MICHALINA, PL  
[72] NAPIERALA, MAREK, PL  
[72] ZIOLOWICZ, ANNA, PL  
[72] SZOSTKIEWICZ, LUKASZ, PL  
[72] MURAWSKI, MICHAL, PL  
[72] LIPINSKI, STANISLAW, PL  
[72] HOLDYNSKI, ZBIGNIEW, PL  
[72] STANCZYK, TOMASZ, PL  
[72] NASILOWSKI, TOMASZ, PL  
[71] POLSKIE CENTRUM FOTONIKI I SWIATLOWODOW, PL  
[85] 2018-03-20  
[86] 2015-11-30 (PCT/PL2015/050065)  
[87] (WO2017/048141)  
[30] PL (P.414064) 2015-09-18



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[21] **3,000,237**  
[13] A1

[51] **Int.Cl. A61K 31/435 (2006.01) A61K 31/245 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **USE OF EP4 RECEPTOR ANTAGONISTS FOR THE TREATMENT OF NSH-ASSOCIATED LIVER CANCER**

[54] **UTILISATION DES ANTAGONISTES DU RECEPTEUR EP4 POUR LE TRAITEMENT DE CANCER DU FOIE ASSOCIE A LA STEATOSE NON ALCOOLIQUE**

[72] OHTANI, NAKO, JP

[72] KAMACHIM FUMITAKA, JP

[72] LOO, TZE MUN, JP

[72] KOIZUMI, SHINICHI, JP

[72] OKUMURA, TAKAKO, JP

[71] ASKAT INC., JP

[85] 2018-04-04

[86] 2017-11-02 (PCT/JP2017/039680)

[87] (3000237)

[30] US (15/343,999) 2016-11-04

[21] **3,000,291**  
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) C12Q 1/68 (2018.01)**

[25] FR

[54] **METHOD FOR IMMOBILISING A COMPOUND OF INTEREST ON A SUBSTRATE IN A GIVEN PATTERN AND KIT FOR IMPLEMENTING SAME**

[54] **PROCEDE D'IMMOBILISATION D'UN COMPOSE D'INTERET SUR UN SUPPORT SELON UN MOTIF DONNE ET KIT POUR SA MISE EN OEUVRE**

[72] FRANCOIS, JEAN-MARIE, FR

[72] FONCY, JULIE, FR

[72] TREVISIOL, EMMANUELLE, FR

[72] SEVERAC, CHILDERRICK, FR

[71] DENDRIS, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2018-03-28

[86] 2015-10-28 (PCT/FR2015/052911)

[87] (WO2016/066963)

[21] **3,000,598**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) A61B 3/024 (2006.01) A61B 3/113 (2006.01)**

[25] EN

[54] **METHOD, SOFTWARE AND APPARATUS FOR TESTING A PATIENT'S VISUAL FIELD**

[54] **PROCEDE, LOGICIEL ET APPAREIL POUR TESTER LE CHAMP VISUEL D'UN PATIENT**

[72] DONALDSON, BLAIR, GB

[71] IBISVISION LIMITED, GB

[85] 2018-03-29

[86] 2015-09-23 (PCT/GB2015/052759)

[87] (WO2016/051136)

[30] GB (1417208.4) 2014-09-30

[21] **3,000,601**  
[13] A1

[51] **Int.Cl. C12Q 1/44 (2006.01) C12Q 1/48 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **CYSTEINE LABELLING**

[54] **MARQUAGE DE CYSTEINE**

[72] VIRDEE, SATPAL, GB

[72] STANLEY, MATHEW, GB

[72] PAO, HUAN-CHAUN, GB

[71] UNIVERSITY OF DUNDEE, GB

[85] 2018-03-29

[86] 2015-09-30 (PCT/GB2015/052860)

[87] (WO2016/051174)

[30] GB (1417288.6) 2014-09-30

[21] **3,000,896**  
[13] A1

[51] **Int.Cl. E04B 2/86 (2006.01)**

[25] EN

[54] **A FORMWORK SYSTEM**

[54] **SYSTEME DE COFFRAGE DE DALLES**

[72] HOWORTH, GRAEME CEDRIC, GB

[72] HOWORTH, MALCOLM CHARLES, GB

[71] TWINWALL ICF LIMITED, GB

[85] 2018-04-04

[86] 2014-10-15 (PCT/GB2014/000417)

[87] (WO2016/059357)

[21] **3,001,046**  
[13] A1

[51] **Int.Cl. A23J 1/12 (2006.01) A23L 7/117 (2016.01) A23L 11/00 (2016.01) A23P 10/00 (2016.01) A23J 1/14 (2006.01) A23J 3/16 (2006.01) A23J 3/18 (2006.01) A23J 3/24 (2006.01) A23L 3/365 (2006.01) A23L 3/54 (2006.01)**

[25] EN

[54] **METHOD OF MAKING DRIED FOOD PRODUCTS**

[54] **PROCEDE DE FABRICATION DE PRODUITS ALIMENTAIRES SECHES**

[72] DURANCE, TIMOTHY D, CA

[72] ZHANG, GUOPENG, CA

[71] ENWAVE CORPORATION, CA

[85] 2018-04-05

[86] 2015-10-14 (PCT/CA2015/051034)

[87] (WO2017/063068)

[21] **3,001,098**  
[13] A1

[51] **Int.Cl. A47C 27/06 (2006.01)**

[25] EN

[54] **PRESSURE CONTROL LAYER FOR A MATTRESS OR SEATING**

[54] **COUCHE DE REGULATION DE PRESSION POUR MATELAS OU SIEGE**

[72] TUTON, JOHN, GB

[71] MAMMOTH SPORT LIMITED, GB

[85] 2018-04-03

[86] 2016-04-04 (PCT/GB2016/050947)

[87] (WO2016/156880)

[30] GB (1505820.9) 2015-04-03

[21] **3,001,104**  
[13] A1

[51] **Int.Cl. A23K 20/20 (2016.01) A23K 50/10 (2016.01) A61K 33/04 (2006.01) A61K 33/30 (2006.01) A61K 33/32 (2006.01) A61K 33/34 (2006.01) A61P 3/02 (2006.01)**

[25] EN

[54] **TRACE ELEMENT SOLUTION**

[54] **SOLUTION A BASE D'OLIGO-ELEMENTS**

[72] SMITH, WILLIAM ALFRED, IE

[71] WARBURTON TECHNOLOGY LIMITED, IE

[85] 2018-04-05

[86] 2015-10-09 (PCT/IB2015/057726)

[87] (WO2017/060757)

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[21] **3,001,144**  
[13] A1

[51] **Int.Cl. F24S 70/60 (2018.01) F24S 10/50 (2018.01) F24S 20/60 (2018.01) F24S 20/66 (2018.01) F24S 20/67 (2018.01) F24S 20/69 (2018.01) F24S 70/14 (2018.01) E04D 13/18 (2018.01)**

[25] EN  
[54] **SOLAR THERMAL COLLECTOR**  
[54] **CAPTEUR SOLAIRE A CONVERSION THERMIQUE**

[72] PERKINS, JASON DEAN, AU  
[71] TRAC GROUP HOLDINGS LTD, AU  
[85] 2018-04-06  
[86] 2015-10-06 (PCT/AU2015/050604)  
[87] (WO2017/059474)

[21] **3,001,310**  
[13] A1

[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  
[71] AXICHEM AB, NO  
[85] 2018-04-06  
[86] 2015-10-09 (PCT/NO2015/050186)  
[87] (WO2017/061871)

[21] **3,001,961**  
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/0482 (2013.01) A61B 5/0476 (2006.01) A61F 4/00 (2006.01) A61G 5/04 (2013.01) G06F 3/023 (2006.01)**

[25] EN  
[54] **SYSTEM FOR CONTROLLING ASSISTIVE TECHNOLOGIES AND RELATED METHOD**

[54] **SYSTEME DE COMMANDE DE TECHNOLOGIES D'ASSISTANCE ET PROCEDE ASSOCIE**

[72] FEDELE, PASQUALE, IT  
[71] LIQUIDWEB S.R.L., IT  
[85] 2018-04-13  
[86] 2016-09-13 (PCT/IB2016/055442)  
[87] (WO2017/046698)  
[30] IT (102015000052009) 2015-09-16

[21] **3,001,981**  
[13] A1

[51] **Int.Cl. A61K 31/23 (2006.01) A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61P 3/04 (2006.01) C07C 219/30 (2006.01)**

[25] EN  
[54] **BODY SCULPTING**

[54] **FACONNAGE DU CORPS**

[72] CREMERS, THOMAS, NL  
[72] FLIK, GUNNAR, NL  
[72] FRIJLINK, HENDERIK WILLEM, NL  
[72] WOERDENBAG, HERMAN JOHAN, NL  
[71] SCULPT B.V., NL  
[85] 2018-04-13  
[86] 2015-10-14 (PCT/NL2015/050722)  
[87] (WO2016/060564)  
[30] NL (2013634) 2014-10-14

[21] **3,002,243**  
[13] A1

[51] **Int.Cl. A63B 55/60 (2015.01) A63B 55/30 (2015.01) B60B 19/12 (2006.01) B62B 1/14 (2006.01)**

[25] EN  
[54] **GOLF BAG**

[54] **SAC DE GOLF**

[72] O'KEEFE, EAMONN, GB  
[71] O'KEEFE, EAMONN, GB  
[85] 2018-04-09  
[86] 2016-08-17 (PCT/GB2016/052547)  
[87] (WO2017/029500)  
[30] GB (1514606.1) 2015-08-17

[21] **3,002,270**  
[13] A1

[51] **Int.Cl. H02K 1/27 (2006.01) H02K 16/00 (2006.01)**

[25] EN  
[54] **MAGNET MOTOR WITH ELECTROMAGNETIC DRIVE**

[54] **MOTEUR MAGNETIQUE A ENTRAINEMENT ELECTROMAGNETIQUE**

[72] IGWEMEZIE, JUDE, CA  
[71] IGWEMEZIE, JUDE, CA  
[85] 2018-04-20  
[86] 2017-10-25 (PCT/CA2017/051271)  
[87] (3002270)  
[30] CA (2947812) 2016-11-07

[21] **3,002,315**  
[13] A1

[51] **Int.Cl. B23K 26/00 (2014.01) B23K 26/0622 (2014.01) B23K 26/082 (2014.01) B23K 26/352 (2014.01)**

[25] EN  
[54] **METHOD OF, AND APPARATUS FOR, LASER BLACKENING OF A SURFACE, WHEREIN THE LASER HAS A SPECIFIC POWER DENSITY AND/OR A SPECIFIC PULSE DURATION**

[54] **PROCEDE ET APPAREIL POUR LE NOIRCISSEMENT LASER D'UNE SURFACE, LE LASER AYANT UNE DENSITE DE PUISSANCE PRECISE ET/OU UNE DUREE D'IMPULSION PRECISE**

[72] ABDOLVAND, AMIN, GB  
[71] UNIVERSITY OF DUNDEE, GB  
[85] 2018-04-17  
[86] 2016-06-24 (PCT/GB2016/051908)  
[87] (WO2016/207659)  
[30] GB (1511153.7) 2015-06-24  
[30] GB (1511154.5) 2015-06-24  
[30] GB (1517232.3) 2015-09-30  
[30] GB (1517235.6) 2015-09-30  
[30] GB (1603991.9) 2016-03-08

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[21] **3,002,318**  
[13] A1

[51] **Int.Cl. B23K 26/00 (2014.01) B23K 26/0622 (2014.01) B23K 26/082 (2014.01) B23K 26/352 (2014.01)**

[25] EN

[54] **METHOD OF, AND APPARATUS FOR, REDUCING PHOTOELECTRON YIELD AND/OR SECONDARY ELECTRON YIELD**

[54] **PROCEDE ET APPAREIL POUR REDUIRE LE RENDEMENT PHOTOELECTRONIQUE ET/OU LE RENDEMENT D'ELECTRONS SECONDAIRES**

[72] ABDOLVAND, AMIN, GB  
[71] UNIVERSITY OF DUNDEE, GB  
[85] 2018-04-17  
[86] 2016-06-24 (PCT/GB2016/051909)  
[87] (WO2016/207660)  
[30] GB (1511154.5) 2015-06-24  
[30] GB (1511153.7) 2015-06-24  
[30] GB (1517232.3) 2015-09-30  
[30] GB (1517235.6) 2015-09-30  
[30] GB (1603991.9) 2016-03-08

[21] **3,002,493**  
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/00 (2006.01) A61K 31/519 (2006.01) A61K 47/12 (2006.01)**

[25] EN

[54] **METHOTREXATE FORMULATION**

[54] **FORMULATION DE METHOTREXATE**

[72] FRODSHAM, MICHAEL, GB  
[72] PENTON, JULIE-ANN, GB  
[71] THERAKIND LTD, GB  
[85] 2018-04-18  
[86] 2015-10-28 (PCT/GB2015/053231)  
[87] (WO2016/067024)  
[30] GB (1419261.1) 2014-10-29

[21] **3,002,519**  
[13] A1

[51] **Int.Cl. A43C 15/06 (2006.01) A43C 15/02 (2006.01)**

[25] EN

[54] **CRAMPONS PROVIDED WITH SPIKES**

[54] **CRAMPONS DOTES DE CLOUS**

[72] CHOI, JINHONG, KR  
[71] SNOWLINE CO., LTD., KR  
[85] 2018-04-18  
[86] 2017-08-24 (PCT/IB2017/055121)  
[87] (WO2018/037378)  
[30] US (62/380,359) 2016-08-26

[21] **3,002,593**  
[13] A1

[51] **Int.Cl. G01G 19/02 (2006.01)**

[25] EN

[54] **WEIGHT MEASURING DEVICE AND MEASURING METHOD**

[54] **DISPOSITIF DE MESURE DE POIDS ET PROCEDE DE MESURE**

[72] JURIK, TOMAS, CZ  
[72] URBAN, FRANTISEK, CZ  
[72] HELAN, RADEK, CZ  
[71] CROSS ZLIN, A.S., CZ  
[71] NETWORK GROUP, S.R.O., CZ  
[85] 2018-04-19  
[86] 2016-09-13 (PCT/CZ2016/000101)  
[87] (WO2017/045656)  
[30] CZ (PV2015-639) 2015-09-18

[21] **3,002,735**  
[13] A1

[51] **Int.Cl. G06F 21/64 (2013.01) G06F 21/73 (2013.01) H04L 29/06 (2006.01)**

[25] EN

[54] **SECURE TRANSMISSION**

[54] **TRANSMISSION SECURISEE**

[72] RIDD, JOHN, GB  
[72] DAVIES, PHIL, GB  
[71] YRFREE TECHNOLOGIES LTD, GB  
[85] 2018-04-20  
[86] 2015-10-20 (PCT/GB2015/053132)  
[87] (WO2016/063044)  
[30] US (14/521,929) 2014-10-23

[21] **3,002,886**  
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) B82Y 5/00 (2011.01) B82Y 15/00 (2011.01) C12M 1/34 (2006.01) G01N 27/26 (2006.01) G01N 27/327 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **USE OF FLUOROPOLYMERS AS A HYDROPHOBIC LAYER TO SUPPORT LIPID BILAYER FORMATION FOR NANOPORE BASED DNA SEQUENCING**

[54] **UTILISATION DE POLYMERES FLUORES SOUS FORME D'UNE COUCHE HYDROPHOBE POUR SUPPORTER UNE FORMATION BICOUCHE LIPIDIQUE DE NANOPORES**

[72] FOSTER, JOHN, US  
[72] HENCK, STEVEN, US  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2018-04-20  
[86] 2016-10-21 (PCT/US2016/058230)  
[87] (WO2017/070549)  
[30] US (62/244,680) 2015-10-21

[21] **3,003,084**  
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01)**

[25] EN

[54] **INTELLIGENT PERSONAL INFORMATION MANAGEMENT SYSTEM**

[54] **SYSTEME INTELLIGENT DE GESTION D'INFORMATIONS PERSONNELLES**

[72] ATANDA, DELE, GB  
[71] ATANDA, DELE, GB  
[85] 2018-04-23  
[86] 2015-11-05 (PCT/GB2015/053360)  
[87] (WO2016/063092)

[21] **3,003,196**  
[13] A1

[51] **Int.Cl. F16B 5/02 (2006.01) F16B 5/06 (2006.01) F16B 37/04 (2006.01)**

[25] FR

[54] **SYSTEM FOR COVERING AND PROTECTING BURIED PIPES OR CABLES**

[54] **SYSTEME DE RECOUVREMENT ET DE PROTECTION DE CONDUITES OU CABLES ENTERRES**

[72] JOUBEAUX, YANNICK, FR  
[71] JOUBEAUX, YANNICK, FR  
[85] 2018-04-25  
[86] 2015-12-09 (PCT/FR2015/053397)  
[87] (WO2016/097535)  
[30] FR (14/63032) 2014-12-19

[21] **3,003,388**  
[13] A1

[51] **Int.Cl. H04W 88/06 (2009.01) H04W 16/14 (2009.01) H04W 28/20 (2009.01) H04W 72/04 (2009.01) H04W 72/12 (2009.01)**

[25] EN

[54] **UPLINK AND/OR DOWNLINK SIGNALING RELATED TO DIFFERENT RADIO ACCESS TECHNOLOGIES**

[54] **SIGNALISATION DE LIAISON MONTANTE ET/OU DESCENDANTE ASSOCIEE A DIFFERENTES TECHNOLOGIES D'ACCES RADIO**

[72] BALDEMAIR, ROBERT, SE  
[72] PARKVALL, STEFAN, SE  
[72] MILDH, GUNNAR, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2018-04-26  
[86] 2015-11-10 (PCT/SE2015/051187)  
[87] (WO2017/082780)

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[21] **3,003,390**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR WIRELESS COMMUNICATION**  
[54] **PROCEDE ET APPAREIL DE COMMUNICATION SANS FIL**  
[72] SKOLD, JOHAN, SE  
[72] BALDEMAIR, ROBERT, SE  
[72] BJORKEGREN, HAKAN, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2018-04-26  
[86] 2016-10-19 (PCT/SE2016/051017)  
[87] (WO2017/082795)  
[30] US (62/253,901) 2015-11-11

[21] **3,003,397**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 47/30 (2006.01) A61P 17/00 (2006.01) A61P 25/20 (2006.01) A61P 25/22 (2006.01) A61P 31/00 (2006.01)**  
[25] EN  
[54] **DELIVERY SYSTEMS**  
[54] **SYSTEMES D'ADMINISTRATION**  
[72] ANDERSON, DAVID, US  
[72] SCHINDLER, JORDAN, US  
[72] GOEBEL, ERIK SCOTT, US  
[71] TEXTILE-BASED DELIVERY, INC., US  
[85] 2018-04-26  
[86] 2015-10-29 (PCT/US2015/058059)  
[87] (WO2016/069898)  
[30] US (62/072,896) 2014-10-30

[21] **3,003,405**  
[13] A1

[51] **Int.Cl. A61K 31/435 (2006.01) A61P 13/12 (2006.01)**  
[25] EN  
[54] **METHODS FOR LIMITING ACUTE KIDNEY INJURY**  
[54] **PROCEDES POUR LIMITER UNE LESION RENALE AIGUE**  
[72] HUDSON, BILLY G., US  
[72] VOZIYAN, PAUL, US  
[72] DECAESTECKER, MARK, US  
[72] SKRYPNYK, NATALIYA, US  
[71] VANDERBILT UNIVERSITY, US  
[85] 2018-04-26  
[86] 2015-11-10 (PCT/US2015/059843)  
[87] (WO2016/077279)  
[30] US (62/078,299) 2014-11-11  
[30] US (62/130,435) 2015-03-09  
[30] US (62/169,996) 2015-06-02

[21] **3,003,414**  
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TAX COLLECTION, ANALYSIS AND COMPLIANCE**  
[54] **SYSTEMES ET PROCEDES DE COLLECTE, ANALYSE ET CONFORMITE D'IMPOTS**  
[72] HERNDON, HOWARD, US  
[72] SASSER, WILLIAM, US  
[71] HERNDON, HOWARD, US  
[71] SASSER, WILLIAM, US  
[85] 2018-04-26  
[86] 2016-10-26 (PCT/US2016/058884)  
[87] (WO2017/075065)  
[30] US (14/922,603) 2015-10-26

[21] **3,003,422**  
[13] A1

[51] **Int.Cl. A61K 31/535 (2006.01) C12Q 1/68 (2018.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**  
[25] EN  
[54] **TREATMENT OF SMALL CELL LUNG CANCER WITH A PARP INHIBITOR**  
[54] **TRAITEMENT DU CANCER DU POUMON A PETITES CELLULES AVEC UN INHIBITEUR DE PARP**  
[72] FENG, YING, US  
[72] POST, LEONARD E., US  
[72] SHEN, YUQIAO, US  
[72] RU, YUANBIN, US  
[72] WANG, EVELYN, US  
[72] YU, KAREN, US  
[71] MEDIVATION TECHNOLOGIES LLC, US  
[85] 2018-04-26  
[86] 2016-10-26 (PCT/US2016/058928)  
[87] (WO2017/075091)  
[30] US (62/246,538) 2015-10-26

[21] **3,003,458**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTI-SIGLEC-9 ANTIBODIES AND METHODS OF USE THEREOF**  
[54] **ANTICORPS ANTI-SIGLEC-9 ET LEURS PROCEDES D'UTILISATION**  
[72] ROSENTHAL, ARNON, US  
[72] MONROE, KATE, US  
[72] LEE, SEUNG-JOO, US  
[71] ALECTOR LLC, US  
[85] 2018-04-26  
[86] 2016-10-28 (PCT/US2016/059443)  
[87] (WO2017/075432)  
[30] US (62/248,231) 2015-10-29

[21] **3,003,464**  
[13] A1

[51] **Int.Cl. C25B 3/00 (2006.01) H01M 4/133 (2010.01) C25B 3/02 (2006.01)**  
[25] EN  
[54] **BIOELECTROCHEMICAL METHODS AND SYSTEMS FOR EFFICIENT PRODUCTION OF GRAPHENE OXIDE AND HYDROGEN**  
[54] **PROCEDES ET SYSTEMES BIOELECTROCHIMIQUES POUR LA PRODUCTION EFFICACE D'OXYDE DE GRAPHENE ET D'HYDROGENE**  
[72] JIN, SONG, US  
[72] LI, RAN, US  
[72] FALLGREN, PAUL, US  
[72] JIN, KYLAN, US  
[71] BEGO TECHNOLOGIES, LTD, CN  
[85] 2018-04-26  
[86] 2016-10-31 (PCT/US2016/059724)  
[87] (WO2017/075592)  
[30] US (62/249,227) 2015-10-31

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[21] **3,003,465**  
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/00 (2006.01) A61K 38/26 (2006.01) A61P 3/10 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **NOVEL POLYPEPTIDES WITH IMPROVED PROTEOLYTIC STABILITY, AND METHODS OF PREPARING AND USING SAME**

[54] **NOUVEAUX POLYPEPTIDES PRESENTANT UNE MEILLEURE STABILITE ET PROCEDES DE PREPARATION ET D'UTILISATION ASSOCIES**

[72] KUMAR, KRISHNA, US  
[72] MONTANARI, VITTORIO, US  
[72] BEINBORN, MARTIN, US  
[72] RAMAN, VENKATA, US  
[71] TUFTS UNIVERSITY, US  
[71] TUFTS MEDICAL CENTER, US  
[85] 2018-04-26  
[86] 2016-10-28 (PCT/US2016/059541)  
[87] (WO2017/075505)  
[30] US (62/247,493) 2015-10-28

[21] **3,003,495**  
[13] A1

[51] **Int.Cl. H04B 1/12 (2006.01) H01Q 3/26 (2006.01) H04B 7/08 (2006.01)**

[25] FR

[54] **METHOD AND DEVICE FOR SUPPRESSING INTERFERING SIGNALS IN A SATELLITE PAYLOAD SIGNAL**

[54] **PROCEDE ET DISPOSITIF DE SUPPRESSION DE SIGNAL PARASITE DANS UN SIGNAL DE CHARGE UTILE D'UN SATELLITE**

[72] JACQUEY, NICOLAS, FR  
[72] PEZET, BERNARD, FR  
[72] DEPLANCQ, XAVIER, FR  
[71] AIRBUS DEFENCE AND SPACE SAS, FR  
[85] 2018-01-10  
[86] 2016-07-08 (PCT/FR2016/051758)  
[87] (WO2017/009562)  
[30] FR (1556574) 2015-07-10

[21] **3,003,502**  
[13] A1

[51] **Int.Cl. B22F 9/16 (2006.01) B01J 2/02 (2006.01) B22F 9/08 (2006.01)**

[25] EN

[54] **METAL POWDER ATOMIZATION MANUFACTURING PROCESSES**

[54] **PROCEDES DE FABRICATION D'ATOMISATION DE POUDRE METALLIQUE**

[72] LAROUCHE, FREDERIC, CA  
[72] MARION, FREDERIC, CA  
[72] BALMAYER, MATTHIEU, CA  
[71] AP&C ADVANCED POWDERS AND COATINGS INC., CA  
[85] 2018-04-27  
[86] 2016-10-27 (PCT/CA2016/051240)  
[87] (WO2017/070779)  
[30] US (62/247,794) 2015-10-29

[21] **3,003,550**  
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G06K 9/20 (2006.01)**

[25] EN

[54] **REAL-TIME VISUAL FEEDBACK FOR USER POSITIONING WITH RESPECT TO A CAMERA AND A DISPLAY**

[54] **RETROACTION VISUELLE EN TEMPS REEL POUR LE POSITIONNEMENT D'UN UTILISATEUR PAR RAPPORT A UNE CAMERA ET A UN AFFICHAGE**

[72] BUD, ANDREW, GB  
[72] NEWELL, ANDREW, GB  
[72] PALMER, JOE, GB  
[71] IPROOV LIMITED, GB  
[85] 2018-04-27  
[86] 2015-11-20 (PCT/GB2015/000304)  
[87] (WO2016/079464)  
[30] US (62/082,665) 2014-11-21

[21] **3,003,553**  
[13] A1

[51] **Int.Cl. F04B 1/12 (2006.01) F04B 17/03 (2006.01) F04B 49/00 (2006.01)**

[25] EN

[54] **ELECTROHYDRAULIC PROPORTIONAL PRESSURE CONTROL FOR OPEN CIRCUIT PUMP**

[54] **COMMANDE DE PRESSION PROPORTIONNELLE ELECTRO-HYDRAULIQUE POUR POMPE A CIRCUIT OUVERT**

[72] KHARPAS, ANIL BALASAHEB, IN  
[72] PATIL, AVINASH DADASO, IN  
[72] MALI, SANJAY DHONDAPPA, IN  
[72] PANCHAL, AMIT RANJIT, IN  
[72] ISAACS, ROBERT LESLIE, US  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2018-02-08  
[86] 2016-08-09 (PCT/US2016/046193)  
[87] (WO2017/027517)  
[30] IN (2449/DEL/2015) 2015-08-10

[21] **3,003,581**  
[13] A1

[51] **Int.Cl. D21C 1/02 (2006.01) D21C 1/04 (2006.01) D21C 11/00 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERING CONCENTRATED HYDROLYSATE AFTER HYDROLYSIS OF CELLULOSE MATERIAL**

[54] **PROCEDE DE RECUPERATION D'HYDROLYSAT CONCENTRE APRES L'HYDROLYSE DE MATIERE DE CELLULOSE**

[72] LAMMI, LARI, FI  
[72] KUUSISTO, PETTERI, FI  
[72] ANTONSSON, STEFAN, SE  
[72] MINNAAR, SANNET, ZA  
[71] VALMET AB, SE  
[85] 2018-04-27  
[86] 2016-02-16 (PCT/SE2016/050117)  
[87] (WO2017/142445)

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[21] **3,003,587**  
[13] A1

[51] **Int.Cl. A61B 8/08 (2006.01) A61B 8/00 (2006.01) A61B 8/14 (2006.01)**

[25] EN

[54] **ULTRASOUND PROBE WITH INTEGRATED NEEDLE ADVANCER**

[54] **SONDE A ULTRASONS AVEC AIGUILLE D'AVANCEMENT INTEGREE**

[72] COKER, JUSTIN JEFFREY, US  
[72] HSU, KENNETH C., US  
[71] AVENT, INC., US  
[85] 2018-04-27  
[86] 2016-09-15 (PCT/US2016/051873)  
[87] (WO2017/074596)  
[30] US (62/247,891) 2015-10-29

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[21] **3,003,595**  
[13] A1

[51] **Int.Cl. A61J 1/10 (2006.01) A61J 1/14 (2006.01)**

[25] EN

[54] **PORT WITH SEPTUM AND ETHYLENE/.ALPHA.-OLEFIN MULTI-BLOCK COPOLYMER**

[54] **PORT DOTE DE SEPTUM ET COPOLYMERE MULTIBLOC ETHYLENE/ALPHA-OLEFINE**

[72] FRANCA, MARCOS PINI, BR  
[72] PEREIRA, BRUNO RUFATO, BR  
[72] GERSTNER, RAIMUND, CO  
[71] DOW GLOBAL TECHNOLOGIES, LLC, US  
[85] 2018-04-27  
[86] 2016-10-25 (PCT/US2016/058683)  
[87] (WO2017/074948)  
[30] US (62/248,613) 2015-10-30

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[21] **3,003,712**  
[13] A1

[51] **Int.Cl. G05D 1/10 (2006.01) B64C 39/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EXECUTION OF RECOVERY ACTIONS ON AN UNMANNED AERIAL VEHICLE**

[54] **SYSTEMES ET PROCEDES D'EXECUTION D'ACTIONS DE RECUPERATION SUR UN VEHICULE AERIEN SANS PILOTE**

[72] STABLER, BENJAMIN STUART, US  
[72] CLARK, ROBERT PARKER, US  
[72] HALL-SNYDER, NATHANIEL, US  
[72] DOERSCH, PAUL, US  
[71] KESPRY INC., US  
[85] 2018-04-30  
[86] 2016-04-20 (PCT/US2016/028498)  
[87] (WO2016/172251)  
[30] US (14/693,734) 2015-04-22

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[21] **3,003,717**  
[13] A1

[51] **Int.Cl. C03B 11/12 (2006.01)**

[25] EN

[54] **GLASS SHEET PROCESSING SYSTEM HAVING COOLING OF CONVEYOR ROLLER ENDS**

[54] **SYSTEME DE TRAITEMENT DE VERRE A VITRES POURVU DE REFROIDISSEMENT DES EXTREMITES DE ROULEAU TRANSPORTEUR**

[72] SCHNABEL, JR. JAMES P., US  
[72] NITSCHKE, DAVID B, US  
[72] MUMFORD, EUSTICE H. (DECEASED), ZZ  
[71] GLASSTECH, INC., US  
[85] 2018-04-30  
[86] 2016-10-12 (PCT/US2016/056498)  
[87] (WO2017/078908)  
[30] US (14/929,763) 2015-11-02

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[21] **3,003,719**  
[13] A1

[51] **Int.Cl. B60R 1/08 (2006.01)**

[25] EN

[54] **FILLING IN SURROUND VIEW AREAS BLOCKED BY MIRRORS OR OTHER VEHICLE PARTS**

[54] **REMPLISSAGE DE ZONES DE VUE PANORAMIQUE OBSTRUEES PAR DES RETROVISEURS ET AUTRES COMPOSANTS DE VEHICULE**

[72] KUEHNLE, ANDREAS U., US  
[72] BOON, CATHY L., US  
[72] LI, ZHENG, US  
[72] MOLIN, HANS M., US  
[72] GYORI, MARTON G., HU  
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US  
[85] 2018-04-30  
[86] 2016-10-27 (PCT/US2016/059036)  
[87] (WO2017/075164)  
[30] US (14/927,983) 2015-10-30

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[21] **3,003,720**  
[13] A1

[51] **Int.Cl. A62B 7/10 (2006.01) A61M 16/10 (2006.01) B01D 53/22 (2006.01) A62B 18/08 (2006.01)**

[25] EN

[54] **OXYGEN CONCENTRATING SELF-RESCUER DEVICE**

[54] **DISPOSITIF DE SAUVETAGE A CONCENTRATION D'OXYGENE**

[72] GIVENS, RICHARD, US  
[72] KLEIN, JEROME A., US  
[72] MCDORMAN, DAVID L., US  
[72] REUTHER, JAMES J., US  
[72] SEIDT, JEREMY D., US  
[71] GIVENS, RICHARD, US  
[71] KLEIN, JEROME A., US  
[71] MCDORMAN, DAVID L., US  
[71] REUTHER, JAMES J., US  
[71] SEIDT, JEREMY D., US  
[85] 2018-04-30  
[86] 2016-10-29 (PCT/US2016/059610)  
[87] (WO2017/075553)  
[30] US (62/248,378) 2015-10-30

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[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01)**

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[54] **INHIBITORS OF RET**  
[54] **INHIBITEURS DE RET**  
[72] BRUBAKER, JASON D., US  
[72] KIM, JOSEPH L., US  
[72] WILSON, KEVIN J., US  
[72] WILSON, DOUGLAS, US  
[72] DIPIETRO, LUCIAN V., US  
[71] BLUEPRINT MEDICINES CORPORATION, US  
[85] 2018-04-30  
[86] 2016-11-01 (PCT/US2016/059879)  
[87] (WO2017/079140)  
[30] US (62/249,784) 2015-11-02  
[30] US (62/367,960) 2016-07-28

[21] **3,003,868**  
[13] A1

[51] **Int.Cl. E21B 47/00 (2012.01) E21B 47/12 (2012.01) E21B 47/16 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR WELLBORE LOGGING TO ADJUST FOR DOWNHOLE CLOCK DRIFT**  
[54] **SYSTEMES ET PROCEDES POUR DIAGRAPHIE DE Puits DE FORAGE POUR RATTRAPER UNE DERIVE D'HORLOGE DE FOND DE TROU**  
[72] COOPER, PAUL ANDREW, US  
[72] CHENG, ARTHUR CHUEN HON, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-05-01  
[86] 2015-12-17 (PCT/US2015/066379)  
[87] (WO2017/105461)

[21] **3,003,870**  
[13] A1

[51] **Int.Cl. A61G 7/00 (2006.01) A61G 7/005 (2006.01) A61G 7/015 (2006.01) A61G 7/018 (2006.01) A61G 7/07 (2006.01)**

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[54] **MOBILE PATIENT BED**  
[54] **LIT DE PATIENT MOBILE**  
[72] CHRISTENSEN, STEVEN S., US  
[72] LUCERO, ANTONIO D., US  
[72] RILEY, BRIAN, US  
[72] LAFAY, ERIC B., US  
[72] SCOTT, DAVID D., US  
[71] OPTIMEDICA CORPORATION, US  
[85] 2018-05-01  
[86] 2015-11-02 (PCT/US2015/058662)  
[87] (WO2017/078675)

[21] **3,003,877**  
[13] A1

[51] **Int.Cl. C12N 5/0786 (2010.01) C12N 5/078 (2010.01) C12N 15/00 (2006.01)**

[25] EN  
[54] **METHOD OF MODIFYING MACROPHAGE DIFFERENTIATION AND IMMUNITY**  
[54] **PROCEDE DESTINE A MODIFIER LA DIFFERENCIATION DES MACROPHAGES ET L'IMMUNITE**  
[72] ZHU, ZHENGLUN, US  
[71] ZHU, ZHENGLUN, US  
[85] 2018-05-01  
[86] 2016-11-10 (PCT/US2016/061310)  
[87] (WO2017/083508)  
[30] US (62/253,836) 2015-11-11

[21] **3,003,879**  
[13] A1

[51] **Int.Cl. C08J 5/06 (2006.01) C09J 113/00 (2006.01) F16G 1/10 (2006.01) F16G 1/28 (2006.01)**

[25] EN  
[54] **ADHESIVE TREATMENT FOR FIBER FOR POLYMER REINFORCEMENT AND REINFORCED PRODUCTS**  
[54] **TRAITEMENT ADHESIF POUR FIBRE DE RENFORT POLYMERE ET PRODUITS RENFORCES**  
[72] ANYAOGU, KELECHI C., US  
[72] KNOX, JOHN GRAEME, US  
[71] GATES CORPORATION, US  
[85] 2018-05-01  
[86] 2016-11-10 (PCT/US2016/061384)  
[87] (WO2017/083557)  
[30] US (62/254,172) 2015-11-11

[21] **3,003,882**  
[13] A1

[51] **Int.Cl. H03F 3/217 (2006.01) H03F 1/56 (2006.01) H03F 3/19 (2006.01) H03F 3/24 (2006.01)**

[25] EN  
[54] **CLASS E2 AMPLIFIER**  
[54] **AMPLIFICATEUR DE CLASSE E2**  
[72] MAYO, GABRIEL ISAAC, US  
[72] WHEATLEY, CHARLES EDWARD, US  
[72] HUYNH, PHUONG, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-01  
[86] 2016-11-16 (PCT/US2016/062131)  
[87] (WO2017/105732)  
[30] US (62/266,747) 2015-12-14  
[30] US (15/152,660) 2016-05-12

[21] **3,003,885**  
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G06F 19/28 (2011.01) G06Q 20/00 (2012.01)**

[25] EN  
[54] **DISTRIBUTED SYSTEMS FOR SECURE STORAGE AND RETRIEVAL OF ENCRYPTED BIOLOGICAL SPECIMEN DATA**  
[54] **SYSTEMES DISTRIBUES POUR UN STOCKAGE ET UNE EXTRACTION SECURISES DE DONNEES DE SPECIMEN BIOLOGIQUE CHIFFREES**  
[72] WARNER, AMELIA WALL, US  
[72] COLLINS, MARK ANTHONY, US  
[71] GLOBAL SPECIMEN SOLUTIONS, INC., US  
[85] 2018-05-01  
[86] 2016-11-18 (PCT/US2016/062718)  
[87] (WO2017/087769)  
[30] US (62/256,759) 2015-11-18

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[21] **3,003,897**  
[13] A1

[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06F 3/048 (2013.01)**

[25] EN

[54] **KEYBOARD APPLICATION WITH THIRD PARTY ENGAGEMENT SELECTABLE ITEMS**

[54] **APPLICATION CLAVIER AVEC ELEMENTS SELECTIONNABLES EN PARTICIPATION AVEC UNE TIERCE PARTIE**

[72] SZETO, MARGARET, US

[72] ZHAO, PENG, US

[72] TRIVEDI, PRERAK DIWAKAR, US

[72] KLIMOVICH, DZIYANA NIKOLAEVNA, US

[72] MUCHANG, YOBEL, US

[71] VISA INTERNATIONAL SERVICE ASSOCIATION, US

[85] 2018-05-01

[86] 2016-10-21 (PCT/US2016/058105)

[87] (WO2017/116535)

[30] US (14/985,067) 2015-12-30

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[21] **3,003,900**  
[13] A1

[51] **Int.Cl. A45D 24/10 (2006.01) A41D 19/015 (2006.01) A45D 24/14 (2006.01) A46B 5/02 (2006.01) A46B 5/04 (2006.01)**

[25] EN

[54] **A COMB AND A THERMAL PROTECTIVE GLOVE THAT EMPLOYS THE COMB**

[54] **PEIGNE ET GANT DE PROTECTION THERMIQUE QUI UTILISE LE PEIGNE**

[72] DAVIS, STEVEN D., US

[71] IRON ARMOUR, LLC, US

[85] 2018-05-01

[86] 2016-11-01 (PCT/US2016/059941)

[87] (WO2017/079173)

[30] US (14/930,320) 2015-11-02

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[21] **3,003,901**  
[13] A1

[51] **Int.Cl. C03B 23/03 (2006.01) C03B 11/00 (2006.01) C03B 11/16 (2006.01) C03B 23/00 (2006.01) C03B 23/02 (2006.01)**

[25] EN

[54] **GLASS SHEET MOLD APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE MOULAGE DE VERRES A VITRE**

[72] NITSCHKE, DAVID B., US

[72] NITSCHKE, DEAN M., US

[72] SCHNABEL, JAMES P., JR., US

[71] GLASSTECH, INC., US

[85] 2018-05-01

[86] 2016-11-02 (PCT/US2016/059992)

[87] (WO2017/079200)

[30] US (62/249,661) 2015-11-02

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[21] **3,003,902**  
[13] A1

[51] **Int.Cl. A61K 6/00 (2006.01) A61K 6/10 (2006.01)**

[25] EN

[54] **HYDROPHILIC IMPRESSION MATERIAL WITH IMPROVED STORAGE STABILITY**

[54] **MATERIAU D'EMPREINTE HYDROPHILE PRESENTANT UNE MEILLEURE STABILITE EN STOCKAGE**

[72] ANGELETAKIS, CHRISTOS, US

[71] DENTSPLY SIRONA INC., US

[85] 2018-05-01

[86] 2016-11-02 (PCT/US2016/060042)

[87] (WO2017/079239)

[30] US (62/249,509) 2015-11-02

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[21] **3,003,903**  
[13] A1

[51] **Int.Cl. A01H 5/10 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **WHEAT STRIPE RUST RESISTANCE GENES AND METHODS OF USE**

[54] **GENES DE RESISTANCE A LA ROUILLE JAUNE DU BLE ET PROCEDES D'UTILISATION**

[72] MOSCOU, MATTHEW JAMES, GB

[72] DAWSON, ANDREW MARC, GB

[71] TWO BLADES FOUNDATION, US

[85] 2018-05-01

[86] 2016-11-02 (PCT/US2016/060101)

[87] (WO2017/079286)

[30] US (62/250,136) 2015-11-03

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[21] **3,003,904**  
[13] A1

[51] **Int.Cl. C08L 97/02 (2006.01) B09B 3/00 (2006.01) C04B 12/00 (2006.01) C04B 12/04 (2006.01) C04B 18/14 (2006.01) C04B 18/24 (2006.01) C04B 22/06 (2006.01)**

[25] EN

[54] **LIGNOCELLULOSIC AND GEOPOLYMER COMPOSITE SYNERGIES AND POLYMER-BASED ADDITIVES FOR GEOPOLYMER COMPOSITE**

[54] **SYNERGIES DE COMPOSITES LIGNOCELLULOSIQUES ET GEOPOLYMERES ET ADDITIFS A BASE DE POLYMERE POUR COMPOSITE GEOPOLYMERE**

[72] HAVERHALS, LUKE, US

[71] BRADLEY UNIVERSITY, US

[85] 2018-05-01

[86] 2016-11-02 (PCT/US2016/060149)

[87] (WO2017/079324)

[30] US (62/249,765) 2015-11-02

[30] US (62/293,172) 2016-02-09

[30] US (62/377,316) 2016-08-19

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[21] **3,003,905**  
[13] A1

[51] **Int.Cl. C22C 38/02 (2006.01) C22C 38/08 (2006.01) C22C 38/54 (2006.01)**

[25] EN

[54] **LAYERED CONSTRUCTION OF IN-SITU METAL MATRIX COMPOSITES**

[54] **CONSTRUCTION EN COUCHES DE COMPOSITES A MATRICE METALLIQUE IN SITU**

[72] TUFFILE, CHARLES D., US

[72] LEMKE, HARALD, US

[72] MACK, PATRICK E., US

[71] THE NANOSTEEL COMPANY, INC., US

[85] 2018-05-01

[86] 2016-11-02 (PCT/US2016/060185)

[87] (WO2017/079351)

[30] US (62/249,642) 2015-11-02



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[21] **3,003,906**  
[13] A1

[51] **Int.Cl. C07D 491/22 (2006.01) A61K 31/4745 (2006.01)**

[25] EN

[54] **NANO- AND MICRO-SIZED PARTICLES OF 20-CAMPTOTHECIN OR DERIVATIVE THEREOF AND PHARMACEUTICAL COMPOSITIONS CONTAINING SAME, AND TREATMENT OF CANCERS THEREWITH**

[54] **PARTICULES DE NANO- ET MICRO-TAILLES DE 20-CAMPTOTHECINE OU SON DERIVE ET COMPOSITIONS PHARMACEUTIQUES LES CONTENANT, ET TRAITEMENT DES CANCERS AVEC CES DERNIERES**

[72] CHEN, WENHAO, SG  
[72] ZHANG, JIYAO, SG  
[72] CAO, ZHISONG, US  
[71] CAO PHARMACEUTICALS INC., US  
[85] 2018-05-01  
[86] 2016-11-03 (PCT/US2016/060203)  
[87] (WO2017/083151)  
[30] US (14/938,057) 2015-11-11

[21] **3,003,907**  
[13] A1

[51] **Int.Cl. G01B 9/02 (2006.01) A61B 3/00 (2006.01) A61B 3/10 (2006.01)**

[25] EN

[54] **SIGNAL EXTRACTION SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES D'EXTRACTION DE SIGNAL**

[72] RAYMOND, THOMAS D., US  
[72] NEAL, ISAAC, US  
[72] HAMRICK, DANIEL R., US  
[72] SHAY, THOMAS M., US  
[71] AMO WAVEFRONT SCIENCES, LLC, US  
[85] 2018-05-01  
[86] 2016-11-03 (PCT/US2016/060281)  
[87] (WO2017/079408)  
[30] US (62/250,433) 2015-11-03

[21] **3,003,908**  
[13] A1

[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/744 (2015.01) A61K 35/745 (2015.01) A61K 9/48 (2006.01) A61K 35/74 (2015.01) A61K 45/06 (2006.01) C12N 1/20 (2006.01)**

[25] EN

[54] **THERAPEUTIC MICROBIOTA FOR THE TREATMENT AND/OR PREVENTION OF FOOD ALLERGY**

[54] **MICROBIOTE THERAPEUTIQUE POUR LE TRAITEMENT ET/OU LA PREVENTION DE L'ALLERGIE ALIMENTAIRE**

[72] CHATILA, TALAL A., US  
[72] BRY, LYNN, US  
[72] GERBER, GEORG, US  
[72] ABDEL-GADIR, AZZA, US  
[72] RACHID, RIMA, US  
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US  
[71] CHILDREN'S MEDICAL CENTER COPORATION, US  
[85] 2018-05-01  
[86] 2016-11-03 (PCT/US2016/060353)  
[87] (WO2017/079450)  
[30] US (62/250,277) 2015-11-03

[21] **3,003,910**  
[13] A1

[51] **Int.Cl. A01J 7/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR EVALUATING A CLEANING PROCESS IN RESPECT OF A MILK TRANSPORTING CONDUIT STRUCTURE**

[54] **SYSTEME ET PROCEDE DESTINES A EVALUER UN PROCESSUS DE NETTOYAGE CONCERNANT UNE STRUCTURE DE CONDUIT DE TRANSPORT DE LAIT**

[72] ENICKL, JORGEN, SE  
[72] LANDHOLM, KIM, SE  
[72] WESTMAN, ANDERS, SE  
[71] DELAVAL HOLDING AB, SE  
[85] 2018-05-01  
[86] 2016-11-07 (PCT/SE2016/051093)  
[87] (WO2017/091126)  
[30] SE (1551540-6) 2015-11-27

[21] **3,003,911**  
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) C07K 14/01 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **PHAGE DISPLAY VECTORS AND METHODS OF USE**

[54] **VECTEURS D'EXPOSITION SUR PHAGE ET PROCEDES D'UTILISATION**

[72] AFSHAR, SEPIDEH, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2018-05-01  
[86] 2016-11-18 (PCT/US2016/062806)  
[87] (WO2017/091467)  
[30] US (62/259,801) 2015-11-25

[21] **3,003,912**  
[13] A1

[51] **Int.Cl. G05F 3/30 (2006.01)**

[25] EN

[54] **TEMPERATURE-COMPENSATED REFERENCE VOLTAGE GENERATOR THAT IMPRESSES CONTROLLED VOLTAGES ACROSS RESISTORS**

[54] **GENERATEUR DE TENSION DE REFERENCE COMPENSEE EN TEMPERATURE APPLIQUANT DES TENSIONS COMMANDEES AUX BORNES DE RESISTANCES**

[72] RASMUS, TODD MORGAN, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-01  
[86] 2016-11-21 (PCT/US2016/063139)  
[87] (WO2017/105796)  
[30] US (14/970,265) 2015-12-15

[21] **3,003,913**  
[13] A1

[51] **Int.Cl. B65D 47/06 (2006.01)**

[25] EN

[54] **LID FOR A CONTAINER**

[54] **COUVERCLE DESTINE A UN RECIPIENT**

[72] SORENSEN, STEVEN M., US  
[72] MEYERS, DAVID O., US  
[71] RUNWAY BLUE, LLC, US  
[85] 2018-05-01  
[86] 2016-11-22 (PCT/US2016/063346)  
[87] (WO2017/091582)  
[30] US (14/951,405) 2015-11-24

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[21] **3,003,914**  
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/497 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **5-(5-(2-(3-AMINOPROPOXY)-6-METHOXYPHENYL)-1H-PYRAZOL-3-YLAMINO)PYRAZINE-2-CARBONITRILE (S)-LACTATE MONOHYDRATE**

[54] **MONOHYDRATE DE 5-(5-(2-(3-AMINOPROPOXY)-6-METHOXYPHENYL)-1H-PYRAZOL-3-YLAMINO)PYRAZINE-2-CARBONITRILE (S)-LACTATE**

[72] ENNETT-SHEPARD, ALESSANDRA B., US

[71] ELI LILLY AND COMPANY, US

[85] 2018-05-01

[86] 2016-12-01 (PCT/US2016/064379)

[87] (WO2017/100071)

[30] US (62/263,908) 2015-12-07

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[21] **3,003,917**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **UNIQUE CODE FOR TOKEN VERIFICATION**

[54] **CODE UNIQUE POUR VERIFICATION DE JETON**

[72] L. NARAYAN, PRASANNA, US

[72] KUMNICK, PHILLIP, US

[72] VASU, MADHU, US

[71] VISA INTERNATIONAL SERVICE ASSOCIATION, US

[85] 2018-05-01

[86] 2016-12-02 (PCT/US2016/064817)

[87] (WO2017/096300)

[30] US (62/263,393) 2015-12-04

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[21] **3,003,919**  
[13] A1

[51] **Int.Cl. C08L 95/00 (2006.01) C08K 3/22 (2006.01) C08K 5/053 (2006.01) C08K 5/092 (2006.01) C08K 5/49 (2006.01) C08K 5/56 (2006.01) C08L 93/04 (2006.01)**

[25] EN

[54] **ADHESIVE COMPOSITIONS WITH TUNABLE RHEOLOGICAL PROPERTIES**

[54] **MELANGE DE RAPIECAGE BIO-FLUXE A MECANISME DE DURCISSEMENT DECLENCHE**

[72] CREWS, EVERETT, US

[71] INGEVITY SOUTH CAROLINA, LLC, US

[85] 2018-05-01

[86] 2016-12-22 (PCT/US2016/068455)

[87] (WO2017/112915)

[30] US (62/270,884) 2015-12-22

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[21] **3,003,924**  
[13] A1

[51] **Int.Cl. E04D 13/17 (2006.01)**

[25] EN

[54] **COMPRESSIBLE FOAM CLOSURE FOR METAL ROOFS**

[54] **FERMETURE EN MOUSSE COMPRESSIBLE POUR TOITS METALLIQUES**

[72] LEVEY, KENNETH, US

[71] ATLAS BOLT & SCREW COMPANY LLC, US

[85] 2018-05-01

[86] 2017-01-04 (PCT/US2017/012146)

[87] (WO2017/120203)

[30] US (62/276,573) 2016-01-08

[30] US (15/200,295) 2016-07-01

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[21] **3,003,928**  
[13] A1

[51] **Int.Cl. B29C 63/04 (2006.01) B32B 5/16 (2006.01) B32B 5/18 (2006.01) B32B 5/24 (2006.01) B32B 5/30 (2006.01) B32B 7/12 (2006.01) B32B 9/00 (2006.01) B32B 9/04 (2006.01) B32B 9/06 (2006.01) B32B 13/08 (2006.01) B32B 15/08 (2006.01) B32B 15/18 (2006.01) B32B 15/20 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/14 (2006.01) E04B 1/80 (2006.01) F16L 59/065 (2006.01)**

[25] EN

[54] **MULTILAYERED LAYERED BODY COMPRISING A THERMAL INSULATION BODY**

[54] **CORPS STRATIFIE MULTICOUCHE COMPRENANT UN CORPS D'ISOLATION THERMIQUE**

[72] HERFURTH, DOMINIK, DE

[72] WANDLER, KLAUS, DE

[71] KNAUF GIPS KG, DE

[85] 2018-05-02

[86] 2015-11-11 (PCT/EP2015/002258)

[87] (WO2017/080567)

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[21] **3,003,935**  
[13] A1

[51] **Int.Cl. B60R 9/00 (2006.01) B60R 9/08 (2006.01) B60R 9/10 (2006.01) B60R 11/00 (2006.01) F16B 47/00 (2006.01) F16M 13/02 (2006.01)**

[25] EN

[54] **VACUUM MOUNTED CARRIER FOR A VEHICLE**

[54] **SUPPORT MONTE SOUS VIDE POUR VEHICULE**

[72] CASAGRANDE, CHARLES L., US

[71] CASAGRANDE, CHARLES L., US

[85] 2018-04-30

[86] 2016-09-15 (PCT/US2016/051975)

[87] (WO2017/048981)

[30] US (62/218,940) 2015-09-15

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[21] **3,003,937**  
[13] A1

[51] **Int.Cl. H04W 4/00 (2018.01) H04L 29/08 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR VEHICLE-TO-VEHICLE COMMUNICATION**

[54] **PROCEDE ET DISPOSITIF DE COMMUNICATION ENTRE VEHICULES**

[72] HOU, YANZHAO, CN  
[72] CUI, QIMEI, CN  
[72] ZHANG, SHIYU, CN  
[72] CAO, SHIWEI, CN  
[72] LIANG, HUI, CN  
[72] JIANG, QINYAN, CN  
[72] GUO, XIN, CN  
[72] SUN, CHEN, CN  
[71] SONY CORPORATION, JP  
[85] 2018-05-02  
[86] 2016-10-25 (PCT/CN2016/103182)  
[87] (WO2017/076190)  
[30] CN (201510747096.2) 2015-11-05

[21] **3,003,945**  
[13] A1

[51] **Int.Cl. C08F 220/18 (2006.01) C09J 143/04 (2006.01)**

[25] EN

[54] **CATIONICALLY POLYMERISABLE POLYACRYLATE CONTAINING ALKOXYSILANE GROUPS AND USE THEREOF**

[54] **POLYACRYLATES POLYMERISABLES PAR VOIE CATIONIQUE CONTENANT DES GROUPES ALKOXYSILANE ET LEUR UTILISATION**

[72] SCHUH, CHRISTIAN, DE  
[72] PRENZEL, ALEXANDER, DE  
[72] BAMBERG, SARAH, DE  
[71] TESA SE, DE  
[85] 2018-05-02  
[86] 2016-10-10 (PCT/EP2016/074196)  
[87] (WO2017/080732)  
[30] DE (10 2015 222 028.1) 2015-11-09

[21] **3,003,951**  
[13] A1

[51] **Int.Cl. H04W 72/10 (2009.01)**

[25] EN

[54] **BASE STATION-SIDE AND USER EQUIPMENT-SIDE APPARATUSES AND METHODS, AND WIRELESS COMMUNICATION SYSTEM**

[54] **APPAREILS ET PROCEDES SUR LE COTE STATION DE BASE ET LE COTE EQUIPEMENT D'UTILISATEUR, ET SYSTEME DE COMMUNICATIONS SANS FIL**

[72] HU, BINGSHAN, CN  
[72] GUO, XIN, CN  
[72] SUN, CHEN, CN  
[72] LU, PENSHUN, CN  
[71] SONY CORPORATION, JP  
[85] 2018-05-02  
[86] 2016-10-24 (PCT/CN2016/103023)  
[87] (WO2017/076178)  
[30] CN (201510745617.0) 2015-11-05

[21] **3,003,942**  
[13] A1

[51] **Int.Cl. B65G 17/06 (2006.01) B65G 47/96 (2006.01)**

[25] EN

[54] **CONVEYING SYSTEM**

[54] **SYSTEME DE TRANSPORT**

[72] MADER, CARL CONRAD, CH  
[71] WRH WALTER REIST HOLDING AG, CH  
[85] 2018-05-02  
[86] 2016-11-17 (PCT/EP2016/078039)  
[87] (WO2017/085203)  
[30] CH (1674/15) 2015-11-17

[21] **3,003,947**  
[13] A1

[51] **Int.Cl. G01N 1/08 (2006.01) G01N 1/20 (2006.01) G01N 1/10 (2006.01) G01N 33/00 (2006.01)**

[25] FR

[54] **GRANULAR SOLID SAMPLING DEVICE**

[54] **DISPOSITIF D'ECHANTILLONNAGE DE SOLIDES GRANULAIRES**

[72] DESPAUX, YVAN, FR  
[71] AXENS, FR  
[85] 2018-05-02  
[86] 2016-11-08 (PCT/EP2016/076937)  
[87] (WO2017/097524)  
[30] FR (1562153) 2015-12-10

[21] **3,003,955**  
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) C12Q 1/22 (2006.01) C12Q 1/37 (2006.01) G01N 33/52 (2006.01)**

[25] EN

[54] **FLUORESCENT POLYBRANCHED PROBES FOR DETECTING BACTERIA AND/OR FUNGI IN VITRO AND IN VIVO**

[54] **SONDES FLUORESCENTES POLYRAMIFIEES POUR LA DETECTION DES BACTERIES ET/OU DES CHAMPIGNONS, IN VITRO ET IN VIVO**

[72] BRADLEY, MARK, GB  
[72] LILIENKAMPF, ANNAMARIA HELENA, GB  
[72] AVLONITIS, NIKOLAOS, GR  
[72] ESCOBAR, MARC VENDRELL, GB  
[72] MCDONALD, NEIL ALEXANDER, GB  
[72] HASLETT, CHRISTOPHER, GB  
[72] DHALIWAL, KANWALDEEP, GB  
[72] WALSH, TIMOTHY SIMON, GB  
[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB  
[85] 2018-05-02  
[86] 2015-11-13 (PCT/GB2015/053455)  
[87] (WO2016/075484)  
[30] GB (1420221.2) 2014-11-13

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[21] **3,003,958**  
[13] A1

[51] **Int.Cl. E21B 17/042 (2006.01)**  
[25] EN  
[54] **THREADED CONNECTION INCLUDING AN INTERMEDIATE SHOULDER**  
[54] **RACCORD FILETE COMPRENANT UN EPAULEMENT INTERMEDIAIRE**  
[72] DALY, DALY, US  
[72] FOTHERGILL, ALAN, US  
[72] VILLERT, SEBASTIEN, US  
[71] VALLOUREC OIL AND GAS FRANCE, FR  
[71] NIPPON STEEL & SUMITOMO METAL CORPORATION, JP  
[85] 2018-05-02  
[86] 2016-12-05 (PCT/EP2016/079743)  
[87] (WO2017/097700)  
[30] US (14/967,111) 2015-12-11

[21] **3,003,959**  
[13] A1

[51] **Int.Cl. B65D 5/72 (2006.01)**  
[25] EN  
[54] **PACKAGING**  
[54] **EMBALLAGE**  
[72] DESERTOT, DIDIER, FR  
[72] RICKARDS, CHRISTINE, BE  
[72] JACOBSSON, FREDRIK, SE  
[71] DS SMITH PACKAGING LTD, GB  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/GB2016/053393)  
[87] (WO2017/077289)  
[30] GB (1519544.9) 2015-11-05

[21] **3,003,961**  
[13] A1

[51] **Int.Cl. A47J 43/046 (2006.01) A47J 27/00 (2006.01)**  
[25] EN  
[54] **FLOWABLE FOOD HEATING WITH BURNING PREVENTION**  
[54] **CHAUFFAGE D'ALIMENTS LIQUIDES A PREVENTION DE COMBUSTION**  
[72] HELF, GERD, DE  
[72] KLOTZBACH, HARALD, DE  
[72] MOLINARO, ALESSANDRO, CH  
[72] SU, BO, DE  
[71] NESTEC S.A., CH  
[85] 2018-05-02  
[86] 2016-12-12 (PCT/EP2016/080579)  
[87] (WO2017/098037)  
[30] EP (15199558.6) 2015-12-11

[21] **3,003,962**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) C07B 59/00 (2006.01) C07D 487/04 (2006.01)**  
[25] EN  
[54] **RADIOLABELLED MGLUR2/3 PET LIGANDS**  
[54] **LIGANDS RADIOMARQUES DES RECEPTEURS MGLUR2/3 UTILISES EN TEP**  
[72] ANDRES-GIL, JOSE IGNACIO, ES  
[72] VAN GOOL, MICHEL LUC MARIA, ES  
[72] BORMANS, GUY MAURITS R, BE  
[72] VERBEEK, JOOST, BE  
[71] JANSSEN PHARMACEUTICA NV, BE  
[85] 2018-05-02  
[86] 2016-12-16 (PCT/EP2016/081537)  
[87] (WO2017/103179)  
[30] EP (15201239.9) 2015-12-18

[21] **3,003,964**  
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) C12Q 1/22 (2006.01) C12Q 1/37 (2006.01) G01N 33/52 (2006.01)**  
[25] EN  
[54] **MOLECULAR PROBES FOR DETECTING GRAM-NEGATIVE BACTERIA IN VITRO AND IN VIVO**  
[54] **SONDES MOLECULAIRES POUR DETECTER DES BACTERIES GRAM NEGATIF IN VITRO ET IN VIVO**  
[72] BRADLEY, MARK, GB  
[72] LILIENKAMPF, ANNAMARIA HELENA, GB  
[72] AVLONITIS, NIKOLAOS, GR  
[72] ESCOBAR, MARC VENDRELL, GB  
[72] MCDONALD, NEIL ALEXANDER, GB  
[72] HASLETT, CHRISTOPHER, GB  
[72] DHALIWAL, KANWALDEEP, GB  
[72] WALSH, TIMOTHY SIMON, GB  
[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB  
[85] 2018-05-02  
[86] 2015-11-13 (PCT/GB2015/053454)  
[87] (WO2016/075483)  
[30] GB (1420222.0) 2014-11-13

[21] **3,003,965**  
[13] A1

[51] **Int.Cl. C08G 73/02 (2006.01) C08G 73/06 (2006.01) C08K 5/00 (2006.01)**  
[25] EN  
[54] **PHOTODYNAMIC THERAPY COMPLEX**  
[54] **COMPLEXE DE THERAPIE PHOTODYNAMIQUE**  
[72] PROKOPOVICH, POLINA, GB  
[72] PERNI, STEFANO, GB  
[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, GB  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/GB2016/053407)  
[87] (WO2017/077299)  
[30] GB (1519375.8) 2015-11-03

[21] **3,003,966**  
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) G06T 7/55 (2017.01) G01S 5/20 (2006.01)**  
[25] EN  
[54] **UAV DETECTION**  
[54] **DETECTION D'UAV**  
[72] HAFIZOVIC, INES, NO  
[72] NYVOLD, STIG OLUF, NO  
[72] AASEN, JON PETTER HELGESEN, NO  
[72] DALENG, JOHANNES ALMING, NO  
[72] OLSEN, FRODE BERG, NO  
[71] SQUAREHEAD TECHNOLOGY AS, NO  
[85] 2018-05-02  
[86] 2016-11-07 (PCT/GB2016/053482)  
[87] (WO2017/077348)  
[30] GB (1519634.8) 2015-11-06

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[21] **3,003,969**  
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) C07K 14/505 (2006.01) C07K 14/52 (2006.01) C07K 14/525 (2006.01)**

[25] EN

[54] **BI-FUNCTIONAL CHIMERIC PROTEINS AND USES THEREOF**

[54] **PROTEINES CHIMERES BIFONCTIONNELLES ET LEURS UTILISATIONS**

[72] KLEY, NIKOLAI, US

[72] TAVERNIER, JAN, BE

[72] HUYGHE, LEANDER, BE

[72] WUEEST, THOMAS, BE

[71] ORIONIS BIOSCIENCES NV, BE

[71] VIB VZW, BE

[71] UNIVERSITEIT GENT, BE

[85] 2018-05-02

[86] 2016-11-07 (PCT/IB2016/001668)

[87] (WO2017/077382)

[30] US (62/252,282) 2015-11-06

[30] US (62/252,286) 2015-11-06

[30] US (62/335,868) 2016-05-13

[21] **3,003,979**  
[13] A1

[51] **Int.Cl. B01D 61/02 (2006.01) B01D 61/08 (2006.01) B01D 61/12 (2006.01) C02F 1/00 (2006.01) C02F 1/44 (2006.01)**

[25] EN

[54] **IMPROVED REVERSE OSMOSIS OR NANOFILTRATION PROCESS FOR CLEANING WATER**

[54] **PROCEDE D'OSMOSE INVERSE OU DE NANO-FILTRATION AMELIORE POUR LA PURIFICATION D'EAU**

[72] DRAK, ALEX, IL

[72] EFRAT, TOMER, IL

[72] ZAKEN, ROI, IL

[71] I.D.E. TECHNOLOGIES LTD, IL

[85] 2018-05-02

[86] 2016-07-13 (PCT/IB2016/054172)

[87] (WO2017/013536)

[30] GB (1512979.4) 2015-07-23

[21] **3,003,982**  
[13] A1

[51] **Int.Cl. A01H 3/02 (2006.01) A01H 5/00 (2018.01)**

[25] EN

[54] **NON-GM IMPROVED CROPS AND METHODS FOR OBTAINING CROPS WITH IMPROVED INHERITABLE TRAITS**

[54] **CULTURES AMELIOREES SANS GM ET PROCEDES POUR OBTENIR DES CULTURES AYANT DES CARACTERISTIQUES HEREDITAIRES AMELIOREES**

[72] SHENFELD, AVNER, IL

[71] EPIGENETICS LTD, IL

[85] 2018-05-02

[86] 2016-11-01 (PCT/IL2016/051179)

[87] (WO2017/077530)

[30] US (62/249,962) 2015-11-03

[30] US (62/264,868) 2015-12-09

[21] **3,003,976**  
[13] A1

[51] **Int.Cl. F21S 8/06 (2006.01) F21V 7/00 (2006.01) F21V 7/16 (2006.01) F21V 7/18 (2006.01) F21V 11/18 (2006.01) F21V 14/04 (2006.01)**

[25] EN

[54] **A LIGHTING DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE**

[72] DYSON, JACOB, GB

[72] WHITTAKER, PAUL, GB

[72] DARVILL, WILLIAM, GB

[71] DYSON TECHNOLOGY LIMITED, GB

[85] 2018-05-02

[86] 2016-11-15 (PCT/GB2016/053567)

[87] (WO2017/093709)

[30] GB (1521437.2) 2015-12-04

[21] **3,003,980**  
[13] A1

[51] **Int.Cl. G02C 7/10 (2006.01) G02B 1/115 (2015.01) G02B 5/22 (2006.01) G02B 5/28 (2006.01)**

[25] EN

[54] **OPTICAL ARTICLE PROTECTING FROM BLUE LIGHT**

[54] **ARTICLE OPTIQUE PROTEGEANT DE LA LUMIERE BLEUE**

[72] CARREGA, AUDE, FR

[72] JIMENEZ, ARMEL, FR

[72] LESTOURNELLE, FRANCK, FR

[72] KUDLA, AMELIE, FR

[71] ESSILOR INTERNATIONAL, FR

[85] 2018-05-02

[86] 2015-11-06 (PCT/IB2015/002252)

[87] (WO2017/077357)

[21] **3,003,986**  
[13] A1

[51] **Int.Cl. C08G 77/16 (2006.01) C08G 77/14 (2006.01) C08G 77/20 (2006.01) C08G 77/38 (2006.01) C08G 77/392 (2006.01) G02B 1/04 (2006.01)**

[25] EN

[54] **POLYMERIZABLE POLYSILOXANES WITH HYDROPHILIC SUBSTITUENTS**

[54] **POLYSILOXANES POLYMERISABLES AVEC SUBSTITUANTS HYDROPHILES**

[72] CHANG, FRANK, US

[72] DESOUSA, RYAN, US

[72] HUANG, JINYU, US

[71] NOVARTIS AG, CH

[85] 2018-05-02

[86] 2016-12-13 (PCT/IB2016/057585)

[87] (WO2017/103791)

[30] US (62/267,312) 2015-12-15

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[21] **3,003,993**  
[13] A1

[51] **Int.Cl. B01D 33/70 (2006.01) B01D 33/048 (2006.01) B01D 33/44 (2006.01) B01D 33/62 (2006.01) G05D 11/02 (2006.01)**

[25] EN

[54] **METHOD AND PROCESS FOR OPERATING AND CONTROLLING A SEPARATION DEVICE**

[54] **METHODE ET PROCEDE D'ACTIONNEMENT ET DE COMMANDE D'UN DISPOSITIF DE SEPARATION**

[72] SANTORO, DOMENICO, CA

[72] FRANCHI, ALESSANDRO, US

[72] SARATHY, SIVA RAJAN, CA

[72] DAYNOURI-PANCINO, FARNAZ, CA

[71] SALSNES FILTER AS, CA

[85] 2018-04-30

[86] 2016-10-31 (PCT/CA2016/051257)

[87] (WO2017/070792)

[30] US (62/248,087) 2015-10-29

[21] **3,003,998**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) C07B 59/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **RADIOLABELLED MGLUR2/3 PET LIGANDS**

[54] **LIGANDS DES RECEPTEURS MGLUR2/3 RADIOMARQUES UTILISES EN TEP**

[72] ANDRES-GIL, JOSE IGNACIO, ES

[72] VAN GOOL, MICHEL LUC MARIA, ES

[72] BORMANS, GUY MAURITS R, BE

[72] VERBEEK, JOOST, BE

[71] JANSSEN PHARMACEUTICA NV, BE

[85] 2018-05-02

[86] 2016-12-16 (PCT/EP2016/081542)

[87] (WO2017/103182)

[30] EP (15201240.7) 2015-12-18

[21] **3,004,003**  
[13] A1

[51] **Int.Cl. E04H 9/02 (2006.01)**

[25] EN

[54] **EARTHQUAKE RESISTANT CONSTRUCTION ELEMENT**

[54] **ELEMENT DE CONSTRUCTION ANTISISMIQUE**

[72] GOLLAPUDI, SRIKANT, IN

[72] KALANAD, AYSHA, IN

[72] BULUSU, SURYATEJA, IN

[72] SHARMA, MANISH KUMAR, IN

[71] SAINT-GOBAIN PLACO, FR

[85] 2018-05-02

[86] 2016-10-27 (PCT/IN2016/050366)

[87] (WO2017/077548)

[30] IN (5928/CHE/2015) 2015-11-02

[21] **3,004,007**  
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/404 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **3-(5-FLUOROINDOLYL)-4-ARYLMALEIMIDE COMPOUNDS AND THEIR USE IN TUMOR TREATMENT**

[54] **COMPOSES 3-(5-FLUOROINDOLYL)-4-ARYLMALEIMIDE ET LEUR UTILISATION DANS LE TRAITEMENT DES TUMEURS**

[72] MOHLER, MARKUS, DE

[72] MADERER, ANNETT, DE

[72] DANNHARDT, GERD, DE

[72] GANSER, CHRISTOPHER, DE

[72] LAUERMANN, EVA, DE

[72] MONNIKES, RENE, DE

[71] JOHANNES GUTENBERG-UNIVERSITAT MAINZ, DE

[85] 2018-05-02

[86] 2016-12-28 (PCT/EP2016/082777)

[87] (WO2017/114863)

[30] EP (15203072.2) 2015-12-30

[21] **3,004,014**  
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**

[25] EN

[54] **REMOTELY OPERATED VEHICLE FOR PICKING UP A STORAGE BIN FROM AN UNDERLYING STORAGE SYSTEM**

[54] **VEHICULE TELECOMMANDE POUR LE RAMASSAGE D'UN BAC DE STOCKAGE DEPUIS UN SYSTEME DE STOCKAGE SOUS-JACENT**

[72] HOGNALAND, INGVAR, NO

[72] FJELDHEIM, IVAR, NO

[71] AUTOSTORE TECHNOLOGY AS, NO

[85] 2018-05-02

[86] 2017-01-05 (PCT/EP2017/050195)

[87] (WO2017/129384)

[30] NO (20160118) 2016-01-26

[21] **3,004,042**  
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01) C04B 14/28 (2006.01) C04B 24/04 (2006.01) C04B 24/06 (2006.01) C04B 24/10 (2006.01) C04B 24/12 (2006.01) C04B 24/14 (2006.01) C04B 24/38 (2006.01) C04B 41/65 (2006.01) E04F 13/02 (2006.01)**

[25] EN

[54] **GYPHUM COMPOSITION FOR DRY-CURING COATING MATERIAL, GYPHUM-BASED COATING MATERIAL, AND CONSTRUCTION METHOD FOR GYPHUM-BASED COATING MATERIAL**

[54] **COMPOSITION DE GYPSE POUR MATERIAU DE REVETEMENT DURCISSANT A SEC, MATERIAU DE REVETEMENT A BASE DE GYPSE ET PROCEDE DE CONSTRUCTION POUR MATERIAU DE REVETEMENT A BASE DE GYPSE**

[72] YOKOYAMA, ITARU, JP

[72] TANAKA, YOSHIKAZU, JP

[71] YOSHINO GYPHUM CO., LTD., JP

[85] 2018-05-02

[86] 2016-12-07 (PCT/JP2016/086306)

[87] (WO2017/099102)

[30] JP (2015-242337) 2015-12-11

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[21] **3,004,043**  
[13] A1

[51] **Int.Cl. A61K 31/685 (2006.01) A61K 31/688 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING PHOSPHOLIPID AND THEIR USE**

[54] **COMPOSITIONS COMPRENANT UN PHOSPHOLIPIDE ET LEUR UTILISATION**

[72] SCHNEIDER, NORA, CH  
[72] HAUSER, JONAS, CH  
[72] SILVA ZOLEZZI, IRMA, CH  
[72] SAMUEL, TINU MARY, CH  
[72] DEONI, SEAN, US  
[72] BARTFAI, TAMAS, SE  
[71] NESTEC S.A., CH  
[85] 2018-05-02  
[86] 2016-12-13 (PCT/EP2016/080787)  
[87] (WO2017/167416)  
[30] US (62/315,134) 2016-03-30  
[30] US (62/315,142) 2016-03-30  
[30] US (62/315,152) 2016-03-30  
[30] US (62/315,158) 2016-03-30  
[30] US (62/315,163) 2016-03-30  
[30] US (62/328,099) 2016-04-27

[21] **3,004,044**  
[13] A1

[51] **Int.Cl. A61K 33/06 (2006.01) A61K 33/26 (2006.01) A61K 33/30 (2006.01) A61K 33/34 (2006.01) A61K 33/42 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING MINERALS AND THEIR USE**

[54] **COMPOSITIONS COMPRENANT DES MINERAUX ET LEUR UTILISATION**

[72] SCHNEIDER, NORA, CH  
[72] HAUSER, JONAS, CH  
[72] SILVA ZOLEZZI, IRMA, CH  
[72] SAMUEL, TINU MARY, CH  
[72] DEONI, SEAN, US  
[72] BARTFAI, TAMAS, SE  
[71] NESTEC S.A., CH  
[85] 2018-05-02  
[86] 2016-12-13 (PCT/EP2016/080793)  
[87] (WO2017/167419)  
[30] US (62/315,134) 2016-03-30  
[30] US (62/315,142) 2016-03-30  
[30] US (62/315,152) 2016-03-30  
[30] US (62/315,158) 2016-03-30  
[30] US (62/315,163) 2016-03-30  
[30] US (62/328,112) 2016-04-27

[21] **3,004,045**  
[13] A1

[51] **Int.Cl. E05D 15/06 (2006.01) E06B 3/46 (2006.01)**

[25] EN

[54] **A PANEL AND A PANEL SYSTEM**

[54] **PANNEAU ET SYSTEME DE PANNEAU**

[72] HILLIAHO, ESA, FI  
[71] LUMON INVEST OY, FI  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/FI2016/050775)  
[87] (WO2017/081364)  
[30] FI (20155827) 2015-11-10

[21] **3,004,046**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/714 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING VITAMINS AND THEIR USE**

[54] **COMPOSITIONS COMPRENANT DES VITAMINES ET LEUR UTILISATION**

[72] SCHNEIDER, NORA, CH  
[72] HAUSER, JONAS, CH  
[72] SILVA ZOLEZZI, IRMA, CH  
[72] SAMUEL, TINU MARY, CH  
[72] DEONI, SEAN, US  
[72] BARTFAI, TAMAS, SE  
[71] NESTEC S.A., CH  
[85] 2018-05-02  
[86] 2016-12-13 (PCT/EP2016/080796)  
[87] (WO2017/167420)  
[30] US (62/315,134) 2016-03-30  
[30] US (62/315,142) 2016-03-30  
[30] US (62/315,152) 2016-03-30  
[30] US (62/315,158) 2016-03-30  
[30] US (62/315,163) 2016-03-30  
[30] US (62/328,119) 2016-04-27

[21] **3,004,047**  
[13] A1

[51] **Int.Cl. G08G 1/017 (2006.01) G08G 1/09 (2006.01) G08G 1/0965 (2006.01) G08G 1/0967 (2006.01) G08G 1/054 (2006.01) G08G 1/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COMMUNICATING A MESSAGE TO A VEHICLE**

[54] **SYSTEME ET PROCEDE DE TRANSMISSION D'UN MESSAGE A UN VEHICULE**

[72] GUPTA, MANISH, IN  
[72] PAL, PRALAY KUMAR, IN  
[72] SASTRY, RAMESHA CHELUR RAMACHANDRA, IN  
[72] CHINTALAPOODI, PRAMOD, US  
[72] TANAKA, SHO, JP  
[71] SONY CORPORATION, JP  
[85] 2018-05-02  
[86] 2016-10-28 (PCT/JP2016/082023)  
[87] (WO2017/082075)  
[30] US (14/938,052) 2015-11-11

[21] **3,004,048**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/39 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01)**

[25] EN

[54] **CD200 INHIBITORS AND METHODS OF USE THEREOF**

[54] **INHIBITEURS DE CD200 ET LEURS METHODES D'UTILISATION**

[72] OLIN, MICHAEL, US  
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/US2016/060164)  
[87] (WO2017/079335)  
[30] US (62/250,376) 2015-11-03

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[21] **3,004,049**  
[13] A1

[51] **Int.Cl. F17D 5/02 (2006.01) F17D 1/04 (2006.01)**  
[25] EN  
[54] **REAL TIME INTEGRITY MONITORING OF ON-SHORE PIPES**  
[54] **SURVEILLANCE D'INTEGRITE EN TEMPS REEL DE CANALISATIONS A TERRE**  
[72] ETHRIDGE, ANDREW DAVID, US  
[72] WINN, ALEXANDER LEE, US  
[71] FLEXSTEEL PIPELINE TECHNOLOGIES, INC., US  
[85] 2018-05-02  
[86] 2015-11-02 (PCT/US2015/058618)  
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[21] **3,004,050**  
[13] A1

[51] **Int.Cl. E03C 1/04 (2006.01) E03C 1/02 (2006.01) E03C 1/044 (2006.01)**  
[25] EN  
[54] **WATER CONSERVING SHOWER SYSTEM AND THERMOCHROMIC FIXTURES USED THEREIN**  
[54] **SYSTEME DE DOUCHE FAVORISANT L'ECONOMIE D'EAU ET ELEMENTS THERMOCHROMIQUES UTILISES EN SON SEIN**  
[72] SEARCY, GUS, US  
[71] AQUA VIEW INC., US  
[85] 2018-05-02  
[86] 2016-05-18 (PCT/US2016/033140)  
[87] (WO2017/082960)  
[30] US (14/937,587) 2015-11-10

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[21] **3,004,051**  
[13] A1

[51] **Int.Cl. G05D 1/00 (2006.01)**  
[25] EN  
[54] **VEHICLE IDENTIFICATION AND LOCATION USING SENSOR FUSION AND INTER-VEHICLE COMMUNICATION**  
[54] **IDENTIFICATION ET LOCALISATION DE VEHICULES PAR FUSION DE CAPTEURS ET COMMUNICATION ENTRE VEHICULES**  
[72] SWITKES, JOSHUA P., US  
[72] LYONS, DAVID FREDERICK, US  
[72] PRICE, CHARLES A., US  
[72] STANEK, GANYMED, US  
[72] SCHUH, AUSTIN, US  
[72] O'CONNOR, MICHAEL, US  
[72] SMARTT, BRIAN, US  
[72] GERDES, JOSEPH CHRISTIAN, US  
[71] PELOTON TECHNOLOGY, INC., US  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/US2016/060167)  
[87] (WO2017/070714)  
[30] US (14/855,044) 2015-09-15  
[30] US (62/249,898) 2015-11-02  
[30] US (PCT/US2016/049143) 2016-08-26

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[21] **3,004,052**  
[13] A1

[51] **Int.Cl. A41C 3/00 (2006.01) A41C 5/00 (2006.01)**  
[25] EN  
[54] **FLAT-KNIT SUPPORT GARMENT FOR UPPER TORSO**  
[54] **VETEMENT DE SUPPORT EN TRICOT RECTILIGNE POUR TORSO SUPERIEUR**  
[72] DIAZ, JOSUE, US  
[72] MAHESHWARI, RICHA, US  
[72] MONTGOMERY, PAUL R., US  
[72] SEARS, LORI, US  
[72] STAUB, ANDREA J., US  
[72] TANIOS, MICHAEL, US  
[72] SOKOLOWSKI, SUSAN, US  
[72] TEMPESTA, LAURA, US  
[71] NIKE INNOVATE C.V., US  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/US2016/060261)  
[87] (WO2017/079393)  
[30] US (62/250,316) 2015-11-03  
[30] US (15/341,788) 2016-11-02

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[21] **3,004,053**  
[13] A1

[51] **Int.Cl. A61K 35/15 (2015.01) A61K 35/17 (2015.01) A61K 45/06 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR GENE EDITING IN HEMATOPOIETIC STEM CELLS**  
[54] **PROCEDES ET COMPOSITIONS POUR L'EDITION DE GENES DANS DES CELLULES SOUCHES HEMATOPOIETIQUES**  
[72] GILL, SAAR, US  
[72] KIM, MIRIAM, US  
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/US2016/060273)  
[87] (WO2017/079400)  
[30] US (62/250,561) 2015-11-04

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[21] **3,004,055**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) C07K 7/08 (2006.01) G01N 33/564 (2006.01) G01N 33/567 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **PEPTIDES AND METHODS OF TREATING ENDOMETRIOSIS USING THE SAME**  
[54] **PEPTIDES ET METHODES DE TRAITEMENT DE L'ENDOMETRIOSE UTILISANT LESDITS PEPTIDES**  
[72] BARNEA, EYTAN R., US  
[71] BIOINCEPT, LLC, US  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/US2016/060319)  
[87] (WO2017/079430)  
[30] US (PCT/US2015/058877) 2015-11-03  
[30] US (62/317,628) 2016-04-03



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[21] **3,004,056**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01)**  
[25] EN  
[54] **TISSUE-PREFERRED PROMOTERS AND METHODS OF USE**  
[54] **PROMOTEURS PREFERES PAR UN TISSU ET PROCEDES D'UTILISATION**  
[72] DA SILVA CONCEICAO, ALEXANDRE, US  
[72] GORDON-KAMM, WILLIAM JAMES, US  
[72] KLEIN, THEODORE MITCHELL, US  
[72] LA ROTA, CARLOS M., US  
[72] LOWE, KEITH S., US  
[71] PIONEER HI-BRED INTERNATIONAL, INC., US  
[85] 2018-05-02  
[86] 2016-08-26 (PCT/US2016/049128)  
[87] (WO2017/112006)  
[30] US (62/271,230) 2015-12-22

[21] **3,004,058**  
[13] A1

[51] **Int.Cl. E21B 21/06 (2006.01)**  
[25] EN  
[54] **CONTROL OF NANOPARTICLES DISPERSION STABILITY THROUGH DIELECTRIC CONSTANT TUNING, AND DETERMINATION OF INTRINSIC DIELECTRIC CONSTANT OF SURFACTANT-FREE NANOPARTICLES**  
[54] **REGULATION DE LA STABILITE DE LA DISPERSION DE NANOPARTICULES PAR AJUSTEMENT DE LA CONSTANTE DIELECTRIQUE, ET DETERMINATION DE LA CONSTANTE DIELECTRIQUE INTRINSEQUE DE NANOPARTICULES SANS AGENT TENSIOACTIF**  
[72] ZHANG, XI, US  
[72] YAO, HAIQING, US  
[72] SUE, HUNG-JUE, US  
[72] MIYAMOTO, MASAHIRO, US  
[71] KANEKA AMERICAS HOLDING, INC., US  
[71] TEXAS A&M UNIVERSITY, US  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/US2016/060331)  
[87] (WO2017/079436)  
[30] US (62/250,157) 2015-11-03

[21] **3,004,059**  
[13] A1

[51] **Int.Cl. A61K 33/14 (2006.01) A61K 8/63 (2006.01) A61Q 19/08 (2006.01)**  
[25] EN  
[54] **ANTI-AGING COMPOSITIONS AND METHODS FOR USING SAME**  
[54] **COMPOSITIONS ANTI-VEILLISSEMENT ET LEURS PROCEDES D'UTILISATION**  
[72] IDELEVICH, PAVEL, US  
[72] IDELEVICH, ANNA, US  
[71] PRESCIENT PHARMA LLC, US  
[85] 2018-05-02  
[86] 2016-11-03 (PCT/US2016/060371)  
[87] (WO2017/079463)  
[30] US (62/250,910) 2015-11-04

[21] **3,004,060**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12P 19/30 (2006.01)**  
[25] EN  
[54] **NUCLEOTIDE ANALOGUES**  
[54] **ANALOGUES NUCLEOTIDIQUES**  
[72] MARMA, MONG SANO, US  
[72] OLEJNIK, JERZY, US  
[72] KORBOUKH, ILIA, US  
[71] QIAGEN SCIENCES LLC, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060435)  
[87] (WO2017/079498)  
[30] US (62/251,884) 2015-11-06  
[30] US (62/327,555) 2016-04-26

[21] **3,004,062**  
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01)**  
[25] EN  
[54] **NUTRITIONAL COMPOSITIONS FOR PROMOTING GUT BARRIER FUNCTION AND AMELIORATING VISCERAL PAIN**  
[54] **COMPOSITIONS NUTRITIONNELLES POUR FAVORISER LA FONCTION DE BARRIERE INTESTINALE ET SOULAGER LES DOULEURS VISCERALES**  
[72] ZHONG, YAN, CN  
[72] LAMBERS, TEARTSE TIM, NL  
[72] GROSS, GABRIELE, NL  
[72] MANURUNG, SARMAULI, NL  
[72] VAN TOL, ERIC A.F., NL  
[72] WAWORUNTU, ROSALINE, US  
[71] MJN U.S. HOLDINGS LLC, US  
[85] 2018-05-02  
[86] 2016-10-10 (PCT/US2016/056207)  
[87] (WO2017/078907)  
[30] US (14/934,559) 2015-11-06

[21] **3,004,064**  
[13] A1

[51] **Int.Cl. D03D 1/02 (2006.01)**  
[25] EN  
[54] **LOW PERMEABILITY AND HIGH STRENGTH FABRIC AND METHODS OF MAKING THE SAME**  
[54] **TISSU A FAIBLE PERMEABILITE ET HAUTE RESISTANCE ET SON PROCEDE DE FABRICATION**  
[72] HUNT, NEIL, GB  
[72] SHARMA, VARUNESH, US  
[71] INVISTA TECHNOLOGIES S.AR.L., CH  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060436)  
[87] (WO2017/079499)  
[30] US (62/251,817) 2015-11-06

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[21] **3,004,067**  
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01) B60R 11/02 (2006.01)**  
[25] EN  
[54] **OVERHEAD DISPLAY SCREEN**  
[54] **ECRAN D'AFFICHAGE SUSPENDU**  
[72] MOYER, ERIC P., US  
[72] CARSWELL, SAMUEL A., US  
[72] SIMONE, BRIAN ANDREW, US  
[71] SYSTEMS AND SOFTWARE ENTERPRISES, LLC, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060510)  
[87] (WO2017/079543)  
[30] US (62/252,340) 2015-11-06  
[30] US (15/343,596) 2016-11-04

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[21] **3,004,068**  
[13] A1

[51] **Int.Cl. B01J 8/00 (2006.01) B01J 8/12 (2006.01) B01J 8/44 (2006.01) C10G 3/00 (2006.01) C10G 11/16 (2006.01)**  
[25] EN  
[54] **MULTIPHASE SEPARATOR AND METHODS OF USE THEREOF FOR PRODUCING HYDROCARBONS FROM OXYGENATES AND OLEFINS**  
[54] **SEPARATEUR MULTIPHASE ET LEURS PROCEDES D'UTILISATION POUR LA PRODUCTION D'HYDROCARBURES A PARTIR DE COMPOSES OXYGENES ET D'OLEFINES**  
[72] BEHKISH, ARSAM, US  
[72] RATERMAN, MICHAEL FRANCIS, US  
[72] KARRI, SURYA BHASKARA REDDY, US  
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060518)  
[87] (WO2017/087187)  
[30] US (62/256,806) 2015-11-18

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[21] **3,004,074**  
[13] A1

[51] **Int.Cl. A61F 13/532 (2006.01) A61F 13/534 (2006.01)**  
[25] EN  
[54] **THIN AND FLEXIBLE ABSORBENT ARTICLES**  
[54] **ARTICLES ABSORBANTS MINCES ET SOUPLES**  
[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US  
[72] MORROW, CLINT ADAM, US  
[72] HUBBARD, WADE MONROE, JR., US  
[72] DUVAL, DEAN LARRY, US  
[72] KIRKBRIDE, TANA MARIE, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060553)  
[87] (WO2017/079573)  
[30] US (62/251,006) 2015-11-04

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[21] **3,004,076**  
[13] A1

[51] **Int.Cl. A61F 13/532 (2006.01) A61F 13/534 (2006.01)**  
[25] EN  
[54] **THIN AND FLEXIBLE ABSORBENT ARTICLES**  
[54] **ARTICLES ABSORBANTS MINCES ET SOUPLES**  
[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US  
[72] MORROW, CLINT ADAM, US  
[72] HUBBARD, WADE MONROE, JR., US  
[72] DUVAL, DEAN LARRY, US  
[72] KIRKBRIDE, TANA MARIE, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060565)  
[87] (WO2017/079583)  
[30] US (62/251,031) 2015-11-04

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[21] **3,004,078**  
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61B 10/00 (2006.01) A61B 17/12 (2006.01) A61B 17/122 (2006.01) A61B 17/125 (2006.01) A61B 17/32 (2006.01)**  
[25] EN  
[54] **CORD COLLECTION CLAMP**  
[54] **PINCE DE COLLECTE DE CORDON**  
[72] KUYPERS, FRANCISCUS A., US  
[71] CHILDREN'S HOSPITAL & RESEARCH CENTER AT OAKLAND, US  
[85] 2018-05-02  
[86] 2016-10-10 (PCT/US2016/056308)  
[87] (WO2017/087090)  
[30] US (14/942,094) 2015-11-16

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[21] **3,004,079**  
[13] A1

[51] **Int.Cl. B01J 29/06 (2006.01) B01D 53/94 (2006.01) F01N 3/022 (2006.01)**  
[25] EN  
[54] **BINARY CATALYST BASED SELECTIVE CATALYTIC REDUCTION FILTER**  
[54] **FILTRE DE REDUCTION CATALYTIQUE SELECTIVE A BASE DE CATALYSEUR BINAIRE**  
[72] GOFFE, RANDAL A., US  
[71] PACCAR INC, US  
[85] 2018-05-02  
[86] 2016-11-04 (PCT/US2016/060583)  
[87] (WO2017/079598)  
[30] US (14/935,199) 2015-11-06

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[21] **3,004,081**  
[13] A1

[51] **Int.Cl. C09D 5/08 (2006.01)**  
[25] EN  
[54] **USING QUATERNARY AMINE ADDITIVES TO IMPROVE WATER SEPARATION**  
[54] **UTILISATION D'ADDITIFS D'AMINE QUATERNAIRE POUR AMELIORER LA SEPARATION D'EAU**  
[72] HADLER, AMELIA, US  
[72] FABER, BEN, US  
[72] CLARK, JENNIFER E., US  
[72] MINCH, BRITT A., US  
[71] THE LUBRIZOL CORPORATION, US  
[85] 2018-05-02  
[86] 2016-10-11 (PCT/US2016/056412)  
[87] (WO2017/083042)  
[30] US (62/252,734) 2015-11-09

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[21] **3,004,083**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4245 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS AND METHODS FOR INDOLEAMINE 2,3-DIOXYGENASE INHIBITION AND INDICATIONS THEREFOR**

[54] **COMPOSITIONS PHARMACEUTIQUES ET METHODES D'INHIBITION D'INDOLAMINE 2,3-DIOXYGENASE ET LEURS INDICATIONS**

[72] YELESWARAM, KRISHNASWAMY, US

[72] SHI, JACK GUOEN, US

[71] INCYTE CORPORATION, US

[85] 2018-05-02

[86] 2016-11-04 (PCT/US2016/060693)

[87] (WO2017/079669)

[30] US (62/250,968) 2015-11-04

[21] **3,004,084**  
[13] A1

[51] **Int.Cl. H05K 5/02 (2006.01) H01L 23/44 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PROVIDING A TEMPERATURE-DIFFERENTIAL CIRCUIT CARD ENVIRONMENT**

[54] **APPAREIL ET PROCEDE POUR FOURNIR UN ENVIRONNEMENT DE CARTES DE CIRCUIT IMPRIME A DIFFERENTIEL DE TEMPERATURE**

[72] CHRISTIANSEN, MARTIN BROKNER, US

[72] CHOROSINSKI, LEONARD GEORGE, US

[72] HEFFNER, H. CRAIG, US

[72] WAKAMIYA, STANLEY KATSUYOSHI, US

[72] KIRKWOOD, KEITH R., US

[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US

[85] 2018-05-02

[86] 2016-10-11 (PCT/US2016/056444)

[87] (WO2017/087092)

[30] US (14/943,337) 2015-11-17

[21] **3,004,086**  
[13] A1

[51] **Int.Cl. B32B 27/32 (2006.01) C08J 5/18 (2006.01) C08L 23/16 (2006.01)**

[25] EN

[54] **LOW CRYSTALLINE POLYMER COMPOSITIONS**

[54] **COMPOSITIONS DE POLYMERES FAIBLEMENT CRISTALLINES**

[72] VAN HOYWEGHEN, DANNY, BE

[72] MITCHELL, CYNTHIA A., US

[72] VAN LOON, ACHIEL J.M., BE

[72] DHARMARAJAN, NARAYANASWAMI, US

[72] DATTA, SUDHIN, US

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2018-05-02

[86] 2016-10-17 (PCT/US2016/057308)

[87] (WO2017/105614)

[30] US (62/268,112) 2015-12-16

[30] EP (16160370.9) 2016-03-15

[21] **3,004,087**  
[13] A1

[51] **Int.Cl. G01D 11/30 (2006.01) F16L 37/08 (2006.01) F16L 37/28 (2006.01) G01F 15/18 (2006.01) G01K 1/14 (2006.01) G01L 19/00 (2006.01)**

[25] EN

[54] **DEPRESSOR-ADJUSTMENT UNIT AND MANIFOLD GAUGE SET INCLUDING THE SAME**

[54] **MODULE D'AJUSTEMENT DE DEPRESSEUR ET ENSEMBLE DE JAUGE DE COLLECTEUR COMPORTANT LEDIT MODULE**

[72] KANG, SUGJAE, KR

[71] KANG, SUGJAE, KR

[85] 2018-05-02

[86] 2016-11-02 (PCT/KR2016/012500)

[87] (WO2017/078388)

[30] KR (10-2015-0153966) 2015-11-03

[30] KR (10-2015-0164449) 2015-11-24

[30] KR (10-2015-0176605) 2015-12-11

[30] KR (10-2016-0076950) 2016-06-21

[21] **3,004,089**  
[13] A1

[51] **Int.Cl. H04N 21/214 (2011.01) H04N 21/414 (2011.01)**

[25] EN

[54] **METHOD OF ASSOCIATING LOCATIONS WITH DEVICES**

[54] **PROCEDE PERMETTANT D'ASSOCIER DES POSITIONS A DES DISPOSITIFS**

[72] MOYER, ERIC P., US

[72] ROCHAU, ANDREAS, DE

[72] KISSLING, CHRISTIAN, DE

[71] SYSTEMS AND SOFTWARE ENTERPRISES, LLC, US

[85] 2018-05-02

[86] 2016-11-04 (PCT/US2016/060696)

[87] (WO2017/079671)

[30] US (62/252,371) 2015-11-06

[30] US (15/344,352) 2016-11-04

[21] **3,004,090**  
[13] A1

[51] **Int.Cl. A01M 1/04 (2006.01) A01M 29/10 (2011.01) A01K 85/01 (2006.01) A01M 1/08 (2006.01) A01M 99/00 (2006.01) G06K 9/00 (2006.01) G06T 7/20 (2017.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ATTRACTING INSECTS BY SIMULATING WING FLASH**

[54] **SYSTEMES ET PROCEDES POUR ATTIRER DES INSECTES PAR SIMULATION DE BATTEMENT D'AILE**

[72] GRIES, GERHARD J., CA

[72] HRABAR, MICHAEL GEORGE, CA

[72] STEPANOVIC, LYDIA CARROL, CA

[72] EICHORN, COURTNEY ELAINE, CA

[72] VAN RYN, EMMA CHRISTINA, CA

[72] BRODIE, BEKKA SUE, US

[72] BLAKE, ADAM JAMES, CA

[72] THANDI, ROOHY, CA

[71] GRIES, GERHARD J., CA

[85] 2018-05-02

[86] 2016-11-04 (PCT/US2016/060708)

[87] (WO2017/079680)

[30] US (62/252,223) 2015-11-06

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[21] **3,004,094**  
[13] A1

[51] **Int.Cl. A61B 3/10 (2006.01) G06T 7/149 (2017.01)**

[25] EN

[54] **RESOLUTION ENHANCEMENT OF OCT IMAGES DURING VITREORETINAL SURGERY**

[54] **AMELIORATION DE LA RESOLUTION D'IMAGES DE TOMOGRAPHIE PAR COHERENCE OPTIQUE AU COURS D'UNE CHIRURGIE VITREO-RETINIENNE**

[72] CHARLES, STEVEN T., US

[71] NOVARTIS AG, CH

[85] 2018-05-02

[86] 2016-11-15 (PCT/US2016/061974)

[87] (WO2017/087356)

[30] US (14/942,801) 2015-11-16

[21] **3,004,095**  
[13] A1

[51] **Int.Cl. C07D 277/64 (2006.01) C07D 409/12 (2006.01)**

[25] EN

[54] **INHIBITORS OF ARGININE GINGIPAIN**

[54] **INHIBITEURS D'ARGININE GINGIPAINE**

[72] KONRADI, ANDREI, US

[72] DOMINY, STEPHEN S., US

[72] LYNCH, CASEY C., US

[72] COBURN, CRAIG, US

[72] VACCA, JOSEPH, US

[71] CORTEXYME, INC., US

[85] 2018-05-02

[86] 2016-11-09 (PCT/US2016/061197)

[87] (WO2017/083433)

[30] US (62/253,039) 2015-11-09

[30] US (62/338,924) 2016-05-19

[21] **3,004,096**  
[13] A1

[51] **Int.Cl. C05C 7/00 (2006.01) A01N 25/00 (2006.01) A01N 59/24 (2006.01) A01P 5/00 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **PRE-PLANT BIOCIDES USES OF CYANAMIDES**

[54] **USAGES BIOCIDES DE CYANAMIDES AQUEUX AVANT LA PLANTATION**

[72] MCKENRY, MICHAEL, US

[71] METBRO DISTRIBUTING LP, US

[85] 2018-05-02

[86] 2016-11-07 (PCT/US2016/060842)

[87] (WO2017/083231)

[30] US (62/252,833) 2015-11-09

[21] **3,004,098**  
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) G06Q 10/04 (2012.01) G06Q 50/10 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR SHARED TRANSPORT**

[54] **PROCEDE ET SYSTEME DE TRANSPORT PARTAGE**

[72] PAN, BIN, US

[72] GODIL, HASRAT, US

[72] TOLKIN, BRIAN, US

[71] UBER TECHNOLOGIES, INC., US

[85] 2018-05-02

[86] 2016-11-16 (PCT/US2016/062344)

[87] (WO2017/087565)

[30] US (14/942,361) 2015-11-16

[21] **3,004,100**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H02J 50/12 (2016.01)**

[25] EN

[54] **COUPLED RESONATOR IN A METAL BACK COVER**

[54] **RESONATEUR COUPLE DANS UN COUVERCLE ARRIERE METALLIQUE**

[72] JEONG, SEONG HEON, US

[71] QUALCOMM INCORPORATED, US

[85] 2018-05-02

[86] 2016-11-09 (PCT/US2016/061024)

[87] (WO2017/099929)

[30] US (62/264,196) 2015-12-07

[30] US (15/149,024) 2016-05-06

[21] **3,004,102**  
[13] A1

[51] **Int.Cl. G01N 27/447 (2006.01) B01L 3/00 (2006.01) F16K 99/00 (2006.01) G01N 30/08 (2006.01) G01N 30/46 (2006.01) G01N 30/60 (2006.01) G01N 30/20 (2006.01) G01N 30/72 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF PRECONCENTRATING ANALYTES IN A MICROFLUIDIC DEVICE**

[54] **SYSTEME ET PROCEDE DE PRECONCENTRATION D'ANALYTES DANS UN DISPOSITIF MICROFLUIDIQUE**

[72] KELLY, RYAN T., US

[72] CONG, YONGZHENG, US

[71] BATTELLE MEMORIAL INSTITUTE, US

[85] 2018-05-02

[86] 2016-12-02 (PCT/US2016/064654)

[87] (WO2017/096186)

[30] US (14/958,248) 2015-12-03

[21] **3,004,106**  
[13] A1

[51] **Int.Cl. G05B 19/4097 (2006.01) G06Q 10/04 (2012.01) C14B 5/00 (2006.01)**

[25] EN

[54] **REMOTE MATERIAL YIELD OPTIMIZATION FOR LEATHER AND OTHER HETEROGENEOUS MATERIAL**

[54] **OPTIMISATION DE RENDEMENT DE MATERIAU A DISTANCE POUR LE CUIR ET AUTRE MATERIAU HETEROGENE**

[72] GORDON, THOMAS A., US

[72] LORD, WILLIAM T., US

[72] RHODES, TODD ALAN, US

[71] GERBER TECHNOLOGY, INC., US

[85] 2018-05-02

[86] 2016-11-09 (PCT/US2016/061071)

[87] (WO2017/083344)

[30] US (14/937,487) 2015-11-10

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[21] **3,004,107**  
[13] A1

[51] **Int.Cl. C07H 5/06 (2006.01) A61K 31/7032 (2006.01)**  
[25] EN  
[54] **GLYCOLIPID COMPOUNDS AND THEIR USES IN THE TREATMENT OF TUMOURS**  
[54] **COMPOSES GLYCOLIPIDES ET LEURS UTILISATIONS DANS LE TRAITEMENT DE TUMEURS**  
[72] BOVIN, NICOLAI  
VLADIMIROVICH, RU  
[72] TUZIKOV, ALEXANDER  
BORISOVICH, RU  
[72] KORCHAGINA, ELENA YURIEVNA,  
RU  
[72] HENRY, STEPHEN, NZ  
[72] GRIFFITHS, GRAHAM, GB  
[72] SHAW, STEPHEN, GB  
[71] AGALIMMUNE LIMITED, GB  
[71] KODE BIOTECH LIMITED, NZ  
[85] 2018-05-02  
[86] 2015-11-11 (PCT/RU2015/000766)  
[87] (WO2017/082753)

[21] **3,004,109**  
[13] A1

[51] **Int.Cl. F16K 11/07 (2006.01) F16K 31/68 (2006.01) G05D 23/02 (2006.01) G05D 23/13 (2006.01)**  
[25] EN  
[54] **A THERMOSTATIC MIXING VALVE WITH DISINFECTING FACILITY**  
[54] **ROBINET MELANGEUR THERMOSTATIQUE AVEC FONCTIONNALITE DE DESINFECTION**  
[72] FORRESTAL, DAVID PETER, AU  
[72] HAY, GARY, AU  
[71] RELIANCE WORLDWIDE CORPORATION (AUST.) PTY. LTD., AU  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/AU2016/051055)  
[87] (WO2017/075668)  
[30] AU (2015904544) 2015-11-05  
[30] AU (2015905339) 2015-12-22

[21] **3,004,112**  
[13] A1

[51] **Int.Cl. G06F 17/50 (2006.01)**  
[25] EN  
[54] **OPTIMIZATION UNDER UNCERTAINTY FOR INTEGRATED MODELS**  
[54] **OPTIMISATION EN PRESENCE D'INCERTITUDE POUR MODELES INTEGRES**  
[72] HALABE, VIJAYA, US  
[72] BAILEY, WILLIAM J., US  
[72] PRANGE, MICHAEL DAVID, US  
[72] TONKIN, TREVOR GRAHAM, GB  
[71] SCHLUMBERGER CANADA LIMITED, CA  
[85] 2018-05-02  
[86] 2016-10-25 (PCT/US2016/058559)  
[87] (WO2017/074883)  
[30] US (62/247,073) 2015-10-27

[21] **3,004,117**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **ANTIBODIES SPECIFICALLY BINDING PD-1 AND THEIR USES**  
[54] **ANTICORPS SE LIANT SPECIFIQUEMENT A PD-1 ET LEURS UTILISATIONS**  
[72] VERONA, RALUCA, US  
[72] POWERS, GORDON, US  
[72] SABINS, NINA CHI, US  
[72] DEANGELIS, NIKKI A., US  
[72] SANTULLI-MAROTTO, SANDRA, US  
[72] WIEHAGEN, KARLA R., US  
[72] UBANI, ENRIQUE ZUDAIRE, US  
[72] FERRANTE, CATHERINE, US  
[72] WU, SHENG-JIUN, US  
[71] JANSSEN BIOTECH, INC., US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059833)  
[87] (WO2017/079112)  
[30] US (62/250,095) 2015-11-03

[21] **3,004,119**  
[13] A1

[51] **Int.Cl. A01J 11/02 (2006.01) A01J 11/04 (2006.01) B01D 19/02 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR CONTROLLING FOAMING IN A DEGASSING DEVICE FOR LIQUIDS AND HEAT-EXCHANGER SYSTEM FOR SUCH A DEVICE**  
[54] **PROCEDE ET DISPOSITIF DE REGULATION DE LA FORMATION DE MOUSSE DANS UN DISPOSITIF DE DEGASSEMENT POUR LIQUIDES ET SYSTEME D'ECHANGEURS THERMIQUES POUR UN TEL DISPOSITIF**  
[72] ASSING, HUBERT, DE  
[72] BUSS, HELMUT, DE  
[72] ROLLE, ULRICH, DE  
[72] SCHMIED, ANDREAS, DE  
[72] SCHWENZOW, UWE, DE  
[72] TACKE, LUDGER, DE  
[72] ZIMMERMANN, DIETRICH, DE  
[71] GEA TDS GMBH, DE  
[85] 2018-05-03  
[86] 2016-10-25 (PCT/EP2016/001763)  
[87] (WO2017/076488)  
[30] DE (10 2015 014 107.4) 2015-11-03  
[30] DE (10 2015 015 056.1) 2015-11-20

[21] **3,004,120**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **GENETICALLY MODIFIED CELLS AND USES THEREOF**  
[54] **CELLULES GENETIQUEMENT MODIFIEES ET UTILISATIONS DE CES DERNIERES**  
[72] BOYD, RICHARD, AU  
[72] TROUNSON, ALAN, AU  
[72] KAWAMOTO, HIROSHI, AU  
[71] CARTHERICS PTY. LTD., AU  
[85] 2018-05-03  
[86] 2016-11-23 (PCT/AU2016/051141)  
[87] (WO2017/088012)  
[30] AU (2015904933) 2015-11-27  
[30] AU (2016901328) 2016-04-11

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[21] **3,004,122**  
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/32 (2006.01) C08G 18/42 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **CRYSTALLINE HIGH MODULUS THERMOPLASTIC POLYURETHANE**

[54] **POLYURETHANE THERMOPLASTIQUE CRISTALLIN A MODULE ELEVE**

[72] LU, QIWEI, US

[72] FARKAS, JULIUS, US

[72] MAKADIA, CHETAN M., US

[72] JING, ALEXANDER JIAOKAI, US

[71] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2018-05-02

[86] 2016-11-01 (PCT/US2016/059812)

[87] (WO2017/079101)

[30] US (62/251,724) 2015-11-06

[21] **3,004,123**  
[13] A1

[51] **Int.Cl. C09D 11/10 (2014.01) C09D 11/103 (2014.01) C09D 11/107 (2014.01) C09D 11/50 (2014.01) C09B 67/00 (2006.01) C09K 11/06 (2006.01)**

[25] EN

[54] **CORE-SHELL PARTICLE-BASED SECURITY PIGMENT, AND PRODUCTION METHOD**

[54] **PIGMENT DE SECURITE A BASE DE PARTICULES COEUR-ECORCE ET SON PROCEDE DE FABRICATION**

[72] KECHT, JOHANN, DE

[72] SCHLOSSBAUER, AXEL, DE

[71] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE

[85] 2018-05-03

[86] 2016-11-09 (PCT/EP2016/001862)

[87] (WO2017/080653)

[30] DE (10 2015 014 537.1) 2015-11-11

[21] **3,004,124**  
[13] A1

[51] **Int.Cl. C09K 11/06 (2006.01) B42D 25/00 (2014.01) B32B 27/30 (2006.01) C08L 33/12 (2006.01) C09K 11/02 (2006.01) D21H 21/40 (2006.01)**

[25] EN

[54] **SECURITY PIGMENT, LUMINESCENT POLYMER RESIN AND METHOD FOR PRODUCING SAME**

[54] **PIGMENT DE SECURITE, RESINE POLYMERE LUMINESCENTE ET PROCEDE DE PRODUCTION**

[72] KECHT, JOHANN, DE

[72] SCHLOSSBAUER, AXEL, DE

[71] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE

[85] 2018-05-03

[86] 2016-11-09 (PCT/EP2016/001864)

[87] (WO2017/080655)

[30] DE (10 2015 014 526.6) 2015-11-11

[21] **3,004,125**  
[13] A1

[51] **Int.Cl. B41M 3/14 (2006.01) B42D 25/29 (2014.01) B42D 25/30 (2014.01) B42D 25/387 (2014.01) C09D 11/037 (2014.01) C09B 67/02 (2006.01) C09B 67/08 (2006.01) C09B 67/22 (2006.01) C09D 161/28 (2006.01) C09K 11/06 (2006.01) D21H 21/30 (2006.01) G01N 21/64 (2006.01) G07D 7/12 (2016.01)**

[25] EN

[54] **CORE-SHELL PARTICLE-BASED SECURITY PIGMENT AND METHOD FOR PRODUCTION THEREOF**

[54] **PIGMENT DE SECURITE A BASE DE PARTICULES COEUR-ECORCE ET SON PROCEDE DE PRODUCTION**

[72] KECHT, JOHANN, DE

[72] SCHLOSSBAUER, AXEL, DE

[71] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE

[85] 2018-05-03

[86] 2016-11-09 (PCT/EP2016/001865)

[87] (WO2017/080656)

[30] DE (10 2015 014 525.8) 2015-11-11

[21] **3,004,128**  
[13] A1

[51] **Int.Cl. H01R 13/46 (2006.01) H01R 9/22 (2006.01)**

[25] EN

[54] **DISTRIBUTION MODULE WITH SELECTOR SWITCH**

[54] **MODULE REPARTITEUR A SELECTEUR**

[72] JUNG, MARKUS, DE

[72] LIEB, GERALD, DE

[72] TETTENBORN, CARSTEN, DE

[72] VOSSELER, JULIAN, DE

[72] SCHOPF, THOMAS, DE

[71] BELDEN DEUTSCHLAND GMBH, DE

[85] 2018-05-03

[86] 2016-10-20 (PCT/EP2016/075256)

[87] (WO2017/068056)

[30] DE (10 2015 220 562.2) 2015-10-21

[21] **3,004,129**  
[13] A1

[51] **Int.Cl. C01B 17/78 (2006.01) B01D 53/14 (2006.01) B01J 19/00 (2006.01) C01B 17/79 (2006.01) C01B 17/80 (2006.01)**

[25] EN

[54] **METHOD AND PLANT DESIGN FOR REDUCTION OF START-UP SULFUR OXIDE EMISSIONS IN SULFURIC ACID PRODUCTION**

[54] **PROCEDE ET CONCEPTION D'INSTALLATION POUR LA REDUCTION DES EMISSIONS D'OXYDE DE SOUFRE AU DEMARRAGE DANS LA PRODUCTION D'ACIDE SULFURIQUE**

[72] GRANROTH, MARTEN NILS RICKARD, SE

[72] SORENSEN, PER AGGERHOLM, DK

[72] CHRISTENSEN, KURT AGERBAEK, DK

[71] HALDOR TOPSOE A/S, DK

[85] 2018-05-03

[86] 2016-10-24 (PCT/EP2016/075492)

[87] (WO2017/076673)

[30] DK (PA 2015 00697) 2015-11-06

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[21] **3,004,130**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) F04B 1/00 (2006.01) F04B 19/06 (2006.01) G01N 1/00 (2006.01) G01N 30/20 (2006.01)**

[25] EN

[54] **SAMPLE PREPARATION DEVICE**

[54] **DISPOSITIF DE PREPARATION D'ECHANTILLONS**

[72] HAWORTH, DANIEL NICHOLAS, GB

[72] PALMER-FELGATE, JOHN PAUL, GB

[71] ALERE SAN DIEGO, INC., US

[71] ALERE SWITZERLAND GMBH, CH

[85] 2018-05-03

[86] 2016-10-31 (PCT/EP2016/076263)

[87] (WO2017/076817)

[30] GB (1519565.4) 2015-11-05

[21] **3,004,131**  
[13] A1

[51] **Int.Cl. F16B 43/00 (2006.01) B02C 17/00 (2006.01) B02C 17/18 (2006.01) B02C 17/22 (2006.01) F16B 1/00 (2006.01) F16B 21/00 (2006.01) F16B 39/00 (2006.01) F16B 39/24 (2006.01) F16B 39/284 (2006.01) F16B 39/34 (2006.01) F16F 1/32 (2006.01)**

[25] EN

[54] **DEVICE FOR PREVENTING SPILLS FROM INSIDE MINING MILLS, SAID DEVICE MAINTAINING A SEAL AROUND BOLTS USED TO SECURE MILL LINERS, AND MAINTAINING SAID BOLTS UNDER TENSION BY MEANS OF AN ELASTIC ACTION**

[54] **DISPOSITIF POUR EVITER LES FUITES DE L'INTERIEUR DE BROyeurs DE MINERAL, QUI MAINTIENT L'ETANCHEITE DES BOULONS DE FIXATION DE REVETEMENTS DE BROyeurs, AINSI QUE LA CONTRAINTE DE CES BOULONS POUR LEUR ACTION ELASTIQUE**

[72] ENDO ARRIAGADA, ALVARO ENRIQUE, CL

[71] ENDO ARRIAGADA, ALVARO ENRIQUE, CL

[85] 2018-05-03

[86] 2016-08-30 (PCT/CL2016/000050)

[87] (WO2017/066892)

[30] CL (3138-2015) 2015-10-23

[21] **3,004,132**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C12N 7/00 (2006.01)**

[25] EN

[54] **A RETROVIRAL VECTOR FOR THE ADMINISTRATION AND EXPRESSION OF REPLICON RNA EXPRESSING HETEROLOGOUS NUCLEIC ACIDS**

[54] **VECTEUR RETROVIRAL POUR L'ADMINISTRATION ET L'EXPRESSION D'UN REPLICON ARN EXPRIMANT DES ACIDES NUCLEIQUES HETEROLOGUES**

[72] BERGLUND, PETER LARS AKSEL, US

[72] ARCHER, JACOB FREEMAN, US

[72] LIN, TSAI-YU, US

[71] IMMUNE DESIGN CORP., US

[85] 2018-05-02

[86] 2016-11-09 (PCT/US2016/061092)

[87] (WO2017/083356)

[30] US (62/252,865) 2015-11-09

[21] **3,004,133**  
[13] A1

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 41/00 (2006.01) G05B 19/02 (2006.01)**

[25] EN

[54] **USING MODELS AND RELATIONSHIPS TO OBTAIN MORE EFFICIENT DRILLING USING AUTOMATIC DRILLING APPARATUS**

[54] **UTILISATION DE MODELES ET DE RELATIONS POUR OBTENIR UN FORAGE PLUS EFFICACE A L'AIDE D'UN APPAREIL DE FORAGE AUTOMATIQUE**

[72] BELASKIE, JAMES, US

[72] MEEHAN, RICHARD JOHN, US

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2018-05-02

[86] 2016-11-10 (PCT/US2016/061222)

[87] (WO2017/083454)

[30] US (62/254,062) 2015-11-11

[21] **3,004,134**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTIBODIES SPECIFICALLY BINDING TIM-3 AND THEIR USES**

[54] **ANTICORPS SE LIANT SPECIFIQUEMENT A TIM-3 ET LEURS UTILISATIONS**

[72] VERONA, RALUCA, US

[72] POWERS, GORDON, US

[72] SABINS, NINA CHI, US

[72] DEANGELIS, NIKKI A., US

[72] SANTULLI-MAROTTO, SANDRA, US

[72] WIEHAGEN, KARLA R., US

[72] WU, SHENG-JIUN, US

[72] FERRANTE, CATHERINE, US

[72] UBANI, ENRIQUE ZUDAIRE, US

[71] JANSSEN BIOTECH, INC., US

[85] 2018-05-02

[86] 2016-11-01 (PCT/US2016/059836)

[87] (WO2017/079115)

[30] US (62/250,095) 2015-11-03

[21] **3,004,136**  
[13] A1

[51] **Int.Cl. F27D 1/04 (2006.01) E04B 2/08 (2006.01) E04B 2/16 (2006.01) E04C 1/00 (2006.01) F23M 3/04 (2006.01) F23M 3/16 (2006.01) F27B 3/12 (2006.01)**

[25] EN

[54] **REFRACTORY INSERT MEMBERS, REFRACTORY BLOCK ASSEMBLY INCLUDING SAME AND REFORMER FLUE GAS TUNNEL ASSEMBLY INCLUDING SAME**

[54] **ELEMENTS INSERES REFRACTAIRES, ENSEMBLE BLOC REFRACTAIRE LES COMPRENANT ET ENSEMBLE TUNNEL DE GAZ DE COMBUSTION DE REFORMEUR COMPRENANT CEUX-CI**

[72] RUSSELL, WILLIAM P., US

[72] QUINTILIANI, JOSEPH D., US

[72] BOLEBRUCH, JEFFREY J., US

[71] BLASCH PRECISION CERAMICS, INC., US

[85] 2018-05-02

[86] 2016-11-10 (PCT/US2016/061307)

[87] (WO2017/083506)

[30] US (62/254,923) 2015-11-13

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[13] A1

[51] **Int.Cl. A47L 13/58 (2006.01) A47J 47/18 (2006.01)**  
[25] EN  
[54] **BUCKET**  
[54] **SEAU**  
[72] RUCKHEIM, MARKUS, DE  
[71] MAST, CHRISTIAN, DE  
[72] KOSUB, MIKE, DE  
[72] CASCIONE, TOMASO, IT  
[71] CARL FREUDENBERG KG, DE  
[85] 2018-05-03  
[86] 2016-11-02 (PCT/EP2016/076426)  
[87] (WO2017/076904)  
[30] DE (10 2015 014 122.8) 2015-11-04

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[21] **3,004,138**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01)**  
[25] EN  
[54] **ANTIBODIES SPECIFICALLY BINDING PD-1 AND TIM-3 AND THEIR USES**  
[54] **DES ANTICORPS SE LIANT SPECIFIQUEMENT A PD -1 ET LE TIM -3 ET LEURS UTILISATIONS**  
[72] VERONA, RALUCA, US  
[72] POWERS, GORDON, US  
[72] SABINS, NINA CHI, US  
[72] DEANGELIS, NIKKI A., US  
[72] SANTULLI-MAROTTO, SANDRA, US  
[72] WIEHAGEN, KARLA R., US  
[72] WU, SHENG-JIUN, US  
[72] FERRANTE, CATHERINE, US  
[72] UBANI, ENRIQUE ZUDAIRE, US  
[71] JANSSEN BIOTECH, INC., US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059837)  
[87] (WO2017/079116)  
[30] US (62/250,095) 2015-11-03

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[21] **3,004,139**  
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 50/10 (2012.01) G06Q 50/22 (2018.01) G06Q 50/00 (2012.01)**  
[25] EN  
[54] **PRESCRIPTION HOME DELIVERY**  
[54] **LIVRAISON A DOMICILE DE MEDICAMENTS SUR ORDONNANCE**  
[72] NATARAJAN, CHANDRASHEKAR, US  
[72] HIGH, DONALD R., US  
[72] O'BRIEN, JOHN J., V, US  
[71] WALMART APOLLO, LLC, US  
[85] 2018-05-02  
[86] 2016-11-10 (PCT/US2016/061332)  
[87] (WO2017/083517)  
[30] US (62/253,534) 2015-11-10

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[21] **3,004,140**  
[13] A1

[51] **Int.Cl. A23C 9/15 (2006.01) A23C 1/00 (2006.01) A23C 1/16 (2006.01) A23C 9/142 (2006.01) A23C 9/152 (2006.01) A23C 9/156 (2006.01) A23C 13/12 (2006.01) A23C 13/14 (2006.01)**  
[25] EN  
[54] **CONCENTRATE FOR MILKY BEVERAGES, BEVERAGE CAPSULE AND METHOD OF MAKING BEVERAGE WITH CAPSULE**  
[54] **CONCENTRE POUR BOISSONS LAITIERES, CAPSULE DE BOISSON, ET PROCEDE DE FABRICATION DE BOISSON AVEC CAPSULE**  
[72] DEMMER, THOMAS, DE  
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/EP2016/076494)  
[87] (WO2017/076940)  
[30] GB (1519642.1) 2015-11-06

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[21] **3,004,141**  
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01)**  
[25] EN  
[54] **COOLING SYSTEMS FOR DEVICES ARRANGED IN ROWS**  
[54] **SYSTEMES DE REFROIDISSEMENT POUR DISPOSITIFS AGENCES EN RANGEES**  
[72] HEIM, FRANK, US  
[72] GEBKE, KEVIN J., US  
[72] WHITE, MICAELA, US  
[72] KAUFMANN, NICHOLAS L., US  
[71] RITE-HITE HOLDING CORPORATION, US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059843)  
[87] (WO2017/079122)  
[30] US (14/932,676) 2015-11-04

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[21] **3,004,142**  
[13] A1

[51] **Int.Cl. H04W 24/02 (2009.01)**  
[25] EN  
[54] **WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION METHOD**  
[54] **DISPOSITIF DE COMMUNICATION SANS FIL ET PROCEDE DE COMMUNICATION SANS FIL**  
[72] XU, JIN, CN  
[72] LIU, SIQI, CN  
[72] GAO, CHENG, CN  
[72] JIN, BINGCHENG, CN  
[72] CHEN, JINHUI, CN  
[71] SONY CORPORATION, JP  
[85] 2018-05-03  
[86] 2016-10-31 (PCT/CN2016/103994)  
[87] (WO2017/076250)  
[30] CN (201510753149.1) 2015-11-06



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[21] **3,004,143**  
[13] A1

[51] **Int.Cl. F25B 49/02 (2006.01)**  
[25] EN  
[54] **GAS-REPLENISHING AND ENTHALPY-INCREASING CONTROL METHOD, DEVICE AND APPARATUS FOR TWO-STAGE COMPRESSOR**  
[54] **PROCEDE ET APPAREIL DE COMMANDE D'APPORT D'AIR ET D'AUGMENTATION D'ENTHALPIE POUR COMPRESSEUR A DEUX ETAGES ET EQUIPEMENT ASSOCIE**  
[72] ZHAO, HUAN, CN  
[72] SHEN, JUN, CN  
[72] TAN, FENG, CN  
[72] LIANG, YOUXUAN, CN  
[72] LI, PENGFEI, CN  
[71] GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI, CN  
[85] 2018-05-03  
[86] 2016-05-05 (PCT/CN2016/081171)  
[87] (WO2017/096752)  
[30] CN (201510926140.6) 2015-12-11

[21] **3,004,145**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/19 (2006.01) A61K 38/37 (2006.01) A61K 47/02 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01)**  
[25] EN  
[54] **FVIII FORMULATION**  
[54] **FORMULATION DE FVIII**  
[72] KROGH, THOMAS NYLANDSTED, DK  
[72] JENSEN, MICHAEL BECH, DK  
[72] BAGGER, HEIDI WESTH, DK  
[71] NOVO NORDISK A/S, DK  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/EP2016/076548)  
[87] (WO2017/076967)  
[30] EP (15193099.7) 2015-11-05

[21] **3,004,146**  
[13] A1

[51] **Int.Cl. A61F 2/04 (2013.01)**  
[25] EN  
[54] **ENDOSCOPIC ORGAN MANIPULATION DEVICES AND METHODS**  
[54] **DISPOSITIFS ET PROCEDES DE MANIPULATION D'ORGANE ENDOSCOPIQUE**  
[72] KEACH, DAVID C., US  
[72] MOONEY, NATHAN K., US  
[71] W. L. GORE & ASSOCIATES, INC., US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059846)  
[87] (WO2017/079124)  
[30] US (62/250,081) 2015-11-03  
[30] US (15/338,759) 2016-10-31

[21] **3,004,147**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 31/20 (2006.01)**  
[25] EN  
[54] **CRYSTAL FORM, PREPARATION METHOD AND INTERMEDIATE OF DIHYDROPYRIDO RING COMPOUND**  
[54] **FORME CRISTALLINE, PROCEDE DE PREPARATION ET INTERMEDIAIRE D'UN COMPOSE A CYCLE DIHYDROPYRIDINE**  
[72] HE, HAIYING, CN  
[72] ZHOU, KAI, CN  
[72] LI, XIAOLIN, CN  
[72] WANG, XIAOFEI, CN  
[72] QIN, DAKUN, CN  
[72] WANG, XINGXING, CN  
[72] YANG, FEIFEI, CN  
[72] WANG, ZHENG, CN  
[72] LI, ZONGBIN, CN  
[71] QILU PHARMACEUTICAL CO., LTD., CN  
[85] 2018-05-03  
[86] 2016-11-02 (PCT/CN2016/104325)  
[87] (WO2017/076286)  
[30] CN (201510742546.9) 2015-11-04

[21] **3,004,148**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/00 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **AN NKG2D-IG FUSION PROTEIN FOR CANCER IMMUNOTHERAPY**  
[54] **PROTEINE DE FUSION NKG2D-IG POUR L'IMMUNOTHERAPIE CONTRE LE CANCER**  
[72] DRANOFF, GLENN, US  
[72] SULLIVAN, RYAN, US  
[72] VANNEMAN, MATTHEW, US  
[71] DANA-FARBER CANCER INSTITUTE, INC., US  
[85] 2018-05-02  
[86] 2016-11-11 (PCT/US2016/061479)  
[87] (WO2017/083612)  
[30] US (62/255,016) 2015-11-13

[21] **3,004,149**  
[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01) E21B 21/08 (2006.01) E21B 34/14 (2006.01)**  
[25] EN  
[54] **DOWNHOLE TOOL HAVING AN AXIAL PASSAGE AND A LATERAL FLUID PASSAGE BEING OPENED / CLOSED**  
[54] **OUTIL DE FOND COMPORTANT UN PASSAGE AXIAL ET UN PASSAGE DE FLUIDE LATERAL ETANT OUVERT/FERME**  
[72] BEVERIDGE, WILLIAM ALEXANDER, GB  
[71] ZENITH OILFIELD TECHNOLOGY LIMITED, GB  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/EP2016/076609)  
[87] (WO2017/077003)  
[30] GB (1519580.3) 2015-11-05

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[21] **3,004,150**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **SINGLE CELL GENOMIC PROFILING OF CIRCULATING TUMOR CELLS (CTCS) IN METASTATIC DISEASE TO CHARACTERIZE DISEASE HETEROGENEITY**

[54] **PROFILAGE GENOMIQUE MONOCELLULAIRE DE CELLULES TUMORALES CIRCULANTES (CTC) DANS UNE MALADIE METASTATIQUE PERMETTANT DE CARACTERISER L'HETEROGENEITE DE LA MALADIE**

[72] DITTAMORE, RYAN, US  
[72] MARRINUCCI, DENA, US  
[71] EPIC SCIENCES, INC., US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059877)  
[87] (WO2017/079139)  
[30] US (62/250,422) 2015-11-03

[21] **3,004,151**  
[13] A1

[51] **Int.Cl. C08B 30/12 (2006.01) C08B 31/04 (2006.01) C08B 31/18 (2006.01)**

[25] EN

[54] **STABILIZED STARCH**

[54] **AMIDON STABILISE**

[72] FONTEYN, DIRK, BE  
[71] CARGILL, INCORPORATED, US  
[85] 2018-05-02  
[86] 2016-11-16 (PCT/US2016/062235)  
[87] (WO2017/091409)  
[30] EP (15196552.2) 2015-11-26

[21] **3,004,152**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/198 (2006.01) A61K 31/4439 (2006.01) A61K 31/573 (2006.01) A61K 31/69 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **SUBCUTANEOUS FORMULATIONS OF ANTI-CD38 ANTIBODIES AND THEIR USES**

[54] **FORMULATIONS SOUS-CUTANEE D'ANTICORPS ANTI-CD38 ET LEURS UTILISATIONS**

[72] JANSSON, RICHARD, US  
[72] KUMAR, VINEET, US  
[71] JANSSEN BIOTECH, INC., US  
[85] 2018-05-02  
[86] 2016-11-01 (PCT/US2016/059893)  
[87] (WO2017/079150)  
[30] US (62/250,016) 2015-11-03

[21] **3,004,153**  
[13] A1

[51] **Int.Cl. A61K 36/736 (2006.01) A23L 33/105 (2016.01) A61P 1/16 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **PROPHYLACTIC AND/OR THERAPEUTIC AGENT FOR NAFLD/NASH**

[54] **AGENT PROPHYLACTIQUE ET/OU THERAPEUTIQUE POUR NAFLD/NASH**

[72] HIRAISHI, KATSUYA, JP  
[72] JIMMA, FUMIE, JP  
[72] SOMA, HIROYUKI, JP  
[72] ADACHI, TARO, JP  
[72] ADACHI, MASAKAZU, JP  
[72] YAMAOKA, IPPEI, JP  
[72] KAGAWA, TOMOHIRO, JP  
[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP  
[71] ADABIO CO.,LTD., JP  
[85] 2018-05-02  
[86] 2016-11-25 (PCT/JP2016/004963)  
[87] (WO2017/090253)  
[30] JP (2015-232053) 2015-11-27

[21] **3,004,154**  
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/32 (2006.01) C08G 18/42 (2006.01) C08G 18/44 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **HIGH MODULUS THERMOPLASTIC POLYURETHANE**

[54] **POLYURETHANE THERMOPLASTIQUE A HAUT MODULE**

[72] LU, QIWEI, US  
[72] FARKAS, JULIUS, US  
[72] MAKADIA, CHETAN M., US  
[72] JING, ALEXANDER JIAOKAI, US  
[71] LUBRIZOL ADVANCED MATERIALS, INC., US  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/US2016/059976)  
[87] (WO2017/079188)  
[30] US (62/251,727) 2015-11-06

[21] **3,004,155**  
[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 29/281 (2016.01) A23D 7/00 (2006.01) A23D 7/02 (2006.01) A23D 7/05 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING FAT CONTINUOUS EMULSIONS CONTAINING PROTEIN**

[54] **PROCEDE DE PREPARATION D'EMULSIONS CONTINUES DE MATIERE GRASSE CONTENANT DES PROTEINES**

[72] LAGERWAARD, CORNELIS ABRAHAM, NL  
[72] DE MAN, TEUNIS, NL  
[72] MEEUSE, FREDERIK MICHIEL, NL  
[71] UNILEVER BCS LIMITED, GB  
[85] 2018-05-03  
[86] 2016-11-08 (PCT/EP2016/076915)  
[87] (WO2017/084908)  
[30] EP (15195609.1) 2015-11-20

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[21] **3,004,156**  
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) B01J 29/40 (2006.01)**  
[25] EN  
[54] **SYSTEM AND PROCESS FOR PRODUCING GASOLINE FROM OXYGENATES**  
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'ESSENCE A PARTIR D'OXYGENATS**  
[72] HARANDI, MOHSEN N., US  
[72] MCCARTHY, STEPHEN JOHN, US  
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/US2016/060052)  
[87] (WO2017/087174)  
[30] US (62/256,810) 2015-11-18

[21] **3,004,157**  
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/00 (2006.01)**  
[25] EN  
[54] **ASSESSMENT OF FLOW NETWORKS**  
[54] **EVALUATION DE RESEAUX D'ECOULEMENT**  
[72] GUNNERUD, VIDAR, NO  
[72] SANDNES, ANDERS, NO  
[72] UGLANE, VIDAR THUNE, NO  
[72] URSIN-HOLM, STINE, NO  
[71] SOLUTION SEEKER AS, NO  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/EP2016/076757)  
[87] (WO2017/077095)  
[30] GB (1519637.1) 2015-11-06

[21] **3,004,158**  
[13] A1

[51] **Int.Cl. C08F 283/12 (2006.01) G02B 1/04 (2006.01) G02C 7/04 (2006.01)**  
[25] EN  
[54] **AMPHIPHILIC BRANCHED POLYDIORGANOSILOXANE MACROMERS**  
[54] **MACROMERES DE POLYDIORGANOSILOXANE RAMIFIES AMPHIPHILES**  
[72] CHANG, FRANK, US  
[72] HUANG, JINYU, US  
[72] HOLLAND, TROY VERNON, US  
[71] NOVARTIS AG, CH  
[85] 2018-05-02  
[86] 2016-12-13 (PCT/IB2016/057586)  
[87] (WO2017/103792)  
[30] US (62/267,314) 2015-12-15

[21] **3,004,160**  
[13] A1

[51] **Int.Cl. A61K 31/4152 (2006.01) A61K 31/167 (2006.01) A61K 31/245 (2006.01)**  
[25] EN  
[54] **METHOD OF TREATING DISEASE BY AURICULAR ANESTHESIA OF CRANIAL NERVES**  
[54] **PROCEDE DE TRAITEMENT D'UNE MALADIE PAR ANESTHESIE AURICULAIRE DES NERFS CRANIENS**  
[72] CREWS, THOMAS M., US  
[71] CREWS, THOMAS M., US  
[85] 2018-05-02  
[86] 2016-11-02 (PCT/US2016/060085)  
[87] (WO2017/079270)  
[30] US (14/931,581) 2015-11-03

[21] **3,004,161**  
[13] A1

[51] **Int.Cl. B29D 99/00 (2010.01) B29C 70/22 (2006.01) B29C 70/48 (2006.01) F01D 5/28 (2006.01)**  
[25] FR  
[54] **METHOD FOR MANUFACTURING A COMPONENT MADE OF COMPOSITE MATERIAL COMPRISING A BODY INTEGRAL WITH ONE OR MORE PLATFORMS**  
[54] **PROCEDE DE FABRICATION D'UNE PIECE EN MATERIAU COMPOSITE COMPRENANT UN CORPS SOLIDAIRE D'UNE OU PLUSIEURS PLATES-FORMES**  
[72] LANFANT, NICOLAS PIERRE, FR  
[72] PAUTARD, SEBASTIEN, FR  
[71] SAFRAN, FR  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/FR2016/052848)  
[87] (WO2017/077240)  
[30] FR (1560649) 2015-11-06

[21] **3,004,162**  
[13] A1

[51] **Int.Cl. F16C 7/02 (2006.01) F16C 9/04 (2006.01)**  
[25] EN  
[54] **CONNECTING ROD**  
[54] **BIELLE**  
[72] BUSSIERES, FREDERIC, AT  
[71] GE JENBACHER GMBH & CO OG, AT  
[85] 2018-05-03  
[86] 2016-11-07 (PCT/EP2016/076816)  
[87] (WO2017/077108)  
[30] AT (A50950/2015) 2015-11-06

[21] **3,004,164**  
[13] A1

[51] **Int.Cl. C10L 3/00 (2006.01) B01J 8/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND APPARATUS FOR PROCESSING MATERIAL TO GENERATE SYNGAS IN A MODULAR ARCHITECTURE**  
[54] **SYSTEME ET APPAREIL POUR TRAITER UN MATERIAU AFIN DE PRODUIRE UN GAZ DE SYNTHESE DANS UNE ARCHITECTURE MODULAIRE**  
[72] FRASER, GORDON GERALD DONALD, CA  
[72] HOUZE, GRAHAM CAMPBELL, CA  
[72] JENSEN, ROBERT CHRISTIAN (DECEASED), CA  
[71] RESPONSIBLE ENERGY INC., CA  
[85] 2018-05-03  
[86] 2015-11-03 (PCT/CA2015/000564)  
[87] (WO2017/075686)

[21] **3,004,165**  
[13] A1

[51] **Int.Cl. A01H 1/08 (2006.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01)**  
[25] EN  
[54] **NON-TRANSGENIC HAPLOID INDUCER LINES IN CUCURBITS**  
[54] **LIGNES INDUCTRICES D'HAPLOIDES NON TRANSGENIQUES DANS LES CUCURBITACEES**  
[72] VAN DUN, CORNELIS MARIA PETRUS, NL  
[72] LELIVELT, CECILIA LUCIA CLARA, NL  
[72] MOVAHEDI, SARA, NL  
[71] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V., NL  
[85] 2018-05-03  
[86] 2016-11-08 (PCT/EP2016/076985)  
[87] (WO2017/081009)  
[30] NL (2015752) 2015-11-09

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[13] A1

[51] **Int.Cl. A61B 1/04 (2006.01) A61B 90/20 (2016.01) A61B 1/002 (2006.01) A61B 1/045 (2006.01)**

[25] EN

[54] **DUAL ZOOM AND DUAL FIELD-OF-VIEW MICROSCOPE**

[54] **MICROSCOPE A DOUBLE ZOOM ET DOUBLE CHAMP DE VISION**

[72] WOOD, MICHAEL FRANK GUNTER, CA

[72] PIRON, CAMERON ANTHONY, CA

[72] LEE, TAMMY KEE-WAI, CA

[72] ABHARI, KAMYAR, CA

[72] HYNNA, KAI, CA

[71] SYNAPTIVE MEDICAL (BARBADOS) INC., BB

[85] 2018-05-03

[86] 2015-11-03 (PCT/CA2015/051128)

[87] (WO2017/075687)

[21] **3,004,168**  
[13] A1

[51] **Int.Cl. B23P 15/00 (2006.01) B29C 33/38 (2006.01) B29C 33/56 (2006.01) B29C 33/58 (2006.01) B29C 33/70 (2006.01) B29C 33/74 (2006.01) B29C 33/76 (2006.01)**

[25] EN

[54] **PROCESS TO COAT AN INJECTION MOULD**

[54] **PROCEDE POUR REVETIR UN MOULE D'INJECTION**

[72] ZOPPAS, MATTEO, IT

[72] SIGLER, LAURENT, FR

[72] HOANG, MARC, LU

[71] S.I.P.A. SOCIETA INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A., IT

[85] 2018-05-03

[86] 2016-11-07 (PCT/EP2016/076886)

[87] (WO2017/077129)

[30] IT (102015000070022) 2015-11-06

[21] **3,004,169**  
[13] A1

[51] **Int.Cl. A01H 1/08 (2006.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01)**

[25] EN

[54] **NON-TRANSGENIC HAPLOID INDUCER LINES IN CUCURBITS**

[54] **LIGNEES INDUCTRICES D'HAPLOIDES NON TRANSGENIQUES CHEZ LES CUCURBITACEES**

[72] VAN DUN, CORNELIS MARIA PETRUS, NL

[72] LELIVELT, CECILIA LUCIA CLARA, NL

[72] MOVAHEDI, SARA, NL

[71] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V., NL

[85] 2018-05-03

[86] 2016-11-08 (PCT/EP2016/076987)

[87] (WO2017/081011)

[30] NL (2015753) 2015-11-09

[21] **3,004,171**  
[13] A1

[51] **Int.Cl. C12N 5/0789 (2010.01) C12N 5/074 (2010.01)**

[25] EN

[54] **PROCESS OF GENE-EDITING OF CELLS ISOLATED FROM A SUBJECT SUFFERING FROM A METABOLIC DISEASE AFFECTING THE ERYTHROID LINEAGE, CELLS OBTAINED BY SAID PROCESS AND USES THEREOF**

[54] **PROCEDE D'EDITION DE GENE DE CELLULES ISOLEES D'UN SUJET ATTEINT D'UNE MALADIE METABOLIQUE AFFECTANT LA LIGNEE ERYTHROIDE, CELLULES OBTENUES PAR LEDIT PROCEDE ET LEURS UTILISATIONS**

[72] SEGOVIA SANZ, JOSE CARLOS, ES

[72] QUINTANA BUSTAMANTE, OSCAR, ES

[72] GARATE MUTILOA, ZITA MAITE, ES

[72] BUEREN RONCERO, JUAN ANTONIO, ES

[72] DAVIS, BRIAN R., US

[72] GALETTO, ROMAN, US

[72] GOUBLE, AGNES, US

[72] POIROT, LAURENT, US

[71] FUNDACION INSTITUTO DE INVESTIGACION SANITARIA FUNDACION JIMENEZ DIAZ, ES

[71] CENTRO DE INVESTIGACION BIOMEDICA EN RED, ES

[71] CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS, ES

[71] CELLECTIS, FR

[85] 2018-05-03

[86] 2016-11-07 (PCT/EP2016/076893)

[87] (WO2017/077135)

[30] EP (15382545.0) 2015-11-05

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[21] **3,004,172**  
[13] A1

[51] **Int.Cl. H01Q 1/36 (2006.01) H01Q 5/357 (2015.01) H01Q 11/08 (2006.01) H04R 1/04 (2006.01)**

[25] EN

[54] **HELICAL ANTENNA FOR WIRELESS MICROPHONE AND METHOD FOR THE SAME**

[54] **ANTENNE HELICOIDALE POUR MICROPHONE SANS FIL, ET PROCEDE ASSOCIE**

[72] ZACHARA, CHRISTOPHER, US

[72] CELEBI, ADEM, US

[72] BACHMAN, GREGORY W., US

[71] SHURE ACQUISITION HOLDINGS, INC., US

[85] 2018-05-02

[86] 2016-11-16 (PCT/US2016/062286)

[87] (WO2017/087526)

[30] US (14/947,933) 2015-11-20

[21] **3,004,173**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **7-(THIAZOL-5-YL) PYRROLOPYRIMIDINE COMPOUND AS TLR7 AGONIST**

[54] **UTILISATION DU COMPOSE 7-(THIAZOL-5-YL)PYRROLOPYRIMIDINE COMME AGONISTE DE TLR7**

[72] DING, ZHAOZHONG, CN

[72] SUN, FEI, CN

[72] WU, LIFANG, CN

[72] WU, HAO, CN

[72] CHEN, SHUHUI, CN

[72] YANG, LING, CN

[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2018-05-03

[86] 2016-11-04 (PCT/CN2016/104644)

[87] (WO2017/076346)

[30] CN (201510744651.6) 2015-11-05

[21] **3,004,175**  
[13] A1

[51] **Int.Cl. G06F 15/177 (2006.01)**

[25] EN

[54] **SERVICE ACTIVATION SYSTEM**

[54] **SYSTEME D'ACTIVATION DE SERVICE**

[72] ADKINS, JAMES M., III, US

[72] TYSTAD, CRAIG, US

[72] DWYER, JAMES C., US

[71] LEVEL 3 COMMUNICATIONS, LLC, US

[85] 2018-05-02

[86] 2016-11-18 (PCT/US2016/062812)

[87] (WO2017/087822)

[30] US (62/256,932) 2015-11-18

[21] **3,004,176**  
[13] A1

[51] **Int.Cl. C12P 7/44 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **GENETICALLY MODIFIED YEASTS AND FERMENTATION PROCESSES USING GENETICALLY MODIFIED YEASTS**

[54] **LEVURES GENETIQUEMENT MODIFIEES ET PROCEDES DE FERMENTATION UTILISANT DES LEVURES GENETIQUEMENT MODIFIEES**

[72] JAUERT, PETER ALAN, US

[72] RUSH, BRIAN, US

[72] FOSMER, ARLENE M, US

[72] POYNTER, GREGORY M., US

[71] CARGILL, INCORPORATED, US

[85] 2018-05-02

[86] 2016-11-22 (PCT/US2016/063401)

[87] (WO2017/091610)

[30] US (62/259,531) 2015-11-24

[21] **3,004,177**  
[13] A1

[51] **Int.Cl. C12P 7/06 (2006.01) C12N 15/81 (2006.01)**

[25] EN

[54] **GENETICALLY MODIFIED YEASTS AND FERMENTATION PROCESSES USING GENETICALLY MODIFIED YEASTS**

[54] **LEVURES GENETIQUEMENT MODIFIEES ET PROCEDES DE FERMENTATION UTILISANT DES LEVURES GENETIQUEMENT MODIFIEES**

[72] JAUERT, PETER ALAN, US

[72] LU, CHENFENG, US

[72] POYNTER, GREGORY M., US

[72] RUSH, BRIAN, US

[71] CARGILL, INCORPORATED, US

[85] 2018-05-02

[86] 2016-11-22 (PCT/US2016/063406)

[87] (WO2017/091614)

[30] US (62/259,531) 2015-11-24

[21] **3,004,178**  
[13] A1

[51] **Int.Cl. C08G 12/26 (2006.01) C08G 12/42 (2006.01) C09D 133/14 (2006.01) C09D 161/32 (2006.01)**

[25] EN

[54] **FORMALDEHYDE FREE CROSSLINKING COMPOSITIONS**

[54] **COMPOSITIONS DE RETICULATION EXEMPTES DE FORMALDEHYDE**

[72] TREASURER, URVEE Y., US

[72] WILDE, ZACHARY, US

[72] FLOOD, LAWRENCE, US

[72] QUINN, SARAH, US

[72] BROGAN, COLIN, US

[72] GUPTA, RAM, US

[71] ALLNEX NETHERLANDS B.V., NL

[85] 2018-05-03

[86] 2016-12-23 (PCT/EP2016/082521)

[87] (WO2017/114771)

[30] US (14/984,155) 2015-12-30

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[21] **3,004,179**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/28 (2012.01) G06F 21/62 (2013.01) A47G 29/14 (2006.01) B64C 39/02 (2006.01) G07F 17/12 (2006.01)**

[25] EN

[54] **UNMANNED AERIAL DELIVERY TO SECURE LOCATION**

[54] **LIVRAISON AERIENNE SANS PILOTE A UN EMPLACEMENT SECURISE**

[72] NATARAJAN, CHANDRASHEKAR, US

[72] HIGH, DONALD R., US

[72] O'BRIEN, JOHN J. V., US

[71] WALMART APOLLO, LLC, US

[85] 2018-05-02

[86] 2016-11-23 (PCT/US2016/063520)

[87] (WO2017/091685)

[30] US (62/260,086) 2015-11-25

[21] **3,004,180**  
[13] A1

[51] **Int.Cl. G03G 15/08 (2006.01) G03G 21/16 (2006.01) H01R 13/629 (2006.01)**

[25] EN

[54] **REPLACEABLE UNIT FOR AN ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE HAVING A RETRACTABLE ELECTRICAL CONNECTOR**

[54] **UNITE REMPLACABLE POUR UN DISPOSITIF DE FORMATION D'IMAGES ELECTROPHOTOGRAPHIQUES DOTE D'UN CONNECTEUR ELECTRIQUE RETRACTABLE**

[72] CARPENTER, BRIAN SCOTT, US

[72] MARTIN, KYLE BRADLEY, US

[72] WILLIAMSON, RANDAL SCOTT, US

[71] LEXMARK INTERNATIONAL, INC., US

[85] 2018-05-02

[86] 2016-11-30 (PCT/US2016/064063)

[87] (WO2017/105830)

[30] US (14/967,552) 2015-12-14

[21] **3,004,181**  
[13] A1

[51] **Int.Cl. C08F 2/06 (2006.01) C08F 6/00 (2006.01) C08F 6/12 (2006.01) C08J 11/02 (2006.01)**

[25] EN

[54] **A PROCESS FOR RECOVERING HYDROCARBONS IN A SOLUTION POLYMERISATION PROCESS**

[54] **PROCEDE DE RECUPERATION D'HYDROCARBURES DANS UN PROCESSUS DE POLYMERISATION EN SOLUTION**

[72] AL-HAJ ALI, MOHAMMAD, FI

[72] ERIKSSON, ERIK, SE

[72] MATHIVANAN, GUHAN, AT

[72] SLEIJSTER, HENRY, NL

[72] VIJAY, SAMEER, AT

[72] WURNITSCH, CHRISTOF, AT

[72] ZITTING, SAMULI, FI

[71] BOREALIS AG, AT

[85] 2018-05-03

[86] 2016-12-21 (PCT/EP2016/082199)

[87] (WO2017/108963)

[30] EP (15201462.7) 2015-12-21

[30] EP (16179643.8) 2016-07-15

[21] **3,004,182**  
[13] A1

[51] **Int.Cl. B65D 81/34 (2006.01) B65D 1/40 (2006.01) H05B 6/64 (2006.01)**

[25] EN

[54] **MICROWAVE PACKAGE**

[54] **EMBALLAGE POUR FOUR A MICRO-ONDES**

[72] RESURRECCION, FERMIN P. JR., US

[72] MARTINEZ, VLADIMIR C., US

[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2018-04-17

[86] 2016-12-02 (PCT/US2016/064530)

[87] (WO2017/096108)

[30] US (62/262,534) 2015-12-03

[21] **3,004,183**  
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/4365 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **SUBSTANCE THAT INHIBITS P2Y12 RECEPTOR, FOR USE IN THE PREVENTIVE TREATMENT OF SYSTEMIC SCLEROSIS IN PATIENTS WITH RAYNAUD'S PHENOMENON AND A DYSIMMUNITY**

[54] **SUBSTANCE QUI INHIBE LE RECEPTEUR P2Y12, DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT PREVENTIF DE LA SCLEROSE SYSTEMIQUE CHEZ DES PATIENTS SOUFFRANT DU PHENOMENE DE RAYNAUD ET D'UNE DYSIMMUNITE**

[72] TRUCHETET, MARIE-ELISE, FR

[72] CONTIN-BORDES, CECILE, FR

[72] BLANCO, PATRICK, FR

[72] SCHAEVERBEKE, THIERRY, FR

[72] BARNETCHE, THOMAS, FR

[71] UNIVERSITE DE BORDEAUX, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -, FR

[71] CENTRE HOSPITALIER UNIVERSITAIRE DE BORDEAUX, FR

[85] 2018-05-03

[86] 2017-01-19 (PCT/EP2017/051100)

[87] (WO2017/125502)

[30] EP (16152005.1) 2016-01-20

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[21] **3,004,184**  
[13] A1

[51] **Int.Cl. F03D 7/04 (2006.01) F03D 17/00 (2016.01) F03D 80/10 (2016.01) F03D 80/40 (2016.01)**

[25] EN

[54] **METHOD FOR OUTPUTTING CONTROL INSTRUCTIONS OR EVENT MESSAGES FOR A WIND ENERGY INSTALLATION OR A WIND FARM, AND AN EVALUATION DEVICE AND A SYSTEM THEREFOR**

[54] **PROCEDE D'EMISSION D'INSTRUCTIONS DE COMMANDE OU DE NOTIFICATIONS D'EVENEMENT POUR UNE EOLIENNE OU UN PARC EOLIEN AINSI QUE DISPOSITIF D'EVALUATION ET SYSTEME ASSOCIES**

[72] DEMUTH, SIMON, DE  
[71] WOBLEN PROPERTIES GMBH, DE  
[85] 2018-05-03  
[86] 2016-11-09 (PCT/EP2016/077035)  
[87] (WO2017/089129)  
[30] DE (10 2015 120 306.5) 2015-11-24

[21] **3,004,185**  
[13] A1

[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/119 (2014.01) H04N 19/147 (2014.01) H04N 19/176 (2014.01) H04N 19/593 (2014.01)**

[25] EN

[54] **MULTI-REGION SEARCH RANGE FOR BLOCK PREDICTION MODE FOR DISPLAY STREAM COMPRESSION (DSC)**

[54] **PLAGE DE RECHERCHE MULTI-REGION POUR UN MODE DE PREDICTION DE BLOC POUR UNE COMPRESSION DE FLUX D'AFFICHAGE (DSC)**

[72] JACOBSON, NATAN HAIM, US  
[72] THIRUMALAI, VIJAYARAGHAVAN, US  
[72] JOSHI, RAJAN LAXMAN, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-02  
[86] 2016-12-06 (PCT/US2016/065186)  
[87] (WO2017/100206)  
[30] US (62/264,087) 2015-12-07  
[30] US (62/304,879) 2016-03-07  
[30] US (15/369,723) 2016-12-05

[21] **3,004,186**  
[13] A1

[51] **Int.Cl. B01D 53/04 (2006.01)**

[25] EN

[54] **A TEMPERATURE-SWING ADSORPTION PROCESS**

[54] **PROCEDE D'ADSORPTION MODULEE EN TEMPERATURE**

[72] JOSS, LISA, GB  
[72] GAZZANI, MATTEO, CH  
[72] MAZZOTTI, MARCO, CH  
[71] CASALE SA, CH  
[85] 2018-05-03  
[86] 2017-03-07 (PCT/EP2017/055285)  
[87] (WO2017/153385)  
[30] EP (16159248.0) 2016-03-08  
[30] EP (16171370.6) 2016-05-25

[21] **3,004,187**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01)**

[25] EN

[54] **WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION METHOD**

[54] **DISPOSITIF DE COMMUNICATION SANS FIL ET PROCEDE DE COMMUNICATION SANS FIL**

[72] HOU, YANZHAO, CN  
[72] CUI, QIMEI, CN  
[72] ZHANG, SHIYU, CN  
[72] CAO, SHIWEI, CN  
[72] LIANG, HUI, CN  
[72] JIANG, QINYAN, CN  
[72] GUO, XIN, CN  
[72] SUN, CHEN, CN  
[71] SONY CORPORATION, JP  
[85] 2018-05-02  
[86] 2016-10-31 (PCT/CN2016/103995)  
[87] (WO2017/076251)  
[30] CN (201510746905.8) 2015-11-05

[21] **3,004,188**  
[13] A1

[51] **Int.Cl. C08J 9/00 (2006.01) C08J 9/14 (2006.01)**

[25] EN

[54] **PRODUCTION OF FINE-CELL FOAMS WITH USE OF A CELL-AGEING INHIBITOR**

[54] **FABRICATION DE MOUSSES A CELLULES FINES PAR L'UTILISATION D'UN BLOQUEUR DU VIEILLISSEMENT DES CELLULES**

[72] KLOSTERMANN, MICHAEL, DE  
[72] SCHILLER, CARSTEN, DE  
[72] VENZMER, JOACHIM, DE  
[72] EILBRACHT, CHRISTIAN, DE  
[71] EVONIK DEGUSSA GMBH, DE  
[85] 2018-05-03  
[86] 2016-11-21 (PCT/EP2016/078239)  
[87] (WO2017/093058)  
[30] EP (15197177.7) 2015-12-01

[21] **3,004,189**  
[13] A1

[51] **Int.Cl. G06F 21/57 (2013.01) G06F 9/455 (2018.01)**

[25] EN

[54] **CHAINED SECURITY SYSTEMS**

[54] **SYSTEMES DE SECURITE CHAINES**

[72] CAMPAGNA, MATTHEW JOHN, US  
[72] RUBIN, GREGORY ALAN, US  
[72] BRANDWINE, ERIC JASON, US  
[72] WILSON, MATTHEW SHAWN, US  
[72] ILAC, CRISTIAN M, US  
[71] AMAZON TECHNOLOGIES, INC., US  
[85] 2018-05-02  
[86] 2016-12-07 (PCT/US2016/065351)  
[87] (WO2017/100303)  
[30] US (14/960,553) 2015-12-07

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[21] **3,004,190**  
[13] A1

[51] **Int.Cl. F03B 13/10 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR GENERATING ELECTRICITY USING WATER MOVEMENT**  
[54] **APPAREIL DE GENERATION D'ELECTRICITE UTILISANT UN MOUVEMENT D'EAU**  
[72] BAXLEY, WILLIAM EDWARD, US  
[72] MULVEY, PATRICK JAMES, US  
[72] HEAFITZ, BRUCE, US  
[71] OCEAN CURRENT ENERGY LLC, GB  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/GB2016/000195)  
[87] (WO2017/077263)  
[30] GB (1519534.0) 2015-11-04

[21] **3,004,191**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/445 (2006.01)**  
[25] EN  
[54] **TRANSDERMAL PATCHES**  
[54] **TIMBRES TRANSDERMIQUES**  
[72] WING SING TSANG, RICKY, GB  
[72] BROWN, MARC BARRY, GB  
[72] EVANS, CHARLES RODNEY GREENAWAY, GB  
[71] BUZZZ PHARMACEUTICALS LIMITED, IE  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/EP2016/078479)  
[87] (WO2017/089361)  
[30] GB (1520647.7) 2015-11-23

[21] **3,004,192**  
[13] A1

[51] **Int.Cl. A61L 27/38 (2006.01) A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 35/39 (2015.01) A61K 47/38 (2006.01) A61P 3/10 (2006.01)**  
[25] EN  
[54] **SI-HPMC-ENCAPSULATED INSULIN-PRODUCING CELLS FOR THE TREATMENT OF TYPE 1 DIABETES**  
[54] **CELLULES PRODUISANT DE L'INSULINE ENCAPSULEES DANS DE L'HYDROXYPROPYL METHYLCELLULOSE SILANISEE HPMC SI POUR LE TRAITEMENT DU DIABETE DE TYPE 1**  
[72] BACH, JEAN-MARIE, FR  
[72] MOSSER, MATHILDE, FR  
[72] SALAMA, APOLLINE, FR  
[72] MOURE, ANNE, FR  
[72] LEVEQUE, XAVIER, FR  
[72] WEISS, PIERRE, FR  
[72] GUICHEUX, JEROME, FR  
[72] BOYER, CECILE, FR  
[72] RIOCHET, DAVID, FR  
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[71] ECOLE NATIONALE VETERINAIRE, FR  
[71] CHU NANTES, FR  
[71] UNIVERSITE DE NANTES, FR  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/EP2016/077193)  
[87] (WO2017/081112)  
[30] EP (15193861.0) 2015-11-10

[21] **3,004,193**  
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) B01J 47/024 (2017.01) B01D 15/14 (2006.01) B01D 24/40 (2006.01) B01J 20/04 (2006.01) B01J 20/20 (2006.01) B01J 20/28 (2006.01) B01J 39/12 (2006.01) B01J 41/10 (2006.01)**  
[25] EN  
[54] **CARTRIDGE SYSTEMS USEFUL IN CLEANING DIALYSIS SOLUTIONS**  
[54] **SYSTEMES DE CARTOUCHE UTILES POUR LE NETTOYAGE DE SOLUTIONS DE DIALYSE**  
[72] SLADE, CHARLES J., US  
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US  
[85] 2018-05-02  
[86] 2016-12-14 (PCT/US2016/066492)  
[87] (WO2017/116700)  
[30] US (14/983,942) 2015-12-30

[21] **3,004,194**  
[13] A1

[51] **Int.Cl. A23N 1/02 (2006.01) A47J 19/02 (2006.01)**  
[25] EN  
[54] **A DEVICE FOR EXTRACTING JUICE FROM FRUIT AND/OR VEGETABLE ITEMS**  
[54] **DISPOSITIF D'EXTRACTION DE JUS DE FRUITS ET/OU DE LEGUMES**  
[72] VAN VELZEN, TOM, NL  
[71] THOMPE B.V., NL  
[85] 2018-05-03  
[86] 2016-11-23 (PCT/EP2016/078502)  
[87] (WO2017/089367)  
[30] NL (2015851) 2015-11-25

[21] **3,004,195**  
[13] A1

[51] **Int.Cl. C10L 1/222 (2006.01) B01F 17/00 (2006.01) C08L 95/00 (2006.01) C10L 1/32 (2006.01) G01N 33/18 (2006.01) G01N 33/28 (2006.01)**  
[25] EN  
[54] **OIL-IN-WATER EMULSIONS**  
[54] **EMULSIONS D'HUILE DANS L'EAU**  
[72] CRAIGE, SIMON, DK  
[72] MILES, JASON VICTOR, GB  
[72] SELSE, DENNIS, SE  
[72] KRIGSMAN, JOAKIM, SE  
[71] QUADRIS INTERNATIONAL LTD, GB  
[71] AKZO NOBEL CHEMICALS INTERNATIONAL B.V., NL  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/GB2016/053413)  
[87] (WO2017/077302)  
[30] GB (1519615.7) 2015-11-06  
[30] GB (1609042.5) 2016-05-23



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[21] **3,004,196**  
[13] A1

[51] **Int.Cl. F02M 27/04 (2006.01) F02M 31/125 (2006.01) F02M 31/16 (2006.01) F02M 53/02 (2006.01)**

[25] EN

[54] **A METHOD AND APPARATUS FOR OXIDIZING ORGANIC FATS WITHIN AN INTERNAL COMBUSTION ENGINE**

[54] **PROCEDE ET APPAREIL POUR OXYDER DES GRAISSES ORGANIQUES A L'INTERIEUR D'UN MOTEUR A COMBUSTION INTERNE**

[72] PALMER, BRUCE, GB

[71] IONIZINGENERGY LIMITED, EC

[85] 2018-05-03

[86] 2016-10-27 (PCT/GB2016/053336)

[87] (WO2017/077272)

[30] GB (1519613.2) 2015-11-06

[30] GB (1605928.9) 2016-04-07

[21] **3,004,197**  
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01) A61B 34/37 (2016.01)**

[25] EN

[54] **SURGICAL APPARATUS**

[54] **APPAREIL CHIRURGICAL**

[72] KIM, DANIEL H., US

[72] SHIN, DONG SUK, US

[72] JANG, TAEHO, US

[72] PARK, YONG MAN, US

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

[85] 2018-05-02

[86] 2017-02-03 (PCT/US2017/016485)

[87] (WO2017/136710)

[30] US (62/292,057) 2016-02-05

[30] US (62/424,273) 2016-11-18

[21] **3,004,198**  
[13] A1

[51] **Int.Cl. C02F 1/461 (2006.01) C02F 1/463 (2006.01)**

[25] EN

[54] **WASTE WATER TREATMENT**

[54] **TRAITEMENT DES EAUX USEES**

[72] THOMAS, ROBERT CHARLES LLEWELYN, GB

[71] THOMAS, ROBERT CHARLES LLEWELYN, GB

[85] 2018-05-03

[86] 2016-11-03 (PCT/GB2016/053422)

[87] (WO2017/077311)

[30] GB (1515194.5) 2015-11-04

[21] **3,004,199**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **IMMUNOASSAY FOR THE DETERMINATION OF FC-REGION MODIFIED ANTIBODIES**

[54] **IMMUNO-ESSAI POUR LA DETERMINATION D'ANTICORPS MODIFIES DE LA REGION FC**

[72] STUBENRAUCH, KAY-GUNNAR, DE

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2018-05-03

[86] 2016-11-29 (PCT/EP2016/079086)

[87] (WO2017/093226)

[30] EP (15197058.9) 2015-11-30

[21] **3,004,200**  
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01) B01D 39/08 (2006.01) B01D 39/18 (2006.01)**

[25] EN

[54] **FILTER MATERIAL AND FILTER ELEMENT PRODUCED THEREFROM**

[54] **MATERIAU FILTRANT ET ELEMENT FILTRANT REALISE A PARTIR DE CELUI-CI**

[72] DEMMEL, ANDREAS, DE

[72] HARINGER, CHRISTOPH, DE

[72] HORL, WERNER, DE

[71] NEENAH GESSNER GMBH, DE

[85] 2018-05-03

[86] 2016-12-08 (PCT/EP2016/080304)

[87] (WO2017/108436)

[30] DE (10 2015 122 746.0) 2015-12-23

[21] **3,004,201**  
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61L 29/14 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **STEERABLE INTRA-LUMINAL MEDICAL DEVICE**

[54] **DISPOSITIF MEDICAL INTRALUMINAL ORIENTABLE**

[72] KIM, DANIEL H., US

[72] SHIN, DONG SUK, US

[72] PALMRE, VILJAR, US

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

[85] 2018-05-02

[86] 2017-02-03 (PCT/US2017/016513)

[87] (WO2017/136729)

[30] US (62/292,064) 2016-02-05

[21] **3,004,202**  
[13] A1

[51] **Int.Cl. B23K 35/02 (2006.01) B23K 26/364 (2014.01) B23K 35/30 (2006.01) B23K 35/40 (2006.01) C23C 28/04 (2006.01)**

[25] EN

[54] **PREPARATION OF COMPOSITE RODS**

[54] **PREPARATION DE TIGES COMPOSITES**

[72] RUSSELL, MARK, GB

[71] CUTTING & WEAR RESISTANT DEVELOPMENTS LIMITED, GB

[85] 2018-05-03

[86] 2016-11-09 (PCT/GB2016/053502)

[87] (WO2017/081460)

[30] GB (1519765.0) 2015-11-09

[21] **3,004,203**  
[13] A1

[51] **Int.Cl. A23G 3/32 (2006.01) A23L 5/42 (2016.01) A23L 35/00 (2016.01) A23L 2/58 (2006.01)**

[25] EN

[54] **CARAMEL DERIVED COLOR WITH INCREASED BRIGHTNESS**

[54] **COULEUR DERIVEE DU CARAMEL PRESENTANT UNE BRILLANCE AUGMENTEE**

[72] CHANFORAN, CELINE, FR

[72] MANE, CARINE, FR

[72] JOUENNE, ERIC, FR

[71] CHR. HANSEN NATURAL COLORS A/S, DK

[85] 2018-05-03

[86] 2016-11-10 (PCT/EP2016/077219)

[87] (WO2017/081129)

[30] EP (15193817.2) 2015-11-10

[30] EP (16190713.4) 2016-09-27

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[21] **3,004,204**  
[13] A1

[51] **Int.Cl. C10C 3/18 (2006.01) C10C 3/00 (2006.01)**  
[25] EN  
[54] **REACTOR AND METHOD FOR UPGRADING HEAVY HYDROCARBONS WITH SUPERCRITICAL FLUIDS**  
[54] **REACTEUR ET PROCEDE DE VALORISATION D'HYDROCARBURES LOURDS AVEC DES LIQUIDES SUPERCRITIQUES**  
[72] SNOW, RICHARD H., US  
[72] MOHRBACHER, JESSE, US  
[72] PRESLEY, GEOFFREY, US  
[71] PYROPHASE, INC., US  
[85] 2018-05-02  
[86] 2017-02-23 (PCT/US2017/019210)  
[87] (WO2017/147344)  
[30] US (62/389,318) 2016-02-23  
[30] US (15/438,384) 2017-02-21

[21] **3,004,206**  
[13] A1

[51] **Int.Cl. G01B 5/20 (2006.01) G01B 5/24 (2006.01)**  
[25] EN  
[54] **TACTILE RUNOUT MEASUREMENT AND LENGTH MEASUREMENT**  
[54] **MESURE DE PLANEITE ET MESURE DE LONGUEUR PAR VOIE TACTILE**  
[72] RATTUNDE, ULRICH, DE  
[71] RATTUNDE & CO GMBH, DE  
[85] 2018-05-03  
[86] 2016-11-14 (PCT/EP2016/077573)  
[87] (WO2017/085013)  
[30] DE (10 2015 120 177.1) 2015-11-20

[21] **3,004,207**  
[13] A1

[51] **Int.Cl. E21B 43/40 (2006.01) C09K 8/584 (2006.01) E21B 43/34 (2006.01)**  
[25] EN  
[54] **FILTRATION AND REUSE OF SURFACTANT-CONTAINING PRODUCED WATER FOR OIL RECOVERY**  
[54] **FILTRATION ET REUTILISATION D'EAU PRODUITE CONTENANT DES TENSIOACTIFS POUR LA RECUPERATION DE PETROLE**  
[72] JOYDEEP, MUKHERJEE, US  
[72] SUPRIYO, DAS, ES  
[72] WANGLIN, YU, US  
[72] ACEVEDO VELEZ, CLARIBEL, US  
[72] ROZOWSKI, PETER M., US  
[72] FALCONE-POTTS, SUSAN K., US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[71] ROHM AND HAAS COMPANY, US  
[85] 2018-05-03  
[86] 2015-11-06 (PCT/IB2015/002232)  
[87] (WO2017/077355)

[21] **3,004,208**  
[13] A1

[51] **Int.Cl. B65G 43/10 (2006.01) B65G 1/04 (2006.01) B65G 1/06 (2006.01) B65G 47/57 (2006.01)**  
[25] EN  
[54] **A STORAGE SYSTEM FOR STORING AND TRANSPORTING BINS**  
[54] **SYSTEME DE STOCKAGE POUR STOCKER ET TRANSPORTER DES CASIERS**  
[72] HOGNALAND, INGVAR, NO  
[72] FJELDHEIM, IVAR, NO  
[72] AUSTRHEIM, TROND, NO  
[72] GJERDEVIK, OYSTEIN, NO  
[71] AUTOSTORE TECHNOLOGY AS, NO  
[85] 2018-05-03  
[86] 2016-11-15 (PCT/EP2016/077691)  
[87] (WO2017/121515)  
[30] NO (20160070) 2016-01-14

[21] **3,004,209**  
[13] A1

[51] **Int.Cl. A23L 29/231 (2016.01)**  
[25] EN  
[54] **ALCOHOLIC FOAM**  
[54] **MOUSSE ALCOOLISEE**  
[72] PERRIER, CEDRIC, CH  
[72] MARMET, OLIVIER, FR  
[72] LASSIS-LAVY, GUILLAUME, FR  
[71] IBEX SARL, FR  
[71] DURDEN CONCEPT SARL, CH  
[85] 2018-05-03  
[86] 2015-11-20 (PCT/IB2015/059005)  
[87] (WO2017/085533)

[21] **3,004,210**  
[13] A1

[51] **Int.Cl. H04M 3/523 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR HYBRID BEHAVIORAL PAIRING IN A CONTACT CENTER SYSTEM**  
[54] **PROCEDES D'APPARIEMENT COMPORTEMENTAL HYBRIDE DANS UN SYSTEME DE CENTRE DE CONTACT**  
[72] CHISHTI, ZIA, US  
[72] KHATRI, VIKASH, US  
[71] AFINITI EUROPE TECHNOLOGIES LIMITED, GB  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/IB2016/001762)  
[87] (WO2017/093798)  
[30] US (14/956,086) 2015-12-01

[21] **3,004,211**  
[13] A1

[51] **Int.Cl. H04M 3/523 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR HYBRID BEHAVIORAL PAIRING IN A CONTACT CENTER SYSTEM**  
[54] **PROCEDES D'APPARIEMENT COMPORTEMENTAL HYBRIDE DANS UN SYSTEME DE CENTRE DE CONTACT**  
[72] CHISHTI, ZIA, US  
[72] KHATRI, VIKASH, US  
[71] AFINITI EUROPE TECHNOLOGIES LIMITED, GB  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/IB2016/001776)  
[87] (WO2017/093799)  
[30] US (14/956,074) 2015-12-01

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[21] **3,004,212**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01)**  
[25] EN  
[54] **TECHNIQUES FOR CASE ALLOCATION**  
[54] **TECHNIQUES D'ATTRIBUTION DE CAS**  
[72] KAN, ITTAI, US  
[72] DELELLIS, DAVID J., US  
[71] AFINITI EUROPE TECHNOLOGIES LIMITED, GB  
[85] 2018-05-03  
[86] 2016-11-30 (PCT/IB2016/001871)  
[87] (WO2017/093808)  
[30] US (62/261,780) 2015-12-01

[21] **3,004,213**  
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 90/20 (2016.01) A61F 9/007 (2006.01) G02B 21/00 (2006.01)**  
[25] EN  
[54] **APPARATUSES AND METHODS FOR PARAMETER ADJUSTMENT IN SURGICAL PROCEDURES**  
[54] **APPAREILS ET PROCEDES DE REGLAGE DE PARAMETRES DANS DES INTERVENTIONS CHIRURGICALES**  
[72] PAPAC, MICHAEL JAMES, US  
[71] NOVARTIS AG, CH  
[85] 2018-05-03  
[86] 2016-08-25 (PCT/IB2016/055086)  
[87] (WO2017/122061)  
[30] US (14/994,807) 2016-01-13

[21] **3,004,214**  
[13] A1

[51] **Int.Cl. G01R 33/44 (2006.01)**  
[25] EN  
[54] **ELECTROMAGNET CURRENT CONSTRAINTS**  
[54] **LIMITATIONS DE COURANT PAR ELECTRO-AIMANT**  
[72] BINDSEIL, GERON ANDRE, CA  
[72] HANDLER, WILLIAM BRADFIELD, CA  
[71] SYNAPTIVE MEDICAL (BARBADOS) INC., BB  
[85] 2018-05-03  
[86] 2015-11-06 (PCT/IB2015/058595)  
[87] (WO2017/077368)

[21] **3,004,226**  
[13] A1

[51] **Int.Cl. B01J 23/89 (2006.01) B01J 23/40 (2006.01) B01J 23/652 (2006.01) B01J 23/656 (2006.01) B01J 37/02 (2006.01) F01N 3/20 (2006.01)**  
[25] EN  
[54] **DIESEL OXIDATION CATALYST COMBINING PLATINUM GROUP METAL WITH BASE METAL OXIDE**  
[54] **CATALYSEUR D'OXYDATION DE DIESEL COMBINANT UN METAL DU GROUPE DU PLATINE AVEC UN OXYDE METALLIQUE BASIQUE**  
[72] ILINICH, OLEG, US  
[72] ROTH, STANLEY, US  
[71] BASF CORPORATION, US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/IB2016/056620)  
[87] (WO2017/077479)  
[30] US (62/251,875) 2015-11-06

[21] **3,004,228**  
[13] A1

[51] **Int.Cl. C12P 7/10 (2006.01) C12N 9/34 (2006.01) C12N 15/81 (2006.01)**  
[25] EN  
[54] **LIMITING YEAST-PRODUCED TREHALOSE IN FERMENTATION**  
[54] **LIMITATION DU TREHALOSE PRODUIT PAR DES LEVURES EN FERMENTATION**  
[72] RICE, CHARLES F., US  
[72] SKINNER, RYAN, US  
[72] BARRETT, TRISHA, US  
[72] ARGYROS, AARON, US  
[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/IB2016/056658)  
[87] (WO2017/077504)  
[30] US (62/251,885) 2015-11-06

[21] **3,004,232**  
[13] A1

[51] **Int.Cl. A61B 3/13 (2006.01) A61B 3/10 (2006.01) G02B 21/00 (2006.01) A61B 3/18 (2006.01)**  
[25] EN  
[54] **LOCATION INDICATOR FOR OPTICAL COHERENCE TOMOGRAPHY IN OPHTHALMIC VISUALIZATION**  
[54] **INDICATEUR D'EMPLACEMENT POUR TOMOGRAPHIE PAR COHERENCE OPTIQUE EN VISUALISATION OPHTALMIQUE**  
[72] REN, HUGANG, US  
[72] YU, LINGFENG, US  
[71] NOVARTIS AG, CH  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/IB2016/057050)  
[87] (WO2017/093851)  
[30] US (14/957,306) 2015-12-02

[21] **3,004,237**  
[13] A1

[51] **Int.Cl. A61H 99/00 (2006.01) A61B 50/31 (2016.01) A61F 5/00 (2006.01) A61J 17/00 (2006.01)**  
[25] EN  
[54] **ORAL DEVICE, ASSEMBLY AND METHOD FOR USE THEREOF**  
[54] **DISPOSITIF BUCCAL, ENSEMBLE ET PROCEDE D'UTILISATION DE CELUI-CI**  
[72] SIEFFERT, MARCUS, CA  
[72] SCARROTT, PETER, CA  
[72] RIFANI, ANDREAS, CA  
[71] TRUDELL MEDICAL INTERNATIONAL, CA  
[85] 2018-05-03  
[86] 2016-12-06 (PCT/IB2016/057378)  
[87] (WO2017/098404)  
[30] US (62/265,088) 2015-12-09

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<p>[21] <b>3,004,240</b> [13] A1</p> <p>[51] <b>Int.Cl. G06Q 10/06 (2012.01) H04M 3/523 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>TECHNIQUES FOR BENCHMARKING PAIRING STRATEGIES IN A CONTACT CENTER SYSTEM</b></p> <p>[54] <b>TECHNIQUES D'EVALUATION COMPARATIVE DE STRATEGIES D'APPARIEMENT DANS UN SYSTEME DE CENTRE DE CONTACT</b></p> <p>[72] CHISHTI, ZIA, US</p> <p>[71] AFINITI EUROPE TECHNOLOGIES LIMITED, GB</p> <p>[85] 2018-05-03</p> <p>[86] 2017-04-18 (PCT/IB2017/000570)</p> <p>[87] (WO2017/182879)</p> <p>[30] US (15/131,915) 2016-04-18</p> <p>[30] US (15/221,698) 2016-07-28</p>	<p>[21] <b>3,004,243</b> [13] A1</p> <p>[51] <b>Int.Cl. E04F 15/10 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>DENSIFIED FOAM CORE (DFC) TILE WITH IMITATION GROUT LINE</b></p> <p>[54] <b>CARREAU DE NOYAU EN MOUSSE DENSIFIEE (DFC) AVEC LIGNE D'ENDUIT DE JOINTEMENT D'IMITATION</b></p> <p>[72] ALFIERI, MICHELE, CA</p> <p>[72] COUREY, STEPHEN, CA</p> <p>[71] QUICKSTYLE INDUSTRIES INC., CA</p> <p>[85] 2018-05-03</p> <p>[86] 2017-07-17 (PCT/IB2017/000852)</p> <p>[87] (WO2018/037270)</p> <p>[30] US (62/380,122) 2016-08-26</p> <p>[30] US (15/454,650) 2017-03-09</p>	<p>[21] <b>3,004,245</b> [13] A1</p> <p>[51] <b>Int.Cl. A23B 4/06 (2006.01) A23L 3/36 (2006.01) F25C 1/00 (2006.01) F25D 3/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ICE, REFRIGERANT, ICE PRODUCTION METHOD, METHOD FOR PRODUCING COOLED ARTICLE, METHOD FOR PRODUCING REFRIGERATED ARTICLE OF PLANT/ANIMAL OR PORTION THEREOF, REFRIGERATING MATERIAL FOR PLANT/ANIMAL OR PORTION THEREOF, METHOD FOR PRODUCING FROZEN FRESH PLANT/ANIMAL OR PORTION THEREOF, DEFROSTED ARTICLE OR PROCESSED ARTICLE THEREOF, AND FREEZING MATERIAL FOR</b></p> <p>...</p> <p>[54] <b>GLACE, REFRIGERANT, PROCEDE DE PRODUCTION DE GLACE, PROCEDE DE PRODUCTION D'ARTICLE REFROIDI, PROCEDE DE PRODUCTION D'ARTICLE REFRIGERANT DE PLANTE/ANIMAL OU PARTIE DE CE DERNIER, MATERIAU DE REFRIGERATION POUR PLANTE/ANIMAL OU PARTIE DE CE DERNIER, PROCEDE DE PRODUCTION DE PLANTE/ANIMAL FRAIS CONGELE OU PARTIE DE CE DERNIER, ARTICLE DECONGELE OU ARTICLE ....</b></p> <p>[72] HIROKANE, YOSHIO, JP</p> <p>[72] AKIYAMA, TOMOAKI, JP</p> <p>[72] IZUTSU, TADAO, JP</p> <p>[71] BLANCTEC CO., LTD., JP</p> <p>[85] 2018-05-03</p> <p>[86] 2016-11-18 (PCT/JP2016/084319)</p> <p>[87] (WO2017/086461)</p> <p>[30] JP (2015-226589) 2015-11-19</p> <p>[30] JP (2016-041189) 2016-03-03</p> <p>[30] JP (2016-103012) 2016-05-24</p> <p>[30] JP (2016-103013) 2016-05-24</p> <p>[30] JP (2016-103014) 2016-05-24</p> <p>[30] JP (2016-103637) 2016-05-24</p> <p>[30] JP (2016-103638) 2016-05-24</p> <p>[30] JP (2016-103639) 2016-05-24</p> <p>[30] JP (2016-103640) 2016-05-24</p> <p>[30] JP (2016-132615) 2016-07-04</p>
<p>[21] <b>3,004,241</b> [13] A1</p> <p>[51] <b>Int.Cl. H04N 13/00 (2018.01) H04N 19/597 (2014.01)</b></p> <p>[25] EN</p> <p>[54] <b>ENCODING APPARATUS AND ENCODING METHOD, DECODING APPARATUS AND DECODING METHOD</b></p> <p>[54] <b>DISPOSITIF D'ENCODAGE ET PROCEDE D'ENCODAGE, ET DISPOSITIF DE DECODAGE ET PROCEDE DE DECODAGE</b></p> <p>[72] TANAKA, JUNICHI, JP</p> <p>[71] SONY CORPORATION, JP</p> <p>[85] 2018-05-03</p> <p>[86] 2016-10-28 (PCT/JP2016/082024)</p> <p>[87] (WO2017/082076)</p> <p>[30] JP (2015-221233) 2015-11-11</p>	<p>[21] <b>3,004,244</b> [13] A1</p> <p>[51] <b>Int.Cl. C10L 1/02 (2006.01) C08H 7/00 (2011.01) C07G 1/00 (2011.01) C10G 1/00 (2006.01) C12P 7/64 (2006.01) D21C 11/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>A PROCESS FOR PRODUCING A HYDROCARBON PRODUCT FROM LIGNIN OIL</b></p> <p>[54] <b>PROCEDE DE PRODUCTION D'UN PRODUIT HYDROCARBONE A PARTIR D'HUILE DE LIGNINE</b></p> <p>[72] KUGGE, CHRISTIAN, SE</p> <p>[72] HULTGREN, ANDERS, SE</p> <p>[72] DANNENBAUER, KAI, DE</p> <p>[72] LIEBOLD, CLAUDIA, DE</p> <p>[72] HUBER, FLORIAN, DE</p> <p>[71] SCA FOREST PRODUCTS AB, SE</p> <p>[85] 2018-05-03</p> <p>[86] 2015-11-04 (PCT/SE2015/051164)</p> <p>[87] (WO2017/078582)</p>	

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[21] **3,004,247**  
[13] A1

[51] **Int.Cl. D21C 11/00 (2006.01) C13B 10/00 (2011.01) C07C 29/132 (2006.01) C12P 7/18 (2006.01) D21C 1/04 (2006.01) D21C 3/04 (2006.01) D21C 3/26 (2006.01) C12P 7/04 (2006.01) C12P 7/40 (2006.01) C12P 19/02 (2006.01)**

[25] EN  
[54] **PROCESS TO PRODUCE A BIO-PRODUCT**  
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT BIOLOGIQUE**

[72] FERRANDO, PATRIZIA, IT  
[72] BERNARDI, MARCO, IT  
[72] GIORDANO, DARIO, IT  
[72] LAMMI, LARI, FI  
[72] NORDGREN, MATS, SE  
[71] VALMET AKTIEBOLAG, SE  
[85] 2018-05-03  
[86] 2016-12-01 (PCT/SE2016/051195)  
[87] (WO2017/095313)  
[30] EP (15425105.2) 2015-12-03

[21] **3,004,251**  
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01)**

[25] EN  
[54] **CELL CULTURE METHOD USING LAMININ FRAGMENT-CONTAINING MEDIUM**  
[54] **PROCEDE DE CULTURE CELLULAIRE UTILISANT UN MILIEU CONTENANT UN FRAGMENT DE LAMININE**

[72] SUEMORI, HIROFUMI, JP  
[72] MIYAZAKI, TAKAMICHI, JP  
[71] KYOTO UNIVERSITY, JP  
[85] 2018-05-03  
[86] 2016-11-08 (PCT/JP2016/083014)  
[87] (WO2017/082220)  
[30] JP (2015-219996) 2015-11-10

[21] **3,004,252**  
[13] A1

[51] **Int.Cl. A23B 4/06 (2006.01) A23L 3/36 (2006.01) F25C 1/00 (2006.01) F25D 3/02 (2006.01)**

[25] EN  
[54] **ICE MAKING DEVICE, MOVING BODY, FLAKE ICE PRODUCTION DEVICE, AND FLAKE ICE PRODUCTION METHOD**  
[54] **DISPOSITIF DE FABRICATION DE GLACE, CORPS MOBILE, DISPOSITIF DE PRODUCTION DE GLACE EN FLOCONS ET PROCEDE DE PRODUCTION DE GLACE EN FLOCONS**

[72] HIROKANE, YOSHIO, JP  
[72] AKIYAMA, TOMOAKI, JP  
[72] IZUTSU, TADAO, JP  
[71] BLANCTEC CO., LTD., JP  
[85] 2018-05-03  
[86] 2016-11-18 (PCT/JP2016/084320)  
[87] (WO2017/086462)  
[30] JP (2015-226589) 2015-11-19  
[30] JP (2016-041189) 2016-03-03  
[30] JP (2016-103012) 2016-05-24  
[30] JP (2016-103013) 2016-05-24  
[30] JP (2016-103014) 2016-05-24  
[30] JP (2016-103637) 2016-05-24  
[30] JP (2016-103638) 2016-05-24  
[30] JP (2016-103639) 2016-05-24  
[30] JP (2016-103640) 2016-05-24  
[30] JP (2016-132615) 2016-07-04

[21] **3,004,253**  
[13] A1

[51] **Int.Cl. B05B 3/00 (2006.01)**

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[54] **PIVOT IRRIGATION SYSTEM AND COMPONENTS**  
[54] **SYSTEME D'IRRIGATION A PIVOT ET COMPOSANTS**

[72] HANSEN, BRIAN G., US  
[71] 7A9, LLC, US  
[85] 2018-05-03  
[86] 2015-11-03 (PCT/US2015/058811)  
[87] (WO2016/073466)  
[30] US (14/532,555) 2014-11-04

[21] **3,004,254**  
[13] A1

[51] **Int.Cl. B28B 17/00 (2006.01) B28B 19/00 (2006.01) G01B 11/06 (2006.01) G01B 21/32 (2006.01)**

[25] EN  
[54] **SYSTEM AND METHOD FOR MANUFACTURING CEMENTITIOUS BOARDS WITH ON-LINE BOARD MEASUREMENT**  
[54] **SYSTEME ET PROCEDE POUR LA FABRICATION DE PANNEAUX CIMENTAIRES PRESENTANT UNE MESURE EN LIGNE DES PANNEAUX**

[72] NELSON, ROBERT, US  
[72] PAULY, CHRISTOPHER MARK, US  
[72] WHITTINGTON, CHARLES, US  
[72] ROWE, ANDREW, US  
[71] UNITED STATES GYPSUM COMPANY, US  
[85] 2018-05-03  
[86] 2016-10-24 (PCT/US2016/058387)  
[87] (WO2017/078952)  
[30] US (62/251,396) 2015-11-05  
[30] US (15/271,989) 2016-09-21

[21] **3,004,255**  
[13] A1

[51] **Int.Cl. E21B 43/17 (2006.01) E21B 43/20 (2006.01) E21B 43/26 (2006.01)**

[25] EN  
[54] **METHOD FOR CREATING MULTI-DIRECTIONAL BERNOULLI-INDUCED FRACTURES WITHIN VERTICAL MINI-HOLES IN DEVIATED WELLBORES**  
[54] **PROCEDE PERMETTANT DE CREER DES FRACTURES MULTIDIRECTIONNELLES INDUITES PAR BERNOULLI DANS DE MINUSCULES TROUS VERTICAUX DANS DES Puits DE FORAGE DEVIES**

[72] SURJAATMADJA, JIM BASUKI, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-05-03  
[86] 2016-02-16 (PCT/US2016/018075)  
[87] (WO2017/142514)

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[21] **3,004,256**  
[13] A1

[51] **Int.Cl. G03G 13/08 (2006.01) G03G 13/16 (2006.01) G03G 15/08 (2006.01) G03G 15/16 (2006.01)**

[25] EN

[54] **REPLACEABLE UNIT FOR AN IMAGE FORMING DEVICE HAVING MAGNETS OF VARYING ANGULAR OFFSET FOR TONER LEVEL SENSING**

[54] **UNITE REMPLACABLE DESTINEE A UN DISPOSITIF DE FORMATION D'IMAGE ET DOTE D'AIMANTS AYANT UN DECALAGE ANGULAIRE VARIABLE POUR LA DETECTION DU NIVEAU DE TONER**

[72] CARPENTER, BRIAN SCOTT, US  
[72] MCALPINE, ROBERT WATSON, US  
[72] LEEMHUIS, MICHAEL CRAIG, US  
[71] LEXMARK INTERNATIONAL, INC., US

[85] 2018-05-03  
[86] 2015-12-01 (PCT/US2015/063137)  
[87] (WO2017/095392)  
[30] US (14/953,714) 2015-11-30

[21] **3,004,257**  
[13] A1

[51] **Int.Cl. H01M 8/02 (2016.01) B29C 65/48 (2006.01) B32B 37/10 (2006.01) H01M 4/88 (2006.01) H01M 8/10 (2016.01)**

[25] EN

[54] **METHOD AND DEVICE FOR MANUFACTURING ASSEMBLY THAT INCLUDES POLYMER ELECTROLYTE MEMBRANE**

[54] **PROCEDE ET DISPOSITIF DE FABRICATION D'UN ENSEMBLE COMPRENANT UNE MEMBRANE ELECTROLYTIQUE POLYMERE**

[72] ADACHI, SHINYA, JP  
[72] FUJIEDA, YUKA, JP  
[72] IZUHARA, DAISUKE, JP  
[72] SHINTAKU, YUTA, JP  
[71] TORAY INDUSTRIES, INC., JP

[85] 2018-05-03  
[86] 2016-11-15 (PCT/JP2016/083794)  
[87] (WO2017/086304)  
[30] JP (2015-226275) 2015-11-19

[21] **3,004,259**  
[13] A1

[51] **Int.Cl. G06Q 50/22 (2018.01) G06F 19/26 (2011.01) G06F 19/28 (2011.01)**

[25] EN

[54] **MEDICAL PROTOCOL EVALUATION**

[54] **EVALUATION DE PROTOCOLE MEDICAL**

[72] STANKIEWICZ, BRIAN J., US  
[72] SCHUMACHER, JENNIFER F., US  
[72] BROOKS, BRIAN E., US  
[72] ASENDORF, NICHOLAS A., US  
[72] PETERSON, KELLY S., US  
[71] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2018-05-03  
[86] 2016-10-27 (PCT/US2016/058980)  
[87] (WO2017/079012)  
[30] US (62/251,963) 2015-11-06

[21] **3,004,260**  
[13] A1

[51] **Int.Cl. E21B 47/09 (2012.01) E21B 47/06 (2012.01) E21B 47/12 (2012.01)**

[25] EN

[54] **MULTILATERAL WELL SENSING SYSTEM**

[54] **SYSTEME DE DETECTION DE Puits MULTILATERALE**

[72] JAASKELAINEN, MIKKO, US  
[72] PARK, BRIAN VANDELLYN, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-05-03  
[86] 2015-12-16 (PCT/US2015/065984)  
[87] (WO2017/105428)

[21] **3,004,262**  
[13] A1

[51] **Int.Cl. G05D 1/02 (2006.01)**

[25] EN

[54] **AUTONOMOUS VISUAL NAVIGATION**

[54] **NAVIGATION VISUELLE AUTONOME**

[72] WIERZYNSKI, CASIMIR MATTHEW, US  
[72] BEHABADI, BARDIA FALLAH, US  
[72] GIBSON, SARAH PAIGE, US  
[72] AGHAMOHAMMADI, ALIAKBAR, US  
[72] AGARWAL, SAURAV, US  
[71] QUALCOMM INCORPORATED, US

[85] 2018-05-03  
[86] 2016-10-27 (PCT/US2016/059171)  
[87] (WO2017/105643)  
[30] US (62/267,886) 2015-12-15  
[30] US (15/249,250) 2016-08-26

[21] **3,004,264**  
[13] A1

[51] **Int.Cl. B29C 47/06 (2006.01) B29C 47/00 (2006.01) B29C 47/34 (2006.01) B29C 47/88 (2006.01)**

[25] EN

[54] **POLYMERIC FILMS AND METHODS FOR MAKING POLYMERIC FILMS**

[54] **FILMS POLYMERES ET PROCEDES DE FABRICATION DE FILMS POLYMERES**

[72] MIDDLESWORTH, JEFFREY A., US  
[72] KITZMILLER, BROOKE D., US  
[72] ZAIKOV, VADIM G., US  
[71] BERRY GLOBAL, INC., US

[85] 2018-05-03  
[86] 2016-11-02 (PCT/US2016/060006)  
[87] (WO2017/079209)  
[30] US (62/251,415) 2015-11-05

[21] **3,004,265**  
[13] A1

[51] **Int.Cl. B26B 5/00 (2006.01) B25G 3/18 (2006.01) B26B 29/02 (2006.01)**

[25] EN

[54] **BLADE CARTRIDGES AND LOCKABLE SAFETY COVERS**

[54] **CARTOUCHES DE LAMES ET COUVERCLES DE SECURITE POUVANT ETRE VERROUILLES**

[72] VOTOLATO, EARL J., US  
[72] SHARBAUGH, DAVID ANDREW, US  
[72] HOWA, FRANK MATTHEW, US  
[72] BURKES, RYAN, US  
[71] SPELLBOUND DEVELOPMENT GROUP, INC., US

[85] 2018-05-03  
[86] 2016-10-27 (PCT/US2016/059173)  
[87] (WO2017/079035)  
[30] US (14/931,093) 2015-11-03  
[30] US (15/144,285) 2016-05-02

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[13] A1

[51] **Int.Cl. G06Q 50/00 (2012.01)**  
[25] EN  
[54] **IDENTIFICATION OF LOW-EFFICACY PATIENT POPULATION**  
[54] **IDENTIFICATION DE POPULATION DE PATIENTS DE FAIBLE EFFICACITE**  
[72] STANKIEWICZ, BRIAN J., US  
[72] SCHUMACHER, JENNIFER F., US  
[72] BROOKS, BRIAN E., US  
[72] ASENDORF, NICHOLAS A., US  
[72] PETERSON, KELLY S., US  
[71] 3M INNOVATIVE PROPERTIES COMPANY, US  
[85] 2018-05-03  
[86] 2016-10-28 (PCT/US2016/059315)  
[87] (WO2017/079047)  
[30] US (62/252,005) 2015-11-06

[21] **3,004,268**  
[13] A1

[51] **Int.Cl. B21C 1/00 (2006.01) B21C 1/22 (2006.01) B21C 1/24 (2006.01) B21C 3/00 (2006.01) B21C 3/16 (2006.01) B21C 37/15 (2006.01) B21C 37/20 (2006.01)**  
[25] EN  
[54] **FLOATING DRAW PLUG AND METHOD OF DRAWING TUBE**  
[54] **MANDRIN D'ETIRAGE FLOTTANT ET PROCEDE D'ETIRAGE DE TUBE**  
[72] NORRIS, AARON, US  
[72] DAILEY, JAMES, US  
[72] MARTIN, JAMES, US  
[72] SNYDER, MATT, US  
[72] WOUGAMON, JAKE, US  
[71] PENN ALUMINUM INTERNATIONAL LLC, US  
[85] 2018-05-03  
[86] 2016-11-02 (PCT/US2016/060031)  
[87] (WO2017/079230)  
[30] US (14/934,897) 2015-11-06

[21] **3,004,269**  
[13] A1

[51] **Int.Cl. C10M 137/08 (2006.01)**  
[25] EN  
[54] **LUBRICANT WITH HIGH PYROPHOSPHATE LEVEL**  
[54] **LUBRIFIANT A HAUT TAUX DE PYROPHOSPHATE**  
[72] KASSIR, JAMAL., US  
[72] BARTON, WILLIAM R. S., GB  
[72] ADAMS, PAUL E., US  
[72] BLANASZ, LISA, DE  
[71] THE LUBRIZOL CORPORATION, US  
[85] 2018-05-03  
[86] 2016-10-27 (PCT/US2016/059000)  
[87] (WO2017/079016)  
[30] US (62/251,897) 2015-11-06

[21] **3,004,271**  
[13] A1

[51] **Int.Cl. H04N 9/47 (2006.01)**  
[25] EN  
[54] **DYNAMIC DISPLAY CALIBRATION BASED ON EYE-TRACKING**  
[54] **ETALONNAGE D'AFFICHAGE DYNAMIQUE BASE SUR UN SUIVI OCULAIRE**  
[72] YEOH, IVAN L., US  
[72] EDWIN, LIONEL E., US  
[72] MILLER, SAMUEL A., US  
[71] MAGIC LEAP, INC., US  
[85] 2018-05-03  
[86] 2016-11-02 (PCT/US2016/060158)  
[87] (WO2017/079329)  
[30] US (62/250,925) 2015-11-04  
[30] US (62/250,934) 2015-11-04  
[30] US (62/278,779) 2016-01-14  
[30] US (62/278,824) 2016-01-14  
[30] US (62/278,794) 2016-01-14

[21] **3,004,272**  
[13] A1

[51] **Int.Cl. A61L 15/24 (2006.01)**  
[25] EN  
[54] **COMPACTED HEMOSTATIC CELLULOSIC AGGREGATES**  
[54] **AGREGATS CELLULOSIQUES HEMOSTATIQUES COMPACTES**  
[72] WANG, YI-LAN, US  
[71] ETHICON, INC., US  
[85] 2018-05-03  
[86] 2016-10-28 (PCT/US2016/059429)  
[87] (WO2017/079059)  
[30] US (62/251,773) 2015-11-06  
[30] US (62/371,954) 2016-08-08  
[30] US (62/408,176) 2016-10-14

[21] **3,004,274**  
[13] A1

[51] **Int.Cl. H02G 11/02 (2006.01) H02G 11/00 (2006.01) H02J 7/00 (2006.01)**  
[25] EN  
[54] **MECHANISM FOR CHARGING AN ELECTRONIC DEVICE WITH A RETRACTABLE CORD REEL**  
[54] **MECANISME POUR CHARGER UN DISPOSITIF ELECTRONIQUE AVEC UN ENROULEUR DE CABLE RETRACTABLE**  
[72] HINOJOSA, CHRISTOPHER, US  
[72] MELLINGER, DAVID, US  
[72] ALFORD, JOHN, US  
[72] SCHWARTZ, MARK, US  
[71] KONNECTRONIX, INC., US  
[85] 2018-05-03  
[86] 2016-02-26 (PCT/US2016/019703)  
[87] (WO2017/078769)  
[30] US (14/933,950) 2015-11-05

[21] **3,004,275**  
[13] A1

[51] **Int.Cl. A61K 31/575 (2006.01) C07J 9/00 (2006.01) C07J 31/00 (2006.01)**  
[25] EN  
[54] **METHODS FOR THE PREPARATION OF OBETICHOLIC ACID AND DERIVATIVES THEREOF**  
[54] **PROCEDE DE PREPARATION D'ACIDE OBETICHOLIQUE ET DE DERIVES DE CELUI-CI**  
[72] GALVIN, GABRIEL M., US  
[71] INTERCEPT PHARMACEUTICALS, INC., US  
[85] 2018-05-03  
[86] 2016-10-28 (PCT/US2016/059440)  
[87] (WO2017/079062)  
[30] US (62/252,077) 2015-11-06

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[13] A1

[51] **Int.Cl. G01N 21/27 (2006.01)**  
[25] EN  
[54] **LIGHT FIELD DISPLAY METROLOGY**  
[54] **METROLOGIE D'AFFICHAGE A CHAMP LUMINEUX**  
[72] MILLER, SAMUEL A., US  
[72] EDWIN, LIONEL E., US  
[72] YEOH, IVAN L., US  
[71] MAGIC LEAP, INC., US  
[85] 2018-05-03  
[86] 2016-11-02 (PCT/US2016/060162)  
[87] (WO2017/079333)  
[30] US (62/250,925) 2015-11-04  
[30] US (62/250,934) 2015-11-04  
[30] US (62/278,794) 2016-01-14  
[30] US (62/278,824) 2016-01-14  
[30] US (62/278,779) 2016-01-14

[21] **3,004,279**  
[13] A1

[51] **Int.Cl. H01H 83/04 (2006.01) H01H 83/00 (2006.01) H01H 83/02 (2006.01)**  
[25] EN  
[54] **GROUND FAULT CIRCUIT INTERRUPTER USING FREQUENCY RECOGNITION AND MEASUREMENT**  
[54] **DISJONCTEUR DIFFERENTIEL DE FUITE DE TERRE UTILISANT UNE RECONNAISSANCE ET UNE MESURE DE FREQUENCE**  
[72] BATKO, THOMAS JAMES, US  
[72] MEADY, JOSEPH MICHAEL, US  
[71] HUBBELL INCORPORATED, US  
[85] 2018-05-03  
[86] 2016-11-01 (PCT/US2016/059867)  
[87] (WO2017/079134)  
[30] US (62/250,273) 2015-11-03

[21] **3,004,281**  
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 30/02 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR FLEXIBLY USING TRENDING TOPICS AS PARAMETERS FOR RECOMMENDING MEDIA ASSETS THAT ARE RELATED TO A VIEWED MEDIA ASSET**  
[54] **SYSTEMES ET PROCEDES D'UTILISATION DE MANIERE FLEXIBLE DE SUJETS TENDANCE EN TANT QUE PARAMETRES POUR RECOMMANDER DES CONTENUS MULTIMEDIAS ASSOCIES A UN CONTENU MULTIMEDIA VISUALISE**  
[72] VENKATARAMAN, SASHIKUMAR, US  
[72] AGARWAL, VINEET, US  
[71] ROVI GUIDES, INC., US  
[85] 2018-05-03  
[86] 2016-10-31 (PCT/US2016/059659)  
[87] (WO2018/080532)

[21] **3,004,282**  
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 50/10 (2012.01) G06F 11/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR IDENTIFYING AND EXPLAINING ERRORS IN THE PREPARATION OF A PAYROLL TAX FORM USING ERROR GRAPHS**  
[54] **SYSTEMES ET PROCEDES PERMETTANT D'IDENTIFIER ET D'EXPLIQUER DES ERREURS DANS LA PREPARATION D'UNE DECLARATION FISCALE AU MOYEN DE GRAPHES D'ERREURS**  
[72] LUBCZYNSKI, PETER E., US  
[72] WANG, GANG, US  
[72] PARKS, PAUL A., US  
[72] MCCLUSKEY, KEVIN M., US  
[72] MONTOYA, ERNEST, US  
[72] HANEKAMP, DAVID A., JR., US  
[72] RYAN, KYLE J., US  
[71] INTUIT INC., US  
[85] 2018-05-03  
[86] 2016-06-28 (PCT/US2016/039913)  
[87] (WO2017/116496)  
[30] US (14/981,610) 2015-12-28

[21] **3,004,283**  
[13] A1

[51] **Int.Cl. G01C 23/00 (2006.01)**  
[25] EN  
[54] **TARGETED LOCATION PRODUCT DELIVERY SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE LIVRAISON DE PRODUIT A UN EMPLACEMENT CIBLE**  
[72] HIGH, DONALD R., US  
[72] JONES, NATHAN G., US  
[72] NATARAJAN, CHANDRASHEKAR, US  
[72] THOMPSON, JOHN P., US  
[72] HICKS, GREGORY A., US  
[71] WALMART APOLLO, LLC, US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060277)  
[87] (WO2017/079404)  
[30] US (62/252,235) 2015-11-06

[21] **3,004,284**  
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 50/10 (2012.01)**  
[25] EN  
[54] **METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR FACILITATING USER INTERACTION WITH TAX RETURN PREPARATION PROGRAMS**  
[54] **PROCEDES, SYSTEMES ET PRODUITS-PROGRAMMES INFORMATIQUES POUR FACILITER L'INTERACTION DE L'UTILISATEUR AVEC DES PROGRAMMES DE PREPARATION DE DECLARATION D'IMPOTS**  
[72] HUBBARD, PAUL F., US  
[72] KRUPICKA, TYLER THOMAS, US  
[72] JEDDELOH, ANDREW SCOTT, US  
[72] HUANG, NANKUN, US  
[72] EFTEKHARI, AMIR R., US  
[71] INTUIT INC., US  
[85] 2018-05-03  
[86] 2016-07-28 (PCT/US2016/044470)  
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[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR VOLUMETRIC IMAGING OF A THREE-DIMENSIONAL NUCLEIC ACID CONTAINING MATRIX**  
[54] **PROCEDE ET APPAREIL POUR IMAGERIE VOLUMETRIQUE D'UNE MATRICE TRIDIMENSIONNELLE CONTENANT DES ACIDES NUCLEIQUES**  
[72] DAUGHARTHY, EVAN R., US  
[72] TERRY, RICHARD C., US  
[72] LEE, JE-HYUK, US  
[72] CHURCH, GEORGE M., US  
[72] PRUITT, BENJAMIN W., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060279)  
[87] (WO2017/079406)  
[30] US (62/250,182) 2015-11-03

[21] **3,004,286**  
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) B23K 26/352 (2014.01) B23K 15/00 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING GRAIN-ORIENTED ELECTRICAL STEEL SHEET**  
[54] **METHODE DE PRODUCTION DE TOLE ELECTRIQUE A GRAIN ORIENTE**  
[72] TAKENAKA, MASANORI, JP  
[72] HAYAKAWA, YASUYUKI, JP  
[72] IMAMURA, TAKESHI, JP  
[72] EHASHI, YUIKO, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2018-05-03  
[86] 2016-11-30 (PCT/JP2016/085616)  
[87] (WO2017/094797)  
[30] JP (2015-237995) 2015-12-04

[21] **3,004,288**  
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C07K 1/22 (2006.01) C12N 15/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR PROMOTING EFFICIENCY OF PURIFICATION OF FC REGION-CONTAINING POLYPEPTIDE**  
[54] **PROCEDE POUR FAVORISER L'EFFICACITE DE PURIFICATION D'UN POLYPEPTIDE CONTENANT UNE REGION FC**  
[72] TANAKA, NOBUYUKI, JP  
[72] MOMOSE, RUMIKO, JP  
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP  
[85] 2018-05-03  
[86] 2016-12-27 (PCT/JP2016/088820)  
[87] (WO2017/115773)  
[30] JP (2015-255726) 2015-12-28

[21] **3,004,289**  
[13] A1

[51] **Int.Cl. G08G 1/07 (2006.01) G08G 1/081 (2006.01)**  
[25] EN  
[54] **DYNAMICALLY CONFIGURABLE TRAFFIC CONTROLLERS AND METHODS OF USING THE SAME**  
[54] **DISPOSITIFS DE REGULATION DE LA CIRCULATION DYNAMIQUEMENT CONFIGURABLES ET LEURS PROCEDES D'UTILISATION**  
[72] PARUCH, LUCAS I., US  
[72] WIEGEL, AARON J., US  
[72] DONDLINGER, JASON, US  
[72] SNYDER, RONALD P., US  
[72] KORMAN, JOE, US  
[72] SWIFT, DAVID, US  
[72] WAUGAMAN, CHARLES, US  
[72] OATES, JAMES, US  
[72] NYGAARD, PETER D., US  
[71] RITE-HITE HOLDING CORPORATION, US  
[85] 2018-05-03  
[86] 2016-09-07 (PCT/US2016/050565)  
[87] (WO2017/078844)  
[30] US (14/931,844) 2015-11-03

[21] **3,004,290**  
[13] A1

[51] **Int.Cl. C01B 17/02 (2006.01) C01B 17/04 (2006.01) C01B 17/50 (2006.01)**  
[25] EN  
[54] **METHOD FOR REDUCING ELEMENTAL SULFUR IN GYPSUM PRODUCTS**  
[54] **PROCEDE DE REDUCTION DU SOUFRE ELEMENTAIRE DANS DES PRODUITS A BASE DE PLATRE**  
[72] COLLEGE, JOHN W., US  
[72] LEE, SANG-HO, US  
[72] HILTON, CHRIS, CA  
[72] KIANG, YU-ZHI, CA  
[72] LAI, CHOUNG-HOUNG, US  
[72] GLAVIN, GEORGE, US  
[72] ILYASHENKO, HELEN, US  
[71] CERTAINTED GYPSUM, INC., US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060283)  
[87] (WO2017/079410)  
[30] US (14/931,766) 2015-11-03

[21] **3,004,291**  
[13] A1

[51] **Int.Cl. A61F 13/532 (2006.01) A61F 13/534 (2006.01)**  
[25] EN  
[54] **THIN AND FLEXIBLE ABSORBENT ARTICLES**  
[54] **ARTICLES ABSORBANTS MINCES ET SOUPLES**  
[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US  
[72] MORROW, CLINT ADAM, US  
[72] HUBBARD, WADE MONROE, JR., US  
[72] DUVAL, DEAN LARRY, US  
[72] KIRKBRIDE, TANA MARIE, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/US2016/060593)  
[87] (WO2017/079606)  
[30] US (62/251,006) 2015-11-04

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[21] **3,004,292**  
[13] A1

[51] **Int.Cl. C23C 22/34 (2006.01) C23C 22/83 (2006.01)**  
[25] EN  
[54] **PRETREATMENT COMPOSITIONS AND METHODS OF TREATING A SUBSTRATE**  
[54] **COMPOSITIONS DE PRETRAITEMENT ET PROCEDES DE TRAITEMENT D'UN SUBSTRAT**  
[72] KOLCUN, ADAM, US  
[72] VARGAS, RICHARD M., US  
[72] SYLVESTER, KEVIN T., US  
[72] SILVERNAIL, NATHAN J., US  
[72] MCINTYRE, JOHN F., US  
[71] PPG INDUSTRIES OHIO, INC., US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060304)  
[87] (WO2017/079421)  
[30] US (14/931,913) 2015-11-04

[21] **3,004,293**  
[13] A1

[51] **Int.Cl. C07C 5/333 (2006.01) B01J 32/00 (2006.01) B01J 35/02 (2006.01) B01J 38/04 (2006.01) C07C 2/50 (2006.01) C07C 13/15 (2006.01)**  
[25] EN  
[54] **PROCESSES AND SYSTEMS FOR CONVERTING HYDROCARBONS TO CYCLOPENTADIENE**  
[54] **PROCEDES ET SYSTEMES DE CONVERSION D'HYDROCARBURES EN CYCLOPENTADIENE**  
[72] IACCINO, LARRY L., US  
[72] LEMOINE, ROMAIN O.V., US  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2018-05-03  
[86] 2016-10-07 (PCT/US2016/056010)  
[87] (WO2017/078892)  
[30] US (62/250,680) 2015-11-04  
[30] EP (16153716.2) 2016-02-02

[21] **3,004,294**  
[13] A1

[51] **Int.Cl. B64C 17/02 (2006.01) A63H 27/133 (2006.01) A63H 27/24 (2006.01) B64C 25/04 (2006.01) B64C 27/08 (2006.01) B64C 39/02 (2006.01) B64D 9/00 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR STABILIZING AN UNMANNED AERIAL SYSTEM**  
[54] **APPAREIL ET PROCEDE DE STABILISATION DE SYSTEME AERIEN SANS PILOTE**  
[72] HIGH, DONALD R., US  
[72] ATCHLEY, MICHAEL D., US  
[72] THOMPSON, JOHN P., US  
[72] NATARAJAN, CHANDRASHEKAR, US  
[71] WALMART APOLLO, LLC, US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060286)  
[87] (WO2017/079411)  
[30] US (62/251,429) 2015-11-05

[21] **3,004,295**  
[13] A1

[51] **Int.Cl. E21F 5/02 (2006.01) C09K 3/22 (2006.01) G01N 13/02 (2006.01)**  
[25] EN  
[54] **METHODS OF AND SYSTEMS FOR CONTROLLING DUST**  
[54] **PROCEDES ET SYSTEMES DE REGULATION DE POUSSIERE**  
[72] O'BRIEN, KEVIN, US  
[72] ERGANG, NICHOLAS, US  
[72] BHATTACHARJA, SANKAR, US  
[72] CRANFILL III, JOHN, US  
[72] LENDRUM, SHAUN, US  
[72] BRINKMEIER, ANDREW, US  
[71] ECOLAB USA INC., US  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/US2016/060428)  
[87] (WO2017/079494)  
[30] US (62/252,081) 2015-11-06

[21] **3,004,296**  
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01)**  
[25] EN  
[54] **ENRICH AND AMPLIFY HIGHLY POTENT HUMAN MESENCHYMAL STEM CELLS FROM ELDERLY CELL POPULATIONS**  
[54] **ENRICHISSEMENT ET AMPLIFICATION DE CELLULES SOUCHES MESENCHYMATEUSES HUMAINES TRES PUISSANTES A PARTIR DE POPULATIONS DE CELLULES AGEES**  
[72] BLOCK, TRAVIS, US  
[72] MARINKOVIC, MILOS, US  
[72] CHEN, XIAO-DONG, US  
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/US2016/060624)  
[87] (WO2017/079621)  
[30] US (62/250,664) 2015-11-04

[21] **3,004,297**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01)**  
[25] EN  
[54] **2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF**  
[54] **2-(3H-INDAZOL-3-YL)-1H-IMIDAZO[4,5-C]PYRIDINES ET LEURS UTILISATIONS ANTI-INFLAMMATOIRES**  
[72] HOOD, JOHN, US  
[72] WALLACE, DAVID MARK, US  
[72] KC, SUNIL KUMAR, US  
[72] YAZICI, YUSUF, US  
[72] SWEARINGEN, CHRISTOPHER, US  
[72] DELLAMARY, LUIS A., US  
[71] SAMUMED, LLC, US  
[85] 2018-05-03  
[86] 2016-11-07 (PCT/US2016/060856)  
[87] (WO2017/079759)  
[30] US (62/252,332) 2015-11-06  
[30] US (62/303,168) 2016-03-03

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<p style="text-align: center;">[21] <b>3,004,298</b> [13] A1</p> <p>[51] <b>Int.Cl. C07C 5/333 (2006.01) B01J 8/06 (2006.01) B01J 8/18 (2006.01) B01J 38/10 (2006.01) C07C 2/50 (2006.01) C07C 13/15 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FIRED TUBE CONVERSION SYSTEM AND PROCESS</b></p> <p>[54] <b>SYSTEME ET PROCEDE DE CONVERSION DE TUBE CUIT</b></p> <p>[72] IACCINO, LARRY L., US</p> <p>[72] LEMOINE, ROMAIN O.V., US</p> <p>[71] EXXONMOBIL CHEMICAL PATENTS INC., US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-10-07 (PCT/US2016/056011)</p> <p>[87] (WO2017/078893)</p> <p>[30] US (62/250,693) 2015-11-04</p> <p>[30] EP (16153717.0) 2016-02-02</p>	<p style="text-align: center;">[21] <b>3,004,300</b> [13] A1</p> <p>[51] <b>Int.Cl. C07D 239/42 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>COMPOSITIONS COMPRISING AN INHIBITOR OF LYSINE SPECIFIC DEMETHYLASE-1</b></p> <p>[54] <b>COMPOSITIONS COMPRENANT UN INHIBITEUR DE DEMETHYLASE-1 SPECIFIQUE DE LA LYSINE</b></p> <p>[72] CHEN, YOUNG K., US</p> <p>[72] KANOONI, TOUFIKE, US</p> <p>[72] KALDOR, STEPHEN W., US</p> <p>[72] STAFFORD, JEFFREY ALAN, US</p> <p>[72] VEAL, JAMES MARVIN, US</p> <p>[72] TAVARES-GRECO, PAULA ALESSANDRA, US</p> <p>[72] KREILEIN, MATTHEW MICHAEL, US</p> <p>[71] CELGENE QUANTICEL RESEARCH, INC., US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-11-04 (PCT/US2016/060694)</p> <p>[87] (WO2017/079670)</p> <p>[30] US (62/251,507) 2015-11-05</p>	<p style="text-align: center;">[21] <b>3,004,302</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 9/48 (2006.01) A23J 1/00 (2006.01) A23J 3/06 (2006.01) C07K 1/14 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PROCESS FOR RECOVERY OF WASTE GEL-MASS FROM SOFTGEL MANUFACTURING PROCESS</b></p> <p>[54] <b>PROCEDE DE RECUPERATION DE MASSE DE GEL RESIDUELLE A PARTIR D'UN PROCEDE DE FABRICATION DE SOFTGEL</b></p> <p>[72] FULPER, LESTER DAVID, US</p> <p>[72] STANGE, WERNER, US</p> <p>[72] HART, NORTON RICHARD, US</p> <p>[72] MCKEE, SHAWN P., US</p> <p>[72] TOSADO, NEFTALI, US</p> <p>[71] R.P. SCHERER TECHNOLOGIES, LLC, US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-11-08 (PCT/US2016/060905)</p> <p>[87] (WO2017/083254)</p> <p>[30] US (62/252,759) 2015-11-09</p>
<p style="text-align: center;">[21] <b>3,004,299</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 35/17 (2015.01) A61K 39/395 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS FOR PREPARING CELLS FOR ADOPTIVE T CELL THERAPY</b></p> <p>[54] <b>METHODES DE PREPARATION DE LYMPHOCYTES POUR THERAPIE PAR TRANSFERT ADOPTIF DE LYMPHOCYTES T</b></p> <p>[72] FORMAN, STEPHEN J., US</p> <p>[72] WANG, XIULI, US</p> <p>[71] CITY OF HOPE, US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-11-04 (PCT/US2016/060478)</p> <p>[87] (WO2017/079528)</p> <p>[30] US (62/251,620) 2015-11-05</p>	<p style="text-align: center;">[21] <b>3,004,301</b> [13] A1</p> <p>[51] <b>Int.Cl. E04G 11/36 (2006.01) E02D 27/02 (2006.01) E02D 27/08 (2006.01) E04G 9/05 (2006.01) E04G 9/10 (2006.01) E04G 15/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FOUNDATION FORM, DRAINAGE AND VENTILATION SYSTEM THEREFOR AND METHOD OF FORMING</b></p> <p>[54] <b>FORME DE FONDATIONS, SYSTEME DE VENTILATION ET DRAINAGE ASSOCIE ET PROCEDE DE FORMATION</b></p> <p>[72] MOYHER, CHARLES S., US</p> <p>[71] MOYHER, CHARLES S., US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-11-07 (PCT/US2016/000093)</p> <p>[87] (WO2017/078749)</p> <p>[30] US (62/251,264) 2015-11-05</p> <p>[30] US (62/394,368) 2016-09-14</p>	<p style="text-align: center;">[21] <b>3,004,303</b> [13] A1</p> <p>[51] <b>Int.Cl. C07C 5/333 (2006.01) B01J 29/42 (2006.01) B01J 38/10 (2006.01) C07C 2/50 (2006.01) C07C 9/15 (2006.01) C07C 13/15 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PROCESS FOR CONVERSION OF ACYCLIC C5 COMPOUNDS TO CYCLIC C5 COMPOUNDS AND CATALYST COMPOSITION FOR USE THEREIN</b></p> <p>[54] <b>PROCEDE DE CONVERSION DE COMPOSES C5 ACYCLIQUES EN COMPOSES C5 CYCLIQUES ET COMPOSITION CATALYTIQUE A UTILISER DANS CELUI-CI</b></p> <p>[72] IACCINO, LARRY L., US</p> <p>[72] BEDARD, JEREMY W., US</p> <p>[72] LAI, WENYIH F., US</p> <p>[72] CARR, ROBERT T., US</p> <p>[72] CHENG, JANE C., US</p> <p>[71] EXXONMOBIL CHEMICAL PATENTS INC., US</p> <p>[85] 2018-05-03</p> <p>[86] 2016-10-07 (PCT/US2016/056022)</p> <p>[87] (WO2017/078896)</p> <p>[30] US (62/250,675) 2015-11-04</p> <p>[30] EP (16153720.4) 2016-02-02</p>

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[21] **3,004,304**  
[13] A1

[51] **Int.Cl. A61F 13/532 (2006.01) A61F 13/534 (2006.01)**

[25] EN

[54] **THIN AND FLEXIBLE ABSORBENT ARTICLES**

[54] **ARTICLES ABSORBANTS SOUPLES ET MINCES**

[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US

[72] MORROW, CLINT ADAM, US

[72] HUBBARD, WADE MONROE, JR., US

[72] DUVAL, DEAN LARRY, US

[72] KIRKBRIDE, TANA MARIE, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2018-05-03

[86] 2016-11-04 (PCT/US2016/060561)

[87] (WO2017/079579)

[30] US (62/251,029) 2015-11-04

[21] **3,004,305**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/02 (2006.01) A61K 39/106 (2006.01) A61K 39/385 (2006.01) A61P 1/12 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **SYNTHETIC ANTIGEN CONSTRUCTS AGAINST CAMPYLOBACTER JEJUNI**

[54] **CONSTRUCTIONS D'ANTIGENES SYNTHETIQUES CONTRE CAMPYLOBACTER JEJUNI**

[72] GUERRY, PATRICIA, US

[72] JIAO, YUENING, CA

[72] MONTEIRO, MARIO ARTUR, CA

[72] PEQUEGNAT, BRITTANY MICHELE, CA

[71] THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY, US

[85] 2018-05-03

[86] 2016-11-03 (PCT/US2016/060361)

[87] (WO2017/079456)

[30] US (PCT/US2015/059315) 2015-11-05

[21] **3,004,306**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/705 (2006.01) C07K 16/30 (2006.01) C12N 5/10 (2006.01) C12N 15/79 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTORS TARGETING HER2**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES CIBLANT HER2**

[72] FORMAN, STEPHEN J., US

[72] PRICEMAN, SAUL J., US

[72] BROWN, CHRISTINE E., US

[71] FORMAN, STEPHEN J., US

[71] PRICEMAN, SAUL J., US

[71] BROWN, CHRISTINE E., US

[85] 2018-05-03

[86] 2016-11-04 (PCT/US2016/060724)

[87] (WO2017/079694)

[30] US (62/251,052) 2015-11-04

[21] **3,004,307**  
[13] A1

[51] **Int.Cl. A61L 29/16 (2006.01) A01N 31/02 (2006.01) A01N 37/44 (2006.01) A01N 43/54 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL SOLUTIONS WITH ENHANCED STABILITY**

[54] **SOLUTIONS ANTIMICROBIENNES A STABILITE AMELIOREE**

[72] ROSENBLATT, JOEL, US

[72] RAAD, ISSAM, US

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

[85] 2018-05-03

[86] 2016-11-04 (PCT/US2016/060571)

[87] (WO2017/079589)

[30] US (62/251,481) 2015-11-05

[21] **3,004,308**  
[13] A1

[51] **Int.Cl. C07C 5/333 (2006.01) B01J 29/74 (2006.01) B01J 35/10 (2006.01) C07C 2/50 (2006.01) C07C 9/15 (2006.01) C07C 13/15 (2006.01)**

[25] EN

[54] **PROCESS FOR CONVERSION OF ACYCLIC C5 COMPOUNDS TO CYCLIC C5 COMPOUNDS AND CATALYST COMPOSITION FOR USE THEREIN**

[54] **PROCEDE DE CONVERSION DE COMPOSES C5 ACYCLIQUES EN COMPOSES C5 CYCLIQUES ET COMPOSITION CATALYTIQUE POUR UTILISATION DANS CELUI-CI**

[72] IACCINO, LARRY L., US

[72] BEDARD, JEREMY W., US

[72] STROHMAIER, KARL G., US

[72] MERTENS, MACHTELD M. W., BE

[72] CARR, ROBERT T., US

[72] CHENG, JANE C., US

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2018-05-03

[86] 2016-10-07 (PCT/US2016/056023)

[87] (WO2017/078897)

[30] US (62/250,681) 2015-11-04

[30] EP (16153721.2) 2016-02-02

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[21] **3,004,309**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MANAGING AND MONITORING A COMPLIANCE PROGRAM FOR A PLURALITY OF HEALTHCARE ENTITIES**

[54] **SYSTEME ET PROCEDE PERMETTANT DE GERER ET DE SURVEILLER UN PROGRAMME DE CONFORMITE POUR UNE PLURALITE D'ENTITES DE SOINS DE SANTE**

[72] SHEPPARD, JULIE, US

[72] MILLER, LORIS, US

[72] BROOKS, JILL KRISTIN, US

[71] FIRST HEALTHCARE COMPLIANCE, LLC, US

[85] 2018-05-03

[86] 2016-11-09 (PCT/US2016/061136)

[87] (WO2017/083386)

[30] US (62/252,769) 2015-11-09

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[21] **3,004,310**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **COMBINATORIAL SETS OF NUCLEIC ACID BARCODES FOR ANALYSIS OF NUCLEIC ACIDS ASSOCIATED WITH SINGLE CELLS**

[54] **ENSEMBLES COMBINATOIRES DE CODES-BARRES D'ACIDES NUCLEIQUES POUR L'ANALYSE D'ACIDES NUCLEIQUES ASSOCIES A DES CELLULES UNIQUES**

[72] WITHEY, GARY, US

[71] ATRECA, INC., US

[85] 2018-05-03

[86] 2016-11-04 (PCT/US2016/060576)

[87] (WO2017/079593)

[30] US (62/250,900) 2015-11-04

[21] **3,004,311**  
[13] A1

[51] **Int.Cl. C23F 11/00 (2006.01) C23F 11/12 (2006.01) C23F 11/18 (2006.01)**

[25] EN

[54] **CORROSION CONTROL FOR WATER SYSTEMS USING TIN CORROSION INHIBITOR WITH A HYDROXYCARBOXYLIC ACID**

[54] **CONTROLE DE LA CORROSION POUR SYSTEMES HYDRAULIQUES METTANT EN ŒUVRE UN INHIBITEUR DE LA CORROSION A L'ETAIN AVEC UN ACIDE HYDROXYCARBOXYLIQUE**

[72] KALAKODIMI, RAJENDRA PRASAD, US

[72] TURNER, CURT, US

[72] WILLS-GUY, DEANN, US

[71] CHEMTREAT, INC., US

[85] 2018-05-03

[86] 2016-11-07 (PCT/US2016/000101)

[87] (WO2017/078755)

[30] US (14/933,655) 2015-11-05

[21] **3,004,312**  
[13] A1

[51] **Int.Cl. C09K 8/80 (2006.01) E21B 43/267 (2006.01)**

[25] EN

[54] **PRESSURE ACTIVATED CURABLE RESIN COATED PROPPANTS WITH HIGH OIL PERMEABILITY**

[54] **AGENTS DE SOUTENEMENT REVETUS DE RESINE DURCISSABLE ACTIVEE PAR PRESSION PRESENTANT UNE GRANDE PERMEABILITE AU PETROLE**

[72] PITCHUMANI, RAMANAN, US

[72] JOSYULA, KANTH, US

[72] RODRIGUEZ, ABRAHAM, US

[71] FAIRMOUNT SANTROL INC., US

[85] 2018-05-03

[86] 2016-11-07 (PCT/US2016/060777)

[87] (WO2017/083220)

[30] US (62/252,904) 2015-11-09

[21] **3,004,313**  
[13] A1

[51] **Int.Cl. A61F 13/534 (2006.01) A61F 13/53 (2006.01)**

[25] EN

[54] **ABSORBENT STRUCTURE**

[54] **STRUCTURE ABSORBANTE**

[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US

[72] MORROW, CLINT ADAM, US

[72] HUBBARD, WADE MONROE, JR., US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2018-05-03

[86] 2016-11-04 (PCT/US2016/060581)

[87] (WO2017/079597)

[30] US (62/251,064) 2015-11-04

[21] **3,004,314**  
[13] A1

[51] **Int.Cl. F16C 11/06 (2006.01) F16C 33/10 (2006.01)**

[25] EN

[54] **SOCKET ASSEMBLY**

[54] **ENSEMBLE D'EMBOITURE**

[72] PARKER, GLEN C., US

[72] BRETZ, KURT R., US

[71] FEDERAL-MOGUL MOTORPARTS LLC, US

[85] 2018-05-03

[86] 2016-11-10 (PCT/US2016/061213)

[87] (WO2017/083446)

[30] US (62/253,281) 2015-11-10

[30] US (15/209,100) 2016-07-13

[21] **3,004,315**  
[13] A1

[51] **Int.Cl. C09K 8/66 (2006.01) C09K 8/80 (2006.01)**

[25] EN

[54] **PRESSURE ACTIVATED CURABLE RESIN COATED PROPPANTS**

[54] **AGENTS DE SOUTENEMENT REVETUS DE RESINE DURCISSABLE ACTIVEE PAR PRESSION**

[72] PITCHUMANI, RAMANAN, US

[72] JOSYULA, KANTH, US

[72] RODRIGUEZ, ABRAHAM, US

[71] FAIRMOUNT SANTROL INC., US

[85] 2018-05-03

[86] 2016-11-07 (PCT/US2016/060779)

[87] (WO2017/083221)

[30] US (62/252,885) 2015-11-09

[21] **3,004,316**  
[13] A1

[51] **Int.Cl. C07C 5/333 (2006.01) B01J 29/74 (2006.01) B01J 29/88 (2006.01) C07C 2/50 (2006.01) C07C 9/15 (2006.01) C07C 13/15 (2006.01)**

[25] EN

[54] **PROCESS FOR CONVERSION OF ACYCLIC C5 COMPOUNDS TO CYCLIC C5 COMPOUNDS AND CATALYST COMPOSITION FOR USE THEREIN**

[54] **PROCEDE DE CONVERSION DE COMPOSES C5C ACYCLIQUES EN COMPOSES C5 CYCLIQUES ET COMPOSITION CATALYTIQUE UTILISEES DANS LE PROCEDE**

[72] IACCINO, LARRY L., US

[72] BEDARD, JEREMY W., US

[72] LAI, WENYIH F., US

[72] EVANS, CHRISTOPHER M., US

[72] CHENG, JANE C., US

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2018-05-03

[86] 2016-10-07 (PCT/US2016/056025)

[87] (WO2017/078898)

[30] US (62/250,688) 2015-11-04

[30] EP (16153722.0) 2016-02-02

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[21] **3,004,317**  
[13] A1

[51] **Int.Cl. B60G 21/055 (2006.01)**  
[25] EN  
[54] **SWAY BAR LINKAGE WITH BUSHING**  
[54] **TRINGLERIE DE BARRE STABILISATRICE A BAGUE**  
[72] HARVEY, RICHARD W., US  
[71] FEDERAL-MOGUL MOTORPARTS LLC, US  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/US2016/061216)  
[87] (WO2017/083448)  
[30] US (62/253,379) 2015-11-10  
[30] US (15/197,168) 2016-06-29

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[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/534 (2006.01) A61L 15/42 (2006.01) A61L 15/60 (2006.01)**  
[25] EN  
[54] **ABSORBENT STRUCTURE**  
[54] **STRUCTURE ABSORBANTE**  
[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US  
[72] MORROW, CLINT ADAM, US  
[72] DUVAL, DEAN LARRY, US  
[72] HUBBARD, WADE MONROE, JR., US  
[72] BELLUCCI, REMO, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-05-03  
[86] 2016-11-04 (PCT/US2016/060588)  
[87] (WO2017/079601)  
[30] US (62/250,825) 2015-11-04

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[21] **3,004,319**  
[13] A1

[51] **Int.Cl. G02B 6/00 (2006.01)**  
[25] EN  
[54] **METASURFACES FOR REDIRECTING LIGHT AND METHODS FOR FABRICATING METASURFACES POUR REDIRIGER LA LUMIERE ET PROCEDES DE FABRICATION**  
[54] **METASURFACES POUR REDIRIGER LA LUMIERE ET PROCEDES DE FABRICATION**  
[72] PEROZ, CHRISTOPHE, US  
[72] MELLI, MAURO, US  
[72] LIN, DIANMIN, US  
[72] POLIAKOV, EVGENI, US  
[72] ST. HILAIRE, PIERRE, US  
[71] MAGIC LEAP, INC., US  
[85] 2018-05-03  
[86] 2016-11-03 (PCT/US2016/060392)  
[87] (WO2017/079480)  
[30] US (62/252,315) 2015-11-06  
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[51] **Int.Cl. C07C 2/52 (2006.01) B01J 29/44 (2006.01) C07C 13/15 (2006.01) C07C 13/61 (2006.01)**  
[25] EN  
[54] **PROCESS AND SYSTEM FOR MAKING CYCLOPENTADIENE AND/OR DICYCLOPENTADIENE**  
[54] **PROCEDE ET SYSTEME DE FABRICATION DE CYCLOPENTADIENE ET/OU DE DICYCLOPENTADIENE**  
[72] IACCINO, LARRY L., US  
[72] LEUNG, KEVIN C.P., CN  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2018-05-03  
[86] 2016-10-07 (PCT/US2016/056030)  
[87] (WO2017/078900)  
[30] US (62/250,678) 2015-11-04  
[30] EP (16153725.3) 2016-02-02

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[51] **Int.Cl. B29C 51/10 (2006.01) B29C 41/00 (2006.01) B29C 41/02 (2006.01) B29C 41/22 (2006.01) B29C 41/34 (2006.01) B29C 41/36 (2006.01)**  
[25] EN  
[54] **PERSONAL WATERCRAFT FABRICATION USING THERMOFORMING**  
[54] **FABRICATION DE SCOOTER DES MERS PAR THERMOFORMAGE**  
[72] DARLING, JORDAN, US  
[71] FREE FORM FACTORY INC., US  
[85] 2018-05-03  
[86] 2016-11-16 (PCT/US2016/062351)  
[87] (WO2017/091416)  
[30] US (14/949,881) 2015-11-24

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[13] A1

[51] **Int.Cl. C07C 5/333 (2006.01) B01J 29/44 (2006.01) C07C 2/50 (2006.01) C07C 13/15 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF CYCLIC C5 COMPOUNDS**  
[54] **PRODUCTION DE COMPOSES CYCLIQUES EN C5**  
[72] IACCINO, LARRY L., US  
[72] BEDARD, JEREMY W., US  
[72] LAI, WENYIH F., US  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2018-05-03  
[86] 2016-10-07 (PCT/US2016/056033)  
[87] (WO2017/078901)  
[30] US (62/250,689) 2015-11-04  
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[13] A1

[51] **Int.Cl. C07C 2/52 (2006.01) B01J 29/44 (2006.01) C07C 7/04 (2006.01) C07C 13/15 (2006.01) C07C 13/61 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR MAKING CYCLOPENTADIENE AND/OR DICYCLOPENTADIENE**

[54] **PROCEDE ET SYSTEME DE FABRICATION DE CYCLOPENTADIENE ET/OU DE DICYCLOPENTADIENE**

[72] IACCINO, LARRY L., US

[72] LEUNG, KEVIN C.P., CN

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2018-05-03

[86] 2016-10-07 (PCT/US2016/056038)

[87] (WO2017/078902)

[30] US (62/250,692) 2015-11-04

[30] EP (16153728.7) 2016-02-02

[21] **3,004,325**  
[13] A1

[51] **Int.Cl. F21S 8/08 (2006.01) F21V 3/02 (2006.01) F21V 5/00 (2018.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR USE IN ASSOCIATION WITH LIGHTING SYSTEMS**

[54] **PROCEDES ET APPAREIL A UTILISER EN ASSOCIATION AVEC DES SYSTEMES D'ECLAIRAGE**

[72] ALMOSDI, PETER, HU

[72] ZSELLER, VIKTOR, HU

[72] PETER, AKOS, HU

[71] GE LIGHTING SOLUTIONS, LLC, US

[85] 2018-05-03

[86] 2016-11-10 (PCT/US2016/061218)

[87] (WO2017/083450)

[30] US (14/940,099) 2015-11-12

[21] **3,004,326**  
[13] A1

[51] **Int.Cl. A23L 3/36 (2006.01) A47J 36/08 (2006.01) B65D 81/18 (2006.01) F25D 3/08 (2006.01) F25D 3/11 (2006.01) F25D 17/06 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR AT LEAST SEMI-AUTONOMOUS MEAL STORAGE AND COOKING VIA FLUID IMMERSION**

[54] **APPAREILS ET PROCEDES POUR LE STOCKAGE ET LA CUISSON DE NOURRITURE AU MOINS SEMI-AUTONOME PAR IMMERSION DANS UN FLUIDE**

[72] LISS, ROBIN, US

[71] HOME TECH INNOVATION, INC, US

[85] 2018-05-03

[86] 2016-11-11 (PCT/US2016/061549)

[87] (WO2017/083664)

[30] US (62/253,795) 2015-11-11

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[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **OPTICAL CONNECTION TERMINALS FOR FIBER OPTIC COMMUNICATIONS NETWORKS**

[54] **BORNES DE CONNEXION OPTIQUE POUR RESEAUX DE COMMUNICATION A FIBRE OPTIQUE**

[72] COURCHAIINE, WINK, US

[72] VAUGHN, ROGER, US

[72] EBRAHIMI, VAHID, US

[71] AFL TELECOMMUNICATIONS LLC, US

[85] 2018-05-03

[86] 2016-11-10 (PCT/US2016/061334)

[87] (WO2017/083519)

[30] US (62/253,867) 2015-11-11

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[13] A1

[51] **Int.Cl. C22B 5/16 (2006.01) C22B 5/20 (2006.01)**

[25] EN

[54] **PROCESS FOR RECOVERING METALS**

[54] **PROCEDE DE RECUPERATION DE METAUX**

[72] EMMANUEL, NANTHAKUMAR VICTOR, CA

[72] KOVTUN, SERGE, CA

[72] KHOZAN, KAMRAN M., CA

[71] KHOZAN HOLDINGS INC., CA

[85] 2018-05-04

[86] 2016-11-04 (PCT/CA2016/000271)

[87] (WO2017/075693)

[30] US (62/252, 183) 2015-11-06

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[13] A1

[51] **Int.Cl. C07C 2/52 (2006.01) B01D 53/047 (2006.01) B01D 61/00 (2006.01) B01D 63/00 (2006.01) B01J 29/44 (2006.01) C07C 13/15 (2006.01) C07C 13/61 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR MAKING CYCLOPENTADIENE AND/OR DICYCLOPENTADIENE**

[54] **PROCEDE ET SYSTEME DE FABRICATION DE CYCLOPENTADIENE ET/OU DE DICYCLOPENTADIENE**

[72] IACCINO, LARRY L., US

[72] LEUNG, KEVIN, CN

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

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[86] 2016-10-07 (PCT/US2016/056041)

[87] (WO2017/078903)

[30] US (62/250,702) 2015-11-04

[30] EP (16153729.5) 2016-02-02

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[51] **Int.Cl. A61K 31/198 (2006.01) A61K 9/00 (2006.01) A61K 31/192 (2006.01) A61K 31/195 (2006.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01) C07C 57/32 (2006.01)**

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[54] **FORMULATIONS OF L-ORNITHINE PHENYLACETATE**

[54] **FORMULATION DE PHENYLACETATE DE L-ORNITHINE**

[72] WANG, LAURENE, US

[72] GRAIS, LINDA S., US

[72] BUKOFZER, STANLEY, US

[71] OCERA THERAPEUTICS, INC., US

[85] 2018-05-03

[86] 2016-11-11 (PCT/US2016/061678)

[87] (WO2017/083758)

[30] US (62/255,300) 2015-11-13

[30] US (62/276,754) 2016-01-08

[30] US (15/133,087) 2016-04-19

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[13] A1

[51] **Int.Cl. C07C 5/333 (2006.01) B01J 8/06 (2006.01) B01J 8/18 (2006.01) B01J 29/44 (2006.01) B01J 38/04 (2006.01) C07C 2/50 (2006.01) C07C 13/15 (2006.01)**

[25] EN

[54] **PROCESSES AND SYSTEMS FOR CONVERTING HYDROCARBONS TO CYCLOPENTADIENE**

[54] **PROCESSUS ET SYSTEMES DE CONVERSION D'HYDROCARBURES EN CYCLOPENTADIENE**

[72] IACCINO, LARRY L., US

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2018-05-03

[86] 2016-10-07 (PCT/US2016/056048)

[87] (WO2017/078905)

[30] US (62/250,697) 2015-11-04

[30] EP (16153727.9) 2016-02-02

[21] **3,004,334**  
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR LINKING CUSTOMER INTERACTIONS WITH CUSTOMER MESSAGING PLATFORMS**

[54] **PROCEDE ET APPAREIL PERMETTANT DE LIER DES INTERACTIONS DE CLIENT A DES PLATEFORMES DE MESSAGERIE DE CLIENT**

[72] KANNAN, PALLIPURAM V., US

[71] 24/7 CUSTOMER, INC., US

[85] 2018-05-03

[86] 2016-11-11 (PCT/US2016/061689)

[87] (WO2017/083765)

[30] US (62/255,243) 2015-11-13

[30] US (15/348,939) 2016-11-10

[21] **3,004,335**  
[13] A1

[51] **Int.Cl. H05K 1/02 (2006.01) H01L 39/22 (2006.01) H05K 1/03 (2006.01)**

[25] EN

[54] **CIRCUIT CARD ASSEMBLY AND METHOD OF PROVIDING SAME**

[54] **ENSEMBLE CARTE DE CIRCUIT IMPRIME ET SON PROCEDE DE PRODUCTION**

[72] CHRISTIANSEN, MARTIN BROKNER, US

[72] CHOROSINSKI, LEONARD GEORGE, US

[72] HEFFNER, H. CRAIG, US

[72] WAKAMIYA, STANLEY KATSUYOSHI, US

[72] KIRKWOOD, KEITH R., US

[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US

[85] 2018-05-03

[86] 2016-10-11 (PCT/US2016/056446)

[87] (WO2017/087093)

[30] US (14/943,299) 2015-11-17

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[13] A1

[51] **Int.Cl. C11D 1/835 (2006.01) C11D 1/62 (2006.01) C11D 1/68 (2006.01)**

[25] EN

[54] **LOW-FOAMING WAREWASH DETERGENT CONTAINING MIXED CATIONIC/NONIONIC SURFACTANT SYSTEM FOR ENHANCED OILY SOIL REMOVAL**

[54] **DETERGENT VAISSELLE PEU MOUSSANT, CONTENANT UN SYSTEME TENSIOACTIF MIXTE CATIONIQUE/NON IONIQUE POUR UNE MEILLEURE ELIMINATION DES SALISSURES HUILEUSES**

[72] DOTZAUER, DAVID, US

[72] FU, RICHARD, CN

[72] SANDERS, LISA, US

[72] ROERDINK-LANDER, MONIQUE, US

[72] MANSERGH, JOHN, US

[72] SILVERNAIL, CARTER, US

[72] LUEDTKE, MATTHEW, US

[71] ECOLAB USA INC., US

[85] 2018-05-03

[86] 2016-11-14 (PCT/US2016/061737)

[87] (WO2017/083798)

[30] CN (201510767603.9) 2015-11-12

[21] **3,004,337**  
[13] A1

[51] **Int.Cl. H05K 7/14 (2006.01)**

[25] EN

[54] **CIRCUIT CARD RACK SYSTEM AND METHOD**

[54] **SYSTEME DE BATI DE CARTES DE CIRCUIT IMPRIME ET PROCEDE**

[72] CHRISTIANSEN, MARTIN BROKNER, US

[72] CHOROSINSKI, LEONARD GEORGE, US

[72] HEFFNER, H. CRAIG, US

[72] WAKAMIYA, STANLEY KATSUYOSHI, US

[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US

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[86] 2016-10-12 (PCT/US2016/056616)

[87] (WO2017/087096)

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[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**  
[25] EN  
[54] **DISTRIBUTED, DECENTRALIZED DATA AGGREGATION**  
[54] **AGREGATION DE DONNEES DECENTRALISEES, DISTRIBUEES**  
[72] CALDWELL, JOHN RYAN, US  
[71] MX TECHNOLOGIES, INC., US  
[85] 2018-05-03  
[86] 2016-11-14 (PCT/US2016/061908)  
[87] (WO2017/083861)  
[30] US (62/254,708) 2015-11-12  
[30] US (62/280,070) 2016-01-18  
[30] US (15/167,650) 2016-05-27

[21] **3,004,339**  
[13] A1

[51] **Int.Cl. G01M 3/00 (2006.01) F17D 5/02 (2006.01)**  
[25] EN  
[54] **A METHOD AND SYSTEM FOR SIMULATING A LEAK IN A PIPELINE, AND AN OUTLET FOR COUPLING A CONDUIT TO A PIPELINE**  
[54] **PROCEDE ET SYSTEME POUR SIMULER UNE FUITE DANS UN PIPELINE, ET SORTIE POUR RACCORDER UN CONDUIT A UN PIPELINE**  
[72] HULL, JOHN, CA  
[72] JALILIAN, SEYED EHSAN, CA  
[72] PLETNYOV, OLEKSIY, CA  
[71] HIFI ENGINEERING INC., CA  
[85] 2018-05-04  
[86] 2016-11-03 (PCT/CA2016/051283)  
[87] (WO2017/075712)  
[30] US (62/251,521) 2015-11-05

[21] **3,004,341**  
[13] A1

[51] **Int.Cl. F16L 55/179 (2006.01) F16L 55/16 (2006.01) F16L 55/162 (2006.01) F16L 55/165 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR REPAIRING A PIPE JUNCTION**  
[54] **PROCEDE ET APPAREIL DE REPARATION D'UN RACCORD DE TUYAU**  
[72] KEST, LARRY W., US  
[71] LMK TECHNOLOGIES, LLC, US  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/US2016/061349)  
[87] (WO2017/083531)  
[30] US (62/253,199) 2015-11-10

[21] **3,004,342**  
[13] A1

[51] **Int.Cl. A61B 6/10 (2006.01) G21F 3/00 (2006.01)**  
[25] EN  
[54] **RADIATION PROTECTION SCREEN**  
[54] **PARAVENT DE RADIOPROTECTION**  
[72] VALADE, FREDERIC, FR  
[72] COURTAIS, HUGUES, FR  
[71] ARCITA, FR  
[85] 2018-05-03  
[86] 2016-11-07 (PCT/FR2016/052881)  
[87] (WO2017/077259)  
[30] FR (1560606) 2015-11-05

[21] **3,004,343**  
[13] A1

[51] **Int.Cl. C09C 1/40 (2006.01) C09C 1/30 (2006.01) C09C 3/00 (2006.01) C09C 3/06 (2006.01) C09C 3/08 (2006.01) C09C 3/12 (2006.01)**  
[25] FR  
[54] **SPHERICAL PARTICLES FILLED WITH COLOURING AGENTS**  
[54] **PARTICULES SPHERIQUES ET CHARGEES EN AGENTS COLORANTS**  
[72] MARCHIN, LOIC, FR  
[72] DESSE, MARIE-LAURE, FR  
[71] PYLOTE, FR  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/FR2016/052936)  
[87] (WO2017/081427)  
[30] FR (1560840) 2015-11-12

[21] **3,004,344**  
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DYNAMICALLY SELECTING CONTENT FOR ONLINE VISITORS**  
[54] **PROCEDE ET APPAREIL POUR SELECTIONNER DE MANIERE DYNAMIQUE UN CONTENU POUR DES VISITEURS EN LIGNE**  
[72] CHAKRABORTY, ABIR, IN  
[72] JOSHI, PRASHANT, IN  
[71] 24/7 CUSTOMER, INC., US  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/US2016/061380)  
[87] (WO2017/083554)  
[30] US (62/255,252) 2015-11-13  
[30] US (15/346,679) 2016-11-08

[21] **3,004,345**  
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) H04W 8/18 (2009.01) G06Q 30/02 (2012.01) H04W 4/021 (2018.01) G08B 21/24 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR IN-STORE PRESCRIPTION NOTIFICATIONS**  
[54] **TECHNIQUES DE NOTIFICATIONS D'ORDONNANCE EN MAGASIN**  
[72] HUMPHREYS, DUSTIN WAYNE, US  
[72] KUKREJA, VIJAY I., US  
[72] GUDIMETLA, DHARMENDRA, US  
[71] CVS PHARMACY, INC., US  
[85] 2018-02-06  
[86] 2016-08-17 (PCT/US2016/047325)  
[87] (WO2017/031195)  
[30] US (14/829,160) 2015-08-18

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[13] A1

[51] **Int.Cl. C09K 8/04 (2006.01) C09K 8/20 (2006.01) C09K 8/80 (2006.01) C09K 8/84 (2006.01) C09K 8/90 (2006.01)**  
[25] EN  
[54] **COATED PARTICLES AND METHODS OF MAKING AND USING THE SAME**  
[54] **PARTICULES REVETUES ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**  
[72] CHAN, RYAN NICHOLAS, US  
[72] WILLIAMS, DREW, US  
[72] MEREDITH, CALEB, US  
[72] HOLT, CHARLOTTE, US  
[72] SADEGHIFAR, HASAN, US  
[71] TETHIS, INC., US  
[85] 2018-05-03  
[86] 2016-11-18 (PCT/US2016/062773)  
[87] (WO2017/091463)  
[30] US (62/258,976) 2015-11-23  
[30] US (62/317,244) 2016-04-01  
[30] US (62/324,052) 2016-04-18  
[30] US (62/395,621) 2016-09-16

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[13] A1

[51] **Int.Cl. B01J 19/10 (2006.01) B01L 3/00 (2006.01) G01N 29/02 (2006.01)**

[25] EN  
[54] **ACOUSTIC WAVE SORTING**  
[54] **TRI D'ONDE ACOUSTIQUE**  
[72] WEITZ, DAVID A., US  
[72] UNG, WARREN LLOYD, US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2018-02-26  
[86] 2016-08-25 (PCT/US2016/048513)  
[87] (WO2017/035287)  
[30] US (62/210,899) 2015-08-27

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[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61K 31/437 (2006.01) A61K 31/4523 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN  
[54] **METHODS OF TREATING CANCER USING B-RAF INHIBITORS AND IMMUNE CHECKPOINT INHIBITORS**  
[54] **METHODS DE TRAITEMENT DU CANCER AU MOYEN D'INHIBITEURS DE B-RAF ET D'INHIBITEURS DE POINT DE CONTROLE IMMUNITAIRES**  
[72] COLBURN, DAWN, US  
[72] RICHIE, NICOLE, US  
[71] GENENTECH, INC., US  
[85] 2018-05-03  
[86] 2016-11-18 (PCT/US2016/062859)  
[87] (WO2017/087851)  
[30] US (62/257,645) 2015-11-19

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[51] **Int.Cl. C12N 15/90 (2006.01) A01K 67/027 (2006.01) A61K 35/28 (2015.01) A61K 48/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**

[25] EN  
[54] **METHODS AND COMPOSITIONS FOR ENGINEERING IMMUNITY**  
[54] **METHODS ET COMPOSITIONS POUR MODIFIER L'IMMUNITE**  
[72] HOLMES, MICHAEL C., US  
[72] RILEY, BRIGIT E., US  
[71] SANGAMO THERAPEUTICS, INC., US  
[85] 2018-05-03  
[86] 2016-11-21 (PCT/US2016/063146)  
[87] (WO2017/091512)  
[30] US (62/258,864) 2015-11-23  
[30] US (62/405,521) 2016-10-07

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[13] A1

[51] **Int.Cl. G01N 27/22 (2006.01) G01N 33/24 (2006.01) G01R 27/26 (2006.01)**

[25] EN  
[54] **METHODS AND DEVICES FOR NON-INVASIVE ROOT PHENOTYPING**  
[54] **PROCEDE ET DISPOSITIF POUR PHENOTYPAGE DE RACINE NON INVASIF**  
[72] BENFEY, PHILIP, US  
[72] WINDLE, JESSE, US  
[72] GOLDMAN, DANIEL, US  
[72] AGUILAR, JEFF, US  
[72] JOHNSON, LOGAN, US  
[71] HI FIDELITY GENETICS LLC, US  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/US2016/063417)  
[87] (WO2017/091622)  
[30] US (62/259,587) 2015-11-24

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[21] **3,004,351**  
[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01) B65D 77/30 (2006.01) B65D 83/08 (2006.01) B65F 1/00 (2006.01)**

[25] EN  
[54] **TRASH BAG APPARATUS**  
[54] **APPAREIL POUR SACS-POUBELLE**  
[72] CASTRO, DEJA S., US  
[71] RDC SYSTEMS, LLC, US  
[85] 2018-03-27  
[86] 2016-10-27 (PCT/US2016/059104)  
[87] (WO2017/079028)  
[30] US (62/251,159) 2015-11-05  
[30] US (15/193,972) 2016-06-27

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[21] **3,004,352**  
[13] A1

[51] **Int.Cl. B62B 5/02 (2006.01) A61G 5/06 (2006.01)**

[25] EN  
[54] **STAIR TRAVERSING DEVICE**  
[54] **DISPOSITIF PERMETTANT DE TRAVERSER UN ESCALIER**  
[72] NACCARATO, FRANCESCO, CA  
[71] QUANTUM ROBOTIC SYSTEMS INC., CA  
[85] 2018-05-04  
[86] 2016-11-22 (PCT/CA2016/051368)  
[87] (WO2017/088048)  
[30] US (62/258,741) 2015-11-23

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[21] **3,004,353**  
[13] A1

[51] **Int.Cl. F28D 21/00 (2006.01) F28B 9/06 (2006.01) G21C 9/012 (2006.01) G21C 15/18 (2006.01)**

[25] EN  
[54] **DEPRESSURIZATION AND COOLING SYSTEM FOR A CONTAINMENT OF A NUCLEAR POWER PLANT**  
[54] **SYSTEME DE DEPRESSURISATION ET DE REFROIDISSEMENT DESTINE A UNE ENCEINTE DE CONFINEMENT D'UNE CENTRALE NUCLEAIRE**  
[72] HILL, AXEL, DE  
[71] FRAMATOME GMBH, DE  
[85] 2018-05-04  
[86] 2015-11-09 (PCT/EP2015/076106)  
[87] (WO2017/080580)

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[21] **3,004,354**  
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01)**  
[25] EN  
[54] **HIGH FREQUENCY  
ULTRASOUND TRANSDUCER  
AND METHOD FOR  
MANUFACTURE**  
[54] **TRANSDUCTEUR A ULTRASON  
A HAUTE FREQUENCE ET  
PROCEDE DE FABRICATION**  
[72] CHAGGARES, NICHOLAS  
CHRISTOPHER, CA  
[72] IVANYTSKY, OLEG, CA  
[72] KOLAJA, ROBERT, CA  
[72] PANG, GUOFENG, CA  
[71] FUJIFILM SONOSITE, INC., US  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/US2016/063431)  
[87] (WO2017/091632)  
[30] US (62/260,213) 2015-11-25

[21] **3,004,355**  
[13] A1

[51] **Int.Cl. A47K 10/32 (2006.01) A47K  
10/38 (2006.01)**  
[25] EN  
[54] **DISPENSER FOR ROLLS**  
[54] **DISTRIBUTEUR DE ROULEAUX**  
[72] BENGTSSON, MATTIAS, SE  
[72] GANDEMO, TOMAS, SE  
[72] HJORT, ERIK, SE  
[72] POMMER, STIG, SE  
[72] KULLMAN, MARCUS, SE  
[71] SCA HYGIENE PRODUCTS AB, SE  
[85] 2018-05-04  
[86] 2015-11-16 (PCT/EP2015/076670)  
[87] (WO2017/084689)

[21] **3,004,356**  
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01)**  
[25] EN  
[54] **MEDICAL INSTRUMENT  
INCLUDING HIGH FREQUENCY  
ULTRASOUND TRANSDUCER  
ARRAY**  
[54] **INSTRUMENT MEDICAL  
COMPRENANT UN RESEAU DE  
TRANSDUCTEURS A ULTRASON  
HAUTE FREQUENCE**  
[72] CHAGGARES, NICHOLAS  
CHRISTOPHER, CA  
[72] HIRSON, DESMOND, CA  
[72] IVANYTSKY, OLEG, CA  
[72] KOLAJA, ROBERT, CA  
[72] PANG, GUOFENG, CA  
[71] FUJIFILM SONOSITE, INC., US  
[85] 2018-05-03  
[86] 2016-11-22 (PCT/US2016/063433)  
[87] (WO2017/091633)  
[30] US (62/260,219) 2015-11-25

[21] **3,004,357**  
[13] A1

[51] **Int.Cl. H02K 41/03 (2006.01) H01F  
27/28 (2006.01) H02K 3/04 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A  
COIL ASSEMBLY, COIL  
ASSEMBLY, STATOR, AND  
MULTI-DIMENSIONAL DRIVE**  
[54] **PROCEDE DE FABRICATION  
D'UN ENSEMBLE BOBINE,  
ENSEMBLE BOBINE, STATOR ET  
ENTRAINEMENT  
MULTIDIMENSIONNEL**  
[72] ALBRECHT, ANDREAS, DE  
[72] JUNKER, STEFAN, DE  
[72] KAMENSHCHIKOV, ILYA, DE  
[72] DAEHLING, STEFAN, DE  
[72] HENRICH, VOLKER, DE  
[72] HANISCH, MARKUS, DE  
[71] ROBERT BOSCH GMBH, DE  
[85] 2018-05-04  
[86] 2016-10-28 (PCT/EP2016/076026)  
[87] (WO2017/076761)  
[30] DE (10 2015 221 710.8) 2015-11-05  
[30] DE (10 2016 204 721.3) 2016-03-22  
[30] DE (10 2016 221 181.1) 2016-10-27

[21] **3,004,358**  
[13] A1

[51] **Int.Cl. A23D 7/00 (2006.01) A23D  
7/02 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PREPARING FAT  
CONTINUOUS EMULSIONS  
CONTAINING MIDSTOCK OR  
CREAM**  
[54] **PROCEDE DE PREPARATION  
D'EMULSIONS CONTINUES  
GRASSES CONTENANT UNE  
BASE SEMI-SOLIDE OU UNE  
CREME**  
[72] DE MAN, TEUNIS, NL  
[72] MELNIKOV, SERGEY  
MICHAILOVICH, DE  
[71] UNILEVER BCS LIMITED, GB  
[85] 2018-05-04  
[86] 2016-11-03 (PCT/EP2016/076573)  
[87] (WO2017/084886)  
[30] EP (15195607.5) 2015-11-20

[21] **3,004,359**  
[13] A1

[51] **Int.Cl. H04W 12/06 (2009.01) H04L  
29/06 (2006.01)**  
[25] EN  
[54] **SUPPORT OF EMERGENCY  
SERVICES OVER WLAN ACCESS  
TO 3GPP EVOLVED PACKET  
CORE FOR UNAUTHENTICATED  
USERS**  
[54] **PRISE EN CHARGE DE SERVICES  
D'URGENCE SUR UN ACCES  
WLAN A UN CŒUR DE PAQUET  
EVOLUE DE 3GPP POUR DES  
UTILISATEURS NON  
AUTHENTIFIES**  
[72] THIEBAUT, LAURENT, FR  
[72] LANDAIS, BRUNO, FR  
[72] DREVON, NICOLAS, FR  
[71] ALCATEL LUCENT, FR  
[85] 2018-05-04  
[86] 2016-11-03 (PCT/EP2016/076588)  
[87] (WO2017/076986)  
[30] EP (15306757.4) 2015-11-05

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[21] **3,004,360**  
[13] A1

[51] **Int.Cl. C07D 271/113 (2006.01) A01N 43/82 (2006.01)**

[25] EN

[54] **THERMODYNAMICALLY STABLE CRYSTAL MODIFICATION OF 2-METHYL-N-(5-METHYL-1,3,4-OXADIAZOLE-2-YL)-3-(METHYLSULFONYL)-4-(TRIFLUOROMETHYL)BENZAMIDE**

[54] **MODIFICATION CRISTALLINE THERMODYNAMIQUEMENT STABLE DU 2-METHYL-N-(5-METHYL-1,3,4-OXADIAZOL-2-YL)-3-(METHYLSULFONYL)-4-(TRIFLUOROMETHYL)BENZAMIDE**

[72] KOHN, ARNIM, DE

[72] ROSINGER, CHRISTOPHER HUGH, DE

[72] WALDRAFF, CHRISTIAN, DE

[72] OLENIK, BRITTA, DE

[72] KEIL, BIRGIT, DE

[72] MEHL, BENEDIKT, DE

[71] BAYER CROPSCIENCE AKTIENGESELLSCHAFT, DE

[85] 2018-05-04

[86] 2016-11-04 (PCT/EP2016/076620)

[87] (WO2017/080912)

[30] EP (15193615.0) 2015-11-09

[21] **3,004,361**  
[13] A1

[51] **Int.Cl. F24H 1/20 (2006.01) F24H 9/18 (2006.01) F24H 9/20 (2006.01)**

[25] EN

[54] **HEATABLE FLUID BAG**

[54] **SAC DE FLUIDE CHAUFFANT**

[72] AMATO, DAVID JOHN, NZ

[72] ZHANG, HUIQUAN, CN

[71] AMATO, DAVID JOHN, NZ

[71] ZHANG, HUIQUAN, CN

[85] 2018-05-04

[86] 2015-11-18 (PCT/CN2015/094877)

[87] (WO2017/079989)

[30] CN (201510774117.X) 2015-11-13

[21] **3,004,362**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/19 (2006.01) A61K 31/50 (2006.01)**

[25] EN

[54] **IMPROVED FORMULATIONS OF LEVOSIMENDAN FOR INTRAVENOUS ADMINISTRATION AS INFUSION OR INJECTION AND OF INFUSION CONCENTRATE**

[54] **FORMULATIONS AMELIOREES DE LEVOSIMENDANE POUR ADMINISTRATION INTRAVEINEUSE PAR PERFUSION OU INJECTION ET DE CONCENTRE POUR PERFUSION**

[72] WEILAND, ANDREA, DE

[71] CARINOPHARM GMBH, DE

[85] 2018-05-04

[86] 2016-11-04 (PCT/EP2016/076669)

[87] (WO2017/077032)

[30] EP (15193521.0) 2015-11-06

[21] **3,004,363**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/21 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING A BIOCOMPATIBLE AND BIODEGRADABLE POLYMER, NANOCARRIES AND A DRUG AND METHODS OF MAKING AND USING THE SAME**

[54] **COMPOSITION CONTENANT UN POLYMERE BIOCOMPATIBLE ET BIODEGRADABLE, DES NANOSUPPORTS ET UN MEDICAMENT, ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES**

[72] WACKER, MATTHIAS, DE

[72] BEYER, SUSANNE, DE

[72] PARNHAM, MICHAEL, DE

[72] MANTELE, WERNER, DE

[72] XIE, LI, DE

[72] VOGEL, VITALI, DE

[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2018-05-04

[86] 2016-11-04 (PCT/EP2016/076715)

[87] (WO2017/077066)

[30] EP (15193382.7) 2015-11-06

[21] **3,004,364**  
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/403 (2006.01) A61K 31/5377 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TRANSDERMAL DRUG DELIVERY**

[54] **SYSTEMES ET METHODES POUR L'ADMINISTRATION TRANSDERMIQUE DE MEDICAMENT**

[72] ROY, SAMIR, US

[71] ELLIPTICAL THERAPEUTICS, LLC, US

[85] 2018-05-03

[86] 2016-11-28 (PCT/US2016/063816)

[87] (WO2017/095730)

[30] US (62/260,980) 2015-11-30

[21] **3,004,365**  
[13] A1

[51] **Int.Cl. A62B 33/00 (2006.01)**

[25] EN

[54] **AVALANCHE PROTECTION DEVICE**

[54] **DISPOSITIF DE PROTECTION EN CAS D'AVALANCHE**

[72] STAUB, STEFAN, CH

[72] ROOS, THOMAS, CH

[72] GALLASCH, CLAUDIO, CH

[71] MAMALOHA GMBH, CH

[85] 2018-05-04

[86] 2016-11-04 (PCT/EP2016/076730)

[87] (WO2017/077074)

[30] CH (1609/15) 2015-11-05

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[21] **3,004,366**  
[13] A1

[51] **Int.Cl. A61K 31/57 (2006.01) A61P 25/32 (2006.01)**  
[25] EN  
[54] **NON-BIOCONVERTIBLE C3-SUBSTITUTED PREGNENOLONE DERIVATIVES FOR USE IN THE TREATMENT OF SUBSTANCE USE DISORDERS**  
[54] **DERIVES NON BIOCONVERTIBLES SUBSTITUES EN C3 DE LA PREGNENOLONE POUR UNE UTILISATION DANS LE TRAITEMENT DE TROUBLES ADDICTIFS**  
[72] KOOB, GEORGE F., US  
[72] JEAN MASON, BARBARA, US  
[72] GEORGE, OLIVIER, US  
[72] BAULIEU, ETIENNE, FR  
[72] VILLEY, ISABELLE, FR  
[71] MAPREG, FR  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/EP2016/076741)  
[87] (WO2017/077082)  
[30] EP (15306765.7) 2015-11-06

[21] **3,004,367**  
[13] A1

[51] **Int.Cl. B22C 1/02 (2006.01) B22C 9/02 (2006.01) C04B 35/628 (2006.01)**  
[25] EN  
[54] **MOLDING MATERIALS FOR NON-FERROUS CASTING**  
[54] **MATERIAUX A MOULER POUR PIECE COULEE NON FERREUSE**  
[72] WANG, XIANPING, US  
[72] STURTZ, GREGORY P., US  
[72] LOWE, KATHLEEN E., US  
[72] KROKER, JOERG, US  
[71] ASK CHEMICALS LLC, US  
[85] 2018-05-03  
[86] 2016-12-14 (PCT/US2016/066593)  
[87] (WO2017/106302)  
[30] US (62/269,499) 2015-12-18

[21] **3,004,368**  
[13] A1

[51] **Int.Cl. B32B 27/38 (2006.01) B32B 27/40 (2006.01) C08G 18/10 (2006.01) C08G 18/32 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08L 63/04 (2006.01) E21B 43/00 (2006.01) F16L 58/00 (2006.01)**  
[25] EN  
[54] **OIL SANDS LINER SYSTEM**  
[54] **SYSTEME DE REVETEMENT POUR SABLES BITUMINEUX**  
[72] CRIBB, JOHNATHAN ARTHUR, US  
[72] PETER, THOMAS HARALD, US  
[71] LANXESS SOLUTIONS US INC., US  
[85] 2018-05-03  
[86] 2016-12-20 (PCT/US2016/067660)  
[87] (WO2017/116819)  
[30] US (62/271,761) 2015-12-28

[21] **3,004,369**  
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/15 (2015.01) A61K 39/39 (2006.01) A61K 39/395 (2006.01) A61K 49/16 (2006.01) A61K 51/10 (2006.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**  
[25] EN  
[54] **COMBINATION OF HDAC INHIBITOR AND ANTI-PD-L1 ANTIBODY FOR TREATMENT OF OVARIAN CANCER**  
[54] **COMBINAISON D'INHIBITEUR DE HDAC ET D'ANTICORPS ANTI-PD-L1 POUR LE TRAITEMENT DE CANCER DES OVAIRES**  
[72] ORDENTLICH, PETER, US  
[72] MEYERS, MICHEL, US  
[71] SYNDAX PHARMACEUTICALS, INC., US  
[71] MERCK PATENT GMBH, DE  
[71] PFIZER INC., US  
[85] 2018-05-03  
[86] 2016-12-28 (PCT/US2016/068836)  
[87] (WO2017/117196)  
[30] US (62/271,914) 2015-12-28

[21] **3,004,370**  
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) C09K 8/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION OF MATTER AND USE THEREOF**  
[54] **COMPOSITION DE MATIERE ET SON UTILISATION**  
[72] DAVIES, EVAN LLOYD, US  
[72] VANLUE, DUKE, US  
[72] HOU, YANAN, US  
[72] LI, LIGUO, US  
[72] HUGHES, DAVID, US  
[71] DOWNHOLE TECHNOLOGY, LLC, US  
[85] 2018-05-03  
[86] 2017-07-03 (PCT/US2017/040611)  
[87] (WO2018/009485)  
[30] US (62/358,230) 2016-07-05  
[30] US (62/439,085) 2016-12-26

[21] **3,004,371**  
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/20 (2006.01) C08G 18/72 (2006.01) C08G 18/79 (2006.01) C08K 3/00 (2018.01)**  
[25] EN  
[54] **A CURABLE POLYURETHANE COMPOSITION FOR THE PREPARATION OF OUTDOOR ARTICLES, AND THE ARTICLES OBTAINED THEREFROM**  
[54] **COMPOSITION DE POLYURETHANE DURCISSABLE POUR LA PREPARATION D'ARTICLES D'EXTERIEUR, ET ARTICLES OBTENUS AVEC CELLE-CI**  
[72] BEISELE, CHRISTIAN, DE  
[72] CHEN, HONGYAN, CN  
[72] HISHIKAWA, SATORU, JP  
[71] HUNTSMAN ADVANCED MATERIALS LICENSING (SWITZERLAND) GMBH, CH  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/EP2016/076813)  
[87] (WO2017/089103)  
[30] CN (PCT/CN2015/095284) 2015-11-23

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[21] **3,004,372**  
[13] A1

[51] **Int.Cl. C07D 409/12 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 239/48 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN  
[54] **PYRIMIDINE DERIVATIVE AND USE THEREOF**  
[54] **DERIVE PYRIMIDINE ET SON UTILISATION**

[72] WANG, XUEHAI, CN  
[72] XU, YONG, CN  
[72] SHENG, XIJUN, CN  
[72] ZHANG, XIAOLIN, CN  
[72] XIA, HANGUI, CN  
[72] YANG, ZHONGWEN, CN  
[72] YUE, YANG, CN  
[72] HUANG, LU, CN  
[72] XIAO, QIANG, CN  
[71] HUBEI BIO-PHARMACEUTICAL INDUSTRIAL TECHNOLOGICAL INSTITUTE INC., CN  
[71] HUMANWELL HEALTHCARE (GROUP) CO., LTD., CN

[85] 2018-05-04  
[86] 2016-11-04 (PCT/CN2016/104723)  
[87] (WO2017/076355)  
[30] CN (201510744839.0) 2015-11-05  
[30] CN (201610404608.X) 2016-06-08  
[30] CN (201610675909.6) 2016-08-16

[21] **3,004,373**  
[13] A1

[51] **Int.Cl. A23D 7/00 (2006.01) A23D 7/04 (2006.01) A23D 7/05 (2006.01)**

[25] EN  
[54] **PROCESS FOR PREPARING FAT CONTINUOUS EMULSIONS**  
[54] **PROCEDE DE PREPARATION D'EMULSION CONTINUE GRASSE**

[72] DE MAN, TEUNIS, NL  
[72] MEEUSE, FREDERIK MICHIEL, NL  
[71] UNILEVER BCS LIMITED, GB

[85] 2018-05-04  
[86] 2016-11-08 (PCT/EP2016/076919)  
[87] (WO2017/084909)  
[30] EP (15195612.5) 2015-11-20

[21] **3,004,374**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 1/30 (2006.01)**

[25] EN  
[54] **TOMOGRAPHIC IMAGING METHOD**  
[54] **METHODE D'IMAGERIE TOMOGRAPHIQUE**

[72] ZENG, SHAOQUN, CN  
[72] LUO, QINGMING, CN  
[72] XIONG, HANQING, CN  
[72] GUO, WENYAN, CN  
[72] LV, XIAOHUA, CN  
[71] HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, CN

[85] 2018-05-04  
[86] 2017-10-20 (PCT/CN2017/106964)  
[87] (WO2018/077114)  
[30] CN (201610967373.5) 2016-10-31

[21] **3,004,375**  
[13] A1

[51] **Int.Cl. B04C 5/14 (2006.01) B04C 5/081 (2006.01) B04C 5/15 (2006.01) B04C 5/18 (2006.01) B04C 5/185 (2006.01) B04C 5/26 (2006.01) B04C 9/00 (2006.01)**

[25] EN  
[54] **CYCLONE SYSTEM**  
[54] **SYSTEME CYCLONIQUE**

[72] BOLTERSDORF, HANS-JOACHIM, DE  
[71] BOLTERSDORF, HANS-JOACHIM, DE

[85] 2018-05-04  
[86] 2016-11-07 (PCT/DE2016/000388)  
[87] (WO2017/076384)  
[30] DE (10 2015 014 285.2) 2015-11-06  
[30] DE (10 2016 007 548.1) 2016-06-22

[21] **3,004,376**  
[13] A1

[51] **Int.Cl. A61C 13/30 (2006.01)**

[25] EN  
[54] **INTRARRADICULAR PIN WITH AN ANCHOR SHAPE LOWER END**  
[54] **TENON-ANCRE INTRARADICULAIRE**

[72] FELIZ MATOS, LEANDRO EDGARDO, DO  
[72] MANCEBO PACHECO, ELVIN ALBERTO, DO  
[72] PEREYRA GUERRERO, DULCE CONCEPCION, DO  
[71] UNIVERSIDAD IBEROAMERICANA, UNIBE, DO  
[71] FELIZ MATOS, LEANDRO EDGARDO, DO  
[71] MANCEBO PACHECO, ELVIN ALBERTO, DO  
[71] PEREYRA GUERRERO, DULCE CONCEPCION, DO

[85] 2018-05-04  
[86] 2016-11-02 (PCT/DO2016/000003)  
[87] (WO2017/076417)  
[30] DO (P2015-0272) 2015-11-05

[21] **3,004,377**  
[13] A1

[51] **Int.Cl. B23C 5/10 (2006.01)**

[25] EN  
[54] **MACHINING TOOL**  
[54] **OUTIL D'USINAGE PAR ENLEVEMENT DE COPEAUX**

[72] WORMANN, PHILIPP, DE  
[72] HERMBUSCHE, GUNTER, DE  
[71] ALBERT KNEBEL HOLDING GMBH, DE

[85] 2018-05-04  
[86] 2016-11-08 (PCT/EP2016/076955)  
[87] (WO2017/080990)  
[30] DE (20 2015 106 056.4) 2015-11-10

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[21] **3,004,378**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHOD FOR CHARACTERIZATION OF CELL SPECIFIC MICROVESICLES**  
[54] **PROCEDE DE CARACTERISATION DE MICROVESICULES CELLULAIRES SPECIFIQUES**  
[72] CONDORELLI, GIANLUIGI, IT  
[72] ANSELMO, ACHILLE, IT  
[72] VIVIANI ANSELM, CHIARA, IT  
[72] PAPA, LAURA, IT  
[71] HUMANITAS MIRASOLE S.P.A., IT  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/EP2016/076810)  
[87] (WO2017/077105)  
[30] EP (15193500.4) 2015-11-06

[21] **3,004,379**  
[13] A1

[51] **Int.Cl. B29C 55/06 (2006.01) B26F 1/26 (2006.01) B32B 3/08 (2006.01) B32B 3/16 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR PERFORATING A FILM OF PLASTIC MATERIAL**  
[54] **PROCEDE ET APPAREIL POUR PERFORER UN FILM EN MATIERE PLASTIQUE**  
[72] PELLENGO GATTI, ROBERTO, IT  
[72] GNAPPA, MAURIZIO, IT  
[71] NO.EL. S.R.L., IT  
[85] 2018-05-04  
[86] 2016-11-08 (PCT/EP2016/076971)  
[87] (WO2017/081000)  
[30] IT (UB2015A005364) 2015-11-09

[21] **3,004,380**  
[13] A1

[51] **Int.Cl. C23C 4/02 (2006.01) C23C 4/01 (2016.01)**  
[25] EN  
[54] **A METHOD FOR MASKING A COMPONENT TO BE COATED WITH A THERMAL SPRAY COATING**  
[54] **PROCEDE POUR MASQUER UNE PIECE DEVANT ETRE REVETUE D'UNE COUCHE PULVERISEE A CHAUD**  
[72] MICHLA, ALEXANDER, DE  
[72] GASTEL, PHILIPP, DE  
[72] SOLLBERGER, ALEXANDER, CH  
[72] STOCKLI, MARTIN, CH  
[71] OERLIKON METCO AG, WOHLN, CH  
[85] 2018-05-04  
[86] 2016-11-09 (PCT/EP2016/077167)  
[87] (WO2017/081098)  
[30] EP (15194293.5) 2015-11-12

[21] **3,004,381**  
[13] A1

[51] **Int.Cl. A61K 47/08 (2006.01) A61K 31/573 (2006.01) A61K 31/58 (2006.01) A61K 38/38 (2006.01) A61K 39/395 (2006.01) A61K 47/14 (2017.01) A61K 47/34 (2017.01)**  
[25] EN  
[54] **OCULAR COMPOSITIONS**  
[54] **COMPOSITIONS OCULAIRES**  
[72] THAKUR, RAGHU RAJ SINGH, GB  
[72] JONES, DAVID, GB  
[72] GUJRAL, CHIRAG, GB  
[71] THE QUEEN'S UNIVERSITY OF BELFAST, GB  
[85] 2018-05-04  
[86] 2016-11-10 (PCT/EP2016/077269)  
[87] (WO2017/081154)  
[30] GB (1519811.2) 2015-11-10

[21] **3,004,382**  
[13] A1

[51] **Int.Cl. A21D 8/02 (2006.01) A23L 7/178 (2016.01) A23P 30/20 (2016.01) A23P 30/34 (2016.01) A21C 1/00 (2006.01) A21C 11/20 (2006.01) A21D 13/00 (2017.01) A21D 13/06 (2017.01)**  
[25] EN  
[54] **FOAMED, DOUGH-BASED FOOD AND APPARATUS AND METHOD FOR PRODUCTION THEREOF AND USE OF THE APPARATUS**  
[54] **MOUSSE DE PRODUIT ALIMENTAIRE A BASE DE PATE AINSI QUE DISPOSITIF ET PROCEDE DE PRODUCTION DE CELUI-CI ET UTILISATION DU DISPOSITIF**  
[72] LAMMERS, VOLKER, CH  
[72] WINDHAB, ERICH, CH  
[71] EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH, CH  
[71] ROLAND MURTEN AG, CH  
[85] 2018-05-04  
[86] 2016-11-11 (PCT/EP2016/077462)  
[87] (WO2017/081271)  
[30] DE (10 2015 119 543.7) 2015-11-12  
[30] DE (10 2016 111 518.5) 2016-06-23

[21] **3,004,383**  
[13] A1

[51] **Int.Cl. C08L 23/12 (2006.01) C08K 3/34 (2006.01) C08L 23/16 (2006.01)**  
[25] EN  
[54] **HIGH FLOW TPO COMPOSITION WITH EXCELLENT LOW TEMPERATURE IMPACT**  
[54] **COMPOSITION DE TPO A ECOULEMENT ELEVE PRESENTANT UN EXCELLENT IMPACT A TEMPERATURE BASSE**  
[72] GRESTENBERGER, GEORG, AT  
[72] SANDHOLZER, MARTINA, AT  
[71] BOREALIS AG, AT  
[85] 2018-05-04  
[86] 2016-11-17 (PCT/EP2016/078025)  
[87] (WO2017/085195)  
[30] EP (15194956.7) 2015-11-17

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[21] **3,004,384**  
[13] A1

[51] **Int.Cl. C12P 13/04 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING AMINOBENZOIC ACID OR AN AMINOBENZOIC ACID DERIVATIVE**

[54] **PROCEDE DE PRODUCTION D'ACIDE AMINOBENZOIQUE OU D'UN DERIVE D'ACIDE AMINOBENZOIQUE**

[72] JAGER, GERNOT, DE  
[72] BECKMANN, WOLFGANG, DE  
[72] MOUSSA, AMGAD-SALAH, DE  
[72] OLF, GUENTER, DE  
[72] BECKER, GUIDO, DE  
[72] AKYILDIZ, HASAN, DE  
[72] DAMM, ANDREAS, DE  
[72] HAMEDINGER, THOMAS, DE  
[72] KLOECKNER, WOLF, DE  
[72] BEHNKEN, SWANTJE, DE  
[71] COVESTRO DEUTSCHLAND AG, DE  
[85] 2018-05-04  
[86] 2016-11-17 (PCT/EP2016/077963)  
[87] (WO2017/085170)  
[30] EP (15195527.5) 2015-11-20

[21] **3,004,385**  
[13] A1

[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/16 (2006.01) C08G 18/44 (2006.01) C08G 18/48 (2006.01)**

[25] EN  
[54] **POLYURETHANE FOAMS BASED ON POLYETHER CARBONATE POLYOLS**

[54] **MOUSSES DE POLYURETHANE A BASE DE POLYETHERCARBONATE POLYOLS**

[72] GOSSNER, MATTHAUS, DE  
[72] BRASSAT, LUTZ, DE  
[72] KLESCZEWSKI, BERT, DE  
[71] COVESTRO DEUTSCHLAND AG, DE  
[85] 2018-05-04  
[86] 2016-11-17 (PCT/EP2016/078033)  
[87] (WO2017/085201)  
[30] EP (15195288.4) 2015-11-19

[21] **3,004,386**  
[13] A1

[51] **Int.Cl. C07D 249/06 (2006.01) A61P 31/04 (2006.01) B63B 59/04 (2006.01)**

[25] EN  
[54] **BIS-TRIAZOLE COMPOUNDS WITH ANTI-BIOFILM AND ANTI-CORROSION PROPERTIES**

[54] **COMPOSES DE BIS-TRIAZOLE PRESENTANT DES PROPRIETES ANTI-BIOFILM ET ANTI-CORROSION**

[72] ANDJOUH, SOFYANE, FR  
[72] PERRIN, FRANCOIS-XAVIER, FR  
[72] BLACHE, YVES GUY, FR  
[71] UNIVERSITE DE TOULON, FR  
[85] 2018-05-04  
[86] 2016-12-14 (PCT/EP2016/081068)  
[87] (WO2017/102883)  
[30] IB (PCT/IB2015/002582) 2015-12-14

[21] **3,004,387**  
[13] A1

[51] **Int.Cl. B60R 3/02 (2006.01)**

[25] EN  
[54] **DRIVE ARRANGEMENT**

[54] **AGENCEMENT D'ENTRAINEMENT**

[72] COX, ANTHONY MARTIN, GB  
[71] ASG GROUP LTD, GB  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/GB2016/053398)  
[87] (WO2017/085456)  
[30] GB (1520249.2) 2015-11-17

[21] **3,004,388**  
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G01J 3/28 (2006.01)**

[25] EN  
[54] **A METHOD FOR AERIAL IMAGERY ACQUISITION AND ANALYSIS**

[54] **PROCEDE D'ACQUISITION ET D'ANALYSE D'IMAGERIE AERIENNE**

[72] DVIR, IRA, IL  
[72] RABINOWITZ BATZ, NITZAN, IL  
[71] AGROWING LTD, IL  
[85] 2018-05-04  
[86] 2016-11-08 (PCT/IL2016/051205)  
[87] (WO2017/077543)  
[30] US (62/252,513) 2015-11-08

[21] **3,004,389**  
[13] A1

[51] **Int.Cl. C09K 11/61 (2006.01)**

[25] FR  
[54] **SOL-GEL PROCESS FOR SYNTHESISING A LUMINESCENT MATERIAL WITH GENERAL FORMULATION: AXBYFZ : MN**

[54] **PROCEDE SOL-GEL DE SYNTHESE D'UN MATERIAU LUMINESCENT DE FORMULATION GENERALE : AXBYFZ : MN**

[72] BARROS, ANTHONY, FR  
[72] DELONCLE, RODOLPHE, FR  
[72] DESCHAMPS, JEROME, FR  
[72] CHADEYRON, GENEVIEVE, FR  
[72] BOYER, DAMIEN, FR  
[72] BOUTINAUD, PHILIPPE, FR  
[71] LINXENS HOLDING, FR  
[71] UNIVERSITE BLAISE PASCAL CLERMONT II, FR  
[71] SIGMA CLERMONT, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[85] 2018-05-03  
[86] 2016-11-10 (PCT/FR2016/052938)  
[87] (WO2017/081428)  
[30] FR (1560857) 2015-11-13

[21] **3,004,391**  
[13] A1

[51] **Int.Cl. C21D 1/00 (2006.01) C22F 1/10 (2006.01)**

[25] FR  
[54] **DEVICE FOR GENERATING A STRUCTURAL-GRADIENT MICROSTRUCTURE ON AN AXISYMMETRIC PART**

[54] **DISPOSITIF DE GENERATION D'UNE MICROSTRUCTURE A GRADIENT DE STRUCTURE SUR UNE PIECE AXISYMETRIQUE**

[72] FRANCHET, JEAN-MICHEL  
PATRICK MAURICE, FR  
[72] KLEIN, GILLES CHARLES  
CASIMIR, FR  
[71] SAFRAN, FR  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/FR2016/052859)  
[87] (WO2017/077248)  
[30] FR (1560653) 2015-11-06



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[21] **3,004,392**  
[13] A1

[51] **Int.Cl. A21B 7/00 (2006.01) A21B 5/00 (2006.01) A21C 14/00 (2006.01)**

[25] EN

[54] **AUTOMATED PREPARATION OF BREADS**

[54] **PREPARATION AUTOMATISEE DE PAINS**

[72] AGARWAL, MUKESH, IN

[72] SHARMA, ARVIND KUMAR, IN

[71] AGARWAL, MUKESH, IN

[85] 2018-05-04

[86] 2016-11-04 (PCT/IN2016/050383)

[87] (WO2017/077554)

[30] IN (4231/MUM/2015) 2015-11-06

[21] **3,004,393**  
[13] A1

[51] **Int.Cl. C01B 3/06 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR OBTAINING A MIXTURE FOR PRODUCING H<sub>2</sub>, CORRESPONDING MIXTURE**

[54] **PROCEDE ET APPAREIL POUR OBTENIR UN MELANGE POUR LA PRODUCTION DE H<sub>2</sub>, MELANGE CORRESPONDANT**

[72] LUGTIGHEID, GERARDUS WILHELMUS, NL

[71] H2FUEL-SYSTEMS B.V., NL

[85] 2018-05-04

[86] 2016-11-07 (PCT/NL2016/050775)

[87] (WO2017/078533)

[30] NL (2015739) 2015-11-06

[30] NL (2016379) 2016-03-07

[21] **3,004,394**  
[13] A1

[51] **Int.Cl. G01D 5/353 (2006.01) G01B 11/16 (2006.01)**

[25] EN

[54] **OPTOELECTRONIC DISTRIBUTED MEASURING DEVICE BASED ON BRILLOUIN SCATTERING**

[54] **DISPOSITIF OPTOELECTRONIQUE DE MESURE REPARTIE PAR DIFFUSION BRILLOUIN**

[72] LANTICQ, VINCENT, FR

[71] FEBUS OPTICS, FR

[85] 2018-05-04

[86] 2016-11-04 (PCT/FR2016/052870)

[87] (WO2017/077257)

[30] FR (1560681) 2015-11-06

[21] **3,004,395**  
[13] A1

[51] **Int.Cl. F02B 31/00 (2006.01) F02M 35/10 (2006.01) F02M 35/104 (2006.01) F02M 35/112 (2006.01)**

[25] EN

[54] **AIR INTAKE DEVICE FOR INTERNAL COMBUSTION ENGINE**

[54] **DISPOSITIF D'ADMISSION D'AIR POUR MOTEUR A COMBUSTION INTERNE**

[72] OOKI, OSAMU, JP

[71] NISSAN MOTOR CO., LTD., JP

[85] 2018-05-04

[86] 2015-11-20 (PCT/JP2015/082655)

[87] (WO2017/085856)

[21] **3,004,396**  
[13] A1

[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **TRANSACTION AUTHORIZATION**

[54] **AUTORISATION DE TRANSACTION**

[72] GRAHAM, LEWIS, GB

[71] VISA EUROPE LIMITED, GB

[85] 2018-05-04

[86] 2016-11-07 (PCT/GB2016/053465)

[87] (WO2017/077337)

[30] GB (1519676.9) 2015-11-06

[21] **3,004,398**  
[13] A1

[51] **Int.Cl. A61K 31/155 (2006.01) A61K 47/18 (2017.01) A61K 47/20 (2006.01) A61K 47/32 (2006.01) A61P 17/00 (2006.01) A61P 31/02 (2006.01)**

[25] EN

[54] **SKIN DISINFECTANT COMPOSITION**

[54] **COMPOSITION DESINFECTANTE POUR LA PEAU**

[72] SHIOZAKI, MARI, JP

[72] TSUBAKIYAMA, RYOHEI, JP

[72] KIKUCHI, MOTOYA, JP

[72] IMAI, KAORU, JP

[72] HAGI, AKIFUMI, JP

[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP

[85] 2018-05-04

[86] 2016-11-30 (PCT/JP2016/005015)

[87] (WO2017/098702)

[30] JP (2015-238403) 2015-12-07

[21] **3,004,399**  
[13] A1

[51] **Int.Cl. F16C 33/60 (2006.01) F16C 19/18 (2006.01)**

[25] EN

[54] **MULTI-ROW BALL BEARING**

[54] **ROULEMENT A BILLES A RANGEES MULTIPLES**

[72] SAKAGUCHI YUKI, JP

[71] NSK LTD., JP

[85] 2018-05-04

[86] 2016-11-11 (PCT/JP2016/083602)

[87] (WO2017/082421)

[30] JP (2015-223210) 2015-11-13

[30] JP (2016-038899) 2016-03-01

[21] **3,004,400**  
[13] A1

[51] **Int.Cl. C01B 3/06 (2006.01) C01B 6/17 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING METAL BOROHYDRIDE AND MOLECULAR HYDROGEN**

[54] **PROCEDE DE PRODUCTION DE BOROHYDRURE METALLIQUE ET D'HYDROGENE MOLECULAIRE**

[72] LUGTIGHEID, GERARDUS WILHELMUS, NL

[71] H2FUEL CASCADE B.V., NL

[85] 2018-05-04

[86] 2016-11-07 (PCT/NL2016/050776)

[87] (WO2017/078534)

[30] NL (2015742) 2015-11-06

[30] NL (2016374) 2016-03-07

[21] **3,004,402**  
[13] A1

[51] **Int.Cl. B62B 3/02 (2006.01) B60D 1/00 (2006.01) B62B 5/00 (2006.01)**

[25] EN

[54] **CONNECTABLE DOLLY**

[54] **CHARIOT POUVANT ETRE RACCORDE**

[72] STAHL, EDWARD L., US

[72] MAY, ERIC P., US

[71] ORBIS CORPORATION, US

[85] 2018-05-04

[86] 2016-11-07 (PCT/US2016/000098)

[87] (WO2017/078753)

[30] US (62/252,256) 2015-11-06

[30] US (62/252,955) 2015-11-09

[30] US (62/275,102) 2016-01-05

[30] US (62/310,495) 2016-03-18

[30] US (62/367,283) 2016-07-27

[30] US (62/375,194) 2016-08-15

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[21] **3,004,403**  
[13] A1

[51] **Int.Cl. C09K 8/588 (2006.01) C09K 8/58 (2006.01)**

[25] EN

[54] **MODIFIED BIOPOLYMERS FOR DIVERSION, CONFORMANCE, AND FLUID LOSS CONTROL**

[54] **BIOPOLYMERES MODIFIES A DES FINS DE DEVIATION, DE CONFORMITE ET DE REGULATION DES PERTES DE FLUIDE**

[72] BELAKSHE, RAVIKANT S., IN

[72] MEHER, PRATIKSHA SHIVAJI, IN

[72] EOFF, LARRY STEVEN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-05-04

[86] 2015-12-18 (PCT/US2015/066565)

[87] (WO2017/105475)

[21] **3,004,404**  
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **ROTARY CUTTER FOR PREPARING THE ACETABULAR SOCKET FOR A HIP IMPLANT**

[54] **OUTIL DE COUPE ROTATIF POUR PREPARER LA CAVITE ACETABULAIRE POUR IMPLANT DE HANCHE**

[72] WOZENCROFT, ROBERT, GB

[71] EMBODY ORTHOPAEDIC LIMITED, GB

[85] 2018-05-04

[86] 2016-11-07 (PCT/GB2016/053474)

[87] (WO2017/077340)

[30] GB (1519624.9) 2015-11-06

[21] **3,004,405**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01) H04W 72/04 (2009.01)**

[25] EN

[54] **METHODS AND APPARATUSES FOR CONFIGURATION OF MEASUREMENT RESTRICTIONS**

[54] **PROCEDES ET APPAREILS DE CONFIGURATION DE RESTRICTIONS DE MESURE**

[72] FRENNE, MATTIAS, SE

[72] HARRISON, ROBERT MARK, US

[72] GAO, SHIWEI, CA

[72] MURUGANATHAN, SIVA, CA

[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2018-05-04

[86] 2016-11-03 (PCT/SE2016/051081)

[87] (WO2017/078601)

[30] US (62/250,607) 2015-11-04

[21] **3,004,406**  
[13] A1

[51] **Int.Cl. A61F 2/46 (2006.01)**

[25] EN

[54] **HOLDER FOR RESURFACING HEAD IMPLANT**

[54] **SUPPORT POUR IMPLANT DE RESURFACAGE DE TETE**

[72] WOZENCROFT, ROBERT, GB

[71] EMBODY ORTHOPAEDIC LIMITED, GB

[85] 2018-05-04

[86] 2016-11-07 (PCT/GB2016/053476)

[87] (WO2017/077342)

[30] GB (1519629.8) 2015-11-06

[21] **3,004,407**  
[13] A1

[51] **Int.Cl. B60G 13/00 (2006.01) B60G 13/14 (2006.01) B60K 25/10 (2006.01) F03B 13/00 (2006.01) F03G 7/00 (2006.01) F03G 7/08 (2006.01) F15B 1/027 (2006.01) F16F 15/023 (2006.01)**

[25] EN

[54] **VEHICLE COMPRISING ENERGY HARVESTING SUSPENSION SYSTEM, AND METHOD FOR CONVERTING MECHANICAL ENERGY INTO ELECTRICAL ENERGY**

[54] **VEHICULE COMPRENANT UN SYSTEME DE SUSPENSION A COLLECTE D'ENERGIE, ET PROCEDE DE CONVERSION D'ENERGIE MECANIQUE EN ENERGIE ELECTRIQUE**

[72] KASKOWICZ, MATTHEW ALAN, US

[71] KASKOWICZ, MATTHEW ALAN, US

[85] 2018-05-04

[86] 2016-11-07 (PCT/US2016/000106)

[87] (WO2017/078760)

[30] US (62/252,046) 2015-11-06

[21] **3,004,408**  
[13] A1

[51] **Int.Cl. A61B 3/103 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR MAKING A DETERMINATION ABOUT AN EYE IN AMBIENT LIGHTING CONDITIONS**

[54] **PROCEDES ET APPAREIL PERMETTANT D'EFFECTUER UNE DETERMINATION CONCERNANT UN ŒIL DANS DES CONDITIONS D'ECLAIRAGE AMBIANT**

[72] BAILEY, MELISSA D., US

[71] OHIO STATE INNOVATION FOUNDATION, US

[85] 2018-05-04

[86] 2015-11-06 (PCT/US2015/059529)

[87] (WO2016/073887)

[30] US (62/076,804) 2014-11-07

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[21] **3,004,409**  
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01)**  
[25] EN  
[54] **ROTARY CUTTER FOR PREPARING THE FEMUR BONE FOR A RESURFACING HIP IMPLANT**  
[54] **COUTEAU ROTATIF POUR PREPARER LE FEMUR POUR UN IMPLANT DE HANCHE DE RESURFACAGE**  
[72] WOZENCROFT, ROBERT, GB  
[71] EMBODY ORTHOPAEDIC LIMITED, GB  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/GB2016/053478)  
[87] (WO2017/077344)  
[30] GB (1519630.6) 2015-11-06

[21] **3,004,410**  
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01)**  
[25] EN  
[54] **DELIVERY MANAGEMENT SYSTEMS AND METHODS FOR ZERO-INVENTORY DISTRIBUTION**  
[54] **SYSTEMES ET PROCEDES DE GESTION DE LIVRAISON POUR DISTRIBUTION POUR LA DISTRIBUTION SANS INVENTAIRE**  
[72] LADDEN, DOUGLAS M., US  
[72] MERIANS, RICHARD, US  
[72] ANAVIM, ORI, US  
[71] DELIVERIGHT LOGISTICS, INC., US  
[85] 2018-05-04  
[86] 2015-11-20 (PCT/US2015/061748)  
[87] (WO2016/081794)  
[30] US (62/082,961) 2014-11-21

[21] **3,004,411**  
[13] A1

[51] **Int.Cl. B41F 7/20 (2006.01) B41F 7/02 (2006.01) B41M 1/06 (2006.01) B41M 1/14 (2006.01) B41M 1/40 (2006.01)**  
[25] EN  
[54] **PRODUCING ARTICLES WITH MULTIPLE COLOR INKS**  
[54] **PRODUCTION D'ARTICLES AVEC DE MULTIPLES ENCRE COLOREES**  
[72] LINEBERRY, ALLEN, US  
[71] THE COCA-COLA COMPANY, US  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/US2016/000111)  
[87] (WO2017/078764)  
[30] US (62/251,753) 2015-11-06

[21] **3,004,412**  
[13] A1

[51] **Int.Cl. F02C 7/055 (2006.01) B64D 33/02 (2006.01)**  
[25] EN  
[54] **AIRPLANE ENGINE BIRD STRIKE PROTECTION GUARD**  
[54] **CAPOT DE PROTECTION CONTRE LES IMPACTS D'OISEAUX POUR MOTEUR D'AERONEF**  
[72] BOATENG, WILLIAM BEKOE, US  
[71] BOATENG, WILLIAM BEKOE, US  
[85] 2018-05-04  
[86] 2016-07-07 (PCT/US2016/041278)  
[87] (WO2017/078805)  
[30] US (14/934,974) 2015-11-06

[21] **3,004,413**  
[13] A1

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 43/12 (2006.01) G01V 3/18 (2006.01)**  
[25] EN  
[54] **ELECTRICAL IMPEDANCE TOMOGRAPHY USING A SWITCHABLE ARRAY**  
[54] **TOMOGRAPHIE A IMPEDANCE ELECTRIQUE UTILISANT UN RESEAU COMMUTABLE**  
[72] HUANG, WEI HSUAN, SG  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-05-04  
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[87] (WO2017/105432)

[21] **3,004,414**  
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 47/00 (2012.01) E21B 49/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR EVALUATING THE POTENTIAL EFFECTIVENESS OF REFRACING A WELL**  
[54] **PROCEDE ET APPAREIL POUR L'EVALUATION DE L'EFFICACITE POTENTIELLE DE REFRACTURATION D'UN Puits**  
[72] JACKSON, WILLIAM J., US  
[72] REISSIG, ERIK J., US  
[72] MILLER, JAMES L., US  
[71] TECH FLO CONSULTING, LLC, US  
[85] 2018-05-04  
[86] 2016-07-12 (PCT/US2016/041912)  
[87] (WO2017/030681)  
[30] US (14/829,602) 2015-08-18

[21] **3,004,415**  
[13] A1

[51] **Int.Cl. F25J 3/04 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR PROVIDING SUPPLEMENTAL REFRIGERATION TO AN AIR SEPARATION PLANT**  
[54] **PROCEDE ET SYSTEME D'APPORT DE REFRIGERATION SUPPLEMENTAIRE A UNE INSTALLATION DE SEPARATION D'AIR**  
[72] SARIGIANNIS, CATHERINE B., US  
[72] KNIGHT, ANNA, US  
[72] JUANDI, EVELYN, CA  
[72] ZHANG, WEI, CA  
[72] RAUCH, JEREMIAH J., US  
[71] PRAXAIR TECHNOLOGY, INC., US  
[85] 2018-05-04  
[86] 2016-10-18 (PCT/US2016/057465)  
[87] (WO2017/083062)  
[30] US (14/935,680) 2015-11-09

[21] **3,004,417**  
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01)**  
[25] EN  
[54] **LOW VISCOSITY GEAR LUBRICANTS**  
[54] **LUBRIFIANT D'ENGRENAGE A FAIBLE VISCOSITE**  
[72] PATTERSON, SUZANNE, US  
[72] BARTON, WILLIAM R.S., GB  
[72] BROWN, GARETH, GB  
[71] THE LUBRIZOL CORPORATION, US  
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[87] (WO2017/079017)  
[30] US (62/251,886) 2015-11-06

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[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61M 25/00 (2006.01)**  
[25] EN  
[54] **DEVICE, SYSTEM, AND METHOD FOR TRANSCATHETER TREATMENT OF VALVULAR REGURGITATION**  
[54] **DISPOSITIF, SYSTEME ET PROCEDE POUR LE TRAITEMENT, PAR TRANSCATHETER, D'UNE REGURGITATION VALVULAIRE**  
[72] KHAIRKHAHAN, ALEXANDER K., US  
[71] MIDDLE PEAK MEDICAL, INC., US  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/US2016/060094)  
[87] (WO2017/079279)  
[30] US (62/252,336) 2015-11-06  
[30] US (15/153,480) 2016-05-12

[21] **3,004,419**  
[13] A1

[51] **Int.Cl. B64B 1/58 (2006.01) B64B 1/06 (2006.01) B64B 1/60 (2006.01) B64B 1/62 (2006.01)**  
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[54] **LIGHTER-THAN-AIR PLATFORM**  
[54] **PLATEFORME PLUS LEGERE QUE L'AIR**  
[72] MICHAELIS, MAX G., IV, US  
[72] BENNETT, JOHN H. H., US  
[71] SKYCOM CORPORATION, US  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/US2016/060146)  
[87] (WO2017/105657)  
[30] US (14/971,651) 2015-12-16

[21] **3,004,420**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **COMPUTER-IMPLEMENTED METHODS AND SYSTEMS FOR IDENTIFYING PRODUCTS PURCHASED BY INDIVIDUAL CUSTOMERS AT DIFFERENT MERCHANTS**  
[54] **PROCEDES ET SYSTEMES MIS EN ŒUVRE PAR ORDINATEUR POUR IDENTIFIER DES PRODUITS ACHETES PAR DES CONSOMMATEURS INDIVIDUELS CHEZ DIFFERENTS COMMERCANTS**  
[72] MODI, ROHIT, IN  
[72] GUPTA, ASHUTOSH KUMAR, IN  
[72] PRAKASH, MAYANK, IN  
[71] MASTERCARD INTERNATIONAL INCORPORATED, US  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/US2016/060003)  
[87] (WO2017/079208)  
[30] SG (10201509207T) 2015-11-06

[21] **3,004,421**  
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) G01N 33/00 (2006.01)**  
[25] EN  
[54] **AN EFFICIENT, SCALABLE PATIENT-DERIVED XENOGRAFT SYSTEM BASED ON A CHICK CHORIOALLANTOIC MEMBRANE (CAM) IN VIVO MODEL**  
[54] **SYSTEME DE XENOGREFFE EFFICACE, MODULABLE DERIVE DU PATIENT BASE SUR UNE MEMBRANE CHORIOALLANTOIQUE DE POUSSIN (CAM) DANS UN MODELE IN VIVO**  
[72] SIKORA, ANDREW G., US  
[72] PATHAK, RAVI, US  
[71] BAYLOR COLLEGE OF MEDICINE, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060664)  
[87] (WO2017/079646)  
[30] US (62/251,404) 2015-11-05

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[13] A1

[51] **Int.Cl. C12N 7/04 (2006.01) A61K 39/12 (2006.01) C07K 14/005 (2006.01) G01N 33/53 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR DENGUE VIRUS VACCINES AND DIAGNOSTICS**  
[54] **PROCEDES ET COMPOSITIONS POUR DES VACCINS CONTRE LE VIRUS DE LA DENGUE ET DES DIAGNOSTIQUES**  
[72] METZ, STEFAN, US  
[72] DESILVA, ARAVINDA, US  
[72] MILEY, MICHAEL, US  
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US  
[85] 2018-05-04  
[86] 2016-09-20 (PCT/US2016/052706)  
[87] (WO2017/062174)  
[30] US (62/238,496) 2015-10-07

[21] **3,004,423**  
[13] A1

[51] **Int.Cl. G06Q 20/06 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR USE OF A BLOCKCHAIN IN A TRANSACTION PROCESSING NETWORK**  
[54] **PROCEDE ET SYSTEME D'UTILISATION D'UNE CHAINE DE BLOCS DANS UN RESEAU DE TRAITEMENT DE TRANSACTIONS**  
[72] KENNEDY, DENNIS M., US  
[71] MASTERCARD INTERNATIONAL INCORPORATED, US  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/US2016/060012)  
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[30] US (14/933,506) 2015-11-05

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[51] **Int.Cl. G06Q 20/06 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR PROCESSING OF A BLOCKCHAIN TRANSACTION IN A TRANSACTION PROCESSING NETWORK**

[54] **PROCEDE ET SYSTEME DE TRAITEMENT D'UNE TRANSACTION BLOCKCHAIN DANS UN RESEAU DE TRAITEMENT DE TRANSACTIONS**

[72] KENNEDY, DENNIS M., US  
[71] MASTERCARD INTERNATIONAL INCORPORATED, US  
[85] 2018-05-04  
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[30] US (14/933,572) 2015-11-05

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[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) A61B 17/00 (2006.01) A61B 18/00 (2006.01) A61B 18/20 (2006.01) A61K 39/00 (2006.01) A61N 5/067 (2006.01) A61N 7/02 (2006.01)**

[25] EN  
[54] **METHODS FOR TREATING CANCER BY ENHANCING INTRATUMORAL IMMUNE RESPONSE**

[54] **METHODES DE TRAITEMENT DU CANCER PAR RENFORCEMENT DE LA REPOSE IMMUNITAIRE INTRATUMORALE**

[72] FISHER, DAVID E., US  
[72] LO, JENNIFER A., US  
[72] MANSTEIN, DIETER, US  
[72] KAWAKUBO, MASAYOSHI, US  
[71] THE GENERAL HOSPITAL CORPORATION, US  
[85] 2018-05-04  
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[30] US (62/251,336) 2015-11-05

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[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01) E21B 23/00 (2006.01) E21B 34/00 (2006.01) E21B 34/14 (2006.01)**

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[54] **CIRCULATION SUBASSEMBLY**

[54] **SOUS-ENSEMBLE DE CIRCULATION**

[72] HARDY, JAMES, GB  
[72] BOOTH, MARK, GB  
[72] OLLERENSHAW, ANDREW, GB  
[72] HUNTER, GORDON, GB  
[71] INTELLIGENT DRILLING TOOLS LIMITED, GB  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/GB2016/053479)  
[87] (WO2017/077345)  
[30] GB (1519684.3) 2015-11-06  
[30] GB (1613332.4) 2016-08-02

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[51] **Int.Cl. C02F 11/18 (2006.01) C02F 11/10 (2006.01)**

[25] EN  
[54] **SYSTEM FOR HYDROTHERMAL TREATMENT OF WET BIOMASS**

[54] **SYSTEME DE TRAITEMENT HYDROTHERMIQUE DE BIOMASSE HUMIDE**

[72] CORONELLA, CHARLES J., US  
[71] BOARD OF REGENTS OF THE NEVADA SYSTEM OF HIGHER EDUCATION, ON BEHALF OF THE UNIVERSITY OF NEVADA, RENO, US  
[85] 2018-05-04  
[86] 2016-11-10 (PCT/US2016/061367)  
[87] (WO2017/083544)  
[30] US (62/253,436) 2015-11-10

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[13] A1

[51] **Int.Cl. E04B 1/61 (2006.01) E04B 1/14 (2006.01)**

[25] EN  
[54] **SYSTEMS, METHODS, APPARATUS, AND COMPOSITIONS FOR BUILDING MATERIALS AND CONSTRUCTION**

[54] **SYSTEMES, PROCEDES, APPAREIL ET COMPOSITIONS POUR MATERIAUX DE CONSTRUCTION ET CONSTRUCTION**

[72] HODSON, SIMON, US  
[72] HODSON, JONATHAN, US  
[71] FENIX ADVANCED TECHNOLOGIES, LIMITED, CN  
[85] 2018-05-04  
[86] 2016-11-02 (PCT/US2016/060070)  
[87] (WO2017/079259)  
[30] US (62/251,022) 2015-11-04  
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[51] **Int.Cl. A47L 15/42 (2006.01)**

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[54] **MACHINE ISOLEE ACOUSTIQUEMENT**

[72] ROCKWELL, ANTHONY LEE, US  
[72] JOHNSON, PHILLIP J., US  
[72] TILTON, JEFFREY A., US  
[72] HILL, DONALD, US  
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060439)  
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[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/10 (2006.01)**  
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[54] **CONSTRUCTION HAUTE EFFICACITE DE BANQUES D'ADN**  
[72] RAYMOND, CHRISTOPHER K., US  
[72] LIM, LEE P., US  
[71] RESOLUTION BIOSCIENCE, INC., US  
[85] 2018-05-04  
[86] 2016-11-10 (PCT/US2016/061395)  
[87] (WO2017/083562)  
[30] US (62/254,110) 2015-11-11

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[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C12P 21/08 (2006.01)**  
[25] EN  
[54] **GLYPICAN 2 AS A CANCER MARKER AND THERAPEUTIC TARGET**  
[54] **GLYPICANE 2 A UTILISER EN TANT QUE MARQUEUR CANCEREUX ET CIBLE THERAPEUTIQUE**  
[72] MARIS, JOHN M., US  
[72] BOSSE, KRISTOPHER R., US  
[72] DIMITROV, DIMITER, US  
[72] ZHU, ZHONGYU, US  
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US  
[71] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US  
[85] 2018-05-04  
[86] 2016-11-08 (PCT/US2016/060974)  
[87] (WO2017/083296)  
[30] US (62/253,000) 2015-11-09  
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[13] A1

[51] **Int.Cl. A01C 7/04 (2006.01) A01C 19/02 (2006.01) A01C 21/00 (2006.01)**  
[25] EN  
[54] **MULTIPLE AGRICULTURAL PRODUCT APPLICATION METHOD AND SYSTEMS**  
[54] **PROCEDE ET SYSTEMES D'APPLICATION DE MULTIPLES PRODUITS AGRICOLES**  
[72] WILHELMI, MATTHEW, US  
[72] HAHN, DUSTAN, US  
[71] KINZE MANUFACTURING, INC., US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060458)  
[87] (WO2017/079515)  
[30] US (62/252,168) 2015-11-06

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[13] A1

[51] **Int.Cl. G05D 1/02 (2006.01)**  
[25] EN  
[54] **RAPIDLY-EXPLORING RANDOMIZING FEEDBACK-BASED MOTION PLANNING**  
[54] **PLANIFICATION DE MOUVEMENTS BASEE SUR UN RETOUR DE RANDOMISATION D'EXPLORATION RAPIDE**  
[72] AGARWAL, SAURAV, US  
[72] AGHAMOHAMMADI, ALIAKBAR, US  
[72] SOMASUNDARAM, KIRAN, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-04  
[86] 2016-11-10 (PCT/US2016/061426)  
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[30] US (62/265,238) 2015-12-09  
[30] US (15/192,881) 2016-06-24

[21] **3,004,443**  
[13] A1

[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/445 (2006.01) A61F 5/448 (2006.01) A61F 5/449 (2006.01)**  
[25] EN  
[54] **OSTOMY DEVICE, APPARATUS, AND SYSTEM**  
[54] **DISPOSITIF, APPAREIL ET SYSTEME DE STOMIE**  
[72] CESA, JOSEPH A., US  
[72] GRIFFITH, NATHAN C., US  
[72] TARCAU, BENONE, US  
[72] ZACHA, JAMES, US  
[72] MCMICHAEL, DONALD, US  
[71] AVENT, INC., US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060483)  
[87] (WO2017/079532)  
[30] US (62/251,746) 2015-11-06

[21] **3,004,444**  
[13] A1

[51] **Int.Cl. C07J 41/00 (2006.01) A61K 31/573 (2006.01) A61P 5/44 (2006.01)**  
[25] EN  
[54] **POLYETHYLENE GLYCOL-CONJUGATED GLUCOCORTICOID PRODRUGS AND COMPOSITIONS AND METHODS THEREOF**  
[54] **PROMEDICAMENTS GLUCOCORTICOIDES CONJUGUES A DU POLYETHYLENE GLYCOL ET COMPOSITIONS ET METHODES ASSOCIEES**  
[72] WANG, DONG, US  
[72] YUAN, FANG, US  
[72] JIA, ZHENSHAN, US  
[72] WANG, XIAOBEI, US  
[71] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US  
[85] 2018-05-04  
[86] 2016-11-12 (PCT/US2016/061728)  
[87] (WO2017/083794)  
[30] US (62/254,512) 2015-11-12

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[13] A1

[51] **Int.Cl. A61B 5/087 (2006.01) A61B 5/08 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR MEASURING AIRWAY RESISTANCE AND LUNG COMPLIANCE**  
[54] **PROCEDE ET APPAREIL DE MESURE DE LA RESISTANCE DES VOIES RESPIRATOIRES ET DE LA COMPLIANCE PULMONAIRE**  
[72] GRUDIN, OLEG, CA  
[72] LOPATA, VICTOR, UA  
[71] SPIRO-TECH MEDICAL INC., CA  
[85] 2018-05-03  
[86] 2014-11-06 (PCT/CA2014/051073)  
[87] (WO2015/066812)

[21] **3,004,447**  
[13] A1

[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/445 (2006.01) A61F 5/448 (2006.01) A61F 5/449 (2006.01)**  
[25] EN  
[54] **OSTOMY DEVICE, APPARATUS, AND SYSTEM**  
[54] **DISPOSITIF, APPAREIL ET SYSTEME DE STOMIE**  
[72] CESA, JOSEPH A., US  
[72] GRIFFITH, NATHAN C., US  
[72] TARCAU, BENONE, US  
[72] ZACHA, JAMES, US  
[72] MCMICHAEL, DONALD, US  
[71] AVENT, INC., US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060487)  
[87] (WO2017/079533)  
[30] US (62/251,746) 2015-11-06

[21] **3,004,448**  
[13] A1

[51] **Int.Cl. A61K 31/4747 (2006.01)**  
[25] EN  
[54] **ION CHANNEL INHIBITORY COMPOUNDS, PHARMACEUTICAL FORMULATIONS AND USES**  
[54] **COMPOSES INHIBITEURS DE CANAUX IONIQUES, FORMULATIONS PHARMACEUTIQUES, ET UTILISATIONS**  
[72] XIE, XINMIN, US  
[72] KAYSER, FRANK, US  
[71] AFASCI, INC., US  
[85] 2018-05-04  
[86] 2016-11-14 (PCT/US2016/061918)  
[87] (WO2017/083867)  
[30] US (62/254,564) 2015-11-12

[21] **3,004,452**  
[13] A1

[51] **Int.Cl. G08G 5/00 (2006.01) G01S 19/45 (2010.01) G06Q 10/08 (2012.01) G01C 23/00 (2006.01)**  
[25] EN  
[54] **COOPERATIVE SYSTEM AND METHOD FOR PRECISE AUTONOMOUS DELIVERY**  
[54] **SYSTEME ET PROCEDE COOPERATIFS POUR LIVRAISON AUTONOME PRECISE**  
[72] HETTICH, RONALD, US  
[72] COGLIANDRO, JOHN, US  
[72] ZWILLINGER, DANIEL, US  
[71] UBER TECHNOLOGIES, INC., US  
[85] 2018-05-03  
[86] 2016-10-23 (PCT/IB2016/056363)  
[87] (WO2017/077416)  
[30] US (14/934,025) 2015-11-05

[21] **3,004,453**  
[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61P 13/10 (2006.01)**  
[25] EN  
[54] **BOTULINUM TOXIN ADMINISTRATION FOR TREATMENT OF NEUROGENIC DETRUSOR OVERACTIVITY ASSOCIATED URINARY INCONTINENCE**  
[54] **ADMINISTRATION DE TOXINE BOTULINIQUE POUR LE TRAITEMENT DE L'INCONTINENCE URINAIRE ASSOCIEE A L'HYPERACTIVITE NEUROGENE DU DETRUSOR**  
[72] HAAG-MOLKENTELLER, CORNELIA C., US  
[72] JENKINS, BRENDA, US  
[71] ALLERGAN, INC., US  
[85] 2018-05-04  
[86] 2016-11-17 (PCT/US2016/062539)  
[87] (WO2017/087677)  
[30] US (62/256,551) 2015-11-17

[21] **3,004,454**  
[13] A1

[51] **Int.Cl. B62D 21/15 (2006.01) B62D 25/08 (2006.01) B62D 25/20 (2006.01)**  
[25] EN  
[54] **VEHICLE REAR BODY STRUCTURE AND METHOD FOR MANUFACTURING THEREOF**  
[54] **STRUCTURE DE CARROSSERIE ARRIERE DE VEHICULE ET SON PROCEDE DE FABRICATION**  
[72] VIAUX, IVAN, FR  
[71] ARCELORMITTAL, LU  
[85] 2018-05-04  
[86] 2015-12-09 (PCT/IB2015/059487)  
[87] (WO2017/098306)

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[13] A1

[51] **Int.Cl. B29C 70/08 (2006.01) B29B 15/10 (2006.01) B29C 70/00 (2006.01) B29C 70/06 (2006.01) B32B 27/00 (2006.01) B32B 27/12 (2006.01)**

[25] EN

[54] **STRUCTURAL COMPOSITION AND METHOD**

[54] **COMPOSITION STRUCTURALE ET PROCEDE**

[72] GREEN, GUERRY E., US  
[72] KRONBERG, JAMES W., US  
[71] MARHAYGUE, LLC, US  
[85] 2018-05-04  
[86] 2016-11-17 (PCT/US2016/062451)  
[87] (WO2017/087623)  
[30] US (62/256,513) 2015-11-17

[21] **3,004,458**  
[13] A1

[51] **Int.Cl. A61K 49/08 (2006.01) A61K 41/00 (2006.01) A61K 49/10 (2006.01) A61P 35/00 (2006.01) C07F 9/09 (2006.01) G01N 33/574 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **LONG-LIVED GADOLINIUM BASED TUMOR TARGETED IMAGING AND THERAPY AGENTS**

[54] **AGENTS A DUREE DE VIE LONGUE A BASE DE GADOLINIUM CAPABLES DE CIBLER DES TUMEURS, DESTINES A L'IMAGERIE ET A LA THERAPIE**

[72] WEICHERT, JAMEY, US  
[72] PINCHUK, ANATOLY, US  
[72] TOME, WOLFGANG, US  
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060491)  
[87] (WO2017/079535)  
[30] US (62/252,218) 2015-11-06

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[13] A1

[51] **Int.Cl. C07C 7/12 (2006.01) B01D 15/00 (2006.01)**

[25] EN

[54] **TWO-BED PARAFFIN TO OLEFIN ENHANCEMENT PROCESS**

[54] **PROCEDE DE TRANSFORMATION DE PARAFFINE EN OLEFINE A DEUX LITS**

[72] LUEBKE, CHARLES P., US  
[72] WANG, ZHENG, US  
[72] GORAWARA, JAYANT K., US  
[72] SOHN, STEPHEN W., US  
[71] UOP LLC, US  
[85] 2018-05-04  
[86] 2016-11-16 (PCT/US2016/062147)  
[87] (WO2017/099960)  
[30] US (62/264,040) 2015-12-07

[21] **3,004,461**  
[13] A1

[51] **Int.Cl. G06F 19/00 (2018.01) A61M 1/34 (2006.01)**

[25] EN

[54] **CONFIGURING A USER INTERFACE OF A DIALYSIS MACHINE**

[54] **CONFIGURATION D'UNE INTERFACE UTILISATEUR D'UNE MACHINE DE DIALYSE**

[72] YUDS, DAVID, US  
[71] FRESenius MEDICAL CARE HOLDINGS, INC., US  
[85] 2018-05-04  
[86] 2016-11-22 (PCT/US2016/063378)  
[87] (WO2017/099998)  
[30] US (14/963,704) 2015-12-09

[21] **3,004,462**  
[13] A1

[51] **Int.Cl. A47J 31/40 (2006.01) A47J 31/44 (2006.01) B65D 85/804 (2006.01) B67D 1/14 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSER SYSTEMS AND METHODS**

[54] **SYSTEMES DE DISTRIBUTEUR DE BOISSON ET PROCEDES**

[72] NACHAWATI, MAHER, US  
[71] PEPSICO, INC., US  
[85] 2018-05-04  
[86] 2016-11-18 (PCT/US2016/062891)  
[87] (WO2017/087874)  
[30] US (14/947,636) 2015-11-20

[21] **3,004,463**  
[13] A1

[51] **Int.Cl. A61L 15/28 (2006.01)**

[25] EN

[54] **ABSORBENT STRUCTURE**

[54] **STRUCTURE ABSORBANTE**

[72] BEWICK-SONNTAG, CHRISTOPHER PHILIP, US  
[72] CARLA, VITO, US  
[72] HUBBARD, WADE MONROE, JR., US  
[72] HAMMONS, JOHN LEE, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060568)  
[87] (WO2017/079586)  
[30] US (62/251,057) 2015-11-04

[21] **3,004,465**  
[13] A1

[51] **Int.Cl. A61K 31/568 (2006.01) A61K 9/00 (2006.01) A61K 31/47 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **PHEROMONE COMPOSITION TO STIMULATE REPRODUCTION IN FEMALE SUIDS AND METHODS OF USE**

[54] **COMPOSITION DE PHEROMONE POUR STIMULER LA REPRODUCTION CHEZ DES FEMELLES SUIDES ET PROCEDES D'UTILISATION**

[72] MCGLONE, JOHN J., US  
[71] TEXAS TECH UNIVERSITY SYSTEM, US  
[85] 2018-05-04  
[86] 2016-11-16 (PCT/US2016/062199)  
[87] (WO2017/087468)  
[30] US (14/943,607) 2015-11-17

[21] **3,004,466**  
[13] A1

[51] **Int.Cl. E21D 21/00 (2006.01) E21D 11/15 (2006.01)**

[25] EN

[54] **MESH SUPPORTING ROCK ANCHOR**

[54] **ANCRE DE ROCHE SUPPORTANT UN TREILLIS**

[72] CROMPTON, BRENDAN ROBERT, ZA  
[72] HERBERT, RHYS, ZA  
[71] NCM INNOVATIONS (PVT) LTD, ZA  
[85] 2018-05-04  
[86] 2016-12-07 (PCT/ZA2016/000032)  
[87] (WO2017/100806)  
[30] ZA (2015/09000) 2015-12-10



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[13] A1

[51] **Int.Cl. G06Q 20/42 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01) G06F 21/33 (2013.01) G06F 21/43 (2013.01) H04L 9/32 (2006.01)**

[25] EN

[54] **METHOD FOR AUTHENTICATING AND AUTHORISING A TRANSACTION USING A PORTABLE DEVICE**

[54] **PROCEDE POUR AUTHENTIFIER ET AUTORISER UNE TRANSACTION A L'AIDE D'UN DISPOSITIF PORTABLE**

[72] GLENDENNING, CRAIG, AU  
[72] MCAULEY, MICHAEL, AU  
[71] BLUECHAIN PTY LTD, AU  
[85] 2018-05-07  
[86] 2016-09-29 (PCT/AU2016/050919)  
[87] (WO2017/054050)  
[30] AU (2015903975) 2015-09-30

[21] **3,004,468**  
[13] A1

[51] **Int.Cl. A61K 8/64 (2006.01) A61Q 15/00 (2006.01)**

[25] EN

[54] **MUCIN TOPICAL DEODORANTS AND ANTIPERSPIRANTS**

[54] **DEODORANTS ET ANTITRANSPIRANTS TOPIQUES CONTENANT UNE MUCINE**

[72] HANNEL BUELONI, RENATA, BR  
[72] ROESLER, ROBERTA, BR  
[72] PANZARIN SAVIETTO, JOICE, BR  
[71] NATURA COSMETICOS S.A., BR  
[85] 2018-05-07  
[86] 2016-11-07 (PCT/BR2016/050284)  
[87] (WO2017/075684)  
[30] US (62/251,420) 2015-11-05

[21] **3,004,469**  
[13] A1

[51] **Int.Cl. G01N 33/577 (2006.01) G01N 21/31 (2006.01) G01N 21/78 (2006.01) G01N 33/551 (2006.01)**

[25] EN

[54] **METHIONINE ADENOSYLTRANSFERASE (MAT) BIOLOGICAL ACTIVITY ASSAY AND DETECTION KIT**

[54] **PROCEDE DE DOSAGE DE L'ACTIVITE BIOLOGIQUE DE LA METHIONINE ADENOSYLTRANSFERASE ET KIT DE REACTIFS**

[72] HAO, XIUJUAN, CN  
[72] LI, HUIJUN, CN  
[72] ZHOU, MIN, CN  
[71] HUNAN SKYWORLD BIOTECHNOLOGIES CO., CN  
[85] 2018-05-04  
[86] 2016-11-06 (PCT/IB2016/056666)  
[87] (WO2017/077509)  
[30] CN (201510755262.3) 2015-11-07

[21] **3,004,470**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DISPATCHING AN AIRBORNE DRONE TO CARRY AN ITEM TO A CUSTOMER**

[54] **PROCEDE ET APPAREIL POUR EXPEDIER UN DRONE AEROPORTE AFIN DE TRANSPORTER UN ARTICLE A DESTINATION D'UN CLIENT**

[72] HIGH, DONALD R., US  
[72] THOMPSON, JOHN P., US  
[72] ATCHLEY, MICHAEL D., US  
[72] NATARAJAN, CHANDRASHEKAR, US  
[71] WALMART APOLLO, LLC, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060569)  
[87] (WO2017/079587)  
[30] US (62/252,075) 2015-11-06

[21] **3,004,471**  
[13] A1

[51] **Int.Cl. E21B 17/02 (2006.01) E21B 10/02 (2006.01) E21B 25/00 (2006.01) F16D 1/10 (2006.01) F16L 37/08 (2006.01)**

[25] EN

[54] **A CONNECTION DEVICE**

[54] **UN DISPOSITIF DE RACCORDEMENT**

[72] ATTIWELL, PAUL, AU  
[71] SWICK MINING SERVICES LTD, AU  
[85] 2018-05-07  
[86] 2016-11-10 (PCT/AU2016/051081)  
[87] (WO2017/079801)  
[30] AU (2015904625) 2015-11-10

[21] **3,004,472**  
[13] A1

[51] **Int.Cl. C07D 417/14 (2006.01) C09K 11/06 (2006.01) H01L 31/055 (2014.01)**

[25] EN

[54] **DISUBSTITUTED DIARYLOXYBENZOHETERODIA ZOLE COMPOUNDS**

[54] **COMPOSE DE DIARYLOXYBENZOHETERODIA ZOLE DISUBSTITUE**

[72] SCHIMPERNA, GIULIANA, IT  
[72] PROTO, ANTONIO ALFONSO, IT  
[71] ENI S.P.A., IT  
[85] 2018-05-04  
[86] 2016-11-11 (PCT/IB2016/056793)  
[87] (WO2017/081645)  
[30] IT (102015000072291) 2015-11-13

[21] **3,004,473**  
[13] A1

[51] **Int.Cl. H01B 7/04 (2006.01) H01B 7/28 (2006.01) C23C 2/12 (2006.01) H01B 7/22 (2006.01)**

[25] EN

[54] **ELECTRIC CABLE WITH CORROSION RESISTANT ARMOR**

[54] **CABLE ELECTRIQUE A ARMURE RESISTANT A LA CORROSION**

[72] FALLAHMOHAMMADI, EHSAN, IT  
[72] CASIRAGHI, FLAVIO, IT  
[71] PRYSMIAN S.P.A., IT  
[85] 2018-05-07  
[86] 2015-11-13 (PCT/EP2015/076580)  
[87] (WO2017/080621)

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[13] A1

[51] **Int.Cl. B26B 21/40 (2006.01) B26B 21/22 (2006.01)**  
[25] EN  
[54] **SHAVING RAZORS AND SHAVING CARTRIDGES**  
[54] **RASOIRS ET CARTOUCHES DE RASAGE**  
[72] BOZIKIS, IOANNIS, GR  
[72] GRATSIAS, SPIROS, GR  
[72] BRESILIS, CHRISTOFOROS - ATHANASIOS, GR  
[71] BIC-VIOLEX SA, GR  
[85] 2018-05-07  
[86] 2015-12-10 (PCT/EP2015/079316)  
[87] (WO2017/092836)  
[30] US (62261389) 2015-12-01

[21] **3,004,475**  
[13] A1

[51] **Int.Cl. B64C 13/18 (2006.01) H04W 88/02 (2009.01) B64C 39/02 (2006.01) G05D 1/10 (2006.01) G06F 3/00 (2006.01) G06F 3/14 (2006.01)**  
[25] EN  
[54] **HOVER ATTACHMENT FOR MOBILE DEVICE**  
[54] **ACCESSOIRE DE VOL STATIONNAIRE POUR DISPOSITIF MOBILE**  
[72] RAHNAMA, HOSSEIN, CA  
[71] RAHNAMA, HOSSEIN, CA  
[85] 2018-05-07  
[86] 2016-03-24 (PCT/CA2016/050352)  
[87] (WO2017/075695)  
[30] US (62/251,625) 2015-11-05

[21] **3,004,476**  
[13] A1

[51] **Int.Cl. A23L 27/00 (2016.01) C07C 69/66 (2006.01)**  
[25] EN  
[54] **NATURAL COOLING FORMULATIONS**  
[54] **FORMULATIONS DE REFROIDISSEMENT NATUREL**  
[72] JOHNSON, SONYA, US  
[72] TIAN, MINMIN, US  
[72] DOWD, ERIC, US  
[72] SHELDON, GLORIA, US  
[71] WM. WRIGLEY JR. COMPANY, US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060444)  
[87] (WO2017/079506)  
[30] US (62/251,431) 2015-11-05

[21] **3,004,477**  
[13] A1

[51] **Int.Cl. B61D 3/18 (2006.01) B61D 47/00 (2006.01)**  
[25] EN  
[54] **SUSPENSION DEVICE FOR CABLES AND TUBINGS**  
[54] **DISPOSITIF DE SUSPENSION POUR CABLES ET TUYAUX**  
[72] ERIKSSON, JAN, SE  
[71] FLEXIWAGGON AB, SE  
[85] 2018-05-07  
[86] 2015-12-11 (PCT/EP2015/079403)  
[87] (WO2017/097373)

[21] **3,004,479**  
[13] A1

[51] **Int.Cl. G06F 17/30 (2006.01) G06Q 50/22 (2018.01)**  
[25] EN  
[54] **A METHOD AND SYSTEM FOR CODIFICATION, TRACKING, AND USE OF INFORMED CONSENT DATA FOR HUMAN SPECIMEN RESEARCH**  
[54] **PROCEDE ET SYSTEME DE CODIFICATION, DE SUIVI ET D'UTILISATION DE DONNEES DE CONSENTEMENT ECLAIRE POUR UNE RECHERCHE DE SPECIMEN HUMAIN**  
[72] WARNER, AMELIA WALL, US  
[72] COLLINS, MARK ANTHONY, US  
[71] GLOBAL SPECIMEN SOLUTIONS, INC., US  
[85] 2018-05-01  
[86] 2016-11-18 (PCT/US2016/062724)  
[87] (WO2017/087773)  
[30] US (62/256,756) 2015-11-18

[21] **3,004,480**  
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/168 (2006.01)**  
[25] EN  
[54] **PROCEDURE TO OPERATE A PERFUSION DEVICE AND PERFUSION DEVICE TO IMPLEMENT THE PROCEDURE**  
[54] **MODE OPERATOIRE D'UTILISATION D'UN DISPOSITIF DE PERFUSION, ET DISPOSITIF DE PERFUSION POUR METTRE EN OEUVRE LE MODE OPERATOIRE**  
[72] LANGLE, DANIEL, CH  
[72] BONI, DOMINIC, CH  
[71] ONEFUSION AG, CH  
[85] 2018-05-04  
[86] 2016-11-11 (PCT/IB2016/056820)  
[87] (WO2017/085605)  
[30] AT (A 731/2015) 2015-11-16

[21] **3,004,481**  
[13] A1

[51] **Int.Cl. C23C 14/06 (2006.01) C23C 14/34 (2006.01) C23C 14/35 (2006.01) F01D 5/28 (2006.01) F01D 11/12 (2006.01)**  
[25] EN  
[54] **TURBINE CLEARANCE CONTROL COATINGS AND METHOD**  
[54] **PROCEDE ET REVETEMENTS DE REDUCTION DU JEU D'UNE TURBINE**  
[72] WILSON, SCOTT, CH  
[72] ACIKGOZ DOROKIN, CANET, CH  
[72] ROVERE, FLORIAN, US  
[72] JARRY, OLIVIER, DE  
[72] NESTLER, MONTIA, US  
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH  
[85] 2018-05-07  
[86] 2016-11-09 (PCT/EP2016/001854)  
[87] (WO2017/080645)  
[30] US (US 62/253, 194) 2015-11-10  
[30] EP (EP 16000977.5) 2016-05-01

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[21] **3,004,482**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01) C07K 5/10 (2006.01) C07K 7/06 (2006.01) C07K 7/64 (2006.01) C07K 16/18 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 5/16 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **N-TERMINAL EPITOPES IN AMYLOID BETA AND CONFORMATIONALLY-SELECTIVE ANTIBODIES THERETO**

[54] **EPITOPES N-TERMINAUX DANS LA BETA-AMYLOIDE ET ANTICORPS CONFORMATIONNELLEMENT SELECTIFS ASSOCIES**

[72] CASHMAN, NEIL R., CA  
[72] PLOTKIN, STEVEN S., CA  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2018-05-07  
[86] 2016-11-09 (PCT/CA2016/051300)  
[87] (WO2017/079831)  
[30] US (62/253,044) 2015-11-09  
[30] US (62/331,925) 2016-05-04  
[30] US (62/365,634) 2016-07-22  
[30] US (62/393,615) 2016-09-12

[21] **3,004,483**  
[13] A1

[51] **Int.Cl. B41J 3/36 (2006.01) B41J 2/165 (2006.01) B41J 2/175 (2006.01)**

[25] EN

[54] **SERVICING CASSETTES FOR HANDHELD FLUID JET APPARATUS FOR USE IN MODIFYING SURFACES**

[54] **CASSETTES D'ENTRETIEN POUR APPAREILS DE JET DE FLUIDE A MAIN A UTILISER DANS LA MODIFICATION DE SURFACES**

[72] RABE, THOMAS ELLIOT, US  
[72] VERNON, PAUL JOHN EDWARD, US

[72] STRIEMER, GRANT EDWARD ANDERS, US

[72] LINGOES, JANETTE VILLALOBOS, US

[72] KOLAKOSKI, REBECCA ASHLEY, US

[72] FLOYD, BRIAN LEE, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2018-05-04  
[86] 2016-12-06 (PCT/US2016/065049)  
[87] (WO2017/100148)  
[30] US (14/960,976) 2015-12-07

[21] **3,004,484**  
[13] A1

[51] **Int.Cl. A63F 9/24 (2006.01) G07F 17/32 (2006.01)**

[25] EN

[54] **HYBRID ARCADE/WAGER-BASED GAMING ASPECTS RELATING TO ENTERTAINMENT AND WAGERING GAMING ACTIVITIES**

[54] **ASPECTS DE JEUX D'ARCADE/A BASE DE PARIS HYBRIDES SE RAPPORTANT A DES ACTIVITES DE JEU DE DIVERTISSEMENT ET DE PARIS**

[72] WASHINGTON, GEORG, US  
[72] SERRA, JOE, US  
[71] SYNERGY BLUE, LLC, US

[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060732)  
[87] (WO2017/079701)  
[30] US (62/250,946) 2015-11-04

[21] **3,004,485**  
[13] A1

[51] **Int.Cl. H04L 5/14 (2006.01) H04W 72/04 (2009.01) H04L 5/00 (2006.01)**

[25] EN

[54] **TECHNIQUES FOR INDICATING A DYNAMIC SUBFRAME TYPE**

[54] **TECHNIQUES POUR INDIQUER UN TYPE DE SOUS-TRAME DYNAMIQUE**

[72] ANG, PETER PUI LOK, US  
[72] LUO, TAO, US  
[72] VARDHAN, ANURAG, US  
[72] BHUSHAN, NAGA, US  
[72] JI, TINGFANG, US  
[71] QUALCOMM INCORPORATED, US

[85] 2018-05-04  
[86] 2016-12-09 (PCT/US2016/065744)  
[87] (WO2017/106027)  
[30] US (62/267,903) 2015-12-15  
[30] US (62/377,466) 2016-08-19  
[30] US (15/256,325) 2016-09-02

[21] **3,004,486**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A23L 33/135 (2016.01) A61K 35/00 (2006.01)**

[25] EN

[54] **BACTERIAL COMPOSITION FOR USE IN ATTENUATING THE DECLINE IN PERFORMANCE AFTER EXERCISE**

[54] **COMPOSITION BACTERIENNE POUR ATTENUER LE DECLIN DE PERFORMANCE APRES EXERCICE**

[72] MOGNA, GIOVANNI, IT  
[71] PROBIOTICAL S.P.A., IT

[85] 2018-05-04  
[86] 2016-11-17 (PCT/IB2016/056919)  
[87] (WO2017/085656)  
[30] IT (102015000074653) 2015-11-19

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[21] **3,004,487**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 30/06 (2012.01) G06Q 40/04 (2012.01)**

[25] EN

[54] **MERCHANDISE SHIPPING FEE CALCULATING SYSTEM IN ELECTRONIC COMMERCE**

[54] **SYSTEME DE CALCUL DE FRAIS D'EXPEDITION DE MARCHANDISES DANS LE COMMERCE ELECTRONIQUE**

[72] KOH, KWON SUK, KR

[71] KOH, KWON SUK, KR

[85] 2018-05-04

[86] 2016-11-01 (PCT/KR2016/012485)

[87] (WO2017/078378)

[30] KR (10-2015-0154866) 2015-11-05

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[21] **3,004,488**  
[13] A1

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

[25] EN

[54] **INFORMATION PROCESSING NETWORK BASED ON UNIFORM CODE ISSUANCE, METHOD THEREFOR, AND SENSING ACCESS DEVICE**

[54] **RESEAU DE TRAITEMENT D'INFORMATIONS ET PROCEDE BASE SUR UN CODE UNIFORME D'ENVOI ET DISPOSITIF D'ACCES DE DETECTION**

[72] XU, WEI, CN

[71] XU, WEI, CN

[85] 2018-05-07

[86] 2015-10-09 (PCT/CN2015/091553)

[87] (WO2017/059580)

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[21] **3,004,489**  
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/142 (2006.01) A61M 39/22 (2006.01)**

[25] EN

[54] **SYSTEMS FOR INTERMITTENT INFUSION**

[54] **SYSTEMES POUR PERFUSION INTERMITTENTE**

[72] BOLLISH, STEPHEN J., US

[72] FARHAT, LAWRENCE, US

[72] ABAL, DANIEL, US

[72] BUTTERFIELD, ROBERT DWAIN, US

[72] VASKO, ROBERT, US

[71] CAREFUSION 303, INC., US

[85] 2018-05-04

[86] 2016-12-29 (PCT/US2016/069335)

[87] (WO2017/117463)

[30] US (62/273,962) 2015-12-31

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[13] A1

[51] **Int.Cl. A63F 13/30 (2014.01) G07F 17/32 (2006.01)**

[25] EN

[54] **GAMING ASPECTS RELATING TO MULTIPLAYER/TOURNAMENT HYBRID ARCADE/WAGER-BASED GAMES**

[54] **ASPECTS DE JEUX RELATIFS A DES JEUX HYBRIDES D'ARCADE/PARI MULTIJOUEURS/EN TOURNOI**

[72] WASHINGTON, GEORG, US

[72] SERRA, JOE, US

[71] SYNERGY BLUE, LLC, US

[85] 2018-05-04

[86] 2016-11-04 (PCT/US2016/060737)

[87] (WO2017/079706)

[30] US (62/250,964) 2015-11-04

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[21] **3,004,491**  
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/16 (2006.01) C07K 14/00 (2006.01) C07K 14/435 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **CONDITIONALLY ACTIVE HETERODIMERIC POLYPEPTIDES AND METHODS OF USE THEREOF**

[54] **POLYPEPTIDES HETERODIMERIC CONDITIONNELLEMENT ACTIFS ET LEURS METHODES D'UTILISATION**

[72] TAUNTON, JOHN W., US

[72] LIM, WENDELL A., US

[72] WU, CHIA-YUNG, US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2018-05-04

[86] 2017-01-06 (PCT/US2017/012634)

[87] (WO2017/120546)

[30] US (62/276,725) 2016-01-08

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[21] **3,004,492**  
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/50 (2006.01) A61K 31/7056 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS OF RIBAVIRIN**

[54] **COMPOSITIONS PHARMACEUTIQUES A BASE DE RIBAVIRINE**

[72] DELL'ORCO, PHILIP CHARLES, US

[72] FARRER, BRIAN T., US

[72] HONG, ZHI, US

[72] ROBERTS, CHRISTOPHER D., US

[72] SAVAGE, JOHN ROBERT, US

[72] SPRAGUE, JACOB J., US

[72] WANG, YONGCAI, US

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED, GB

[71] LIQUIDIA TECHNOLOGIES, INC., US

[85] 2018-05-04

[86] 2016-11-18 (PCT/IB2016/056981)

[87] (WO2017/085692)

[30] US (62/256,868) 2015-11-18

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[21] 3,004,493 [13] A1	[21] 3,004,494 [13] A1	[21] 3,004,496 [13] A1
[51] <b>Int.Cl. C07K 14/47 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01) C07K 5/00 (2006.01) C07K 7/06 (2006.01) C07K 7/64 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)</b>	[51] <b>Int.Cl. C07K 14/47 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01) C07K 5/00 (2006.01) C07K 7/06 (2006.01) C07K 7/64 (2006.01) C07K 16/18 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)</b>	[51] <b>Int.Cl. C07K 14/47 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01) C07K 5/00 (2006.01) C07K 7/06 (2006.01) C07K 7/64 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>C-TERMINAL EPITOPES IN AMYLOID BETA AND CONFORMATIONALLY-SELECTIVE ANTIBODIES THERETO</b>	[54] <b>EPITOPES IN AMYLOID BETA MID-REGION AND CONFORMATIONALLY-SELECTIVE ANTIBODIES THERETO</b>	[54] <b>EPITOPES IN AMYLOID BETA AND CONFORMATIONALLY-SELECTIVE ANTIBODIES THERETO</b>
[54] <b>EPITOPES EN C-TERMINAL DANS LA BETA-AMYLOIDE ET ANTICORPS CONFORMATIONNELS SELECTIFS ASSOCIES</b>	[54] <b>EPITOPES DANS LA REGION CENTRALE DE LA BETA-AMYLOIDE ET ANTICORPS CONFORMATIONNELS SELECTIFS ASSOCIES</b>	[54] <b>EPITOPES DANS LA BETA-AMYLOIDE ET ANTICORPS CONFORMATIONNELS SELECTIFS ASSOCIES</b>
[72] CASHMAN, NEIL R., CA	[72] CASHMAN, NEIL R., CA	[72] CASHMAN, NEIL R., CA
[72] PLOTKIN, STEVEN S., CA	[72] PLOTKIN, STEVEN S., CA	[72] PLOTKIN, STEVEN S., CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA	[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA	[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2018-05-07	[85] 2018-05-07	[85] 2018-05-07
[86] 2016-11-09 (PCT/CA2016/051301)	[86] 2016-11-09 (PCT/CA2016/051303)	[86] 2016-11-09 (PCT/CA2016/051304)
[87] (WO2017/079832)	[87] (WO2017/079833)	[87] (WO2017/079834)
[30] US (62/253,044) 2015-11-09	[30] US (62/253,044) 2015-11-09	[30] US (62/253,044) 2015-11-09
[30] US (62/352,346) 2016-06-20	[30] US (62/363,566) 2016-07-18	[30] US (62/309,765) 2016-03-17
[30] US (62/365,634) 2016-07-22	[30] US (62/365,634) 2016-07-22	[30] US (62/365,634) 2016-07-22
[30] US (62/393,615) 2016-09-12	[30] US (62/393,615) 2016-09-12	[30] US (62/393,615) 2016-09-12
[21] 3,004,495 [13] A1	[21] 3,004,495 [13] A1	[21] 3,004,497 [13] A1
[51] <b>Int.Cl. G01V 1/50 (2006.01) G01V 1/30 (2006.01)</b>	[51] <b>Int.Cl. G01V 1/50 (2006.01) G01V 1/30 (2006.01)</b>	[51] <b>Int.Cl. A01K 67/027 (2006.01) C12N 15/113 (2010.01) C07K 14/47 (2006.01) C12N 9/22 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>SYSTEM AND METHOD FOR MODELING THE EFFECTS OF FLUID CHANGES IN LOW POROSITY HYDROCARBON RESERVOIRS</b>	[54] <b>SYSTEM AND METHOD FOR MODELING THE EFFECTS OF FLUID CHANGES IN LOW POROSITY HYDROCARBON RESERVOIRS</b>	[54] <b>LARGE GENOMIC DNA KNOCK-IN AND USES THEREOF</b>
[54] <b>SYSTEME ET PROCEDE DE MODELISATION DES EFFETS DE CHANGEMENTS DE FLUIDE DANS DES RESERVOIRS D'HYDROCARBURES A FAIBLE POROSITE</b>	[54] <b>SYSTEME ET PROCEDE DE MODELISATION DES EFFETS DE CHANGEMENTS DE FLUIDE DANS DES RESERVOIRS D'HYDROCARBURES A FAIBLE POROSITE</b>	[54] <b>INSERTION CIBLEE DE SEQUENCE D'ADN GENOMIQUE VOLUMINEUX ET UTILISATIONS ASSOCIEES</b>
[72] SKELT, CHRISTOPHER HUGH, US	[72] SKELT, CHRISTOPHER HUGH, US	[72] BERGSTROM, DAVID, US
[71] CHEVRON U.S.A. INC., US	[71] CHEVRON U.S.A. INC., US	[72] LEIDY-DAVIS, TIFFANY, US
[85] 2018-05-04	[85] 2018-05-04	[71] THE JACKSON LABORATORY, US
[86] 2017-01-19 (PCT/US2017/014019)	[86] 2017-01-19 (PCT/US2017/014019)	[85] 2018-05-04
[87] (WO2017/127476)	[87] (WO2017/127476)	[86] 2016-11-07 (PCT/US2016/060788)
[30] US (15/004,053) 2016-01-22	[30] US (15/004,053) 2016-01-22	[87] (WO2017/079724)
		[30] US (62/252,080) 2015-11-06

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[51] **Int.Cl. C07K 14/47 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 25/28 (2006.01) A61P 37/04 (2006.01) C07K 5/00 (2006.01) C07K 5/10 (2006.01) C07K 7/64 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)**

[25] EN  
[54] **AMYLOID BETA EPITOPES AND ANTIBODIES THERETO**  
[54] **EPITOPES DE LA BETA-AMYLOIDE ET ANTICORPS ASSOCIES**

[72] CASHMAN, NEIL R., CA  
[72] PLOTKIN, STEVEN S., CA  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2018-05-07  
[86] 2016-11-09 (PCT/CA2016/051305)  
[87] (WO2017/079835)  
[30] US (62/253,044) 2015-11-09  
[30] US (62/289,893) 2016-02-01  
[30] US (62/365,634) 2016-07-22  
[30] US (62/393,615) 2016-09-12

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[51] **Int.Cl. A61C 19/04 (2006.01) A61B 5/107 (2006.01) A61B 6/00 (2006.01) A61C 19/06 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR SPATIAL POSITIONING OF DIAGNOSTIC AND OR TREATMENT PROBE BASED ON SURFACE PROFILE DETECTION**  
[54] **SYSTEMES ET PROCEDES DE POSITIONNEMENT SPATIAL D'UNE SONDE DE DIAGNOSTIC ET/OU DE TRAITEMENT SUR LA BASE D'UNE DETECTION DE PROFIL DE SURFACE**

[72] ABRAMS, STEPHEN, CA  
[72] SILVERTOWN, JOSH, CA  
[72] SIVAGURUNATHAN, KONESWARAN S., CA  
[71] QUANTUM DENTAL TECHNOLOGIES INC., CA

[85] 2018-05-07  
[86] 2016-11-10 (PCT/CA2016/051307)  
[87] (WO2017/079837)  
[30] US (62/253,303) 2015-11-10

[21] **3,004,500**  
[13] A1

[51] **Int.Cl. B60J 1/00 (2006.01) B60J 10/18 (2016.01) B60J 10/30 (2016.01) B60J 10/70 (2016.01) B60J 1/02 (2006.01) B62D 25/08 (2006.01)**

[25] FR  
[54] **GLAZING WITH INBUILT PROFILE STRIP**  
[54] **VITRAGE A PROFILE INTEGRE**

[72] KUSTER, HANS-WERNER, DE  
[72] OFFERMANN, VOLKMAR, DE  
[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2018-05-07  
[86] 2016-11-23 (PCT/FR2016/053058)  
[87] (WO2017/089702)  
[30] FR (1561226) 2015-11-23

[21] **3,004,501**  
[13] A1

[51] **Int.Cl. G08G 5/00 (2006.01) H04W 4/12 (2009.01) H04W 4/14 (2009.01)**

[25] EN  
[54] **AIRCRAFT FLIGHT ITINERARY ALERTING SYSTEM**  
[54] **SYSTEME D'ALERTE D'ITINERAIRE DE VOL D'UN AVION**

[72] KLEYWEGT, MICHAEL, CA  
[71] AIRSUITE INC., CA

[85] 2018-05-07  
[86] 2016-11-14 (PCT/CA2016/051318)  
[87] (WO2017/079846)  
[30] US (62/255,045) 2015-11-13

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[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01) B23P 15/28 (2006.01) B28D 1/18 (2006.01)**

[25] EN  
[54] **TOOL FOR FASTENING ON A MACHINE**  
[54] **OUTIL A FIXER SUR UNE MACHINE**

[72] KRAEMER, ULRICH, DE  
[72] SMEETS, FLORIAN, DE  
[72] MOOSMANN, BERNHARD, DE  
[72] KERN, JOCHEN, DE  
[71] BETEK GMBH & CO. KG, DE

[85] 2018-05-07  
[86] 2016-10-28 (PCT/EP2016/076025)  
[87] (WO2017/076760)  
[30] DE (10 2015 119 125.3) 2015-11-06

[21] **3,004,503**  
[13] A1

[51] **Int.Cl. C01B 21/086 (2006.01) C01B 21/093 (2006.01) C07C 303/40**

(2006.01)

[25] EN  
[54] **METHOD FOR THE PREPARATION OF BIS(FLUOROSULFONYL)-IMIDE AND OF ITS SALTS**  
[54] **PROCEDE DE PREPARATION DE BIS(FLUOROSULFONYL)IMIDE ET DE SES SELS**

[72] HORMES, ANNA-CHRISTINA, CH  
[72] KLEIN, ANDREAS, CH  
[72] SCHNIDER, CHRISTIAN, CH  
[72] GRUETZNER, THOMAS, CH  
[72] BERSIER, MICHAEL, CH  
[72] STUDER, PHILIPP, CH  
[72] TILLE, STEFAN, CH  
[72] LORENZ, DESIREE, CH  
[72] LORENZ, HILKE-MARIE, CH  
[72] HASSE, HANS, DE  
[72] VON HARBOU, ERIK, DE  
[72] NEUHAUS, JOHANNES, DE  
[71] LONZA LTD, CH

[85] 2018-05-07  
[86] 2016-10-26 (PCT/EP2016/075836)  
[87] (WO2017/080831)  
[30] US (62/254,860) 2015-11-13  
[30] EP (15194513.6) 2015-11-13  
[30] EP (15195231.4) 2015-11-18  
[30] US (62/290,523) 2016-02-03  
[30] EP (16153983.8) 2016-02-03  
[30] EP (16160245.3) 2016-03-15  
[30] US (62/308,313) 2016-03-15  
[30] EP (16160248.7) 2016-03-15  
[30] EP (16163043.9) 2016-03-30  
[30] EP (16163045.4) 2016-03-30  
[30] EP (16163835.8) 2016-04-05  
[30] EP (16164023.0) 2016-04-06  
[30] EP (16164146.9) 2016-04-07  
[30] EP (16164148.5) 2016-04-07  
[30] EP (16164371.3) 2016-04-08  
[30] EP (16164373.9) 2016-04-08  
[30] EP (16164593.2) 2016-04-11  
[30] EP (16164595.7) 2016-04-11  
[30] EP (16167626.7) 2016-04-29  
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[30] EP (16180254.1) 2016-07-20  
[30] EP (16180255.8) 2016-07-20  
[30] EP (16180274.9) 2016-07-20  
[30] EP (16188590.0) 2016-09-13  
[30] EP (16188591.8) 2016-09-13  
[30] EP (16189382.1) 2016-09-19  
[30] EP (16189474.6) 2016-09-19  
[30] EP (16189383.9) 2016-09-19  
[30] EP (16189478.7) 2016-09-19  
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[30] EP (16195489.6) 2016-10-25

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[51] **Int.Cl. G01N 33/50 (2006.01) A61K 31/00 (2006.01) C12Q 1/68 (2018.01) G01N 1/28 (2006.01) G01N 1/34 (2006.01) G01N 1/36 (2006.01) G01N 33/574 (2006.01)**

[25] EN  
[54] **REPRESENTATIVE DIAGNOSTICS**  
[54] **DIAGNOSTIC REPRESENTATIF**  
[72] ALEXANDER, NELSON, US  
[72] BARHOUMI, AOUNE, US  
[72] DAY, MELINDA, US  
[72] GALLEGOS, LISA, US  
[72] LEITH, KATHERINE, US  
[72] RAJKOVICH, SAMANTHA, US  
[72] ROBERTS, ESTEBAN, US  
[72] STANISLAW, STACEY, US  
[72] WALK, ERIC, US  
[71] VENTANA MEDICAL SYSTEMS, INC., US  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/US2016/060861)  
[87] (WO2017/079763)  
[30] US (62/252,153) 2015-11-06  
[30] US (62/279,405) 2016-01-15  
[30] US (62/354,622) 2016-06-24  
[30] US (62/418,146) 2016-11-04

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[13] A1

[51] **Int.Cl. A23D 7/00 (2006.01) A23D 7/01 (2006.01) A23D 7/015 (2006.01) A23D 7/02 (2006.01)**

[25] EN  
[54] **PROCESS FOR PREPARING A FAT SLURRY COMPRISING OLIVE OIL AND FOR PREPARING A SPREAD WITH SAID SLURRY**  
[54] **PROCEDE DE PREPARATION D'UNE BOUILLIE DE MATIERE GRASSE CONTENANT DE L'HUILE D'OLIVE ET DE PREPARATION D'UN PRODUIT A TARTINER AVEC LADITE BOUILLIE**  
[72] GREBENKAMPER, KAI, NL  
[72] LEENHOUTS, ABRAHAM, NL  
[72] THE, ROGIER ANTOINE FLORIS, NL  
[71] UNILEVER BCS LIMITED, GB  
[85] 2018-05-07  
[86] 2016-11-16 (PCT/EP2016/077801)  
[87] (WO2017/108275)  
[30] EP (15201653.1) 2015-12-21

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[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 45/06 (2006.01)**

[25] EN  
[54] **TREATMENT OF OSTEOARTHRITIS**  
[54] **TRAITEMENT DE L'OSTEOARTHRITE**  
[72] HOOD, JOHN, US  
[72] WALLACE, DAVID MARK, US  
[72] KC, SUNIL KUMAR, US  
[72] YAZICI, YUSUF, US  
[72] SWEARINGEN, CHRISTOPHER, US  
[72] DELLAMARY, LUIS A., US  
[71] SAMUMED, LLC, US  
[85] 2018-05-04  
[86] 2016-11-07 (PCT/US2016/060868)  
[87] (WO2017/079765)  
[30] US (62/252,332) 2015-11-06  
[30] US (62/303,168) 2016-03-03

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[13] A1

[51] **Int.Cl. B64F 5/00 (2017.01) B64D 45/00 (2006.01)**

[25] EN  
[54] **AIRCRAFT WEIGHT AND BALANCE TOOL SYSTEM**  
[54] **SYSTEME D'OUTIL D'EQUILIBRE ET DE POIDS D'AERONEF**  
[72] KLEYWEGT, MICHAEL, CA  
[71] AIRSUITE INC., CA  
[85] 2018-05-07  
[86] 2016-11-14 (PCT/CA2016/051322)  
[87] (WO2017/079848)  
[30] US (62/255,037) 2015-11-13

[21] **3,004,508**  
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01)**

[25] FR  
[54] **LAMINATED GLASS COMPRISING PRESSURE-SENSITIVE ADHESIVE**  
[54] **VITRAGE FEUILLETE A BASE D'ADHESIF SENSIBLE A LA PRESSION**  
[72] SOON, JIA-MEI, FR  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2018-05-07  
[86] 2016-11-28 (PCT/FR2016/053109)  
[87] (WO2017/093642)  
[30] FR (1561564) 2015-11-30

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[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61P 17/02 (2006.01)**

[25] EN  
[54] **PLASMINOGEN DOSAGE REGIMEN FOR WOUND HEALING**  
[54] **SCHEMA POSOLOGIQUE DE PLASMINOGENE POUR LA CICATRISATION DE PLAIES**  
[72] BERTHEIM, ULF, SE  
[72] NY, TOR, SE  
[72] LAURIN, PIERRE, CA  
[72] ROBITAILLE, MARTIN, CA  
[71] PROMETIC BIOTHERAPEUTICS, LTD., GB  
[85] 2018-05-07  
[86] 2016-11-10 (PCT/IB2016/001606)  
[87] (WO2017/081529)  
[30] US (62/253,352) 2015-11-10

[21] **3,004,510**  
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01)**

[25] FR  
[54] **LAMINATED GLASS COMPRISING PRESSURE-SENSITIVE ADHESIVE ON THE EXTERNAL SURFACE THEREOF**  
[54] **VITRAGE FEUILLETE A BASE D'ADHESIF SENSIBLE A LA PRESSION ASSOCIE A SA FACE EXTERNE**  
[72] SOON, JIA-MEI, FR  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2018-05-07  
[86] 2016-11-28 (PCT/FR2016/053110)  
[87] (WO2017/093643)  
[30] FR (1561561) 2015-11-30

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[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01)**  
[25] EN  
[54] **PREDICTIVE MAINTENANCE**  
[54] **MAINTENANCE**  
**CONDITIONNELLE**  
[72] HOLDEN, DAVID JOHN, NL  
[72] MILLER, ERIK GORDON, US  
[72] COCKING, ANDREW JOHN, US  
[72] VOORDEN, BERT-TEN, US  
[72] STEED, MICHAEL A., US  
[72] WALDOWSKI, TIMOTHY JAMES,  
US  
[72] GOEL, KARNIKA, NL  
[71] DIVERSEY, INC., US  
[85] 2018-05-04  
[86] 2016-11-08 (PCT/US2016/060882)  
[87] (WO2017/083240)  
[30] US (62/254,534) 2015-11-12

[21] **3,004,512**  
[13] A1

[51] **Int.Cl. A23L 29/206 (2016.01) A23L**  
**27/60 (2016.01) A23L 29/10 (2016.01)**  
[25] EN  
[54] **PROCESS FOR THE**  
**MANUFACTURE OF AN**  
**AQUEOUS DISPERSION**  
**COMPRISING MUSTARD BRAN**  
**AND OIL-IN-WATER EMULSION**  
**CONTAINING SUCH DISPERSION**  
[54] **PROCEDE DE FABRICATION**  
**D'UNE DISPERSION AQUEUSE**  
**COMPRENANT DU SON DE**  
**MOUTARDE ET EMULSION**  
**D'HUILE DANS L'EAU**  
**CONTENANT UNE TELLE**  
**DISPERSION**  
[72] BERGWERFF, EDWIN, NL  
[72] BIALEK, JADWIGA MALGORZATA,  
NL  
[72] SCHUMM, STEPHAN GEORG, NL  
[72] NIJSSE, JACOB, NL  
[71] UNILEVER PLC, GB  
[85] 2018-05-07  
[86] 2016-11-02 (PCT/EP2016/076328)  
[87] (WO2017/080872)  
[30] EP (15194462.6) 2015-11-13

[21] **3,004,513**  
[13] A1

[51] **Int.Cl. A61N 1/02 (2006.01) A61N**  
**1/00 (2006.01) A61N 1/04 (2006.01)**  
**A61N 1/18 (2006.01)**  
[25] EN  
[54] **TRANSCUTANEOUS**  
**ELECTRICAL MUSCLE**  
**STIMULATION DEVICE FOR THE**  
**TREATMENT OF PREMATURE**  
**EJACULATION OR ERECTILE**  
**DYSFUNCTION, AND METHODS**  
**OF USE THEREOF**  
[54] **DISPOSITIF DE STIMULATION**  
**MUSCULAIRE ELECTRIQUE**  
**TRANSCUTANEE POUR LE**  
**TRAITEMENT DE**  
**L'EJACULATION PRECOCE OU**  
**DE LA DYSERECTION, ET SES**  
**PROCEDES D'UTILISATION**  
[72] GOLLAN, TAL, IL  
[71] VIRILITY MEDICAL LTD., IL  
[85] 2018-05-07  
[86] 2016-11-17 (PCT/IB2016/001731)  
[87] (WO2017/089887)  
[30] US (62/259,960) 2015-11-25  
[30] US (62/377,010) 2016-08-19

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[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**  
[25] EN  
[54] **WEAR MEMBER**  
[54] **ELEMENT D'USURE**  
[72] CONGDON, THOMAS M., US  
[72] GRAHAM, SUSAN, US  
[72] FISHER, BART A., US  
[71] CATERPILLAR INC., US  
[85] 2018-05-04  
[86] 2016-11-08 (PCT/US2016/060919)  
[87] (WO2017/083264)  
[30] US (14/936,322) 2015-11-09

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[13] A1

[51] **Int.Cl. B02C 18/14 (2006.01) B02C**  
**18/18 (2006.01)**  
[25] EN  
[54] **TOOL SYSTEM**  
[54] **SYSTEME D'OUTIL**  
[72] SMEETS, FLORIAN, DE  
[72] KRAEMER, ULRICH, DE  
[71] BETEK GMBH & CO. KG, DE  
[85] 2018-05-07  
[86] 2016-11-02 (PCT/EP2016/076399)  
[87] (WO2017/076884)  
[30] DE (10 2015 119 119.9) 2015-11-06

[21] **3,004,516**  
[13] A1

[51] **Int.Cl. H01H 13/70 (2006.01) G06F**  
**3/044 (2006.01) H03K 17/96 (2006.01)**  
[25] EN  
[54] **REMOTE CONTROL WITH**  
**STABILISATION FILM DESIGNED**  
**AS CAPACITIVE SENSOR**  
[54] **COMMANDE A DISTANCE**  
**COMPORTANT UN FILM DE**  
**STABILISATION SOUS FORME**  
**DE CAPTEUR CAPACITIF**  
[72] MAIER, FERDINAND, AT  
[71] FM MARKETING GMBH, AT  
[85] 2018-05-07  
[86] 2016-11-21 (PCT/EP2016/078357)  
[87] (WO2017/085328)  
[30] DE (10 2015 120 174.7) 2015-11-20

[21] **3,004,517**  
[13] A1

[51] **Int.Cl. G06T 7/13 (2017.01) G06T**  
**7/162 (2017.01) G06T 7/181 (2017.01)**  
[25] EN  
[54] **FAST AND AUTOMATED**  
**SEGMENTATION OF LAYERED**  
**IMAGE WITH HEURISTIC**  
**GRAPH SEARCH**  
[54] **SEGMENTATION RAPIDE ET**  
**AUTOMATISEE D'UNE IMAGE EN**  
**COUCHES A L'AIDE D'UNE**  
**RECHERCHE DE GRAPHE**  
**HEURISTIQUE**  
[72] REN, HUGANG, US  
[72] YU, LINGFENG, US  
[71] NOVARTIS AG, CH  
[85] 2018-05-07  
[86] 2016-12-02 (PCT/IB2016/057324)  
[87] (WO2017/098388)  
[30] US (14/966,694) 2015-12-11



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[21] **3,004,518**  
[13] A1

[51] **Int.Cl. F16J 15/18 (2006.01) F16J 15/40 (2006.01)**

[25] EN

[54] **BEARING WITH INTEGRAL DIVERTED LANTERN RING FOR A ROTARY MECHANICAL DEVICE**

[54] **PALIER A LANTERNE DEVIEE INTEGREE POUR DISPOSITIF MECANIQUE ROTATIF**

[72] GETTO, ANDREW, US

[72] HUARD, MICHAEL, US

[71] SEAL RYT CORPORATION, US

[85] 2018-05-04

[86] 2016-11-09 (PCT/US2016/061053)

[87] (WO2017/083329)

[30] US (14/935,897) 2015-11-09

[21] **3,004,519**  
[13] A1

[51] **Int.Cl. G05G 5/05 (2006.01)**

[25] EN

[54] **REMOTE-CONTROL SYSTEM WITH HOMOPOLAR MAGNETS**

[54] **TELECOMMANDE A AIMANTS A DISPOSITION HOMOPOLAIRE**

[72] MAIER, FERDINAND, AT

[71] FM MARKETING GMBH, AT

[85] 2018-05-07

[86] 2016-11-10 (PCT/EP2016/077282)

[87] (WO2017/081161)

[30] DE (10 2015 119 485.6) 2015-11-11

[21] **3,004,520**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR VALIDATION OF HASHED DATA VIA ACCEPTANCE FRAMES**

[54] **PROCEDE ET SYSTEME DE VALIDATION DE DONNEES HACHEES VIA DES TRAMES D'ACCEPTATION**

[72] DAVIS, STEVEN C., US

[71] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2018-05-07

[86] 2016-11-02 (PCT/US2016/060005)

[87] (WO2017/083143)

[30] US (14/938,213) 2015-11-11

[21] **3,004,521**  
[13] A1

[51] **Int.Cl. A61L 24/00 (2006.01) A61L 24/04 (2006.01)**

[25] EN

[54] **HEMOSTATIC COMPOSITION**

[54] **COMPOSITION HEMOSTATIQUE**

[72] ILAN, EREZ, IL

[72] FAINGOLD, OMRI, IL

[72] FREIZUS, NATALY, IL

[72] EAVRI, RONEN, IL

[72] LOONEY, DWAYNE, US

[72] DHANARAJ, SRIDEVI, US

[72] GALLOWAY, JAMES, US

[72] DANKER, WALTER, US

[71] OMRIX BIOPHARMACEUTICALS LTD., IL

[71] ETHICON, INC., US

[85] 2018-05-07

[86] 2016-11-08 (PCT/IL2016/000019)

[87] (WO2017/077525)

[30] IL (242496) 2015-11-08

[30] IL (242497) 2015-11-08

[30] US (62/252,785) 2015-11-09

[30] US (62/252,796) 2015-11-09

[21] **3,004,522**  
[13] A1

[51] **Int.Cl. A23K 10/18 (2016.01) A23K 20/174 (2016.01) A23K 20/189 (2016.01) A23K 20/20 (2016.01) A23K 50/30 (2016.01)**

[25] EN

[54] **FEED ADDITIVE COMPOSITION**

[54] **COMPOSITION D'ADDITIF ALIMENTAIRE**

[72] KIARIE, ELIJAH G., CA

[72] MILLAN, LUIS FERNANDO ROMERO, GB

[72] PAYLING, LAURA, GB

[72] WALSH, MARIA, GB

[72] LUND, SUSAN ARENT, DK

[71] DUPONT NUTRITION BIOSCIENCES APS, DK

[85] 2018-05-07

[86] 2016-11-04 (PCT/US2016/060607)

[87] (WO2017/083196)

[30] US (62/253,089) 2015-11-09

[21] **3,004,523**  
[13] A1

[51] **Int.Cl. G01L 9/00 (2006.01) G01L 11/02 (2006.01)**

[25] EN

[54] **OPTICAL PRESSURE SENSOR**

[54] **CAPTEUR DE PRESSION OPTIQUE**

[72] JOHANSEN, IB-RUNE, NO

[71] TUNABLE INFRARED TECHNOLOGIES AS, NO

[85] 2018-05-07

[86] 2016-11-29 (PCT/EP2016/079145)

[87] (WO2017/089624)

[30] NO (20151618) 2015-11-29

[21] **3,004,524**  
[13] A1

[51] **Int.Cl. A61L 24/06 (2006.01) A61L 24/00 (2006.01) A61L 24/04 (2006.01)**

[25] EN

[54] **HEMOSTATIC MIXTURE OF CELLULOSE-BASED SHORT AND LONG FIBERS**

[54] **MELANGE HEMOSTATIQUE DE FIBRES COURTES ET LONGUES A BASE DE CELLULOSE**

[72] ILAN, EREZ, IL

[72] FAINGOLD, OMRI, IL

[72] FREIZUS, NATALY, IL

[72] EAVRI, RONEN, IL

[72] LOONEY, DWAYNE, US

[72] DHANARAJ, SRIDEVI, US

[72] GALLOWAY, JAMES, US

[72] DANKER, WALTER, US

[71] OMRIX BIOPHARMACEUTICALS LTD., IL

[71] ETHICON, INC., US

[85] 2018-05-07

[86] 2016-11-08 (PCT/IL2016/000020)

[87] (WO2017/077526)

[30] IL (242496) 2015-11-08

[30] IL (242497) 2015-11-08

[30] US (62/252,785) 2015-11-09

[30] US (62/252,796) 2015-11-09

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[21] **3,004,525**  
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 5/18 (2006.01) B32B 5/24 (2006.01) B32B 25/10 (2006.01) B32B 27/12 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) E04B 1/80 (2006.01) E04C 2/284 (2006.01)**

[25] EN  
[54] **FOAM CONSTRUCTION BOARDS WITH EXPANDABLE GRAPHITE**  
[54] **PANNEAUX DE CONSTRUCTION EN MOUSSE A GRAPHITE EXPANSIBLE**  
[72] YAO, CHUNHUA, US  
[72] LETTS, JOHN, US  
[72] ZHOU, WENSHENG, US  
[71] FIRESTONE BUILDING PRODUCTS CO., LLC, US  
[85] 2018-05-04  
[86] 2016-11-09 (PCT/US2016/061072)  
[87] (WO2017/083345)  
[30] US (62/252,640) 2015-11-09

[21] **3,004,526**  
[13] A1

[51] **Int.Cl. A61F 2/44 (2006.01) A61F 2/30 (2006.01) A61F 2/46 (2006.01)**

[25] EN  
[54] **NUCLEAR IMPLANT APPARATUS**  
[54] **APPAREIL ET PROCEDE D'IMPLANT NUCLEAIRE SUIVANT UNE NUCLEOTOMIE PARTIELLE**  
[72] HIBRI, NADI S., US  
[72] FRANCIS, W. LOREN, US  
[72] NOVOTNY, MARK A., US  
[71] SPINAL STABILIZATION TECHNOLOGIES LLC, US  
[85] 2018-05-07  
[86] 2016-11-03 (PCT/US2016/060224)  
[87] (WO2017/079367)  
[30] US (14/934,987) 2015-11-06

[21] **3,004,527**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN  
[54] **METHODS FOR DETERMINING THE ORIGIN OF DNA MOLECULES**  
[54] **METHODES POUR DETERMINER L'ORIGINE DE MOLECULES D'ADN**  
[72] MANN, TOBIAS, US  
[71] PROGENITY, INC., US  
[85] 2018-05-04  
[86] 2016-11-09 (PCT/US2016/061107)  
[87] (WO2017/083366)  
[30] US (62/252,965) 2015-11-09

[21] **3,004,528**  
[13] A1

[51] **Int.Cl. C21D 1/667 (2006.01) B21B 45/02 (2006.01) C21D 9/573 (2006.01) C21D 11/00 (2006.01)**

[25] EN  
[54] **PROCESS AND DEVICE FOR COOLING A METAL SUBSTRATE**  
[54] **PROCEDE ET DISPOSITIF DE REFROIDISSEMENT D'UN SUBSTRAT METALLIQUE**  
[72] HAMIDE, MAKHLOUF, FR  
[72] ROMBERGER, CHARLES, US  
[72] BOREAN, JEAN-LUC, FR  
[72] REGNIER, MARIE-CHRISTINE, FR  
[71] ARCELORMITTAL, LU  
[85] 2018-05-07  
[86] 2016-12-29 (PCT/EP2016/082887)  
[87] (WO2017/114927)  
[30] IB (PCT/IB2015/060051) 2015-12-30

[21] **3,004,529**  
[13] A1

[51] **Int.Cl. G03B 19/00 (2006.01) G05B 15/00 (2006.01)**

[25] EN  
[54] **AERIAL PHOTOGRAPHY CAMERA SYSTEM**  
[54] **SYSTEME DE CAMERA DE PHOTOGRAPHIE AERIENNE**  
[72] ROZENBERG, OHAD, IL  
[72] SOMECH, HAIM, IL  
[71] ISRAEL AEROSPACE INDUSTRIES LTD., IL  
[85] 2018-05-07  
[86] 2016-11-01 (PCT/IL2016/051176)  
[87] (WO2017/090022)  
[30] IL (242790) 2015-11-26

[21] **3,004,530**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 38/19 (2006.01) A61K 39/395 (2006.01) C12N 15/86 (2006.01)**

[25] EN  
[54] **METHODS AND COMPOSITIONS COMPRISING TUMOR SUPPRESSOR GENE THERAPY AND IMMUNE CHECKPOINT BLOCKADE FOR THE TREATMENT OF CANCER**  
[54] **METHODES ET COMPOSITIONS COMPRENANT UNE THERAPIE GENIQUE SUPPRESSIVE DE TUMEUR ET LE BLOCAGE DU POINT DE CONTROLE IMMUNITAIRE POUR LE TRAITEMENT DU CANCER**  
[72] SOBOL, ROBERT E., US  
[72] MENANDER, KERSTIN B., US  
[72] CHADA, SUNIL, US  
[71] MULTIVIR INC., US  
[85] 2018-05-07  
[86] 2016-11-07 (PCT/US2016/060833)  
[87] (WO2017/079746)  
[30] US (62/252,453) 2015-11-07  
[30] US (62/276,615) 2016-01-08  
[30] US (62/333,817) 2016-05-09  
[30] US (62/345,094) 2016-06-03  
[30] US (62/408,879) 2016-10-17

[21] **3,004,531**  
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A01N 25/30 (2006.01) A61K 8/89 (2006.01) A61K 8/97 (2017.01) A61Q 5/02 (2006.01) A61Q 5/12 (2006.01) A61Q 19/10 (2006.01)**

[25] EN  
[54] **PET CARE COMPOSITIONS**  
[54] **COMPOSITIONS DE SOINS POUR ANIMAUX DOMESTIQUES**  
[72] HANSEN, ERIC ANTHONY, US  
[72] PEYROT, JACQUES, FR  
[72] LEFEVRE, JEAN-MARIE, FR  
[72] HUMBERT, PHILIPPE, FR  
[72] MARIENAC, GENEVIEVE, FR  
[71] MERIAL, INC., US  
[85] 2018-05-07  
[86] 2016-11-09 (PCT/US2016/061052)  
[87] (WO2017/083328)  
[30] US (62/252,958) 2015-11-09

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[21] **3,004,532**  
[13] A1

[51] **Int.Cl. C21D 9/573 (2006.01) C21D 1/667 (2006.01) C21D 9/63 (2006.01) F27D 15/02 (2006.01)**

[25] EN

[54] **CONTINUOUS-FLOW COOLING APPARATUS AND METHOD OF COOLING A METAL STRIP**

[54] **DISPOSITIF DE REFROIDISSEMENT EN CONTINU ET PROCEDE DE REFROIDISSEMENT D'UNE BANDE METALLIQUE**

[72] SCHAFFER, DIRK, DE  
[72] NOE, ANDREAS, DE  
[72] VON DER OHE, THOMAS, DE  
[71] BWG BERGWERK- UND WALZWERK-MASCHINENBAU GMBH, DE  
[85] 2018-05-07  
[86] 2017-01-10 (PCT/EP2017/050401)  
[87] (WO2017/133867)  
[30] DE (10 2016 102 093.1) 2016-02-05

[21] **3,004,533**  
[13] A1

[51] **Int.Cl. B08B 1/00 (2006.01) B08B 7/00 (2006.01) B65G 1/02 (2006.01) B65G 1/04 (2006.01)**

[25] EN

[54] **CLEANING BIN FOR CLEANING A STORAGE GRID OF A STORAGE SYSTEM**

[54] **BAC DE NETTOYAGE POUR NETTOYER UNE GRILLE DE STOCKAGE D'UN SYSTEME DE STOCKAGE**

[72] HOGNALAND, INGVAR, NO  
[72] FJELDHEIM, IVAR, NO  
[72] AUSTRHEIM, TROND, NO  
[71] AUTOSTORE TECHNOLOGY AS, NO  
[85] 2018-05-07  
[86] 2017-01-31 (PCT/EP2017/051994)  
[87] (WO2017/134033)  
[30] NO (20160143) 2016-02-01

[21] **3,004,534**  
[13] A1

[51] **Int.Cl. C07D 491/147 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **FUSED PYRIMIDINES AS ISOFORM SELECTIVE PHOSPHOINOSITIDE-3-KINASE-ALPHA INHIBITORS AND PROCESS FOR PREPARATION THEREOF**

[54] **PYRIMIDINES FUSIONNEES UTILISEES COMME INHIBITEURS DE LA PHOSPHOINOSITIDE 3-KINASE ALPHA SELECTIFS D'UNE ISOFORME ET LEUR PROCEDE DE PREPARATION**

[72] BHARATE, SANDIP BIBISHAN, IN  
[72] BHUSHAN, SHASHI, IN  
[72] MOHAMMED, SHABBER, IN  
[72] GURU, SANTOSH KUMAR, IN  
[72] BHARATE, SONALI SANDIP, IN  
[72] KUMAR, VIKAS, IN  
[72] MAHAJAN, GIRISH, IN  
[72] MINTOO, MUBASHIR JAVED, IN  
[72] MONDHE, DILIP MANIKRAO, IN  
[72] VISHWAKARMA, RAM, IN  
[71] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN  
[85] 2018-05-07  
[86] 2016-11-21 (PCT/IN2016/050416)  
[87] (WO2017/090058)  
[30] IN (3818/DEL/2015) 2015-11-23

[21] **3,004,535**  
[13] A1

[51] **Int.Cl. B60W 30/14 (2006.01) B60K 31/00 (2006.01)**

[25] EN

[54] **BRAKING/DRIVING FORCE CONTROL METHOD AND BRAKING/DRIVING FORCE CONTROL DEVICE**

[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE FORCE DE FREINAGE/D'ENTRAINEMENT**

[72] OHTA, MITSUNORI, JP  
[72] MIYASHITA, NAOKI, JP  
[72] SHIOZAWA, YUUKI, JP  
[71] NISSAN MOTOR CO., LTD., JP  
[85] 2018-05-07  
[86] 2015-11-09 (PCT/JP2015/005585)  
[87] (WO2017/081713)

[21] **3,004,536**  
[13] A1

[51] **Int.Cl. A61B 5/08 (2006.01) A61B 5/113 (2006.01) A61B 5/1455 (2006.01) A61F 5/56 (2006.01)**

[25] EN

[54] **A DEVICE TO DETECT, ASSESS AND TREAT SNORING, SLEEP APNEAS AND HYPOPNEAS**

[54] **DISPOSITIF POUR LA DETECTION, L'EVALUATION ET LE TRAITEMENT DE RONFLEMENT, D'APNEES ET D'HYPOPNEES DU SOMMEIL**

[72] GOLDSTEIN, DAVID, US  
[71] WHISPERSOM CORPORATION, US  
[85] 2018-05-07  
[86] 2015-11-07 (PCT/US2015/059632)  
[87] (WO2016/073965)  
[30] US (14/535,561) 2014-11-07

[21] **3,004,537**  
[13] A1

[51] **Int.Cl. B60L 9/18 (2006.01) B60W 30/00 (2006.01)**

[25] EN

[54] **BRAKING/DRIVING FORCE CONTROL METHOD AND BRAKING/DRIVING FORCE CONTROL DEVICE**

[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE FORCE DE FREINAGE/D'ENTRAINEMENT**

[72] SHIOZAWA, YUUKI, JP  
[72] KUBOTERA, KATSUAKI, JP  
[72] SUZUKI, TATSUYA, JP  
[72] MIYASHITA, NAOKI, JP  
[72] OHTA, MITSUNORI, JP  
[72] KASHIWAYA, TOMOYUKI, JP  
[72] OTA, SATOSHI, JP  
[71] NISSAN MOTOR CO., LTD., JP  
[85] 2018-05-07  
[86] 2015-11-09 (PCT/JP2015/005586)  
[87] (WO2017/081714)

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[21] **3,004,538**  
[13] A1

[51] **Int.Cl. G06F 11/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR IDENTIFYING RELATIONSHIPS IN SOCIAL MEDIA CONTENT**  
[54] **SYSTEMES ET PROCEDES POUR IDENTIFIER DES RELATIONS DANS UN CONTENU DE MEDIA SOCIAL**  
[72] REISCHER, ANDREW J., US  
[72] CONAHAN, NATASHA, US  
[72] ORRANGE, JOHN, US  
[72] BRIGHTWELL, SCOTT, US  
[71] SOCIAL SENTINEL, INC., US  
[85] 2018-05-07  
[86] 2015-11-24 (PCT/US2015/062432)  
[87] (WO2017/091214)

[21] **3,004,539**  
[13] A1

[51] **Int.Cl. F02P 5/15 (2006.01) F02B 23/06 (2006.01) F02B 23/08 (2006.01) F02M 61/14 (2006.01) F02P 13/00 (2006.01)**  
[25] EN  
[54] **CONTROL METHOD AND CONTROL DEVICE OF INTERNAL COMBUSTION ENGINE**  
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE COMMANDER UN MOTEUR A COMBUSTION INTERNE**  
[72] IWABUCHI, YOSHIHIKO, JP  
[72] TANAKA, DAISUKE, JP  
[72] UCHIDA, RYO, JP  
[71] NISSAN MOTOR CO., LTD., JP  
[85] 2018-05-07  
[86] 2015-11-10 (PCT/JP2015/081651)  
[87] (WO2017/081755)

[21] **3,004,582**  
[13] A1

[51] **Int.Cl. H04N 21/435 (2011.01) H04N 21/438 (2011.01)**  
[25] EN  
[54] **SERVICE LIST**  
[54] **Liste de services**  
[72] DESHPANDE, SACHIN G., US  
[71] SHARP KABUSHIKI KAISHA, JP  
[85] 2018-05-07  
[86] 2016-11-10 (PCT/JP2016/083381)  
[87] (WO2017/082352)  
[30] US (62/255,440) 2015-11-14

[21] **3,004,584**  
[13] A1

[51] **Int.Cl. A61K 31/5386 (2006.01) A61K 47/50 (2017.01) A61K 47/64 (2017.01) C07D 405/12 (2006.01) C07D 498/18 (2006.01) C07K 16/28 (2006.01)**  
[25] EN  
[54] **ANTI-CD22 ANTIBODY-MAYTANSINE CONJUGATES AND METHODS OF USE THEREOF**  
[54] **CONJUGUES ANTICORPS ANTI-HER22-MAYTANSINE ET METHODES D'UTILISATION DE CEUX-CI**  
[72] RABUKA, DAVID, US  
[72] MCFARLAND, JESSE M., US  
[72] DRAKE, PENELOPE M., US  
[72] BARFIELD, ROBYN M., US  
[71] R.P. SCHERER TECHNOLOGIES, LLC, US  
[85] 2018-05-07  
[86] 2016-11-08 (PCT/US2016/060996)  
[87] (WO2017/083306)  
[30] US (62/252,985) 2015-11-09

[21] **3,004,585**  
[13] A1

[51] **Int.Cl. A61K 31/195 (2006.01) A61K 9/00 (2006.01) A61K 31/4015 (2006.01) A61K 31/765 (2006.01) A61P 27/02 (2006.01) A61P 27/10 (2006.01) A61P 27/12 (2006.01) G02C 7/04 (2006.01)**  
[25] EN  
[54] **BIFUNCTIONAL MOLECULES CONTAINING PEG FOR USE IN INHIBITING CATARACTS AND PRESBYOPIA**  
[54] **MOLECULES BIFONCTIONNELLES CONTENANT PEG POUR UTILISATION DANS L'INHIBITION DES CATARACTES ET DE LA PRESBYTIE**  
[72] MUTHUKUMAR, MURUGAPPAN, US  
[71] THE UNIVERSITY OF MASSACHUSETTS, US  
[85] 2018-05-07  
[86] 2016-11-11 (PCT/US2016/061490)  
[87] (WO2017/083619)  
[30] US (62/254,863) 2015-11-13

[21] **3,004,586**  
[13] A1

[51] **Int.Cl. A63F 13/828 (2014.01)**  
[25] EN  
[54] **VISUALLY REPRESENTATING VIRTUAL FANTASY SPORTS CONTESTS**  
[54] **COMPETITIONS SPORTIVES DE FICTION VIRTUELLES REPRESENTEES VISUELLEMENT**  
[72] CROCI, ALBERTO MURAT, US  
[72] KARLIN, MICHAEL JOSEPH, US  
[71] SPORTEL SYSTEMS, LLC, US  
[85] 2018-05-07  
[86] 2016-11-06 (PCT/US2016/060758)  
[87] (WO2017/079713)  
[30] US (62/251,954) 2015-11-06

[21] **3,004,587**  
[13] A1

[51] **Int.Cl. A61K 31/015 (2006.01) A61K 31/216 (2006.01) A61P 27/02 (2006.01)**  
[25] EN  
[54] **USE OF PROTEASOME INHIBITORS TO TREAT OCULAR DISORDERS**  
[54] **UTILISATION D'INHIBITEURS DU PROTEASOME AFIN DE TRAITER DE TROUBLES OCULAIRES**  
[72] COULON, RICK, US  
[71] ACCUITIS PHARMACEUTICALS, INC., US  
[85] 2018-05-04  
[86] 2016-10-24 (PCT/US2016/058402)  
[87] (WO2017/078953)  
[30] US (62/251,937) 2015-11-06

[21] **3,004,588**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04W 72/04 (2009.01) H04L 27/26 (2006.01)**  
[25] EN  
[54] **COMMUNICATION DEVICE, BASE STATION AND COMMUNICATION METHOD**  
[54] **DISPOSITIF DE COMMUNICATION, STATION DE BASE, ET PROCEDE DE COMMUNICATION**  
[72] UCHIYAMA, HIROMASA, JP  
[71] SONY CORPORATION, JP  
[85] 2018-05-07  
[86] 2017-01-12 (PCT/JP2017/000842)  
[87] (WO2017/135002)  
[30] JP (2016-020159) 2016-02-04

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[21] **3,004,589**  
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A01N 25/30 (2006.01) A61K 8/892 (2006.01) A61K 8/97 (2017.01) A61Q 5/02 (2006.01) A61Q 5/12 (2006.01) A61Q 19/10 (2006.01)**

[25] EN

[54] **PET CARE CLEANSING COMPOSITION**

[54] **COMPOSITION NETTOYANTE DE SOIN D'ANIMAL DOMESTIQUE**

[72] HANSEN, ERIC ANTHONY, US

[71] Merial Inc., US

[85] 2018-05-07

[86] 2016-11-09 (PCT/US2016/061048)

[87] (WO2017/083326)

[30] US (62/252,958) 2015-11-09

[21] **3,004,590**  
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR TREATMENT OF AN ARTIFICIAL BONE IMPLANT WITH BLOOD**

[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT D'IMPLANT OSSEUX ARTIFICIEL AVEC DU SANG**

[72] SROUJI, SAMER, IL

[71] HEALTH CORPORATION OF GALILEE MEDICAL CENTER, IL

[85] 2018-05-03

[86] 2016-11-03 (PCT/IL2016/051196)

[87] (WO2017/077542)

[30] US (62/249,980) 2015-11-03

[21] **3,004,591**  
[13] A1

[51] **Int.Cl. B29C 45/20 (2006.01) B29C 45/23 (2006.01)**

[25] EN

[54] **VALVE STEM ACTUATION**

[54] **ACTIONNEMENT DE TIGE DE SOUPAPE**

[72] FERENC, STEPHEN DANIEL, CA

[72] KEIR, WILLIAM STEVEN, CA

[72] WHITE, BRANDON DOUGLAS, US

[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA

[85] 2018-05-04

[86] 2016-11-14 (PCT/CA2016/051317)

[87] (WO2017/088044)

[30] US (62/258,704) 2015-11-23

[30] US (62/290,252) 2016-02-02

[21] **3,004,592**  
[13] A1

[51] **Int.Cl. H04W 36/08 (2009.01)**

[25] EN

[54] **ELECTRONIC DEVICE AND WIRELESS COMMUNICATION METHOD IN WIRELESS COMMUNICATION SYSTEM**

[54] **DISPOSITIF ELECTRONIQUE ET PROCEDE DE COMMUNICATION SANS FIL DANS UN SYSTEME DE COMMUNICATION SANS FIL**

[72] XU, XIAODONG, CN

[72] ZHANG, YI, CN

[72] XIAO, YUNQIU, CN

[72] WANG, CE, CN

[72] KE, XI, CN

[72] HU, BINGSHAN, CN

[71] SONY CORPORATION, JP

[85] 2018-05-04

[86] 2016-10-24 (PCT/CN2016/103020)

[87] (WO2017/076177)

[30] CN (201510751026.4) 2015-11-05

[21] **3,004,593**  
[13] A1

[51] **Int.Cl. G06F 19/16 (2011.01) G06F 19/10 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PREDICTING MISFOLDED PROTEIN EPITOPES BY COLLECTIVE COORDINATE BIASING**

[54] **SYSTEMES ET PROCEDES DE PREDICTION D'EPITOPES DE PROTEINE MAL REPLIES PAR SOLLICITATION DE COORDONNEES COLLECTIVES**

[72] PLOTKIN, STEVEN SAMUEL, CA

[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2018-05-07

[86] 2016-11-09 (PCT/CA2016/051306)

[87] (WO2017/079836)

[30] US (62/253,044) 2015-11-09

[30] US (62/289,893) 2016-02-01

[30] US (62/309,765) 2016-03-17

[30] US (62/331,925) 2016-05-04

[30] US (62/352,346) 2016-06-20

[30] US (62/363,566) 2016-07-18

[30] US (62/365,634) 2016-07-22

[30] US (62/393,615) 2016-09-12

[21] **3,004,594**  
[13] A1

[51] **Int.Cl. G06F 17/30 (2006.01)**

[25] EN

[54] **CAUSE BACKTRACING METHOD**

[54] **PROCEDE DE TRACAGE DE RAISON**

[72] ZHANG, BIN, CN

[71] SUZHOU SENIOR ELITE INFORMATION TECHNOLOGY CO., LTD, CN

[85] 2018-05-07

[86] 2016-10-18 (PCT/CN2016/102358)

[87] (WO2017/084460)

[30] CN (201510796421.4) 2015-11-18

[21] **3,004,595**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) C07D 401/06 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING, AS ACTIVE INGREDIENT, 7-AZAINDOLIN-2-ONE DERIVATIVE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT, EN TANT QUE PRINCIPE ACTIF, UN DERIVE OU UN SEL PHARMACEUTIQUEMENT ACCEPTABLE DE 7-AZAINDOLIN-2-ONE**

[72] JEONG, BYEONG-SEON, KR

[72] KIM, JUNG-AE, KR

[72] NAM, TAE-GYU, KR

[71] LG CHEM, LTD., KR

[85] 2018-05-07

[86] 2016-10-31 (PCT/KR2016/012409)

[87] (WO2017/082569)

[30] KR (10-2015-0158695) 2015-11-12

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[21] **3,004,596**  
[13] A1

[51] **Int.Cl. B81B 1/00 (2006.01) B01L 3/00 (2006.01) B81C 1/00 (2006.01) C12M 3/00 (2006.01)**

[25] EN

[54] **MICROFLUIDIC PLATFORM FOR INVESTIGATING CELL-BASED INTERACTIONS**

[54] **PLATEFORME MICROFLUIDIQUE POUR L'ETUDE D'INTERACTIONS A BASE DE CELLULES**

[72] PAVESI, ANDREA, SG

[72] LIM, SEI HIEN, SG

[72] LIM, SWEE KHUAN, SG

[72] KUAN, CHEE MUN, SG

[71] AIM BIOTECH PTE. LTD., SG

[85] 2018-05-07

[86] 2015-11-09 (PCT/SG2015/050441)

[87] (WO2016/076795)

[30] US (62/077,942) 2014-11-11

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[21] **3,004,597**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF TREATING CANCER**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU CANCER**

[72] AVIGAN, DAVID, US

[72] ROSENBLATT, JACALYN, US

[72] KUFE, DONALD, US

[71] DANA-FARBER CANCER INSTITUTE, INC., US

[71] BETH ISRAEL DEACONESS MEDICAL CENTER, US

[85] 2018-05-07

[86] 2016-11-21 (PCT/US2016/063109)

[87] (WO2017/087954)

[30] US (62/257,945) 2015-11-20

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[21] **3,004,598**  
[13] A1

[51] **Int.Cl. B01J 8/02 (2006.01) B01D 45/08 (2006.01) B01J 8/00 (2006.01) B01J 8/24 (2006.01) B01J 8/34 (2006.01)**

[25] EN

[54] **PARTICLE DISENGAGEMENT DEVICE**

[54] **DISPOSITIF DE DESOLIDARISATION DE PARTICULES**

[72] CARROLL, CIAN SEAMUS, US

[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2018-05-07

[86] 2016-11-22 (PCT/US2016/063217)

[87] (WO2017/091525)

[30] US (62/259,126) 2015-11-24

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[21] **3,004,599**  
[13] A1

[51] **Int.Cl. G06F 7/00 (2006.01) G06F 17/30 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATED ADDRESS VERIFICATION**

[54] **SYSTEME ET PROCEDURE POUR LA VERIFICATION D'ADRESSE AUTOMATISEE**

[72] CHEN, TONG, US

[72] BALESKI, SUSAN, US

[72] RESKALA, ALEJANDRO, US

[71] TRANS UNION LLC, US

[85] 2018-05-07

[86] 2016-11-22 (PCT/US2016/063256)

[87] (WO2017/091545)

[30] US (62/259,507) 2015-11-24

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[21] **3,004,600**  
[13] A1

[51] **Int.Cl. F03D 17/00 (2016.01) F03D 9/25 (2016.01) F03D 7/04 (2006.01)**

[25] EN

[54] **METHOD FOR GRAPHICALLY PRESENTING SENSOR DATA OF MULTIPLE WIND TURBINES, DEVICE FOR THIS PURPOSE, AND SYSTEM COMPRISING SAID DEVICE**

[54] **PROCEDE DE REPRESENTATION GRAPHIQUE DE DONNEES DE CAPTEUR DE PLUSIEURS EOLIENNES AINSI QUE DISPOSITIF ET SYSTEME ASSOCIES**

[72] DEMUTH, SIMON, DE

[71] WOBLEN PROPERTIES GMBH, DE

[85] 2018-05-07

[86] 2016-11-09 (PCT/EP2016/077036)

[87] (WO2017/089130)

[30] DE (10 2015 120 307.3) 2015-11-24

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[21] **3,004,601**  
[13] A1

[51] **Int.Cl. G06Q 50/22 (2018.01) G06F 15/18 (2006.01)**

[25] EN

[54] **ACUTE MEDICAL CARE SYSTEM**

[54] **SYSTEME DE SOINS MEDICAUX DE COURTE DUREE**

[72] BARTHELL, EDWARD, US

[72] HEDGCOCK, ROBERT, US

[72] RUFER, JARED, US

[72] FISCHER, TIMOTHY, US

[71] EMOPTI, INC., US

[85] 2018-05-07

[86] 2016-11-22 (PCT/US2016/063390)

[87] (WO2017/091603)

[30] US (62/259,970) 2015-11-25

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[21] **3,004,602**  
[13] A1

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

[25] EN

[54] **APPARATUS FOR CONTROLLED HEART VALVE DELIVERY**

[54] **APPAREIL DE POSE CONTROLEE DE VALVE CARDIAQUE**

[72] DESROSIERS, JOHN J., US

[72] ANDERSON, AMANDA K., US

[72] BIALAS, MICHAEL R., US

[72] MADRID, GILBERT, US

[72] POPP, MICHAEL J., US

[72] NGUYEN, THANH V., US

[72] LIU, JUN, US

[72] METCHIK, ASHER L., US

[72] PATEL, DARSHIN S., US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2018-05-07

[86] 2016-11-22 (PCT/US2016/063394)

[87] (WO2017/091605)

[30] US (62/258,973) 2015-11-23

[30] US (15/351,823) 2016-11-15

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[21] **3,004,603**  
[13] A1

[51] **Int.Cl. B01J 23/888 (2006.01) B01J 37/08 (2006.01) C10G 49/04 (2006.01)**

[25] EN

[54] **CRYSTALLINE BIS-AMMONIA TRANSITION METAL MOLYBDOTUNGSTATE**

[54] **MOLYBDO TUNGSTATE METALLIQUE DE TRANSITION BIS-AMMONIAC CRISTALLIN**

[72] MILLER, STUART, US

[72] COLLINS, LAURA, US

[72] KOSTER, SUSAN C., US

[71] UOP LLC, US

[85] 2018-05-07

[86] 2016-12-13 (PCT/US2016/066259)

[87] (WO2017/106125)

[30] US (62/267,865) 2015-12-15

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[21] **3,004,604**  
[13] A1

[51] **Int.Cl. C09K 8/584 (2006.01) C09K 8/36 (2006.01)**

[25] EN

[54] **DEMULSIFIER COMPOSITIONS FOR TREATMENT OF SUBTERRANEAN FORMATIONS AND PRODUCED OIL**

[54] **COMPOSITIONS DE DESEMULSIFIANT POUR LE TRAITEMENT DE FORMATIONS SOUTERRAINES ET PETROLE PRODUIT**

[72] PALLA-VENKATA, CHANDRA SEKHAR, US

[72] HOLTSCLOW, JEREMY A., US

[72] RECIO, ANTONIO, III, US

[72] HOLAN, KRISTINA HENKEL, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-05-07

[86] 2015-12-07 (PCT/US2015/064210)

[87] (WO2017/099706)

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[21] **3,004,605**  
[13] A1

[51] **Int.Cl. H01R 12/71 (2011.01) H01R 12/51 (2011.01)**

[25] EN

[54] **WALL PLATE CONNECTOR SYSTEM**

[54] **SYSTEME DE CONNECTEUR DE PLAQUE MURALE**

[72] DAILY, CHRISTOPHER GEORGE, US

[72] MOSTOLLER, MATTHEW EDWARD, US

[72] HOWARD, EDWARD JOHN, US

[71] TE CONNECTIVITY CORPORATION, US

[85] 2018-05-07

[86] 2016-11-08 (PCT/US2016/060899)

[87] (WO2017/083250)

[30] US (14/940,923) 2015-11-13

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[21] **3,004,606**  
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A45D 40/26 (2006.01) A45D 44/00 (2006.01) A61K 8/02 (2006.01) A61K 8/29 (2006.01) A61K 8/81 (2006.01) A61Q 1/02 (2006.01) B41J 3/407 (2006.01)**

[25] EN

[54] **TREATMENT COMPOSITIONS, APPARATUS AND METHODS FOR MODIFYING KERATINOUS SURFACES**

[54] **COMPOSITIONS DE TRAITEMENT, APPAREIL ET PROCEDES POUR MODIFIER DES SURFACES KERATINIQUES**

[72] LINGOES, JANETTE VILLALOBOS, US

[72] RABE, THOMAS ELLIOT, US

[72] STRIEMER, GRANT EDWARD ANDERS, US

[72] HA, ROBERT BAO KIM, US

[72] KUHLMAN, DENNIS EUGENE, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2018-05-07

[86] 2016-12-06 (PCT/US2016/065051)

[87] (WO2017/100150)

[30] US (14/961,073) 2015-12-07

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[21] **3,004,607**  
[13] A1

[51] **Int.Cl. C01G 41/02 (2006.01) C01G 99/00 (2010.01) C01G 45/02 (2006.01) C01G 49/02 (2006.01) C01G 51/04 (2006.01) C01G 53/04 (2006.01)**

[25] EN

[54] **CRYSTALLINE TRANSITION METAL OXY-HYDROXIDE MOLYBDOTUNGSTATE**

[54] **MATERIAU TUNGSTOMOLYBDIQUE, OXYHYDROXYDE DE METAL DE TRANSITION A STRUCTURE CRISTALLINE**

[72] MILLER, STUART, US

[72] KOSTER, SUSAN C., US

[71] UOP LLC, US

[85] 2018-05-07

[86] 2016-12-13 (PCT/US2016/066274)

[87] (WO2017/106133)

[30] US (62/267,870) 2015-12-15

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[21] **3,004,608**  
[13] A1

[51] **Int.Cl. E01F 13/04 (2006.01)**  
[25] EN  
[54] **SHOCK ABSORBING  
RETRACTABLE BOLLARD  
SYSTEMS**  
[54] **SYSTEMES DE BOLLARD  
RETRACTABLE  
D'AMORTISSEMENT**  
[72] WIEGEL, AARON J., US  
[72] SWIFT, DAVID, US  
[72] DONDLINGER, JASON, US  
[72] KORMAN, JOE, US  
[72] PARUCH, LUCAS I., US  
[72] SNYDER, RONALD P., US  
[71] RITE-HITE HOLDING  
CORPORATION, US  
[85] 2018-05-07  
[86] 2016-11-08 (PCT/US2016/060949)  
[87] (WO2017/083279)  
[30] US (14/939,602) 2015-11-12

[21] **3,004,609**  
[13] A1

[51] **Int.Cl. G10L 19/008 (2013.01)**  
[25] EN  
[54] **CHANNEL ADJUSTMENT FOR  
INTER-FRAME TEMPORAL  
SHIFT VARIATIONS**  
[54] **REGLAGE DE CANAL POUR  
VARIATIONS DE DECALAGE  
TEMPOREL INTER-FRAME**  
[72] ATTI, VENKATRAMAN, US  
[72] CHEBIYYAM, VENKATA  
SUBRAHMANYAM CHANDRA  
SEKHAR, US  
[72] SINDER, DANIEL JARED, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-07  
[86] 2016-12-09 (PCT/US2016/065860)  
[87] (WO2017/112434)  
[30] US (62/270,501) 2015-12-21  
[30] US (15/372,833) 2016-12-08

[21] **3,004,610**  
[13] A1

[51] **Int.Cl. G06F 17/21 (2006.01) G06Q  
10/10 (2012.01) G06Q 50/18 (2012.01)  
G06F 9/44 (2018.01) G06F 17/22  
(2006.01) G06F 17/24 (2006.01) G06F  
17/30 (2006.01)**  
[25] EN  
[54] **COLLABORATIVE DOCUMENT  
CREATION BY A PLURALITY OF  
DISTINCT TEAMS**  
[54] **CREATION COLLABORATIVE DE  
DOCUMENT PAR UNE  
PLURALITE D'EQUIPES  
DISTINCTES**  
[72] PORTIL, ROB, US  
[72] THEODORE, JAMES CHANCE, AU  
[71] NEXWRITER LIMITED, CN  
[85] 2018-05-07  
[86] 2016-11-09 (PCT/US2016/061073)  
[87] (WO2017/083346)  
[30] US (62/253,112) 2015-11-09  
[30] US (62/253,117) 2015-11-09  
[30] US (62/253,111) 2015-11-09  
[30] US (62/253,114) 2015-11-09

[21] **3,004,611**  
[13] A1

[51] **Int.Cl. C01G 39/02 (2006.01) C01G  
99/00 (2010.01) C01G 1/00 (2006.01)  
C01G 45/02 (2006.01) C01G 49/02  
(2006.01) C01G 51/04 (2006.01) C01G  
53/04 (2006.01)**  
[25] EN  
[54] **CRYSTALLINE TRANSITION  
METAL OXY-HYDROXIDE  
MOLYBDATE**  
[54] **OXY-HYDROXYDE MOLYBDATE  
DE METAL DE TRANSITION  
CRISTALLIN**  
[72] MILLER, STUART, US  
[72] KOSTER, SUSAN C., US  
[71] UOP LLC, US  
[85] 2018-05-07  
[86] 2016-12-13 (PCT/US2016/066250)  
[87] (WO2017/106117)  
[30] US (62/267,862) 2015-12-15

[21] **3,004,612**  
[13] A1

[51] **Int.Cl. A43B 3/00 (2006.01) A43C  
11/00 (2006.01) A43C 11/16 (2006.01)**  
[25] EN  
[54] **METHOD FOR LACING A SHOE,  
PARTICULARLY A SPORTS SHOE**  
[54] **PROCEDE POUR LE LACAGE  
D'UNE CHAUSSURE, EN  
PARTICULIER D'UNE  
CHAUSSURE DE SPORT**  
[72] BOCK, MARKUS, DE  
[72] MAUSSNER, RANDOLPH, DE  
[71] PUMA SE, DE  
[85] 2018-05-08  
[86] 2015-12-02 (PCT/EP2015/002425)  
[87] (WO2017/092775)

[21] **3,004,613**  
[13] A1

[51] **Int.Cl. A61C 17/10 (2006.01)**  
[25] EN  
[54] **IMPROVED ORAL CAVITY  
SUCTION DEVICE**  
[54] **DISPOSITIF AMELIORE  
D'ASPIRATION DANS LA CAVITE  
BUCCALE**  
[72] REYES, HARI MARK, US  
[71] REYES, HARI MARK, US  
[85] 2018-05-07  
[86] 2016-11-11 (PCT/US2016/061599)  
[87] (WO2017/099942)  
[30] US (62/263,867) 2015-12-07  
[30] US (15/146,567) 2016-05-04  
[30] US (15/265,707) 2016-09-14

[21] **3,004,614**  
[13] A1

[51] **Int.Cl. A61L 31/18 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR  
GENERATION, USE, AND  
DELIVERY OF ACTIVATED STEM  
CELLS**  
[54] **METHODES ET SYSTEMES POUR  
LA PRODUCTION,  
L'UTILISATION ET  
L'ADMINISTRATION DE  
CELLULES SOUCHES ACTIVEES**  
[72] OVOKAITYS, TODD FRANK, US  
[72] STRACHAN, JOHN SCOTT, GB  
[71] OVOKAITYS, TODD FRANK, US  
[85] 2018-05-07  
[86] 2016-11-11 (PCT/US2016/061673)  
[87] (WO2017/083755)  
[30] US (62/254,220) 2015-11-12  
[30] US (62/321,781) 2016-04-13



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[21] **3,004,615**  
[13] A1

[51] **Int.Cl. A61K 9/46 (2006.01) A61K 9/00 (2006.01) A61K 9/48 (2006.01)**

[25] EN

[54] **GASTRIC RETENTION ACTIVE DELIVERY SYSTEMS**

[54] **SYSTEMES D'ADMINISTRATION ACTIFS A RETENTION GASTRIQUE**

[72] ENGEL, ANDREA, DE

[72] GOTTSTEIN, THOMAS, DE

[72] LIEFKE, MELANIE, DE

[71] EVONIK TECHNOCHIMIE GMBH, DE

[85] 2018-05-08

[86] 2016-10-27 (PCT/EP2016/075872)

[87] (WO2017/080833)

[30] EP (15193887.5) 2015-11-10

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[21] **3,004,616**  
[13] A1

[51] **Int.Cl. C03C 1/00 (2006.01) B09B 3/00 (2006.01) C03B 5/00 (2006.01) C03B 37/05 (2006.01) C03C 13/06 (2006.01) C21B 5/00 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING ROCK WOOL AND RECOVERABLE CAST IRON**

[54] **PROCEDE DE PRODUCTION DE LAINE DE ROCHE ET DE FONTE VALORISABLE**

[72] SOKOLOFF, BRUNO, FR

[72] PICARD, LYONEL, FR

[71] EURECAT S.A, FR

[71] ECO'RING, FR

[85] 2018-05-08

[86] 2016-11-04 (PCT/EP2016/076630)

[87] (WO2017/080913)

[30] FR (1560700) 2015-11-09

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[21] **3,004,617**  
[13] A1

[51] **Int.Cl. C09K 8/04 (2006.01) C09K 8/06 (2006.01) C09K 8/08 (2006.01) C09K 8/20 (2006.01) C09K 8/24 (2006.01)**

[25] EN

[54] **ENVIRONMENTALLY FRIENDLY, NON-CLAY, AQUEOUS-BASED, BORATE CROSS-LINKER SLURRIES USING BORON-CONTAINING MATERIALS**

[54] **BOUES DE RETICULATION A BASE DE BORATE, NON ARGILEUSES, A BASE AQUEUSE, ECOLOGIQUES METTANT EN**

□ **UVRE DES MATIERES CONTENANT DU BORE**

[72] CHOWDHARY, MANJIT S., US

[71] RADIXKHEM, LLC, US

[85] 2018-05-07

[86] 2016-11-14 (PCT/US2016/061869)

[87] (WO2017/083837)

[30] US (62/255,015) 2015-11-13

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[21] **3,004,618**  
[13] A1

[51] **Int.Cl. E06B 3/58 (2006.01)**

[25] EN

[54] **PROFILE FOR FASTENING PANES**

[54] **PROFIL POUR LA FIXATION DE VITRES**

[72] KNAPP, FRIEDRICH, AT

[71] KNAPP GMBH, AT

[85] 2018-05-08

[86] 2016-11-09 (PCT/EP2016/077073)

[87] (WO2017/084919)

[30] EP (15195100.1) 2015-11-18

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[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) D04H 1/425 (2012.01) A47L 13/16 (2006.01) B32B 5/06 (2006.01) B32B 29/02 (2006.01)**

[25] EN

[54] **NONWOVEN COMPOSITE INCLUDING NATURAL FIBER WEB LAYER AND METHOD OF FORMING THE SAME**

[54] **COMPOSITE NON TISSE COMPRENANT UNE COUCHE DE BANDE DE FIBRE NATURELLE ET SON PROCEDE DE FORMATION**

[72] ZAJACZKOWSKI, PETER, US

[72] PARSONS, JOHN C., US

[72] RAMARATNAM, KARTHIK, US

[71] FIRST QUALITY NONWOVENS, INC., US

[85] 2018-05-07

[86] 2016-11-14 (PCT/US2016/061900)

[87] (WO2017/083856)

[30] US (62/254,528) 2015-11-12

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[21] **3,004,620**  
[13] A1

[51] **Int.Cl. A61G 12/00 (2006.01) A47B 88/47 (2017.01) A61J 7/00 (2006.01) G06F 19/00 (2018.01)**

[25] EN

[54] **A MEDICAL TECHNOLOGY STATION AND METHOD OF USE**

[54] **STATION DE TECHNOLOGIE MEDICALE ET PROCEDE D'UTILISATION**

[72] VOLEK, ROBERT, US

[72] FINNERTY, JACK, GB

[72] CHEN, JIN, US

[72] SOSNIAK, KRZYSZTOF, US

[72] IPINCE, MARCEL, US

[72] PFEIFFER, CHARLES, US

[72] PIOTROWSKI, ADAM, US

[72] TAN, HARRY, CN

[71] HUMANSSCALE CORPORATION, US

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[86] 2016-11-14 (PCT/US2016/061911)

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[13] A1

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[54] **CASE HOLDER DEVICE FOR MOTORCYCLES**  
[54] **DISPOSITIF SUPPORT DE COFFRE POUR MOTOCYCLES**  
[72] MORONI, MARCO, IT  
[72] PANZIERA, EDOARDO GIACOMO, CH  
[72] MARABESE, RICCARDO, IT  
[71] QUADRO VEHICLES S.A., CH  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/EP2016/077430)  
[87] (WO2017/081251)  
[30] IT (102015000071855) 2015-11-12

[21] **3,004,622**  
[13] A1

[51] **Int.Cl. C12P 11/00 (2006.01) C12P 7/00 (2006.01) C12P 7/40 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PRODUCTION AND EXTRACTION OF DIHYDROLIPOIC ACID**  
[54] **PROCEDE POUR LA PRODUCTION ET L'EXTRACTION DE L'ACIDE DIHYDROLIPOIQUE**  
[72] MARSHALL, ROBERT J., US  
[72] LABINSKY, NICKOLAS, US  
[72] DUNHAM, LINDSEY, US  
[72] RATKOVICH, MICHAEL, US  
[72] TRIKOSKO, WALTER, US  
[71] PREMIER RESEARCH LABS, LP, US  
[85] 2018-05-07  
[86] 2016-11-16 (PCT/US2016/062228)  
[87] (WO2017/087488)  
[30] US (14/943,185) 2015-11-17

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[13] A1

[51] **Int.Cl. C07D 405/06 (2006.01) A61K 31/4427 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **A SOLID STATE FORM OF PLADIENOLIDE PYRIDINE COMPOUNDS AND METHODS OF USE**  
[54] **FORME D'ETAT SOLIDE DE COMPOSES DE PLADIENOLIDE-PYRIDINE ET PROCEDES POUR LEUR UTILISATION**  
[72] KEANEY, GREGG F., US  
[72] WANG, JOHN, US  
[72] GERARD, BAUDOUIN, US  
[72] ARAI, KENZO, JP  
[72] LIU, XIANG, US  
[72] KIRA, KAZUNOBU, JP  
[72] TIVITMAHAISOON, PARCHAREE, US  
[72] PRAJAPATI, SUDEEP, US  
[72] KOTAKE, YOSHIHIKO, JP  
[72] MIYANO, MASAYUKI, JP  
[72] MURAI, NORIO, JP  
[72] BUONAMICI, SILVIA, US  
[72] YU, LIHUA, US  
[72] PAZOLLI, ERMIRA, US  
[72] ZHENG, GUO ZHU, US  
[72] GEARHART, NICHOLAS C., US  
[72] NAGAO, SATOSHI, JP  
[72] KANADA SONABE, REGINA MIKIE, JP  
[72] PARK, EUNICE SUN, US  
[72] CHAN, BETTY, US  
[72] SMITH, PETER G., US  
[72] THOMAS, MICHAEL P., US  
[72] LIM, KIAN HUAT, US  
[72] CHANDA, ARANI, US  
[72] ENDO, ATSUSHI, US  
[71] EISAI R&D MANAGEMENT CO., LTD., JP  
[85] 2018-05-07  
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[87] (WO2017/087667)  
[30] US (62/257,088) 2015-11-18

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[51] **Int.Cl. A01H 1/04 (2006.01) A01H 5/10 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **BRASSICACEAE PLANTS RESISTANT TO PLASMODIOPHORA BRASSICAE (CLUBROOT)**  
[54] **BRASSICACEES RESISTANTES A PLASMODIOPHORA BRASSICAE (HERNIE)**  
[72] ENGELEN, STEVEN, BE  
[72] VAN THOURNOUT, MICHEL, BE  
[72] RAE, STEPHEN, BE  
[72] CROMMAR, KIM, BE  
[72] HOSTYN, VANESSA, BE  
[72] CHONGO, GODFREY, CA  
[71] BAYER CROPS SCIENCE NV, BE  
[71] BAYER CROPS SCIENCE LP, US  
[85] 2018-05-07  
[86] 2016-12-15 (PCT/EP2016/081146)  
[87] (WO2017/102923)  
[30] US (62/267,460) 2015-12-15

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[13] A1

[51] **Int.Cl. C01G 39/00 (2006.01) C01G 99/00 (2010.01) C01G 1/00 (2006.01) C01G 45/02 (2006.01) C01G 49/02 (2006.01) C01G 51/04 (2006.01) C01G 53/04 (2006.01)**  
[25] EN  
[54] **CRYSTALLINE BIS-AMMONIA METAL MOLYBDATE**  
[54] **MOLYBDATE DE METAL BIS-AMMONIAC CRISTALLIN**  
[72] MILLER, STUART, US  
[72] KOSTER, SUSAN C., US  
[71] UOP LLC, US  
[85] 2018-05-07  
[86] 2016-12-13 (PCT/US2016/066283)  
[87] (WO2017/106137)  
[30] US (62/267,857) 2015-12-15

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[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**  
[25] EN  
[54] **A DRINKS PREPARATION MACHINE FOR PREPARING A DRINK**  
[54] **MACHINE DE PREPARATION DE BOISSONS POUR LA PREPARATION D'UNE BOISSON**  
[72] ASCHWANDEN, IVO, CH  
[72] HILCKMANN, MARIUS, DE  
[72] STEIN, ROBERT, DE  
[71] QBO COFFEE GMBH, CH  
[85] 2018-05-08  
[86] 2016-11-28 (PCT/EP2016/079043)  
[87] (WO2017/093202)  
[30] EP (15197380.7) 2015-12-01

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[13] A1

[51] **Int.Cl. A61F 2/82 (2013.01) A61B 17/221 (2006.01) A61F 2/01 (2006.01)**  
[25] EN  
[54] **IMPLANTABLE DEVICES CAPABLE OF SELECTIVE DEGRADATION**  
[54] **DISPOSITIFS IMPLANTABLES APTES A SE DEGRADER SELECTIVEMENT**  
[72] CULLY, EDWARD H., US  
[72] VECCHIO, CHRISTOPHER J., US  
[71] W. L. GORE & ASSOCIATES, INC., US  
[85] 2018-05-07  
[86] 2017-01-12 (PCT/US2017/013099)  
[87] (WO2017/123694)  
[30] US (62/277,713) 2016-01-12  
[30] US (15/403,453) 2017-01-11

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[13] A1

[51] **Int.Cl. G01S 5/04 (2006.01) B66B 1/34 (2006.01) B66B 19/00 (2006.01) G05B 19/418 (2006.01)**  
[25] EN  
[54] **MONITORING AND/OR RECORDING A POSITION OF A TOOL IN AN ELEVATOR SHAFT**  
[54] **CONTROLE ET/OU ETABLISSEMENT DE PROTOCOLE D'UNE POSITION D'UN OUTIL DANS UNE CAGE D'ASCENSEUR**  
[72] STUDER, CHRISTIAN, CH  
[72] ZIMMERLI, PHILIPP, CH  
[72] KUSSEROW, MARTIN, CH  
[71] INVENTIO AG, CH  
[85] 2018-05-08  
[86] 2016-12-01 (PCT/EP2016/079503)  
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[30] EP (15197608.1) 2015-12-02

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[13] A1

[51] **Int.Cl. F24F 11/00 (2018.01) F24F 3/044 (2006.01) F24F 13/12 (2006.01) F24F 13/30 (2006.01)**  
[25] EN  
[54] **HVAC SYSTEM COMPRISING INDEPENDENTLY VARIABLE REFRIGERANT FLOW (VRF) AND VARIABLE AIR FLOW (VAF)**  
[54] **SYSTEME CVC COMPRENANT UN FLUX DE REFRIGERANT VARIABLE (VRF) ET UN FLUX D'AIR VARIABLE (VAB) INDEPENDANTS**  
[72] NELSON, JOHN, US  
[71] ADDISON HVAC LLC, US  
[85] 2018-05-07  
[86] 2017-01-14 (PCT/US2017/013605)  
[87] (WO2017/124055)  
[30] US (62/279,193) 2016-01-15

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[13] A1

[51] **Int.Cl. C07F 15/00 (2006.01) A61K 33/24 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **MONOMALEIMIDE-FUNCTIONALIZED PLATINUM COMPOUNDS FOR CANCER THERAPY**  
[54] **COMPOSES DE PLATINE A FONCTION MONOMALEIMIDE POUR LE TRAITEMENT DU CANCER**  
[72] KOWOL, CHRISTIAN, AT  
[72] HEFFETER, PETRA, AT  
[72] BERGER, WALTER, AT  
[72] KEPPLER, BERNHARD K., AT  
[72] MAYR, JOSEF, AT  
[72] PICHLER, VERENA, AT  
[71] MEDIZINISCHE UNIVERSITAT WIEN, AT  
[71] UNIVERSITAT WIEN, AT  
[85] 2018-05-08  
[86] 2016-12-09 (PCT/EP2016/080453)  
[87] (WO2017/097986)  
[30] EP (15198739.3) 2015-12-09

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[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01)**  
[25] EN  
[54] **IMMUNOGENIC COMPLEX FOR ELICITING PROTECTIVE IMMUNITY AGAINST GROUP B STREPTOCOCCUS**  
[54] **COMPLEXE IMMUNOGENE PROVOQUANT UNE IMMUNITE PROTECTRICE CONTRE UN STREPTOCOQUE DU GROUPE B**  
[72] PEDERSEN FISCHER, PER BO, DK  
[71] MINERVAX APS, DK  
[85] 2018-05-08  
[86] 2016-12-14 (PCT/EP2016/080927)  
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[25] EN  
[54] **POLYMORPHIC FORMS AND PROCESS**  
[54] **FORMES POLYMORPHES ET PROCEDE**  
[72] GRAVELLE, LISE, CA  
[72] PEDERSEN, ANDERS, DK  
[71] GALECTO BIOTECH AB, DK  
[85] 2018-05-08  
[86] 2016-12-16 (PCT/EP2016/081432)  
[87] (WO2017/103109)  
[30] EP (15201223.3) 2015-12-18

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[13] A1

[51] **Int.Cl. G06N 99/00 (2010.01)**  
[25] EN  
[54] **IN-SITU QUANTUM ERROR CORRECTION**  
[54] **CORRECTION D'ERREURS QUANTIQUES IN SITU**  
[72] KELLY, JULIAN SHAW, US  
[71] GOOGLE LLC, US  
[85] 2018-05-04  
[86] 2015-11-06 (PCT/US2015/059481)  
[87] (WO2017/078734)

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[13] A1

[51] **Int.Cl. A61K 31/7004 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **BIOMARKERS FOR TREATING CANCER WITH APILIMOD**  
[54] **BIOMARQUEURS DESTINES AU TRAITEMENT DU CANCER AU MOYEN D'APILIMOD**  
[72] GAYLE, SOPHIA, US  
[72] BEEHARRY, NEIL, US  
[72] LANDRETTE, SEAN, US  
[72] CONRAD, CHRIS, US  
[72] BECKETT, PAUL, US  
[72] HERNANDEZ, MARYLENS, US  
[72] XU, TIAN, US  
[72] ROTHBERG, JONATHAN M., US  
[72] LICHENSTEIN, HENRI, US  
[71] LAM THERAPEUTICS, INC., US  
[85] 2018-05-07  
[86] 2017-01-20 (PCT/US2017/014308)  
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[25] EN  
[54] **METHODOLOGIES AND APPARATUS FOR REDUCING DELAYS WHEN RECEIVING, PROCESSING, OR SWITCHING CONTENT**  
[54] **METHODOLOGIES ET APPAREIL POUR REDUIRE DES RETARDS LORS DE LA RECEPTION, DU TRAITEMENT, OU DE LA COMMUTATION D'UN CONTENU**  
[72] SHINTANI, PETER, US  
[72] BLANCHARD, ROBERT, US  
[71] SONY CORPORATION, JP  
[85] 2018-05-07  
[86] 2017-02-08 (PCT/US2017/016918)  
[87] (WO2017/142754)  
[30] US (15/048,276) 2016-02-19

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[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2006.01) A61P 1/00 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C07K 14/705 (2006.01)**  
[25] EN  
[54] **CYCLIC PEPTIDES TARGETING ALPHA.4.BETA.7 INTEGRIN**  
[54] **PEPTIDES CYCLIQUES CIBLANT L'INTEGRINE A4S7**  
[72] VAZQUEZ, MANUEL PEREZ, CA  
[72] MORSHED, M. MONZUR, CA  
[72] HICKEY, JENNIFER L., CA  
[72] KAFAL, ADAM PAUL, CA  
[72] GILLARD, JAMES, CA  
[72] CHAKKA, SAI KUMAR, CA  
[72] ROUGHTON, ANDREW L., CA  
[72] POUPART, MARC-ANDRE, CA  
[72] YANG, GAOQIANG, CA  
[72] PATEL, NARENDRA, CA  
[71] ENCYCLE THERAPEUTICS, INC., CA  
[71] UNIVERSITE DE MONTREAL, CA  
[85] 2018-05-08  
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[87] (WO2017/079820)  
[30] US (62/254,003) 2015-11-11

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[13] A1

[51] **Int.Cl. A61M 16/12 (2006.01) A61B 5/083 (2006.01) A61B 5/1455 (2006.01)**  
[25] EN  
[54] **METHOD, APPARATUS AND SYSTEM FOR AUTOMATICALLY CONTROLLING INSPIRED OXYGEN DELIVERY**  
[54] **PROCEDE, APPAREIL ET SYSTEME POUR COMMANDER AUTOMATIQUEMENT LA DISTRIBUTION D'OXYGENE INSPIRE**  
[72] GALE, TIMOTHY JOHN, AU  
[72] DARGAVILLE, PETER ANDERSON, AU  
[71] UNIVERSITY OF TASMANIA, AU  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/AU2016/051077)  
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[30] AU (2015904621) 2015-11-10

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[13] A1

[51] **Int.Cl. H04N 21/84 (2011.01)**  
[25] EN  
[54] **METHOD FOR IMPLEMENTING PERSONALIZED PRESENTATION OF ASSOCIATED MULTIMEDIA CONTENT, AND APPLICATION**  
[54] **PROCEDE DE MISE EN ŒUVRE DE PRESENTATION PERSONNALISEE DE CONTENU MULTIMEDIA ASSOCIE, ET APPLICATION**  
[72] XU, YILING, CN  
[72] ZHANG, WENJUN, CN  
[72] ZHU, WENJIE, CN  
[72] ZHANG, LIANGHUI, CN  
[72] CHEN, HAO, CN  
[72] LI, BO, CN  
[72] SUN, JUN, CN  
[72] LIU, NING, CN  
[71] SHANGHAI JIAO TONG UNIVERSITY, CN  
[85] 2018-05-08  
[86] 2016-02-02 (PCT/CN2016/073167)  
[87] (WO2016/127862)  
[30] CN (201510080011.X) 2015-02-13  
[30] CN (201510080580.4) 2015-02-13  
[30] CN (201510401550.9) 2015-07-09  
[30] CN (201510955611.6) 2015-12-17  
[30] CN (201610031034.6) 2016-01-18

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[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G05B 19/042 (2006.01) H04L 12/28 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR INTEGRATED MICROGRID MANAGEMENT SYSTEM IN ELECTRIC POWER SYSTEMS**  
[54] **SYSTEMES ET PROCEDES POUR UN SYSTEME DE GESTION DE MICRO-RESEAU INTEGRE DANS DES SYSTEMES ELECTRIQUES**  
[72] WONG, JOSHUA, CA  
[72] TAI, CEDRIC, CA  
[72] IRAVANI, REZA, CA  
[72] GRAOVAC, MILAN, CA  
[72] WANG, XIAOLIN, CA  
[72] HARISUTHAN, SUBRAMANIAM, CA  
[71] OPUS ONE SOLUTIONS ENERGY CORP., CA  
[85] 2018-05-08  
[86] 2016-12-07 (PCT/CA2016/051436)  
[87] (WO2017/096477)  
[30] US (14/961,326) 2015-12-07

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[13] A1

[51] **Int.Cl. H04W 4/06 (2009.01)**  
[25] EN  
[54] **DYNAMIC TIME WINDOW AND BUFFER MECHANISM IN HETEROGENEOUS NETWORK TRANSMISSION**  
[54] **MECANISME A FENETRE TEMPORELLE ET TAMPON DYNAMIQUES EN EMISSION DE RESEAUX HETEROGENES**  
[72] XU, YILING, CN  
[72] ZHANG, WENJUN, CN  
[72] WANG, CHENGZHI, CN  
[72] SUN, JUN, CN  
[72] GUAN, YUNFENG, CN  
[72] HE, DAZHI, CN  
[72] LIU, NING, CN  
[71] SHANGHAI JIAO TONG UNIVERSITY, CN  
[85] 2018-05-08  
[86] 2016-02-02 (PCT/CN2016/073168)  
[87] (WO2016/124130)  
[30] CN (201510064427.2) 2015-02-06  
[30] CN (201510341265.2) 2015-06-18  
[30] CN (201510654384.3) 2015-10-10  
[30] CN (201510698388.1) 2015-10-23

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[13] A1

[51] **Int.Cl. H04W 48/14 (2009.01) H04W 12/06 (2009.01) H04W 48/16 (2009.01) H04W 60/00 (2009.01) H04W 84/12 (2009.01)**  
[25] EN  
[54] **ELECTRONIC DEVICE, COMMUNICATION METHOD OF ELECTRONIC DEVICE, AND COMMUNICATION METHOD OF MOBILE TERMINAL**  
[54] **DISPOSITIF ELECTRONIQUE, PROCEDE DE COMMUNICATION DE DISPOSITIF ELECTRONIQUE, ET PROCEDE DE COMMUNICATION DE TERMINAL MOBILE**  
[72] YANG, HEE KYUNG, KR  
[72] OH, HYUN CHEOL, KR  
[72] CHOI, JI-HYOUK, KR  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[85] 2018-05-04  
[86] 2016-12-08 (PCT/KR2016/014374)  
[87] (WO2017/116034)  
[30] KR (10-2015-0187065) 2015-12-28

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[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 34/00 (2016.01) A61B 34/10 (2016.01) G06T 7/10 (2017.01) A61B 8/13 (2006.01) G06F 17/30 (2006.01)**  
[25] EN  
[54] **A SYSTEM COMPRISING INDICATOR FEATURES IN HIGH-RESOLUTION MICRO-ULTRASOUND IMAGES**  
[54] **SYSTEME COMPRENANT DES ELEMENTS INDICATEURS DANS DES IMAGES MICRO-ECHOGRAPHIQUES A HAUTE RESOLUTION**  
[72] WODLINGER, BRIAN, CA  
[72] MCGRATH, THERESA, CA  
[72] WEN, JERROLD, CA  
[71] EXACT IMAGING, INC., CA  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/CA2016/051313)  
[87] (WO2017/079843)  
[30] US (62/253,310) 2015-11-10

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[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) B60L 11/18 (2006.01)**  
[25] FR  
[54] **RECHARGING STATION FOR ELECTRIC PUBLIC TRANSPORT VEHICLE, AND FACILITY COMPRISING SUCH A STATION**  
[54] **STATION DE RECHARGE POUR VEHICULE DE TRANSPORT EN COMMUN ELECTRIQUE ET INSTALLATION COMPRENANT UNE TELLE STATION**  
[72] DERRIEN, MARC, FR  
[72] LE BORGNE, MICHEL, FR  
[71] BLUETRAM, FR  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/EP2016/077355)  
[87] (WO2017/092999)  
[30] FR (1561617) 2015-11-30

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[21] **3,004,662**  
[13] A1

[51] **Int.Cl. C08F 2/06 (2006.01) C08F 2/00 (2006.01) C08F 6/00 (2006.01) C08F 6/12 (2006.01) C08J 11/02 (2006.01)**

[25] EN

[54] **A PROCESS AND APPARATUS FOR IN-LINE BLENDING OF POLYMERS**

[54] **PROCEDE ET APPAREIL POUR LE MELANGE DE POLYMERES EN LIGNE**

[72] AL-HAJ ALI, MOHAMMAD, FI  
[72] BERGSTRA, MICHIEL, BE  
[72] ERIKSSON, ERIK, SE  
[72] MATHIVANAN, GUHAN, AT  
[72] RASANEN, JUKKA, FI  
[72] SLEIJSTER, HENRY, NL  
[72] VIJAY, SAMEER, AT  
[72] WURNITSCH, CHRISTOF, AT  
[72] ZITTING, SAMULI, FI  
[72] KANELLOPOULOS, VASILEIOS, AT  
[72] AHO, JANI, FI  
[71] BOREALIS AG, AT  
[85] 2018-05-08  
[86] 2016-12-21 (PCT/EP2016/082207)  
[87] (WO2017/108969)  
[30] EP (15201460.1) 2015-12-21

[21] **3,004,663**  
[13] A1

[51] **Int.Cl. A63B 69/00 (2006.01)**

[25] EN

[54] **BASKETBALL SHOOTING TRAINING DEVICE**

[54] **DISPOSITIF D'ENTRAINEMENT DE LANCER DE BASKETBALL**

[72] LIAO, CHIEN-YI, CN  
[71] LIAO, CHIEN-YI, CN  
[85] 2018-05-08  
[86] 2016-10-20 (PCT/CN2016/102695)  
[87] (WO2017/088614)  
[30] US (14/949,852) 2015-11-23

[21] **3,004,664**  
[13] A1

[51] **Int.Cl. H05B 3/84 (2006.01) H01R 13/66 (2006.01)**

[25] EN

[54] **ASSEMBLY FOR CONNECTING A FLAT BODY TO A VOLTAGE SUPPLY WITH AN EMBEDDED CONTROL UNIT**

[54] **SYSTEME POUR LE RACCORDEMENT D'UN CORPS PLAN A UNE TENSION D'ALIMENTATION, COMPRENANT UNE UNITE DE COMMANDE INTEGREE**

[72] WEBER, PATRICK, DE  
[71] SAINT-GOBAIN GLASS FRANCE, FR  
[85] 2018-05-08  
[86] 2017-01-24 (PCT/EP2017/051347)  
[87] (WO2017/186360)  
[30] EP (16167244.9) 2016-04-27

[21] **3,004,665**  
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) A61K 48/00 (2006.01)**

[25] EN

[54] **TRANSPOSON SYSTEM, KIT COMPRISING THE SAME, AND USES THEREOF**

[54] **SYSTEME DE TRANSPOSON, KIT LE COMPRENANT ET UTILISATIONS CORRESPONDANTES**

[72] WU, SAREINA CHIUNG-YUAN, CN  
[71] GENOMEFRONTIER THERAPEUTICS, INC., GB  
[85] 2018-05-08  
[86] 2016-12-12 (PCT/CN2016/109510)  
[87] (WO2017/101749)  
[30] US (62/267,270) 2015-12-14

[21] **3,004,666**  
[13] A1

[51] **Int.Cl. C21B 13/14 (2006.01) C21B 13/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING LIQUID PIG IRON**

[54] **PROCEDE DE PRODUCTION DE FONTE BRUTE LIQUIDE**

[72] MILLNER, ROBERT, AT  
[72] PANHUBER, WOLFGANG, AT  
[72] REIN, NORBERT, AT  
[72] ROSENFELLNER, GERALD, AT  
[72] WURM, JOHANN, AT  
[72] HOLZLEITHNER, FRANZ, AT  
[71] PRIMETALS TECHNOLOGIES AUSTRIA GMBH, AT  
[85] 2018-05-08  
[86] 2017-04-26 (PCT/EP2017/059908)  
[87] (WO2017/186782)  
[30] EP (16167288.6) 2016-04-27

[21] **3,004,667**  
[13] A1

[51] **Int.Cl. B42D 25/29 (2014.01) B42D 25/324 (2014.01) B42D 25/342 (2014.01) B42D 25/351 (2014.01) B42D 25/355 (2014.01) B42D 25/378 (2014.01) B42D 25/425 (2014.01) B42D 25/45 (2014.01) B42D 25/455 (2014.01) B42D 25/46 (2014.01) B42D 25/48 (2014.01) B41M 3/14 (2006.01)**

[25] EN

[54] **METHODS OF MANUFACTURING IMAGE ELEMENT ARRAYS FOR SECURITY DEVICES**

[54] **PROCEDES DE FABRICATION DE GROUPES D'ELEMENTS D'IMAGE POUR DISPOSITIFS DE SECURITE**

[72] GODFREY, JOHN, GB  
[72] LISTER, ADAM, GB  
[71] DE LA RUE INTERNATIONAL LIMITED, GB  
[85] 2018-05-08  
[86] 2016-11-07 (PCT/GB2016/053468)  
[87] (WO2017/081447)  
[30] GB (1520085.0) 2015-11-13

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[21] **3,004,671**  
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) C07K 1/22 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **EPITOPE TAG AND METHOD FOR DETECTION, CAPTURE AND/OR PURIFICATION OF TAGGED POLYPEPTIDES**

[54] **MARQUEUR EPITOPE ET PROCEDE DE DETECTION, CAPTURE ET/OU PURIFICATION DE POLYPEPTIDES MARQUES**

[72] ROTHBAUER, ULRICH, DE  
[72] POETZ, OLIVER, DE  
[72] ROMER, TINA, DE  
[72] BUCHFELLNER, ANDREA, DE  
[72] YURLOVA, LARISA, DE  
[72] ZOLGHADR, KOUROSH, DE  
[72] BOGNER, JAQUELINE, DE  
[72] RUF, BENJAMIN, DE  
[72] LINKE-WINNEBECK, CHRISTIAN, DE

[72] METTERLEIN, MICHAEL, DE

[71] NMI  
NATURWISSENSCHAFTLICHES UND MEDIZINISCHES INSTITUT AN DER UNIVERSITAT TUBINGEN, DE

[71] CHROMOTEK GMBH, DE

[85] 2018-05-08  
[86] 2016-11-15 (PCT/EP2016/077785)  
[87] (WO2017/085086)  
[30] EP (15194838.7) 2015-11-16

[21] **3,004,673**  
[13] A1

[51] **Int.Cl. E03B 3/03 (2006.01) E03B 3/02 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE TO COLLECT WATER**

[54] **PROCEDE ET DISPOSITIF DE COLLECTE D'EAU**

[72] LARSON, RALF, NO  
[71] QF TECHNOLOGIES AS, NO

[85] 2018-05-08  
[86] 2015-11-13 (PCT/IB2015/002208)  
[87] (WO2017/081505)

[21] **3,004,674**  
[13] A1

[51] **Int.Cl. B65D 83/54 (2006.01) B65D 83/66 (2006.01)**

[25] EN

[54] **CANISTER AND VALVE**

[54] **FLACON ET VALVE**

[72] FRIEL, MICHAEL, GB  
[71] AER BEATHA LIMITED, GB

[85] 2018-05-08  
[86] 2016-11-03 (PCT/GB2016/053406)  
[87] (WO2017/081443)  
[30] GB (1519705.6) 2015-11-09  
[30] GB (1605547.7) 2016-04-01

[21] **3,004,678**  
[13] A1

[51] **Int.Cl. B65B 25/06 (2006.01) A23G 1/50 (2006.01) A23G 3/50 (2006.01) B65D 65/18 (2006.01) B65D 65/24 (2006.01) B65D 85/60 (2006.01)**

[25] EN

[54] **PACKAGING**

[54] **EMBALLAGE**

[72] ANDREWS, RICHARD, GB  
[72] DOWN, MATTHEW, GB  
[71] KRAFT FOODS R&D, INC., US

[85] 2018-05-08  
[86] 2016-10-18 (PCT/IB2016/001544)  
[87] (WO2017/089877)  
[30] GB (GB1520742.6) 2015-11-24

[21] **3,004,679**  
[13] A1

[51] **Int.Cl. C10G 1/06 (2006.01) C10G 1/08 (2006.01) C10G 3/00 (2006.01) C10G 45/06 (2006.01) C10G 45/10 (2006.01) C10G 45/48 (2006.01) C10G 45/52 (2006.01)**

[25] EN

[54] **CONVERSION OF BIOMASS INTO A LIQUID HYDROCARBON MATERIAL**

[54] **CONVERSION DE BIOMASSE SOLIDE EN UN MATERIAU HYDROCARBURE LIQUIDE**

[72] CHILKOOR SOUNDARARAJAN, LAXMI NARASIMHAN, IN  
[72] MEHTA, DHAIRYA DILIP, IN  
[72] URADE, VIKRANT NANASAHEB, IN

[72] DEL PAGGIO, ALAN ANTHONY, US

[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2018-05-08  
[86] 2016-11-21 (PCT/EP2016/078342)  
[87] (WO2017/089312)  
[30] IN (6290/CHE/2015) 2015-11-23

[21] **3,004,680**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 25/00 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 27/02 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED TRICYCLIC 1,4-BENZODIAZEPINONE DERIVATIVES AS ALLOSTERIC MODULATORS OF GROUP II METABOTROPIC GLUTAMATE RECEPTORS**

[54] **DERIVES DE 1,4-BENZODIAZEPINONE TRICYCLIQUES SUBSTITUES EN TANT QUE MODULATEURS ALLOSTERIQUES DES RECEPTEURS METABOTROPIQUES DU GLUTAMATE DU GROUPE II**

[72] SCHANN, STEPHAN, FR  
[72] MAYER, STANISLAS, FR  
[72] MANTEAU, BAPTISTE, FR  
[71] MAVALON THERAPEUTICS LIMITED, GB

[85] 2018-05-08  
[86] 2016-11-11 (PCT/GB2016/053550)  
[87] (WO2017/081483)  
[30] EP (15194611.8) 2015-11-13

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[21] **3,004,682**  
[13] A1

[51] **Int.Cl. A63B 71/12 (2006.01) A63B 24/00 (2006.01)**  
[25] EN  
[54] **PROTECTION DEVICE FOR CARRYING OUT SPORTS ACTIVITIES USABLE IN A DATA ANALYSIS AND MONITORING SYSTEM, AND RELATIVE SYSTEM AND METHOD FOR PROCESSING AND CALCULATING THE SENT DATA**  
[54] **DISPOSITIF DE PROTECTION PERMETTANT DE REALISER DES ACTIVITES SPORTIVES ET POUVANT ETRE UTILISE DANS UN SYSTEME D'ANALYSE ET DE SURVEILLANCE DE DONNEES, ET SYSTEME ET PROCEDE ASSOCIES PERMETTANT DE TRAITER ET DE CALCULER LES DONNEES ENVOYEES**  
[72] PAGLIERANI, PIETRO, CH  
[72] BIANCALANA, ALBERTO, CH  
[72] LA VECCHIA, GIUSTINIANO, CH  
[72] BANCHINI, MARCO, CH  
[71] GHST WORLD INC., CH  
[85] 2018-05-08  
[86] 2016-07-13 (PCT/IB2016/054182)  
[87] (WO2017/081555)  
[30] IT (UB2015A005574) 2015-11-13

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[21] **3,004,689**  
[13] A1

[51] **Int.Cl. G21G 1/00 (2006.01)**  
[25] EN  
[54] **NEW METHOD AND APPARATUS FOR THE PRODUCTION OF HIGH PURITY RADIONUCLIDES**  
[54] **NOUVEAU PROCEDE ET APPAREIL POUR LA PRODUCTION DE RADIONUCLEIDES DE PURETE ELEVEE**  
[72] TORGUE, JULIEN, US  
[72] BOURDET, PATRICK, FR  
[72] ANDREOLETTI, GILBERT, FR  
[72] DUREAU, REMY, FR  
[72] MAQUAIRE, PATRICK, FR  
[71] ORANO MED, FR  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/EP2016/078373)  
[87] (WO2017/093069)  
[30] EP (15306897.8) 2015-11-30

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[21] **3,004,691**  
[13] A1

[51] **Int.Cl. H01M 8/0271 (2016.01) F16J 15/10 (2006.01)**  
[25] EN  
[54] **METHOD FOR HANDLING CARRIER-FILM-EQUIPPED GASKET**  
[54] **PROCEDE DE MANIPULATION DE JOINT EQUIPE D'UN FILM DE SUPPORT**  
[72] NISHIMURA, TAKURO, JP  
[72] YUI, HAJIME, JP  
[72] OBA, KENICHI, JP  
[71] NOK CORPORATION, JP  
[85] 2018-05-08  
[86] 2016-11-04 (PCT/JP2016/082737)  
[87] (WO2017/082154)  
[30] JP (2015-220279) 2015-11-10  
[30] JP (2015-238295) 2015-12-07  
[30] JP (2016-151710) 2016-08-02

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[21] **3,004,693**  
[13] A1

[51] **Int.Cl. E21B 10/38 (2006.01)**  
[25] EN  
[54] **WEIGHT-ON-BIT SELF-ADJUSTING DRILL BIT**  
[54] **TREPAN DU TYPE A DIFFERENCE DE PRESSION AUTOADAPTATIF**  
[72] GUAN, ZHICHUAN, CN  
[72] LIU, YONGWANG, CN  
[72] HU, HUAIGANG, CN  
[72] GUAN, BEN, CN  
[72] SHI, YUCAI, CN  
[72] LIAO, HUALIN, CN  
[71] CHINA UNIVERSITY OF PETROLEUM(EAST CHINA), CN  
[85] 2018-05-08  
[86] 2017-09-11 (PCT/CN2017/101196)  
[87] (WO2018/036567)  
[30] CN (201710041423.1) 2017-01-20

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[21] **3,004,694**  
[13] A1

[51] **Int.Cl. H02H 9/00 (2006.01)**  
[25] FR  
[54] **METHOD AND DEVICE FOR SWITCHING ON A POWER TRANSFORMER**  
[54] **PROCEDE ET DISPOSITIF DE MISE SOUS TENSION D'UN TRANSFORMATEUR DE PUISSANCE**  
[72] AIT ABDELMALEK, FARID, FR  
[72] FANGET, ALAIN, FR  
[72] BORDES, JULIEN, FR  
[71] GENERAL ELECTRIC TECHNOLOGY GMBH, CH  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/EP2016/078444)  
[87] (WO2017/089346)  
[30] FR (15 61237) 2015-11-23

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[21] **3,004,696**  
[13] A1

[51] **Int.Cl. C07K 5/02 (2006.01) A61K 31/41 (2006.01) A61K 51/06 (2006.01) A61K 51/08 (2006.01) C07D 257/02 (2006.01) C07K 5/072 (2006.01) G01N 33/574 (2006.01) G01N 33/60 (2006.01)**  
[25] EN  
[54] **PEPTIDE THIOUREA DERIVATIVE, RADIOISOTOPE LABELED COMPOUND CONTAINING SAME, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME AS ACTIVE INGREDIENT FOR TREATING OR DIAGNOSING PROSTATECANCER**  
[54] **DERIVE PEPTIDIQUE DE THIOUREE, COMPOSE MARQUE PAR UN RADIO-ISOTOPE LE CONTENANT ET COMPOSITION PHARMACEUTIQUE LE CONTENANT EN TANT QUE PRINCIPE ACTIF POUR LE TRAITEMENT OU LE DIAGNOSTIC DU CANCER DE LA PROSTATE**  
[72] JEONG, JAE MIN, KR  
[72] MOON, SUNG-HYUN, KR  
[72] LEE, YUN-SANG, KR  
[71] CELLBION CO., LTD, KR  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/KR2016/012849)  
[87] (WO2017/082620)  
[30] KR (10-2015-0156536) 2015-11-09



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[21] **3,004,699**  
[13] A1

[51] **Int.Cl. F41H 1/02 (2006.01)**  
[25] EN  
[54] **PROTECTIVE ARMOUR GEAR EQUIPEMENT DE BLINDAGE DE PROTECTION**  
[72] JONASSEN, TOM, NO  
[72] HANSEN, PAL FRANCIS, NO  
[71] MISSINGEN SERVICES AS, NO  
[85] 2018-05-08  
[86] 2016-11-14 (PCT/NO2016/050228)  
[87] (WO2017/086800)  
[30] NO (20151563) 2015-11-16

[21] **3,004,700**  
[13] A1

[51] **Int.Cl. G10L 13/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR FORMING THE EXCITATION SIGNAL FOR A GLOTTAL PULSE MODEL BASED PARAMETRIC SPEECH SYNTHESIS SYSTEM**  
[54] **PROCEDE PERMETTANT DE FORMER LE SIGNAL D'EXCITATION POUR UN SYSTEME DE SYNTHESE VOCALE PARAMETRIQUE BASE SUR UN MODELE D'IMPULSION GLOTTALE**  
[72] DACHIRAJU, RAJESH, IN  
[72] RAGHAVENDRA, E. VEERA, IN  
[72] GANAPATHIRAJU, ARAVIND, IN  
[71] INTERACTIVE INTELLIGENCE GROUP, INC., US  
[85] 2018-05-08  
[86] 2015-10-06 (PCT/US2015/054122)  
[87] (WO2017/061985)

[21] **3,004,706**  
[13] A1

[51] **Int.Cl. E21B 21/06 (2006.01) C09K 8/02 (2006.01) E21B 49/08 (2006.01)**  
[25] EN  
[54] **IN-LINE METHODS AND APPARATUSES FOR DETERMINING THE COMPOSITION OF AN EMULSIFIED DRILLING FLUID**  
[54] **PROCEDES ET APPAREILS EN LIGNE POUR LA DETERMINATION DE LA COMPOSITION D'UN FLUIDE DE FORAGE EMULSIONNE**  
[72] KLEINGUETL, KEVIN GREGORY, US  
[72] JAMISON, DALE E., US  
[72] FOWLER, DREW A., US  
[72] JACKSON, BRICE AARON, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-05-08  
[86] 2016-02-02 (PCT/US2016/016158)  
[87] (WO2017/135930)

[21] **3,004,709**  
[13] A1

[51] **Int.Cl. B65D 88/26 (2006.01) B65D 90/12 (2006.01) B65D 90/54 (2006.01)**  
[25] EN  
[54] **SEMI-RIGID BULK MATERIAL STORAGE CONTAINER**  
[54] **RECIPIENT DE STOCKAGE DE MATERIAU EN VRAC SEMI-RIGIDE**  
[72] LUCAS, BRYAN CHAPMAN, US  
[72] STEGEMOELLER, CALVIN L., US  
[72] WARREN, WESLEY JOHN, US  
[72] SCHAFFNER, AUSTIN CARL, US  
[72] HUNTER, TIM H., US  
[72] LEWIS, BRYAN JOHN, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2018-05-08  
[86] 2016-02-26 (PCT/US2016/019689)  
[87] (WO2017/146715)

[21] **3,004,711**  
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01) G05B 19/418 (2006.01)**  
[25] EN  
[54] **SORTATION SYSTEMS AND METHODS FOR PROVIDING SORTATION OF A VARIETY OF OBJECTS**  
[54] **SYSTEMES DE TRI ET PROCEDES POUR ASSURER LE TRI DE DIVERS OBJETS**  
[72] WAGNER, THOMAS, US  
[72] AHEARN, KEVIN, US  
[72] COHEN, BENJAMIN, 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  
[85] 2018-05-04  
[86] 2016-11-10 (PCT/US2016/061414)  
[87] (WO2017/083574)  
[30] US (62/255,069) 2015-11-13  
[30] US (62/277,234) 2016-01-11

[21] **3,004,713**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/63 (2006.01) C12N 15/66 (2006.01) C12N 15/861 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TREATING HUNTINGTON'S DISEASE AND RELATED DISORDERS**  
[54] **COMPOSITIONS ET METHODES POUR TRAITER LA MALADIE DE HUNTINGTON ET LES TROUBLES APPARENTES**  
[72] DAVIDSON, BEVERLY L., US  
[72] MONTEYS, ALEJANDRO MAS, US  
[72] EBANKS, SHAUNA, US  
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US  
[85] 2018-05-08  
[86] 2016-10-11 (PCT/US2016/056417)  
[87] (WO2017/062983)  
[30] US (62/239,714) 2015-10-09  
[30] US (62/352,788) 2016-06-21

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[21] **3,004,714**  
[13] A1

[51] **Int.Cl. C07D 207/16 (2006.01) C07C 223/02 (2006.01) C07C 237/06 (2006.01) C07C 259/06 (2006.01) C07C 271/18 (2006.01) C07C 271/22 (2006.01) C07D 487/04 (2006.01) C07K 1/04 (2006.01) C07K 1/06 (2006.01) C07K 7/06 (2006.01)**

[25] EN

[54] **FRAGMENT SYNTHESIS OF CYCLIC PEPTIDES**

[54] **SYNTHESE DE FRAGMENTS DE PEPTIDES CYCLIQUES**

[72] VAZQUEZ, MANUEL PEREZ, CA

[72] MORSHED, M. MONZUR, CA

[72] HICKEY, JENNIFER L., CA

[72] POUPART, MARC-ANDRE, CA

[72] YANG, GAOQIANG, CA

[72] GILLARD, JAMES, CA

[72] KAFAL, ADAM PAUL, CA

[72] ROUGHTON, ANDREW L., CA

[71] ENCYCLE THERAPEUTICS, INC., CA

[71] UNIVERSITE DE MONTREAL, CA

[85] 2018-05-08

[86] 2016-11-14 (PCT/CA2016/000275)

[87] (WO2017/079821)

[21] **3,004,715**  
[13] A1

[51] **Int.Cl. H04N 21/422 (2011.01) H04N 21/431 (2011.01) H04N 21/482 (2011.01) G06F 3/048 (2013.01)**

[25] EN

[54] **TELEVISION USER INTERFACE**

[54] **INTERFACE UTILISATEUR DE TELEVISION**

[72] COENEN, ROB, GB

[72] HEANLEY, JULIEN, GB

[71] SKY CP LIMITED, GB

[85] 2018-05-08

[86] 2016-11-08 (PCT/GB2016/053492)

[87] (WO2017/081455)

[30] GB (1519754.4) 2015-11-09

[21] **3,004,722**  
[13] A1

[51] **Int.Cl. A23L 33/10 (2016.01) A23L 33/12 (2016.01) A23L 33/135 (2016.01) A23L 33/18 (2016.01) A23L 33/19 (2016.01) A23L 33/21 (2016.01) A61P 37/00 (2006.01)**

[25] EN

[54] **NUTRITIONAL COMPOSITIONS COMPRISING LACTOBACILLUS RHAMNOSUS GG, AS WELL AS DIETARY BUTYRATE AND/OR A COMPOUND FOR STIMULATING FORMATION OF ENDOGENOUS BUTYRATE**

[54] **COMPOSITIONS NUTRITIONNELLES COMPRENANT DU LACTOBACILLUS RHAMNOSUS GG, AINSI QUE DU BUTYRATE DIETETIQUE ET/OU UN COMPOSE DESTINE A STIMULER LA FORMATION DE BUTYRATE ENDOGENE**

[72] LAMBERS, TEARTSE TIM, NL

[72] VAN TOL, ERIC A.F., NL

[72] GONZALEZ, JUAN M., US

[71] MJN U.S. HOLDINGS LLC, US

[85] 2018-05-08

[86] 2016-10-19 (PCT/US2016/057644)

[87] (WO2017/083068)

[30] US (14/936,014) 2015-11-09

[30] US (14/959,107) 2015-12-04

[30] US (15/011,797) 2016-02-01

[21] **3,004,726**  
[13] A1

[51] **Int.Cl. B23K 9/133 (2006.01) B65H 51/30 (2006.01)**

[25] EN

[54] **WIRE FEEDER FOR WELDING**

[54] **DEVIDOIR DE FIL POUR SOUDAGE**

[72] LAHTI, THOMAS D., US

[72] BEESON, RICHARD, US

[72] GIESE, WILLIAM, US

[72] MILLER, ERIK, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2018-05-08

[86] 2016-10-20 (PCT/US2016/057913)

[87] (WO2017/087120)

[30] US (14/943,249) 2015-11-17

[30] US (62/322,933) 2016-04-15

[30] US (15/293,773) 2016-10-14

[21] **3,004,729**  
[13] A1

[51] **Int.Cl. C10M 135/24 (2006.01) C07C 323/12 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **LUBRICATING COMPOSITION COMPRISING THIOETHER-SUBSTITUTED PHENOLIC COMPOUND**

[54] **COMPOSITION LUBRIFIANTE COMPRENANT UN COMPOSE PHENOLIQUE A SUBSTITUTION THIOETHER**

[72] ZHANG, YANSHI, US

[72] HANTHORN, JASON J., US

[71] THE LUBRIZOL CORPORATION, US

[85] 2018-05-08

[86] 2016-11-08 (PCT/US2016/060891)

[87] (WO2017/083243)

[30] US (62/253,821) 2015-11-11

[21] **3,004,736**  
[13] A1

[51] **Int.Cl. A61B 17/62 (2006.01) A61B 17/64 (2006.01) A61B 17/66 (2006.01)**

[25] EN

[54] **CIRCULAR FIXATOR SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FIXATEUR CIRCULAIRE**

[72] ROBINSON, CHRIS, US

[72] WONG, KIAN-MING, US

[71] WRIGHT MEDICAL TECHNOLOGY, INC., US

[85] 2018-05-08

[86] 2016-10-06 (PCT/US2016/055747)

[87] (WO2017/083033)

[30] US (62/254,489) 2015-11-12

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[21] **3,004,737**  
[13] A1

[51] **Int.Cl. A23L 33/10 (2016.01) A23L 33/12 (2016.01) A23L 33/135 (2016.01) A23L 33/18 (2016.01) A23L 33/19 (2016.01) A23L 33/21 (2016.01) A61P 37/00 (2006.01)**

[25] EN

[54] **NUTRITIONAL COMPOSITIONS CONTAINING BUTYRATE AND USES THEREOF**

[54] **COMPOSITIONS NUTRITIONNELLES CONTENANT DU BUTYRATE ET UTILISATIONS DE CELLES-CI**

[72] GONZALEZ, JUAN M., US

[72] LAMBERS, TEARTSE TIM, NL

[72] VAN TOL, ERIC A.F., NL

[71] MJN U.S. HOLDINGS LLC, US

[85] 2018-05-08

[86] 2016-10-19 (PCT/US2016/057641)

[87] (WO2017/083067)

[30] US (14/936,014) 2015-11-09

[30] US (14/959,107) 2015-12-04

[30] US (15/011,797) 2016-02-01

[21] **3,004,738**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) C12N 5/09 (2010.01)**

[25] EN

[54] **MODIFIED IMMUNE CELLS AND USES THEREOF**

[54] **CELLULES IMMUNITAIRES MODIFIEES ET LEURS UTILISATIONS**

[72] POZNANSKY, MARK C., US

[72] PERITT, DAVID, US

[72] REEVES, PATRICK, US

[71] APERISYS, INC., US

[71] THE GENERAL HOSPITAL CORPORATION D.B.A MASSACHUSETTS GENERAL HOSPITAL, US

[85] 2018-05-08

[86] 2016-11-09 (PCT/US2016/061207)

[87] (WO2017/083441)

[30] US (62/253,021) 2015-11-09

[30] US (62/253,072) 2015-11-09

[30] US (62/253,093) 2015-11-09

[30] US (62/253,096) 2015-11-09

[30] US (62/327,877) 2016-04-26

[21] **3,004,739**  
[13] A1

[51] **Int.Cl. G06F 19/00 (2018.01) G06Q 40/08 (2012.01) G06Q 50/22 (2018.01) G06F 21/32 (2013.01) G06F 21/60 (2013.01) G06K 19/07 (2006.01)**

[25] EN

[54] **MULTI-APPLICATION PERSONAL HEALTH RECORD MICROPROCESSOR CARD**

[54] **CARTE A MICROPROCESSEUR DE DOSSIER MEDICAL PERSONNEL MULTI-APPLICATIONS**

[72] FREEDMAN, ALIX MICHAEL, CA

[71] FREEDMAN, ALIX MICHAEL, CA

[85] 2017-09-07

[86] 2016-03-10 (PCT/CA2016/000069)

[87] (WO2016/141457)

[30] CA (2,884,544) 2015-03-10

[30] US (62/135,285) 2015-03-19

[21] **3,004,740**  
[13] A1

[51] **Int.Cl. A23L 33/10 (2016.01) A23L 33/12 (2016.01) A23L 33/135 (2016.01) A23L 33/18 (2016.01) A23L 33/19 (2016.01) A23L 33/21 (2016.01) A61P 37/00 (2006.01)**

[25] EN

[54] **NUTRITIONAL COMPOSITIONS COMPRISING A CASEIN HYDROLYSATE, AS WELL AS DIETARY BUTYRATE AND/OR A COMPOUND FOR STIMULATING FORMATION OF ENDOGENOUS BUTYRATE**

[54] **COMPOSITIONS NUTRITIONNELLES COMPRENANT UN HYDROLYSAT DE CASEINE, AINSI QUE DU BUTYRATE ALIMENTAIRE ET/OU UN COMPOSE POUR STIMULER LA FORMATION DE BUTYRATE ENDOGENE**

[72] LAMBERS, TEARTSE TIM, NL

[72] VAN TOL, ERIC A.F., NL

[72] GONZALEZ, JUAN M., US

[71] MJN U.S. HOLDINGS LLC, US

[85] 2018-05-08

[86] 2016-10-19 (PCT/US2016/057646)

[87] (WO2017/083069)

[30] US (14/936,014) 2015-11-09

[30] US (14/959,107) 2015-12-04

[30] US (15/011,797) 2016-02-01

[21] **3,004,741**  
[13] A1

[51] **Int.Cl. A61K 31/4706 (2006.01) A61K 31/445 (2006.01) A61K 31/575 (2006.01) A61K 31/7076 (2006.01) A61K 33/24 (2006.01)**

[25] EN

[54] **NOVEL METHODS OF TREATING HEARING LOSS**

[54] **NOUVELLES METHODES DE TRAITEMENT DE LA PERTE AUDITIVE**

[72] SHERR, ELLIOTT, US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2018-05-08

[86] 2016-10-22 (PCT/US2016/058348)

[87] (WO2017/074830)

[30] US (62/246,425) 2015-10-26

[21] **3,004,742**  
[13] A1

[51] **Int.Cl. C07K 14/52 (2006.01) A61K 38/16 (2006.01) A61K 48/00 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR EXPRESSION OF MULTIPLE BIOLOGICALLY ACTIVE POLYPEPTIDES FROM A SINGLE VECTOR FOR TREATMENT OF CARDIAC CONDITIONS AND OTHER PATHOLOGIES**

[54] **COMPOSITIONS ET PROCEDES D'EXPRESSION DE MULTIPLES POLYPEPTIDES BIOLOGIQUEMENT ACTIFS A PARTIR D'UN SEUL VECTEUR POUR LE TRAITEMENT D'AFFECTIONS ET AUTRES PATHOLOGIES CARDIAQUES**

[72] PATEL, DIMKI S., US

[72] PATEL, AMIT N., US

[71] INTREXON CORPORATION, US

[85] 2018-05-08

[86] 2016-11-11 (PCT/US2016/061668)

[87] (WO2017/083750)

[30] US (62/254,139) 2015-11-11

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[21] **3,004,743**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01)**  
[25] EN  
[54] **HUMANIZED ANTI-CLL-1 ANTIBODIES**  
[54] **ANTICORPS ANTI-CLL-1 HUMANISES**  
[72] JIANG, YING-PING, US  
[72] JUNUTULA, JAGATH R., US  
[72] PRESTA, LEONARD G., US  
[72] TSURUSHITA, NAOYA, US  
[71] CELLERANT THERAPEUTICS, INC., US  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/US2016/063407)  
[87] (WO2017/091615)  
[30] US (62/259,100) 2015-11-24

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[21] **3,004,744**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PROCESSING LOYALTY REWARDS**  
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE RECOMPENSES DE FIDELITE**  
[72] KEDZLIE, IAIN, GB  
[72] CHAUHAN, ROHIT, US  
[71] MASTERCARD INTERNATIONAL INCORPORATED, US  
[85] 2018-05-08  
[86] 2016-11-04 (PCT/US2016/060446)  
[87] (WO2017/083182)  
[30] US (14/938,603) 2015-11-11

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[21] **3,004,745**  
[13] A1

[51] **Int.Cl. A61F 6/00 (2006.01) A61F 6/02 (2006.01) A61F 6/20 (2006.01) A61F 6/22 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR VAS-OCCLUSIVE CONTRACEPTION AND REVERSAL THEREOF**  
[54] **COMPOSITIONS ET PROCEDES POUR CONTRACEPTION PAR OCCLUSION DU CANAL DEFERENT ET INVERSION DE CELLE-CI**  
[72] HERR, JOHN C., US  
[72] KLIBANOV, ALEXANDER L., US  
[72] EISENFRATS, KEVIN SIMON, US  
[71] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/US2016/061671)  
[87] (WO2017/083753)  
[30] US (62/254,381) 2015-11-12  
[30] US (62/369,807) 2016-08-02

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[21] **3,004,746**  
[13] A1

[51] **Int.Cl. A61K 31/327 (2006.01) A61K 31/717 (2006.01) C07C 69/54 (2006.01)**  
[25] EN  
[54] **NOVEL FORMULATIONS**  
[54] **NOUVELLES FORMULATIONS**  
[72] SHALVIRI, ALIREZA, US  
[72] CLARKE, MARTYN J., US  
[71] GLAXOSMITHKLINE CONSUMER HEALTHCARE HOLDINGS (US) LLC, US  
[85] 2018-05-08  
[86] 2016-11-08 (PCT/US2016/060924)  
[87] (WO2017/083266)  
[30] US (62/252,724) 2015-11-09

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[21] **3,004,747**  
[13] A1

[51] **Int.Cl. A01N 43/90 (2006.01) A01N 25/00 (2006.01) A01N 37/46 (2006.01) A01N 37/50 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 43/82 (2006.01) A01N 43/88 (2006.01) A01N 47/24 (2006.01) A01N 51/00 (2006.01) A01N 63/02 (2006.01) A01P 3/00 (2006.01)**  
[25] EN  
[54] **FUNGICIDAL COMPOSITIONS CONTAINING DERIVATIVES OF 2,4-DIOXO-1,4-DIHYDROTHIENO[2,3-D]PYRIMIDINE**  
[54] **COMPOSITIONS FONGICIDES CONTENANT DES DERIVES DE 2,4-DIOXO-1,4-DIHYDROTHIENO[2,3-D]PYRIMIDINE**  
[72] BENNETT, JENNIFER LYNN, US  
[72] FITZSIMMONS, KAREN C., US  
[72] GHOSH, SHOMIR, US  
[72] GREENWOOD, JEREMY ROBERT, US  
[72] HAAKENSEN, WILLIAM P., JR., US  
[72] HARRIMAN, GERALDINE C., US  
[72] LEIT DE MORADEI, SILVANA MARCEL, US  
[72] SHORTT, BARRY J., US  
[72] SLOMCZYNSKA, URSZULA J., US  
[72] STEIN, JEFFREY MICHAEL, US  
[71] GILEAD APOLLO, LLC, US  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/US2016/063424)  
[87] (WO2017/091627)  
[30] US (62/259,935) 2015-11-25

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[21] **3,004,749**  
[13] A1

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/10 (2006.01)**  
[25] EN  
[54] **CONNECTION FOR A WELDING POWER SUPPLY REMOTE INTERFACE AND METHOD FOR ASSEMBLING SUCH A CONNECTION**  
[54] **RACCORD POUR INTERFACE DISTANTE D'ALIMENTATION ELECTRIQUE DE SOUDAGE ET PROCEDE D'ASSEMBLAGE D'UN TEL RACCORD**  
[72] CHRISTOPHER, MARK RICHARD, US  
[72] LUNDIN, JOHN WALTER, US  
[72] WILSON, TROY DOUGLAS, US  
[72] REITMEYER, TIM JAY, US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2018-05-08  
[86] 2016-11-08 (PCT/US2016/060981)  
[87] (WO2017/083299)  
[30] US (62/253,102) 2015-11-09  
[30] US (15/339,100) 2016-10-31

[21] **3,004,751**  
[13] A1

[51] **Int.Cl. A47C 21/06 (2006.01)**  
[25] EN  
[54] **SUPINE PATIENT TRANSFER PACKAGE**  
[54] **ENSEMBLE DE TRANSFERT DE PATIENT COUCHE**  
[72] SCHIRO, PATRICIA, US  
[71] LATERAL PREP, LLC, US  
[85] 2018-05-08  
[86] 2016-11-23 (PCT/US2016/063508)  
[87] (WO2017/091677)  
[30] US (14/951,039) 2015-11-24

[21] **3,004,752**  
[13] A1

[51] **Int.Cl. A01H 1/04 (2006.01) A01H 3/00 (2006.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01)**  
[25] EN  
[54] **NOVEL PEPPERS WITH UNIQUE AROMA AND TASTE**  
[54] **NOUVEAUX PIMENTS AYANT UN AROME ET UN GOUT UNIQUES**  
[72] CHAUDHURI, SWAPAN K., US  
[72] CONSTANT, HOWARD L., US  
[72] GARVEY, GRAEME S., US  
[72] JUST, BRIAN J., US  
[71] SEMINIS VEGETABLE SEEDS, INC., US  
[85] 2018-05-08  
[86] 2016-12-02 (PCT/US2016/064807)  
[87] (WO2017/096294)  
[30] US (62/261,951) 2015-12-02

[21] **3,004,753**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 7/02 (2006.01) A61P 37/02 (2006.01) C07K 16/40 (2006.01)**  
[25] EN  
[54] **METHODS FOR TREATING CONDITIONS ASSOCIATED WITH MASP-2 DEPENDENT COMPLEMENT ACTIVATION**  
[54] **METHODES DE TRAITEMENT D'ETATS PATHOLOGIQUES ASSOCIES A UNE ACTIVATION DU COMPLEMENT DEPENDANT DE MASP-2**  
[72] DEMOPULOS, GREGORY A., US  
[72] DUDLER, THOMAS, US  
[72] SCHWAEBLE, HANS-WILHELM, GB  
[71] OMEROS CORPORATION, US  
[71] UNIVERSITY OF LEICESTER, GB  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/US2016/061113)  
[87] (WO2017/083371)  
[30] US (62/252,814) 2015-11-09  
[30] US (62/406,726) 2016-10-11

[21] **3,004,755**  
[13] A1

[51] **Int.Cl. H04W 12/08 (2009.01) H04W 12/06 (2009.01)**  
[25] EN  
[54] **MOBILE OPERATOR-MEDIATED TELEPHONY-OVER-DATA SYSTEM AND IMPLEMENTATION, AND MOBILE SMARTPHONE-OVER-DATA DEVICE AND COMPUTER-IMPLEMENTED ENVIRONMENT THEREFOR**  
[54] **SYSTEME ET MISE EN ŒUVRE DE TELEPHONIE SUR RESEAU DE DONNEES PAR L'INTERMEDIAIRE D'OPERATEUR MOBILE ET DISPOSITIF DE TELEPHONE MOBILE INTELLIGENT SUR RESEAU DE DONNEES ET ENVIRONNEMENT MIS EN ŒUVRE PAR ORDINATEUR ASSOCIE**  
[72] LALIBERTE, BENOIT, CA  
[71] INVESTEL CAPITAL CORPORATION, CA  
[85] 2018-05-09  
[86] 2015-10-30 (PCT/CA2015/051119)  
[87] (WO2016/074072)  
[30] CA (2871247) 2014-11-10  
[30] CA (2871249) 2014-11-10  
[30] CA (2871283) 2014-11-10  
[30] CA (2871290) 2014-11-10

[21] **3,004,757**  
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **ENGINEERED NUCLEIC-ACID TARGETING NUCLEIC ACIDS**  
[54] **ACIDES NUCLEIQUES MANIPULES CIBLANT DES ACIDES NUCLEIQUES**  
[72] DONOHOUÉ, PAUL DANIEL, US  
[72] MAY, ANDREW PAUL, US  
[71] CARIBOU BIOSCIENCES, INC., US  
[85] 2018-05-08  
[86] 2016-12-02 (PCT/US2016/064860)  
[87] (WO2017/096328)  
[30] US (62/263,232) 2015-12-04

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[13] A1

[51] **Int.Cl. A61H 1/02 (2006.01)**  
[25] EN  
[54] **LOCOMOTION ASSISTANCE MEANS**  
[54] **MOYEN D'AIDE A LA LOCOMOTION**  
[72] WILMINGTON, GUY, AU  
[71] WILMINGTON, GUY, AU  
[85] 2018-05-09  
[86] 2016-11-03 (PCT/AU2016/051042)  
[87] (WO2017/079788)  
[30] AU (2015904580) 2015-11-09

[21] **3,004,760**  
[13] A1

[51] **Int.Cl. G01R 33/02 (2006.01)**  
[25] EN  
[54] **3D MEMS MAGNETOMETER AND ASSOCIATED METHODS**  
[54] **MAGNETOMETRE DE SYSTEME MICRO ELECTROMECHANIQUE (MEMS) 3D ET PROCEDES ASSOCIES**  
[72] BOYSEL, ROBERT MARK, CA  
[71] MOTION ENGINE INC., CA  
[85] 2018-05-09  
[86] 2015-12-02 (PCT/CA2015/051259)  
[87] (WO2016/090467)  
[30] US (62/089,502) 2014-12-09

[21] **3,004,761**  
[13] A1

[51] **Int.Cl. F22G 7/14 (2006.01) E21B 43/24 (2006.01) F22B 1/18 (2006.01) F22B 29/00 (2006.01) F22B 37/22 (2006.01) F22B 37/34 (2006.01)**  
[25] EN  
[54] **MULTI-CIRCULATION HEAT RECOVERY STEAM GENERATOR FOR ENHANCED OIL RECOVERY/STEAM ASSISTED GRAVITY DRAINAGE**  
[54] **GENERATEUR DE VAPEUR A RECUPERATION DE CHALEUR A CIRCULATION MULTIPLE POUR RECUPERATION AMELIOREE DE PETROLE/DRAINAGE PAR GRAVITE A L'AIDE DE VAPEUR**

[72] BARKER, GARY, CA  
[72] CHEN, DONG, CA  
[72] FLEMING, JONATHAN, CA  
[72] MACKENZIE, COLIN MALCOLM, CA  
[71] BABCOCK & WILCOX POWER GENERATION GROUP CANADA CORP., CA  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/US2016/061126)  
[87] (WO2017/083378)  
[30] US (62/253,104) 2015-11-09  
[30] US (15/347,209) 2016-11-09

[21] **3,004,762**  
[13] A1

[51] **Int.Cl. A01N 43/84 (2006.01) A01N 37/26 (2006.01)**  
[25] EN  
[54] **FLUMIOXAZIN COMPOSITIONS**  
[54] **COMPOSITIONS DE FLUMIOXAZINE**  
[72] BYRNE, THOMAS, US  
[72] BRUSS, ROBERT, US  
[72] PIKE, BRIAN, US  
[72] KOVAR, JEROME, US  
[71] NUFARM AMERICAS, INC., US  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/US2016/061164)  
[87] (WO2017/083409)  
[30] US (62/253,477) 2015-11-10

[21] **3,004,763**  
[13] A1

[51] **Int.Cl. B81B 7/02 (2006.01) B81B 3/00 (2006.01) G01C 21/16 (2006.01) H01L 23/48 (2006.01)**  
[25] EN  
[54] **3D MEMS DEVICE WITH HERMETIC CAVITY**  
[54] **DISPOSITIF MEMS 3D A CAVITE HERMETIQUE**  
[72] BOYSEL, ROBERT MARK, CA  
[71] MOTION ENGINE INC., CA  
[85] 2018-05-09  
[86] 2016-01-14 (PCT/CA2016/050031)  
[87] (WO2016/112463)  
[30] US (62/103,825) 2015-01-15  
[30] US (62/138,161) 2015-03-25

[21] **3,004,764**  
[13] A1

[51] **Int.Cl. H03H 7/46 (2006.01)**  
[25] EN  
[54] **MULTIPLEXER DESIGN USING A 2D PASSIVE ON GLASS FILTER INTEGRATED WITH A 3D THROUGH GLASS VIA FILTER**  
[54] **CONCEPTION DE MULTIPLEXEUR UTILISANT UN FILTRE PASSIF 2D SUR VERRE INTEGRE A UN FILTRE 3D A TROU D'INTERCONNEXION TRAVERSANT LE VERRE**  
[72] YUN, CHANGHAN HOBIE, US  
[72] KIM, DAEIK DANIEL, US  
[72] VELEZ, MARIO FRANCISCO, US  
[72] ZUO, CHENGJIE, US  
[72] BERDY, DAVID FRANCIS, US  
[72] KIM, JONGHAE, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-08  
[86] 2016-12-05 (PCT/US2016/064962)  
[87] (WO2017/116616)  
[30] US (62/271,893) 2015-12-28  
[30] US (15/067,106) 2016-03-10

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[21] **3,004,766**  
[13] A1

[51] **Int.Cl. F16B 43/00 (2006.01) F16B 31/00 (2006.01) F16B 39/24 (2006.01)**  
[25] EN  
[54] **MULTIFUNCTION REACTION WASHER AND STACK ACCESSED BY SLIM REACTION SOCKET**  
[54] **RONDELLE DE REACTION MULTIFONCTION ET EMPILEMENT ACCESSIBLE PAR UNE FINE DOUILLE DE REACTION**  
[72] SCHNEEBERGER, JOHANNES P., US  
[72] DAVIS, JOHN D., US  
[71] SCHNEEBERGER, JOHANNES P., US  
[85] 2018-05-04  
[86] 2016-11-04 (PCT/US2016/060714)  
[87] (WO2017/079685)  
[30] US (14/932,768) 2015-11-04

[21] **3,004,768**  
[13] A1

[51] **Int.Cl. B01D 53/047 (2006.01) B01D 53/053 (2006.01)**  
[25] EN  
[54] **SURGE TANK DESIGN FOR PRESSURE SWING ADSORPTION PLANTS**  
[54] **CONCEPTION DE RESERVOIR D'EQUILIBRE POUR USINES D'ADSORPTION MODULEE EN PRESSION**  
[72] AYASKANTA, ARYA, US  
[72] BELANGER, PAUL W., US  
[71] PRAXAIR TECHNOLOGY, INC., US  
[85] 2018-05-08  
[86] 2016-10-27 (PCT/US2016/059018)  
[87] (WO2017/083108)  
[30] US (62/253,373) 2015-11-10

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[13] A1

[51] **Int.Cl. H04N 19/86 (2014.01) H04N 19/10 (2014.01)**  
[25] EN  
[54] **HIGH DYNAMIC RANGE COLOR CONVERSION CORRECTION**  
[54] **PLAGE DYNAMIQUE ELEVEE DE CORRECTION DE CONVERSION DE COULEUR**  
[72] NORKIN, ANDREY, US  
[71] NETFLIX, INC., US  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/US2016/061190)  
[87] (WO2017/083426)  
[30] US (62/253,098) 2015-11-09  
[30] US (62/256,080) 2015-11-16  
[30] US (15/179,857) 2016-06-10

[21] **3,004,770**  
[13] A1

[51] **Int.Cl. G10L 19/008 (2013.01)**  
[25] EN  
[54] **TEMPORAL OFFSET ESTIMATION**  
[54] **ESTIMATION DE DECALAGE TEMPOREL**  
[72] CHEBIYYAM, VENKATA SUBRAHMANYAM CHANDRA SEKHAR, US  
[72] ATTI, VENKATRAMAN, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2018-05-08  
[86] 2016-12-09 (PCT/US2016/065869)  
[87] (WO2017/106039)  
[30] US (62/269,796) 2015-12-18  
[30] US (15/372,802) 2016-12-08

[21] **3,004,771**  
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/20 (2006.01) A61M 5/315 (2006.01) A61M 5/50 (2006.01)**  
[25] EN  
[54] **RETRACTABLE SYRINGE**  
[54] **SERINGUE RETRACTABLE**  
[72] WALSH, ALLAN, AU  
[71] GLOBAL MEDISAFE HOLDINGS LTD, AU  
[85] 2018-05-09  
[86] 2016-11-18 (PCT/AU2016/051119)  
[87] (WO2017/079811)

[21] **3,004,772**  
[13] A1

[51] **Int.Cl. A61K 31/395 (2006.01) A61P 7/06 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **UNIT DOSE FORMULATIONS FOR USE AS AN ANTI-FUGETACTIC AGENT**  
[54] **FORMULATIONS EN DOSE UNITAIRE DESTINE A ETRE UTILISE COMME AGENT ANTI-CHIMIO-REPULSION**  
[72] POZNANSKY, MARK C., US  
[72] REEVES, PATRICK, US  
[71] THE GENERAL HOSPITAL CORPORATION D.B.A MASSACHUSETTS GENERAL HOSPITAL, US  
[85] 2018-05-08  
[86] 2016-11-09 (PCT/US2016/061205)  
[87] (WO2017/083440)  
[30] US (62/253,099) 2015-11-09

[21] **3,004,773**  
[13] A1

[51] **Int.Cl. G01D 4/00 (2006.01) G01F 15/075 (2006.01) G01M 3/26 (2006.01)**  
[25] EN  
[54] **DETECTING AN ERROR CONDITION BY MONITORING A RESOURCE FLOW AT A PREMISES**  
[54] **DETECTION D'UNE CONDITION D'ERREUR PAR LA SURVEILLANCE D'UN FLUX DE RESSOURCES DANS DES LOCAUX**  
[72] SHUDARK, JEFFREY, US  
[72] DAVIS, JAMES, US  
[71] LANDIS+GYR INNOVATIONS, INC., US  
[85] 2018-05-08  
[86] 2016-12-20 (PCT/US2016/067810)  
[87] (WO2017/112683)  
[30] US (62/270,282) 2015-12-21

[21] **3,004,774**  
[13] A1

[51] **Int.Cl. A61L 9/14 (2006.01) B05B 12/00 (2018.01) G06F 9/445 (2018.01)**  
[25] EN  
[54] **FRAGRANCE DISPENSER AND SYSTEM, AND METHOD FOR USING THE SAME**  
[54] **DISTRIBUTEUR DE PARFUM ET SYSTEME ET PROCEDE POUR LEUR UTILISATION**  
[72] MUSHTAQ, MUHAMMAD MUNEEB, CA  
[72] BYARD, JOHN, CA  
[72] MUSHTAQ, MUHAMMAD NABEEL, CA  
[72] LOUDON, JONATHAN PAUL, CA  
[72] SCHMIDER, JOHN PAUL, CA  
[72] BRUNETTE, REBECCA ROSEMARY, CA  
[72] POPIK, TERRY DEAN, CA  
[72] TALLEVI, KEVIN, CA  
[71] SAVVY INC., CA  
[85] 2018-05-09  
[86] 2016-11-14 (PCT/CA2016/051316)  
[87] (WO2017/079845)  
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[51] **Int.Cl. H04W 48/18 (2009.01)**  
[25] EN  
[54] **METHOD AND NETWORK DEVICE FOR SELECTING SERVICE NETWORK, AND MANAGEMENT DEVICE**  
[54] **PROCEDE DE SELECTION D'UN RESEAU DE SERVICE, EQUIPEMENT DE RESEAU ET EQUIPEMENT DE GESTION**  
[72] WANG, YUAN, CN  
[72] ZHU, FENQIN, CN  
[72] MA, JINGWANG, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2018-05-09  
[86] 2015-11-10 (PCT/CN2015/094236)  
[87] (WO2017/079906)

[21] **3,004,776**  
[13] A1

[51] **Int.Cl. F16L 23/00 (2006.01) F16L 23/036 (2006.01) F16L 37/00 (2006.01)**  
[25] EN  
[54] **MAGNETIC CONNECTING MEMBER, IN PARTICULAR FOR PIPE FLANGES**  
[54] **ELEMENT DE LIAISON MAGNETIQUE, EN PARTICULIER POUR DES BRIDES DE TUYAU**  
[72] CUBER, PETR, CZ  
[72] PULLMANOVA, MONIKA, CZ  
[71] CUBER, PETR, CZ  
[85] 2018-04-18  
[86] 2016-10-20 (PCT/CZ2016/050038)  
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[30] CZ (PV 2015-747) 2015-10-23

[21] **3,004,777**  
[13] A1

[51] **Int.Cl. B60K 17/342 (2006.01) B60K 17/16 (2006.01)**  
[25] EN  
[54] **DIFFERENTIAL SYSTEM THAT CONTROLS THE TRACTION OF THE WHEELS OF A VEHICLE**  
[54] **SYSTEME DIFFERENTIEL COMMANDANT LA TRACTION DES ROUES D'UN VEHICULE**  
[72] SOTO VELASCO, SERVANDO, MX  
[71] SOTO VELASCO, SERVANDO, MX  
[85] 2018-05-02  
[86] 2015-11-03 (PCT/MX2015/000143)  
[87] (WO2017/078509)

[21] **3,004,778**  
[13] A1

[51] **Int.Cl. B42D 25/351 (2014.01)**  
[25] EN  
[54] **SECURITY ELEMENT AND DATA CARRIER PROVIDED WITH SAME**  
[54] **ELEMENT DE SECURITE ET SUPPORT DE DONNEES EQUIPE DE CELUI-CI**  
[72] TEUFEL, BJORN, DE  
[71] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE  
[85] 2018-05-09  
[86] 2016-11-29 (PCT/EP2016/002014)  
[87] (WO2017/092864)  
[30] DE (10 2015 015 731.0) 2015-12-01

[21] **3,004,779**  
[13] A1

[51] **Int.Cl. B65D 83/66 (2006.01) B65D 83/38 (2006.01)**  
[25] EN  
[54] **PRESSURE CONTROL DEVICE, DISPENSER COMPRISING SAID PRESSURE CONTROL DEVICE AND METHOD OF MANUFACTURING**  
[54] **DISPOSITIF DE REGULATION DE PRESSION, DISTRIBUTEUR COMPRENANT LEDIT DISPOSITIF DE REGULATION DE PRESSION ET PROCEDE DE FABRICATION**  
[72] VANDERSTRAETEN, ERWIN, BE  
[72] DE CUYPER, DIRK, BE  
[72] ANTHIERENS, TOM, BE  
[71] GOJARA, BE  
[85] 2018-05-09  
[86] 2016-11-10 (PCT/EP2016/025144)  
[87] (WO2017/080679)  
[30] BE (BE2015/5737) 2015-11-10  
[30] EP (PCT/EP2016/061840) 2016-05-25

[21] **3,004,780**  
[13] A1

[51] **Int.Cl. B60H 1/00 (2006.01)**  
[25] EN  
[54] **AIR CONDITIONING SYSTEMS AND METHODS FOR VEHICLE**  
[54] **SYSTEMES ET PROCEDES DE CLIMATISATION DESTINES A UN VEHICULE**  
[72] ANDREWS, MICHAEL, CA  
[71] TIGER TOOL INTERNATIONAL INCORPORATED, CA  
[85] 2018-05-08  
[86] 2017-01-25 (PCT/US2017/014941)  
[87] (WO2017/132260)  
[30] US (62/286,841) 2016-01-25

[21] **3,004,781**  
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01) B05D 7/16 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A MULTICOAT PAINT SYSTEM**  
[54] **PROCEDE DE PRODUCTION D'UNE PEINTURE MULTICOUCHE**  
[72] CORTEN, CATHRIN, DE  
[72] EIERHOFF, DIRK, DE  
[72] WILM, PATRICK, DE  
[72] SCHNIEDERS, BRITTA, DE  
[72] FREITAG, NICOLE, DE  
[72] GRUMPE, HEINZ-ULRICH, DE  
[72] SCHWARZ, JORG, DE  
[71] BASF COATINGS GMBH, DE  
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[86] 2016-06-03 (PCT/EP2016/062586)  
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[51] **Int.Cl. A21C 11/10 (2006.01) A21C 3/10 (2006.01) A21C 5/00 (2006.01) A21C 5/08 (2006.01) A21C 7/06 (2006.01) A21C 9/00 (2006.01) A21C 9/08 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR BREAKING SHEETS OF FROZEN PIZZA INTO INDIVIDUAL PIECES**

[54] **SYSTEME ET PROCEDE DE RUPTURE DE FEUILLES DE PIZZA CONGELEE EN MORCEAUX INDIVIDUELS**

[72] ERICKSON, ROBERT, US  
[72] FEE, LILY LEUNG, US  
[72] HALL, ANITA J., US  
[72] HUFFMAN, DARIN T., US  
[72] MCCALLEY, RODNEY, US  
[72] REISHUS, TERRY G., US  
[72] SCHOO, STEVE J., US  
[72] STENVIK, RALPH A., US  
[71] GENERAL MILLS, INC., US  
[85] 2018-05-08  
[86] 2017-02-28 (PCT/US2017/019856)  
[87] (WO2017/151564)  
[30] US (15/057,501) 2016-03-01

[21] **3,004,783**  
[13] A1

[51] **Int.Cl. A61G 3/06 (2006.01)**

[25] EN

[54] **PARALLELOGRAM ARM VEHICLE LIFT**

[54] **DISPOSITIF DE LEVAGE DE VEHICULE A BRAS EN FORME DE PARALLELOGRAMME**

[72] BETTCHER, ROBERT E., III, US  
[72] KLINE, JUSTIN M., US  
[72] METZGER, AUSTIN D., US  
[72] ZHANG, HAIYAN HENRY, US  
[72] LIAO, CONG, US  
[72] BARDAKAS, ACHILLEAS, US  
[71] THE BRAUN CORPORATION, US  
[85] 2018-05-08  
[86] 2017-05-30 (PCT/US2017/034975)  
[87] (WO2017/205866)  
[30] US (62/342,478) 2016-05-27

[21] **3,004,784**  
[13] A1

[51] **Int.Cl. C08J 9/28 (2006.01) C08G 18/00 (2006.01) C08J 9/33 (2006.01) C08J 9/35 (2006.01)**

[25] EN

[54] **(SUPER)HYDROPHOBIC ISOCYANATE BASED POROUS MATERIALS**

[54] **MATERIAUX POREUX (SUPER)HYDROPHOBES A BASE D'ISOCYANATE**

[72] JONCHERAY, THOMAS JULIEN, BE  
[72] VANDENBROECK, JAN, BE  
[72] GEUMEZ, GILLES JEAN, BE  
[71] HUNTSMAN INTERNATIONAL LLC, US  
[85] 2018-05-09  
[86] 2016-10-12 (PCT/EP2016/074393)  
[87] (WO2017/084809)  
[30] EP (15194706.6) 2015-11-16

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[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01)**

[25] EN

[54] **MANUALLY ACTUATABLE INHALER**

[54] **INHALATEUR POUVANT ETRE ACTIONNE MANUELLEMENT**

[72] VON SCHUCKMANN, ALFRED, DE  
[71] VON SCHUCKMANN, ALFRED, DE  
[85] 2018-05-09  
[86] 2016-11-02 (PCT/EP2016/076326)  
[87] (WO2017/080871)  
[30] DE (10 2015 119 617.4) 2015-11-13

[21] **3,004,786**  
[13] A1

[51] **Int.Cl. G01N 25/18 (2006.01) G01N 33/487 (2006.01) G01N 33/543 (2006.01) B01J 20/26 (2006.01) G01N 33/531 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR DETECTING ANALYTES USING THERMAL WAVES**

[54] **DISPOSITIFS ET PROCEDES DE DETECTION D'ANALYTES A L'AIDE D'ONDES THERMIQUES**

[72] GRINSVEN VAN, BART ROBERT NICOLAAS, NL  
[72] CLEIJ, THOMAS JAN, NL  
[71] ACADEMISCH ZIEKENHUIS MAASTRICHT, NL  
[71] UNIVERSITEIT MAASTRICHT, NL  
[85] 2018-05-09  
[86] 2016-11-03 (PCT/EP2016/076571)  
[87] (WO2017/084885)  
[30] EP (15194837.9) 2015-11-16  
[30] EP (16162550.4) 2016-03-29  
[30] EP (16162685.8) 2016-03-29  
[30] US (62/314,461) 2016-03-29  
[30] EP (16164636.9) 2016-04-11  
[30] US (15/095,636) 2016-04-11

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[13] A1

[51] **Int.Cl. F16L 55/136 (2006.01) F16L 7/02 (2006.01) F16L 55/128 (2006.01)**

[25] EN

[54] **GRIPPING APPARATUS AND DEVICES FOR PLUGGING OF PIPES, ORIFICES OR CONNECTING**

[54] **APPAREIL DE PREHENSION ET DISPOSITIFS POUR LE BOUCHAGE DE TUYAUX, D'ORIFICES OU DE RACCORDEMENT**

[72] SUE, TRACY, US  
[72] SUE, CASEY, US  
[72] SALLEE, RICHARD, US  
[71] USA INDUSTRIES, INC., US  
[85] 2018-05-08  
[86] 2016-11-18 (PCT/US2016/062928)  
[87] (WO2017/087890)  
[30] US (62/258,311) 2015-11-20  
[30] US (62/313,376) 2016-03-25  
[30] US (62/366,591) 2016-07-25

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[13] A1

[51] **Int.Cl. C10M 171/00 (2006.01) C10M 105/80 (2006.01) C10M 129/68 (2006.01)**

[25] EN

[54] **LOW SHEAR STRENGTH LUBRICATING FLUIDS**

[54] **FLUIDES LUBRIFIANTS PRESENTANT UNE FAIBLE RESISTANCE AU CISAILLEMENT**

[72] FORBUS, THOMAS REGINALD, US

[71] SANTOLUBES LLC, US

[85] 2018-05-08

[86] 2016-11-21 (PCT/US2016/063016)

[87] (WO2017/091488)

[30] US (14/952,040) 2015-11-25

[21] **3,004,789**  
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 35/16 (2015.01) C07K 14/755 (2006.01) F26B 3/12 (2006.01) F26B 5/06 (2006.01)**

[25] EN

[54] **METHOD FOR THE PRODUCTION OF FREEZE-DRIED PELLETS COMPRISING FACTOR VIII**

[54] **PROCEDE POUR LA PRODUCTION DE COMPRIMES LYOPHILISES COMPRENANT LE FACTEUR VIII**

[72] OLBRICH, CARSTEN, DE

[72] PLITZKO, MATTHIAS, DE

[72] LUY, BERNHARD, DE

[72] SCHNEID, STEFAN CHRISTIAN, DE

[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE

[85] 2018-05-09

[86] 2016-11-04 (PCT/EP2016/076640)

[87] (WO2017/080915)

[30] EP (15194340.4) 2015-11-12

[21] **3,004,790**  
[13] A1

[51] **Int.Cl. C07K 16/12 (2006.01) A61K 47/00 (2006.01) C07K 7/00 (2006.01) C07K 16/44 (2006.01)**

[25] EN

[54] **ANTIBODY MOLECULE-DRUG CONJUGATES AND USES THEREOF**

[54] **CONJUGUES MOLECULES ANTICORPS-MEDICAMENTS ET LEURS UTILISATIONS**

[72] WOLLACOTT, ANDREW M., US

[72] PLANTE, OBADIAH JOSEPH, US

[72] DELANEY, JAMES C., US

[72] VISWANATHAN, KARTHIK, US

[72] RAMAKRISHNAN, BOOPATHY, US

[72] SHRIVER, ZACHARY HOLMES, US

[71] VISTERRA, INC., US

[85] 2018-05-08

[86] 2016-11-10 (PCT/US2016/061330)

[87] (WO2017/083515)

[30] US (62/253,345) 2015-11-10

[30] US (62/375,800) 2016-08-16

[21] **3,004,791**  
[13] A1

[51] **Int.Cl. H03K 5/1534 (2006.01) H03M 1/66 (2006.01) H03K 5/00 (2006.01)**

[25] FR

[54] **PROCEDE DE SYNCHRONISATION DE CONVERTISSEURS DE DONNEES PAR UN SIGNAL TRANSMIS DE PROCHE EN PROCHE**

[54] **METHOD FOR SYNCHRONISING DATA CONVERTERS BY MEANS OF A SIGNAL TRANSMITTED FROM ONE TO THE NEXT**

[72] BOUIN, ETIENNE, FR

[72] LAUBE, REMI, FR

[72] LIGOZAT, JEROME, FR

[72] STACKLER, MARC, FR

[71] TELEDYNE E2V SEMICONDUCTORS SAS, FR

[85] 2018-05-09

[86] 2016-11-04 (PCT/EP2016/076689)

[87] (WO2017/080925)

[30] FR (1560739) 2015-11-10

[21] **3,004,792**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) G01N 33/53 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTIGEN-BINDING POLYPEPTIDES DIRECTED AGAINST CD38**

[54] **POLYPEPTIDES DE LIAISON D'ANTIGENE DIRIGES CONTRE CD38**

[72] NOLTE, FRIEDRICH, DE

[72] BANNAS, PETER, DE

[72] SCHUTZE, KERSTIN, DE

[72] FUMEY, WILLIAM, DE

[72] SCHRIEWER, LEVIN, DE

[72] MENZEL, STEPHAN, DE

[72] STORTELERS, CATELIJNE, BE

[71] UNIVERSITY MEDICAL CENTER HAMBURG - EPPENDORF, DE

[85] 2018-05-09

[86] 2016-11-10 (PCT/EP2016/077361)

[87] (WO2017/081211)

[30] US (62/253,318) 2015-11-10

[21] **3,004,793**  
[13] A1

[51] **Int.Cl. H04N 21/434 (2011.01) H04N 21/81 (2011.01)**

[25] EN

[54] **METHOD AND DEVICE FOR ADAPTING THE VIDEO CONTENT DECODED FROM ELEMENTARY STREAMS TO THE CHARACTERISTICS OF A DISPLAY**

[54] **PROCEDE ET DISPOSITIF D'ADAPTATION DU CONTENU VIDEO DECODE A PARTIR DE FLUX ELEMENTAIRES AUX CARACTERISTIQUES D'UN AFFICHAGE**

[72] BORDES, PHILIPPE, FR

[72] ANDRIVON, PIERRE, FR

[72] FRANCOIS, EDOUARD, FR

[71] THOMSON LICENSING, FR

[85] 2018-05-09

[86] 2016-11-04 (PCT/EP2016/076707)

[87] (WO2017/080927)

[30] EP (15306777.2) 2015-11-09

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) G01N 33/574 (2006.01)**  
[25] EN  
[54] **FGFR2 INHIBITORS ALONE OR IN COMBINATION WITH IMMUNE STIMULATING AGENTS IN CANCER TREATMENT**  
[54] **INHIBITEURS DE FGFR2 SEULS OU EN COMBINAISON AVEC DES AGENTS DE STIMULATION IMMUNITAIRE DANS LE TRAITEMENT DU CANCER**  
[72] PIERCE, KRISTEN, US  
[72] POWERS, JANINE, US  
[72] PALENCIA, SERVANDO, US  
[72] SIKORSKI, ROBERT, US  
[72] GHODDUSI, MAJID, US  
[72] KRISHNAN, KARTIK, US  
[71] FIVE PRIME THERAPEUTICS, INC., US  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/US2016/063332)  
[87] (WO2017/091577)  
[30] US (62/258,731) 2015-11-23  
[30] US (62/314,174) 2016-03-28  
[30] US (62/379,094) 2016-08-24

[21] **3,004,795**  
[13] A1

[51] **Int.Cl. C07C 303/44 (2006.01) C07C 309/04 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PURIFYING ALKANESULFONIC ACIDS**  
[54] **PROCEDE DE PURIFICATION D'ACIDES ALCANESULFONIQUES**  
[72] SPIELMANN, JAN, DE  
[72] KOCH, MICHAEL, DE  
[72] WORTMANN, JURGEN, DE  
[72] RUETHER, FEELLY, DE  
[72] WEIGUNY, SABINE, DE  
[72] BORGMEIER, FRIEDER, DE  
[71] BASF SE, DE  
[85] 2018-05-09  
[86] 2016-11-08 (PCT/EP2016/076958)  
[87] (WO2017/080991)  
[30] EP (15193899.0) 2015-11-10

[21] **3,004,796**  
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A01N 43/90 (2006.01) A61K 31/519 (2006.01) A61P 3/04 (2006.01) A61P 31/10 (2006.01)**  
[25] EN  
[54] **PYRAZOLE ACC INHIBITORS AND USES THEREOF**  
[54] **INHIBITEURS DE L'ACC A BASE DE PYRAZOLE ET UTILISATIONS ASSOCIEES**  
[72] GHOSH, SHOMIR, US  
[72] GREENWOOD, JEREMY ROBERT, US  
[72] HARRIMAN, GERALDINE C., US  
[72] LEIT DE MORADEI, SILVANA MARCEL, US  
[71] GILEAD APOLLO, LLC, US  
[85] 2018-05-08  
[86] 2016-11-22 (PCT/US2016/063386)  
[87] (WO2017/091600)  
[30] US (62/259,973) 2015-11-25

[21] **3,004,797**  
[13] A1

[51] **Int.Cl. A01N 43/56 (2006.01) A01N 37/48 (2006.01) A01N 43/653 (2006.01) A01N 43/70 (2006.01) A01N 43/707 (2006.01) A01N 43/76 (2006.01) A01N 43/88 (2006.01) A01N 43/90 (2006.01) A01N 47/30 (2006.01) A01N 47/36 (2006.01) A01N 47/38 (2006.01) A01P 13/00 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC HERBICIDAL COMPOSITIONS**  
[54] **COMPOSITION HERBICIDE SYNERGIQUE**  
[72] JIN, TAO, CN  
[72] WANG, JINXIN, CN  
[72] LU, XINGTAO, CN  
[72] PENG, XUEGANG, CN  
[72] ZHANG, JINGYUAN, CN  
[72] ZHAO, DE, CN  
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[21] **3,004,798**  
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A01N 43/90 (2006.01) A61K 31/519 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**  
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[54] **INHIBITEURS DE L'ACC A BASE D'ESTERS ET UTILISATIONS ASSOCIEES**  
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[72] GREENWOOD, JEREMY ROBERT, US  
[72] HARRIMAN, GERALDINE C., US  
[72] LEIT DE MORADEI, SILVANA MARCEL, US  
[71] GILEAD APOLLO, LLC, US  
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[87] (WO2017/091602)  
[30] US (62/259,975) 2015-11-25

[21] **3,004,799**  
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[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **OLIGONUCLEOTIDES FOR INDUCING PATERNAL UBE3A EXPRESSION**  
[54] **OLIGONUCLEOTIDES POUR INDUIRE L'EXPRESSION PATERNELLE D'UBE3A**  
[72] COSTA, VERONICA, CH  
[72] HEDTJARN, MAJ, DK  
[72] HOENER, MARIUS, CH  
[72] JAGASIA, RAVI, CH  
[72] JENSEN, MAD S AABOE, DK  
[72] PATSCH, CHRISTOPH, CH  
[72] PEDERSEN, LYKKE, DK  
[72] RASMUSSEN, SOREN VESTERGAARD, DK  
[71] F. HOFFMANN-LA ROCHE AG, CH  
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[54] **TEST CELL AND MEASURING METHOD**

[54] **CUVETTE ET PROCEDE DE MESURE**

[72] BEHNK, HOLGER, DE

[71] BEHNK, HOLGER, DE

[85] 2018-05-09

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[30] EP (15199277.3) 2015-12-10

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[13] A1

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[54] **COMBINATION OF NATURAL ANTIOXIDANTS**

[54] **COMBINAISON D'ANTIOXYDANTS NATURELS**

[72] MICHEL-SALAUN, FRANCOISE, FR

[72] CONEGGO, NICOLAS, US

[71] SPECIALITES PET FOOD, FR

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[51] **Int.Cl. C07C 303/44 (2006.01) C07C 309/04 (2006.01)**

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[54] **METHOD OF REPROCESSING ALKANESULFONIC ACID**

[54] **PROCEDE DE RETRAITEMENT D'ACIDE ALCANESULFONIQUE**

[72] SPIELMANN, JAN, DE

[72] KOCH, MICHAEL, DE

[72] WORTMANN, JUERGEN, DE

[72] WEIGUNY, SABINE, DE

[72] RUETHER, FEELLY, DE

[72] SENGPIEL, ROBERT, DE

[71] BASF SE, DE

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[13] A1

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[54] **ACHEVEMENT DE BARRIERE ANNULAIRE AVEC SYSTEME INDUCTIF**

[72] VASQUES, RICARDO REVES, DK

[72] HAZEL, PAUL, GB

[71] WELLTEC A/S, DK

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[86] 2016-11-22 (PCT/EP2016/078422)

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **PD-L1 ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF AND MEDICAL APPLICATION THEREOF**

[54] **ANTICORPS ANTI-PD-L1, FRAGMENT DE LIAISON D'ANTIGENE DE CELUI-CI ET LEUR UTILISATION PHARMACEUTIQUE**

[72] QU, XIANGDONG, CN

[72] HU, QIYUE, CN

[72] XU, SHAOYU, CN

[72] CUI, DONGBIN, CN

[72] JIN, HOUCONG, CN

[72] TAO, WEIKANG, CN

[72] ZHANG, LIANSHAN, CN

[72] CAO, GUOQING, CN

[72] SUN, PIAOYANG, CN

[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN

[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN

[71] SUZHOU SUNCADIA BIOPHARMACEUTICALS CO., LTD., CN

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[54] **LABYRINTHOPEPTINES UTILISEES COMME AGENTS ANTIVIRAUX**

[72] BRONSTRUP, MARK, DE

[72] PROCHNOW, HANS-PETER, DE

[72] BIRUDUKOTA, N.V. SURYANARAYANA, DE

[72] SCHULZ, THOMAS, DE

[72] MESSERLE, MARTIN, DE

[72] PIETSCHMANN, THOMAS, DE

[72] HAID, SIBYLLE, DE

[72] BLOCKUS, SEBASTIAN, DE

[72] LAQMANI-GOFFINET, CHRISTINE, DE

[72] FRANZ, SERGEJ, DE

[72] BANDA, DOMINIC HOWARD, DE

[71] HELMHOLTZ-ZENTRUM FUR INFEKTIONSFORSCHUNG GMBH, DE

[71] MEDIZINISCHE HOCHSCHULE HANNOVER, DE

[71] TWINCORE, ZENTRUM FUR EXPERIMENTELLE UND KLINISCHE INFEKTIONSFORSCHUNG, DE

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[25] EN  
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[54] **BOITIER PROTEGE CONTRE LES EXPLOSIONS POUR MOYENS D'EMISSION ET DE RECEPTION DE RAYONNEMENT ELECTROMAGNETIQUE**  
[72] ZIEMS, BERND, DE  
[72] DITTMER, HAUKE, DE  
[72] SIEMER, DIRK, DE  
[72] GROTHOFF, AXEL, DE  
[72] ZULZER, PETER, DE  
[72] STAMER, ARNE, DE  
[72] WISNIEWSKI, PAWEL, DE  
[72] ZIEGENBEIN, TIMO, DE  
[71] MINIMAX GMBH & CO. KG, DE  
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[30] DE (10 2015 223 362.6) 2015-11-25

[21] **3,004,808**  
[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01)**  
[25] FR  
[54] **SYRINGE**  
[54] **SERINGUE**  
[72] CACLIN, JEROME, FR  
[71] GUERBET, FR  
[85] 2018-05-09  
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[21] **3,004,809**  
[13] A1

[51] **Int.Cl. A47L 9/02 (2006.01) A47L 13/38 (2006.01)**  
[25] EN  
[54] **DUSTING AND DUST COLLECTING DEVICE**  
[54] **DISPOSITIF DE DEPOUSSIERAGE ET DE COLLECTE DE POUSSIERE**  
[72] GOLLER, HANS PETTER, NO  
[71] UDP GOLLER, NO  
[85] 2018-05-09  
[86] 2016-11-23 (PCT/EP2016/078576)  
[87] (WO2017/089411)  
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[13] A1

[51] **Int.Cl. A01N 31/06 (2006.01) A01N 25/18 (2006.01) A01P 17/00 (2006.01)**  
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[54] **INSECT REPELLENT COMPOSITION AND METHOD OF USE**  
[54] **COMPOSITION INSECTIFUGE ET PROCEDE D'UTILISATION**  
[72] HYWEL DAVIES, JOHN, GB  
[72] MOSES, JOHN, GB  
[71] NEO-INNOVA HEALTHCARE LIMITED, GB  
[85] 2018-05-09  
[86] 2016-11-04 (PCT/GB2016/053430)  
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[21] **3,004,812**  
[13] A1

[51] **Int.Cl. G01F 1/28 (2006.01)**  
[25] FR  
[54] **APPARATUS FOR ESTIMATING THE VOLUME OF FLUID FLOWING IN A PIPE**  
[54] **EQUIPEMENT POUR L'ESTIMATION DU VOLUME DE FLUIDE CIRCULANT DANS UN CONDUIT**  
[72] LE FLOCH, JACQUES, FR  
[71] OXEAU INVEST, FR  
[85] 2018-05-09  
[86] 2016-11-08 (PCT/FR2016/052882)  
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[21] **3,004,814**  
[13] A1

[51] **Int.Cl. A61J 1/03 (2006.01) A61J 7/00 (2006.01)**  
[25] EN  
[54] **MEDICATION SYSTEM WITH A MEDICATION TRAY AND METHOD FOR PRODUCING A READY-TO-DELIVER MEDICATION SYSTEM**  
[54] **SYSTEME DE MEDICATION COMPRENANT UN PLATEAU DE MEDICAMENTS ET PROCEDE DE PRODUCTION D'UN SYSTEME DE MEDICATION PRET A L'EXPEDITION**  
[72] HAFNER, JENS, AT  
[72] NEUSSL, STEFAN, AT  
[71] MEDINOXX GMBH, AT  
[85] 2018-05-09  
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[87] (WO2017/080981)  
[30] AT (A50954/2015) 2015-11-10

[21] **3,004,816**  
[13] A1

[51] **Int.Cl. G04F 1/00 (2006.01) G04F 13/04 (2006.01) G04F 13/06 (2006.01)**  
[25] EN  
[54] **ELAPSED TIME INDICATOR**  
[54] **INDICATEUR DE TEMPS ECOULE**  
[72] HIGGINS, PETER, GB  
[72] GORDEYEV, SERGEY, GB  
[72] MCILVENNA, DAVID, GB  
[71] UWI TECHNOLOGY LIMITED, GB  
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[25] FR

[54] **METHOD FOR TREATING VITREOUS MATERIALS BY THERMAL POLING**

[54] **PROCEDE DE TRAITEMENT DE MATERIAUX VITREUX PAR VOIE DE POLARISATION THERMIQUE**

[72] PARAILLOUS, MAXIME, FR  
[72] CARDINAL, THIERRY, FR  
[72] POULON, ANGELINE, FR  
[72] FARGIN, EVELYNE, FR  
[72] DUSSAUZE, MARC, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[85] 2018-05-09  
[86] 2016-11-08 (PCT/FR2016/052884)  
[87] (WO2017/081396)  
[30] FR (1560733) 2015-11-10

[21] **3,004,821**  
[13] A1

[51] **Int.Cl. A61F 2/07 (2013.01) A61F 2/962 (2013.01) A61F 2/06 (2013.01)**

[25] EN

[54] **STENT-GRAFTS SYSTEMS WITH SKIRT**

[54] **SYSTEMES D'ENDOPROTHESE COUVERTE AVEC JUPE**

[72] ZIGELBOIM, OR, IL  
[72] MARMUR, YANIV, IL  
[72] SHALEV, ALON, IL  
[71] ENDOSPAN LTD., IL  
[85] 2018-05-09  
[86] 2016-11-09 (PCT/IL2016/051207)  
[87] (WO2017/081679)  
[30] US (62/254,432) 2015-11-12  
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[21] **3,004,824**  
[13] A1

[51] **Int.Cl. C04B 28/02 (2006.01) C04B 22/00 (2006.01) C04B 28/04 (2006.01) C04B 38/10 (2006.01)**

[25] FR

[54] **ULTRALIGHT INORGANIC FOAM AND MANUFACTURE METHOD THEREOF**

[54] **MOUSSE MINERALE ULTRA-LEGERE ET SON PROCEDE DE FABRICATION**

[72] BLACHIER, CHRISTIAN, FR  
[72] CHAUMILLIAT, CHRISTINE, FR  
[72] LOMBOIS-BURGER, HELENE, FR  
[72] SABIO, SERGE, FR  
[71] HOLCIM TECHNOLOGY LTD, CH  
[85] 2018-05-09  
[86] 2016-11-17 (PCT/FR2016/053000)  
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[21] **3,004,825**  
[13] A1

[51] **Int.Cl. G01C 21/16 (2006.01)**

[25] FR

[54] **METHOD FOR DESIGNING A NAVIGATION PATH AND METHOD FOR ORIENTING A SIGHTING MEMBER FROM SAID NAVIGATION PATH**

[54] **PROCEDE D'ELABORATION D'UNE NAVIGATION ET PROCEDE D'ORIENTATION D'UN ORGANE DE VISEE A PARTIR DE CETTE NAVIGATION**

[72] DAVAIN, LOIC, FR  
[72] FABIEN, SIMON, FR  
[71] SAFRAN ELECTRONICS & DEFENSE, FR  
[85] 2018-05-09  
[86] 2016-11-09 (PCT/EP2016/077178)  
[87] (WO2017/081104)  
[30] FR (1560751) 2015-11-10

[21] **3,004,827**  
[13] A1

[51] **Int.Cl. F28D 9/00 (2006.01)**

[25] EN

[54] **A DEVICE FOR EXCHANGE OF ENERGY AND/OR MASS TRANSFER BETWEEN FLUID FLOWS**

[54] **DISPOSITIF D'ECHANGE D'ENERGIE ET/OU DE TRANSFERT DE MASSE ENTRE ECOULEMENTS DE FLUIDE**

[72] SIVERKLEV, JOHAN, SE  
[71] AIR TO AIR SWEDEN AB, SE  
[85] 2018-05-09  
[86] 2016-11-10 (PCT/EP2016/077291)  
[87] (WO2017/081167)  
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[13] A1

[51] **Int.Cl. A61K 38/01 (2006.01) A23K 10/16 (2016.01) A23K 10/20 (2016.01) A23K 20/147 (2016.01) A23K 20/163 (2016.01) A23K 50/30 (2016.01) A23K 50/60 (2016.01) A23L 29/269 (2016.01) A23L 29/281 (2016.01) A23L 33/00 (2016.01) A23L 33/14 (2016.01) A23L 33/18 (2016.01) A23L 33/19 (2016.01) A23L 33/21 (2016.01) A61K 31/716 (2006.01) A61K 36/064 (2006.01)**

[25] EN

[54] **A DIETARY SUPPLEMENT COMPRISING BETA-GLUCAN AND CASEIN HYDROLYSATE FOR IMPROVING HEALTH AND GROWTH PERFORMANCE IN A MAMMAL**

[54] **COMPLEMENT ALIMENTAIRE COMPRENANT DU BETA-GLUCANE ET UN HYDROLYSAT DE CASEINE POUR AMELIORER LA SANTE ET LES PERFORMANCES DE CROISSANCE CHEZ UN MAMMIFERE**

[72] SWEENEY, TORRES, IE  
[72] O'DOHERTY, JOHN, IE  
[71] UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN, IE  
[85] 2018-05-09  
[86] 2016-11-10 (PCT/EP2016/077332)  
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[30] EP (15193832.1) 2015-11-10

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN  
[54] **COMPOSITION AND METHODS FOR ANTI-TNFR2 ANTIBODIES**  
[54] **COMPOSITION ET METHODES POUR ANTICORPS ANTI-TNFR2**  
[72] THOMPSON, PETER ARMSTRONG, US  
[71] OPI VI- IP HOLDCO LLC, US  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/US2016/061343)  
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[30] US (62/254,127) 2015-11-11

[21] **3,004,832**  
[13] A1

[51] **Int.Cl. G01M 3/28 (2006.01) G01L 9/00 (2006.01) G01M 3/00 (2006.01)**

[25] EN  
[54] **WATER LEAK DETECTION USING PRESSURE SENSING**  
[54] **DETECTION DE FUITE D'EAU AU MOYEN D'UNE DETECTION DE PRESSION**  
[72] ENEV, MIROSLAV, US  
[72] BANERJEE, SALIL, US  
[72] PATEL, SHWETAK N., US  
[71] PHYN LLC, US  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/US2016/061370)  
[87] (WO2017/083547)  
[30] US (14/937,831) 2015-11-10

[21] **3,004,834**  
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01)**

[25] EN  
[54] **ZINC-FREE LUBRICATING COMPOSITION**  
[54] **COMPOSITION LUBRIFIANTE DEPOURVUE DE ZINC**  
[72] SUTTON, MICHAEL R., GB  
[72] VINCENT, PAUL R., GB  
[71] THE LUBRIZOL CORPORATION, US  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/US2016/061369)  
[87] (WO2017/083546)  
[30] US (62/253,871) 2015-11-11

[21] **3,004,836**  
[13] A1

[51] **Int.Cl. A23K 40/35 (2016.01) A23K 20/10 (2016.01) A23K 50/10 (2016.01)**

[25] FR  
[54] **FEED ADDITIVE, METHOD OF PREPARATION, AND USE IN ORDER TO IMPROVE THE ZOOTECHNICAL PERFORMANCES OF A RUMINANT**  
[54] **ADDITIF ALIMENTAIRE, PROCEDE DE PREPARATION ET UTILISATION POUR AMELIORER LES PERFORMANCES ZOOTECHNIQUES D'UN RUMINANT**  
[72] BRAVO, DAVID, CH  
[72] WALL, EMMA, FR  
[71] PANCOSMA SA, CH  
[85] 2018-05-09  
[86] 2016-11-22 (PCT/IB2016/001651)  
[87] (WO2017/089881)  
[30] FR (1502465) 2015-11-25

[21] **3,004,837**  
[13] A1

[51] **Int.Cl. E21B 43/1185 (2006.01) F42D 1/04 (2006.01) H01R 13/22 (2006.01) H01R 13/24 (2006.01)**

[25] EN  
[54] **CONTACT PLUNGER CARTRIDGE ASSEMBLY**  
[54] **ENSEMBLE CARTOUCHE DE PISTON DE CONTACT**  
[72] LANGFORD, DALE, US  
[72] LANE, ANDY, US  
[72] BLAIN, RICK, US  
[71] HUNTING TITAN, INC., US  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/US2016/061631)  
[87] (WO2017/083720)  
[30] US (62/254,540) 2015-11-12

[21] **3,004,838**  
[13] A1

[51] **Int.Cl. C10M 125/26 (2006.01) C07F 5/02 (2006.01)**

[25] EN  
[54] **BOROXINE BASED SEAL COMPATIBILITY AGENTS**  
[54] **AGENTS DE COMPATIBILITE AVEC LES JOINTS A BASE DE BOROXINE**  
[72] BELL, JASON RICHARD, US  
[72] BENNETT, CARL W., US  
[71] AFTON CHEMICAL CORPORATION, US  
[85] 2018-05-08  
[86] 2016-11-10 (PCT/US2016/061371)  
[87] (WO2017/083548)  
[30] US (62/254,016) 2015-11-11

[21] **3,004,840**  
[13] A1

[51] **Int.Cl. B65G 15/64 (2006.01) B65G 39/071 (2006.01) B65G 39/16 (2006.01)**

[25] EN  
[54] **APPARATUS AND METHOD FOR TRACKING CONVEYOR BELTS**  
[54] **APPAREIL ET PROCEDE DE SUIVI DE BANDES TRANSPORTEUSES**  
[72] DEVRIES, BRETT, E., US  
[71] FLEXIBLE STEEL LACING COMPANY, US  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/US2016/061531)  
[87] (WO2017/083649)  
[30] US (62/254,523) 2015-11-12

[21] **3,004,841**  
[13] A1

[51] **Int.Cl. C04B 14/04 (2006.01) C04B 20/10 (2006.01)**

[25] EN  
[54] **LOW-DUST FILLER FOR COMPOSITE BUILDING PRODUCT**  
[54] **CHARGE A FAIBLE TENEUR EN POUSSIERE POUR PRODUIT DE CONSTRUCTION COMPOSITE**  
[72] VERES, BENJAMIN, US  
[72] TUCHSCHERER, FRED, US  
[72] NEMUNAITIS, BRADLEY, US  
[72] OHLER, JEFFREY, US  
[71] THE EUCLID CHEMICAL COMPANY, US  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/US2016/061562)  
[87] (WO2017/083671)  
[30] US (62/254,268) 2015-11-12

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[13] A1

[51] **Int.Cl. C09D 127/12 (2006.01)**  
[25] EN  
[54] **CABLES COATED WITH FLUOROCOPOLYMER COATINGS**  
[54] **CABLES REVETUS DE REVETEMENTS DE COPOLYMERE FLUORE**  
[72] RANGANATHAN, SATHISH KUMAR, US  
[72] SIRIPURAPU, SRINIVAS, US  
[72] MHETAR, VIJAY, US  
[72] ANDERSEN, RYAN M., US  
[72] WOOD, KURT ARTHUR, US  
[71] GENERAL CABLE TECHNOLOGIES CORPORATION, US  
[71] ARKEMA INC., US  
[85] 2018-05-08  
[86] 2016-11-11 (PCT/US2016/061587)  
[87] (WO2017/083689)  
[30] US (62/255,224) 2015-11-13

[21] **3,004,845**  
[13] A1

[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/24 (2006.01) G02B 6/26 (2006.01)**  
[25] EN  
[54] **OPTICAL CONNECTOR, OPTICAL FIBER CONNECTION DEVICE, OPTICAL CONNECTOR MANUFACTURING METHOD, AND OPTICAL FIBER CONNECTION METHOD**  
[54] **CONNECTEUR OPTIQUE, DISPOSITIF DE CONNEXION DE FIBRE OPTIQUE, PROCEDE DE FABRICATION DE FIBRE OPTIQUE, ET PROCEDE DE CONNEXION DE FIBRE OPTIQUE**  
[72] MATSUDA, TAKAHARU, JP  
[72] LUONG, HUNG HUU, JP  
[71] FUJIKURA LTD., JP  
[85] 2018-05-09  
[86] 2016-11-17 (PCT/JP2016/084114)  
[87] (WO2017/086390)  
[30] JP (2015-226347) 2015-11-19

[21] **3,004,847**  
[13] A1

[51] **Int.Cl. H04L 7/04 (2006.01) H04N 21/236 (2011.01) H04N 21/6547 (2011.01) G04G 7/00 (2006.01) H04L 7/00 (2006.01)**  
[25] EN  
[54] **DATA PROCESSING APPARATUS AND DATA PROCESSING**  
[54] **DISPOSITIF DE TRAITEMENT DE DONNEES ET PROCEDE DE TRAITEMENT DE DONNEES**  
[72] MICHAEL, LACHLAN BRUCE, JP  
[72] TAKAHASHI, KAZUYUKI, JP  
[71] SONY CORPORATION, JP  
[85] 2018-05-09  
[86] 2016-11-11 (PCT/JP2016/083466)  
[87] (WO2017/090456)  
[30] JP (2015-229768) 2015-11-25

[21] **3,004,849**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/415 (2006.01) A61K 47/34 (2017.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **A METHOD FOR MORSELIZING AND/OR TARGETING PHARMACEUTICALLY ACTIVE PRINCIPLES TO SYNOVIAL TISSUE**  
[54] **PROCEDE DE MORCELLEMENT ET/OU DE CIBLAGE DE PRINCIPES PHARMACEUTIQUEMENT ACTIFS VERS UN TISSU SYNOVIAL**  
[72] GAUDRIALT, GEORGES, FR  
[72] GRIZOT, SYLVESTRE, FR  
[72] HURTIG, MARK, CA  
[72] SHIVE, MATTHEW, US  
[71] MEDINCELL, FR  
[85] 2018-05-09  
[86] 2016-11-16 (PCT/IB2016/001815)  
[87] (WO2017/085561)  
[30] US (62255778) 2015-11-16

[21] **3,004,850**  
[13] A1

[51] **Int.Cl. F16J 15/00 (2006.01) F16J 15/10 (2006.01) H01M 8/0271 (2016.01)**  
[25] EN  
[54] **GASKET AND MANUFACTURING METHOD THEREFOR**  
[54] **JOINT D'ETANCHEITE ET PROCEDE DE FABRICATION CORRESPONDANT**  
[72] HORIMOTO, TAKAYUKI, JP  
[72] YUI, HAJIME, JP  
[71] NOK CORPORATION, JP  
[85] 2018-05-09  
[86] 2016-12-01 (PCT/JP2016/085671)  
[87] (WO2017/094815)  
[30] JP (2015-236458) 2015-12-03

[21] **3,004,852**  
[13] A1

[51] **Int.Cl. C22B 1/00 (2006.01) C22B 1/02 (2006.01) C22B 1/11 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR THE DEPHOSPHORIZATION OF IRON ORE**  
[54] **PROCEDE ET APPAREIL POUR LA DEPHOSPHORATION DU MINERAI DE FER**  
[72] TOMMASI, LUCA, IT  
[72] ARSENE, FLORINA LILIANA, IT  
[71] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT  
[85] 2018-05-09  
[86] 2016-11-11 (PCT/IB2016/056794)  
[87] (WO2017/081646)  
[30] IT (102015000072630) 2015-11-13

[21] **3,004,858**  
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04J 1/00 (2006.01)**  
[25] EN  
[54] **TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD**  
[54] **DISPOSITIF DE TERMINAL, DISPOSITIF DE STATION DE BASE, ET PROCEDE DE COMMUNICATION**  
[72] SHIMEZAWA, KAZUYUKI, JP  
[71] SONY CORPORATION, JP  
[85] 2018-05-09  
[86] 2017-01-24 (PCT/JP2017/002265)  
[87] (WO2017/169005)  
[30] JP (2016-070599) 2016-03-31



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[51] **Int.Cl. F27B 9/02 (2006.01) F26B  
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F26B 25/00 (2006.01)**

[25] EN

[54] **VERTICAL OVEN FOR MAINLY  
FLAT PARTS**

[54] **FOUR VERTICAL POUR DES  
PIECES PRINCIPALEMENT  
PLATES**

[72] DOVADOLA, MASSIMO, IT

[72] GIOVANNINI, CRISTIAN, IT

[72] FRANZONI, LUIGI, IT

[71] CEFLA SOCIETA' COOPERATIVA,  
IT

[85] 2018-05-09

[86] 2017-03-16 (PCT/IB2017/051536)

[87] (WO2017/158550)

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<p>[51] <b>Int.Cl. A61L 27/52 (2006.01) A61K 8/65 (2006.01) A61K 8/73 (2006.01) A61Q 19/08 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>HYALURONIC ACID-COLLAGEN MATRICES FOR DERMAL FILLING AND VOLUMIZING APPLICATIONS</b></p> <p>[54] <b>COMPOSITIONS ET PROCEDES COMPRENANT UN ANTICORPS MONOCLONAL RECOMBINANT QUI PROMEUENT LA REMYELINISATION DU SYSTEME NERVEUX CENTRAL</b></p> <p>[72] YU, XIAOJIE, US</p> <p>[72] MANESIS, NICHOLAS J., US</p> <p>[72] POLLOCK, JACOB F., US</p> <p>[71] ALLERGAN, INC., US</p> <p>[71] ALLERGAN, INC., US</p> <p>[22] 2012-11-02</p> <p>[41] 2013-05-10</p> <p>[62] 2,854,570</p> <p>[30] US (61/555,970) 2011-11-04</p> <p>[30] US (13/603,213) 2012-09-04</p> <p>[30] US (13/605,565) 2012-09-06</p>	<p>[51] <b>Int.Cl. B65D 21/08 (2006.01) B65D 19/06 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>ROTATING SIDEWALL STOP FOR SUPPORTING FOLDING SIDEWALLS OF A HEIGHT-EXTENDED BULK BOX</b></p> <p>[54] <b>BUTEE DE PAROI LATERALE PIVOTANTE DESTINEE A SUPPORTER DES PAROIS LATERALES PLIANTES D'UNE BOITE DE VRAC A HAUTEUR PROLONGEE</b></p> <p>[72] MCDADE, CLINTON LAWRENCE, US</p> <p>[71] SCHAEFER SYSTEMS INTERNATIONAL, INC., US</p> <p>[22] 2017-08-24</p> <p>[41] 2018-04-03</p> <p>[30] US (62/403,357) 2016-10-03</p> <p>[30] US (15/678,561) 2017-08-16</p>	<p>[51] <b>Int.Cl. B65D 30/08 (2006.01) B65D 30/10 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>RECYCLABLE PACKAGE MADE FROM CO-EXTRUDED FILM STRUCTURE</b></p> <p>[54] <b>EMBALLAGE RECYCLABLE FAIT D'UNE STRUCTURE DE PELLICULE COEXTRUDEE</b></p> <p>[72] CLARE, ROBERT HUGH, CA</p> <p>[71] NOVA CHEMICALS CORPORATION, CA</p> <p>[22] 2017-08-29</p> <p>[41] 2018-03-01</p> <p>[30] US (62/382,310) 2016-09-01</p>
<p style="text-align: center;">[21] <b>2,971,029</b> [13] A1</p> <p>[51] <b>Int.Cl. B08B 3/04 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PARTS WASHING OR CLEANING DEVICE INCLUDING REDIRECTORS</b></p> <p>[54] <b>APPAREIL DE NETTOYAGE OU DE LAVAGE DE PIECES COMPORTANT DES ELEMENTS DE REDIRECTION</b></p> <p>[72] VAN ZON, DAVID N., US</p> <p>[71] ALLIANCE MANUFACTURING, INC., US</p> <p>[22] 2017-06-15</p> <p>[41] 2018-04-25</p> <p>[30] US (62/412,515) 2016-10-25</p>	<p style="text-align: center;">[21] <b>2,977,366</b> [13] A1</p> <p>[51] <b>Int.Cl. A23L 19/00 (2016.01) A23L 5/10 (2016.01) B65D 81/34 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS AND APPARATUSES FOR PREPARING SPAGHETTI SQUASH</b></p> <p>[54] <b>METHODES ET APPAREILLAGES DE PREPARATION DE COURGE SPAGHETTI</b></p> <p>[72] STEPIEN, BRIAN, US</p> <p>[71] GROWERS EXPRESS, LLC, US</p> <p>[22] 2017-08-24</p> <p>[41] 2018-03-14</p> <p>[30] US (15/265,416) 2016-09-14</p>	<p style="text-align: center;">[21] <b>2,977,774</b> [13] A1</p> <p>[51] <b>Int.Cl. B29C 70/12 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SURFACING FABRICS, COMPOSITES COMPRISING THE SAME, AND COMPOSITIONS AND METHODS FOR PREPARING THE SAME</b></p> <p>[54] <b>TISSUS DE SURFACAGE, COMPOSITES COMPORTANT LESDITS TISSUS, ET COMPOSITIONS ET METHODES DE PREPARATION ASSOCIEES</b></p> <p>[72] RATCLIFFE, BRANDON, US</p> <p>[72] BLITON, RICHARD, US</p> <p>[72] DOUGLASS, NELSON, US</p> <p>[72] CARROLL, WILLIAM, US</p> <p>[72] PHILLIPS, WILLIAM OSCAR, US</p> <p>[71] PRECISION FABRICS GROUP, INC., US</p> <p>[22] 2017-08-29</p> <p>[41] 2018-03-02</p> <p>[30] US (62/383,035) 2016-09-02</p> <p>[30] US (15/687,133) 2017-08-25</p>

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[21] **2,977,886**  
[13] A1

[51] **Int.Cl. B29C 51/10 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR CONTINUOUS VACUUM FORMING OF EXTRUDED POLYMER SHEETS**  
[54] **APPAREIL ET METHODE DE FORMAGE PAR ASPIRATION CONTINUE DE FEUILLES DE POLYMERE EXTRUDEES**  
[72] KARR, GARY L., US  
[72] VEACH, RICHARD R., US  
[72] BAXTER, L. REX, US  
[72] KRATZER, JEFF A., US  
[72] BEASLEY, BRYAN, US  
[71] PLY GEM INDUSTRIES, INC., US  
[22] 2017-08-30  
[41] 2018-02-28  
[30] US (62/381,651) 2016-08-31

[21] **2,977,887**  
[13] A1

[51] **Int.Cl. B65D 81/18 (2006.01)**  
[25] EN  
[54] **PASSIVE AND FORCED AIR COOLING FOR FRESH PRODUCE**  
[54] **REFROIDISSEMENT D'AIR PASSIF ET FORCE DESTINE AUX PRODUITS FRAIS**  
[72] MALCOLM, CHIRSTIAN DAMIAN, US  
[71] DIRECT PACK, INC., US  
[22] 2017-08-30  
[41] 2018-02-28  
[30] US (62/381,954) 2016-08-31

[21] **2,982,472**  
[13] A1

[51] **Int.Cl. B01D 3/18 (2006.01)**  
[25] EN  
[54] **SEMICONTINUOUS DIVIDED WALL DISTALLATION**  
[54] **DISTILLATION PAR MEMBRANE DIVISEE SEMICONTINUE**  
[72] ADAMS, THOMAS A., II, CA  
[72] BALLINGER, SARAH, CA  
[71] MCMASTER UNIVERSITY, CA  
[22] 2017-10-16  
[41] 2018-04-14  
[30] US (62/408369) 2016-10-14

[21] **2,984,004**  
[13] A1

[51] **Int.Cl. B01D 33/06 (2006.01) A01C 3/00 (2006.01)**  
[25] EN  
[54] **IMPROVEMENTS IN MACHINES FOR THE TREATMENT OF PIG SLURRY**  
[54] **AMELIORATIONS AUX MACHINES DESTINEES AU TRAITEMENT DU LISIER DE PORC**  
[72] ROMEU GUARDIA, GENER, ES  
[71] ROTECNA, S.A., ES  
[22] 2017-10-26  
[41] 2018-05-02  
[30] ES (201631399) 2016-11-02

[21] **2,984,054**  
[13] A1

[51] **Int.Cl. B29C 45/26 (2006.01)**  
[25] EN  
[54] **RESIN INJECTION APPARATUS AND METHOD OF MANUFACTURING CORE PRODUCT**  
[54] **APPAREILLAGE D'INJECTION DE RESINE ET METHODE DE FABRICATION DE PRODUIT PRINCIPAL**  
[72] MABU, HIROTOSHI, JP  
[71] MITSUI HIGH-TEC, INC., JP  
[22] 2017-10-27  
[41] 2018-04-30  
[30] JP (2016-212555) 2016-10-31  
[30] JP (2017-170628) 2017-09-05

[21] **2,984,208**  
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01)**  
[25] EN  
[54] **DESIGN IMPROVEMENTS FOR MECHANICAL SEPARATION DEVICES**  
[54] **AMELIORATIONS DE MODELE DE DISPOSITIFS DE SEPARATION MECANIQUE**  
[72] GALLOP, CHARLES C., US  
[71] ICM, INC., US  
[22] 2017-10-30  
[41] 2018-05-04  
[30] US (62/417,983) 2016-11-04

[21] **2,984,219**  
[13] A1

[51] **Int.Cl. B65D 5/18 (2006.01) B65D 5/42 (2006.01)**  
[25] EN  
[54] **CARTON AND BLANK THEREFOR**  
[54] **CARTON ET EBAUCHE ASSOCIEE**  
[72] BRUNDAGE, DAVID J., US  
[72] REBMANN, CHAD, US  
[72] MACK, JORY B., US  
[71] WESTROCK SHARED SERVICES, LLC, US  
[22] 2017-10-30  
[41] 2018-05-04  
[30] US (62/417678) 2016-11-04

[21] **2,984,223**  
[13] A1

[51] **Int.Cl. B65D 25/38 (2006.01) B67D 7/30 (2010.01) G01F 11/04 (2006.01)**  
[25] EN  
[54] **SELECTIVE METERED DOSE DISPENSING DEVICE**  
[54] **DISPOSITIF DE DISTRIBUTION DE DOSE CALCULEE SELECTIVE**  
[72] VENTURI, JOHN-PHILIP, CA  
[72] MORRISON, BILLY, US  
[72] BEDNARCZYK, ANDREA, CA  
[72] DELBUSSO, MARCO, CA  
[71] NH REAL ESTATE HOLDINGS LTD., CA  
[22] 2017-10-30  
[41] 2018-04-29  
[30] US (62/414,717) 2016-10-29

[21] **2,984,281**  
[13] A1

[51] **Int.Cl. B05B 7/26 (2006.01) B05B 9/04 (2006.01)**  
[25] EN  
[54] **HIGH-VOLUME FOAM SPRAY GUN**  
[54] **PISTOLET PULVERISATEUR DE MOUSSE A HAUT VOLUME**  
[72] WESTBY, BERNARD, US  
[72] ELLIS, PETER, US  
[71] PEDERO PIPE SUPPORT SYSTEMS USA, LP, US  
[22] 2017-11-01  
[41] 2018-05-09  
[30] US (62/419,831) 2016-11-09  
[30] US (15/714,829) 2017-09-25

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[21] **2,984,298**  
[13] A1

[51] **Int.Cl. B65D 55/06 (2006.01) B65D 43/16 (2006.01)**  
[25] EN  
[54] **TAMPER-EVIDENT CONTAINER WITH A TABBED HINGE**  
[54] **CONTENANT INVIOLEBLE DOTE D'UNE CHARNIERE A PATTE**  
[72] ALLERS, BRIAN S., US  
[72] WARNER, MICHAEL V., US  
[71] GENPAK, LLC, US  
[22] 2017-10-30  
[41] 2018-04-28  
[30] US (15/338145) 2016-10-28  
[30] US (15/797313) 2017-10-30

[21] **2,984,526**  
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01) E21B 21/06 (2006.01)**  
[25] EN  
[54] **DILUENT TREATED DRILLING WASTE MATERIAL RECOVERY PROCESS AND SYSTEM**  
[54] **PROCEDE DE RECUPERATION DE MATIERES RESIDUELLES DE FORAGE TRAITEES AU DILUANT ET SYSTEME**  
[72] ROSS, STAN, CA  
[72] PALMER, WENDELL, CA  
[71] RECOVER ENERGY SERVICES INC., CA  
[22] 2017-11-02  
[41] 2018-05-03  
[30] US (62/416,952) 2016-11-03

[21] **2,984,748**  
[13] A1

[51] **Int.Cl. B01D 53/86 (2006.01)**  
[25] EN  
[54] **METHANE CONVERTER AND METHOD OF CONVERTING METHANE EMISSIONS**  
[54] **CONVERTISSEUR DE METHANE ET METHODE DE CONVERSION DES EMISSIONS DE METHANE**  
[72] MALDONADO, ALEJANDRO, CA  
[72] WERAN, LORNE, CA  
[72] MAH, KOR ZHENG, CA  
[72] SZYNKARCZUK, JAREK, CA  
[71] CCI THERMAL TECHNOLOGIES INC., CA  
[22] 2017-11-06  
[41] 2018-05-07  
[30] US (62/418,406) 2016-11-07

[21] **2,985,008**  
[13] A1

[51] **Int.Cl. B65D 81/02 (2006.01) B65D 75/02 (2006.01)**  
[25] EN  
[54] **FRAME END CAP PACKAGE**  
[54] **ENSEMBLE DE CAPUCHON D'EXTREMITE DE CADRE**  
[72] MARTIN, RYAN, US  
[72] FORREST, EARL DAVID, US  
[71] LIBERTY HARDWARE MFG. CORP., US  
[22] 2017-11-08  
[41] 2018-05-09  
[30] US (62/419,587) 2016-11-09  
[30] US (15/652,415) 2017-07-18

[21] **2,995,467**  
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) C07H 21/00 (2006.01) C07K 16/00 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **HAPTENS, HAPTEN CONJUGATES, COMPOSITIONS THEREOF AND METHOD FOR THEIR PREPARATION AND USE**  
[54] **HAPTENES, CONJUGUES D'HAPTENES, COMPOSITIONS ASSOCIEES ET METHODE DE PREPARATION ET UTILISATION ASSOCIEES**  
[72] KOSMEDER, JERRY W., US  
[72] LEFEVER, MARK, US  
[72] JOHNSON, DONALD, US  
[72] FARRELL, MICHAEL, US  
[72] ZHILINA, ZHANNA, US  
[72] BIENIARZ, CHRISTOPHER, US  
[71] VENTANA MEDICAL SYSTEMS, INC., US  
[22] 2007-11-01  
[41] 2008-05-29  
[62] 2,858,359  
[30] US (60/856133) 2006-11-01

[21] **2,995,547**  
[13] A1

[51] **Int.Cl. A61B 50/30 (2016.01) A61B 17/86 (2006.01) A61C 8/00 (2006.01) A61C 19/02 (2006.01)**  
[25] FR  
[54] **PACKAGING FOR AN OBJECT AND SET COMPRISING SUCH PACKAGING**  
[54] **EMBALLAGE POUR OBJET ET ENSEMBLE COMPRENANT UN TEL EMBALLAGE**  
[72] RICHART, OLIVIER, FR  
[71] SELENIUM MEDICAL, FR  
[22] 2011-04-22  
[41] 2011-11-03  
[62] 2,795,463  
[30] FR (1053191) 2010-04-27

[21] **3,000,321**  
[13] A1

[51] **Int.Cl. H01H 9/02 (2006.01) G01R 1/20 (2006.01) H01H 1/58 (2006.01) H01H 3/02 (2006.01)**  
[25] EN  
[54] **LEVEL CONNECTOR FOR A MULTI-POLE TEST SWITCH**  
[54] **COMMUTATEUR DE TEST ELECTRIQUE DOTE D'UNE BASE SOLIDIFIANTE**  
[72] BOURGEOIS, JEAN-RAYMOND, CA  
[71] BOURGEOIS, JEAN-RAYMOND, CA  
[22] 2016-04-11  
[41] 2016-10-10  
[62] 2,989,641  
[30] US (62/145,850) 2015-04-10

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[21] **3,002,446**  
[13] A1

[51] **Int.Cl. H04N 21/462 (2011.01) H04N 21/431 (2011.01) H04N 21/454 (2011.01) H04N 21/6334 (2011.01) H04N 5/445 (2011.01)**

[25] EN

[54] **MULTIPLE INTERACTIVE ELECTRONIC PROGRAM GUIDE SYSTEM AND METHODS**

[54] **SYSTEME ET PROCEDES DE GUIDE DE PROGRAMMES ELECTRONIQUE, MULTIPLE ET INTERACTIF**

[72] KNOWLES, JAMES H., US

[72] JOHNSON, KENNETH DAVID, US

[72] CHANG, GORDON, US

[71] ROVI GUIDES, INC., US

[22] 2000-03-06

[41] 2000-09-08

[62] 2,816,164

[30] US (60/123,294) 1999-03-04

[30] US (60/135,004) 1999-05-20

[21] **3,002,818**  
[13] A1

[51] **Int.Cl. G01N 23/10 (2018.01) G01N 23/083 (2018.01) G01N 23/087 (2018.01)**

[25] EN

[54] **HIGH-SPEED SECURITY INSPECTION SYSTEM**

[54] **SYSTEME D'INSPECTION DE SECURITE HAUTE VITESSE**

[72] MORTON, EDWARD JAMES, GB

[71] RAPISCAN SYSTEMS, INC., US

[22] 2018-04-25

[41] 2018-04-25

[30] US (61/596,648) 2012-02-08

[21] **3,002,931**  
[13] A1

[51] **Int.Cl. H04R 29/00 (2006.01) G10L 19/032 (2013.01) H04R 3/00 (2006.01)**

[25] EN

[54] **AUDIO SIGNAL PROCESSING DEVICE, AUDIO SIGNAL PROCESSING METHOD AND AUDIO SIGNAL PROCESSING PROGRAM**

[54] **APPAREIL DE TRAITEMENT DE SIGNAL AUDIO ET METHODE DE TRAITEMENT DE SIGNAL AUDIO DESTINEE A ATTENUER L'AUGMENTATION SOUDAINE DE L'AMPLITUDE DU SIGNAL AUDIO DECODE**

[72] TSUTSUMI, KIMITAKA, JP

[72] KIKUIRI, KEI, JP

[72] YAMAGUCHI, ATSUSHI, JP

[71] NTT DOCOMO, INC., JP

[22] 2014-10-10

[41] 2015-05-07

[62] 2,918,715

[30] JP (2013-224120) 2013-10-29

[21] **3,002,975**  
[13] A1

[51] **Int.Cl. H04L 12/721 (2013.01) H04L 12/723 (2013.01) H04L 12/947 (2013.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR IMPLEMENTING AND MANAGING VIRTUAL SWITCHES**

[54] **PROCEDE ET APPAREIL DESTINES A METTRE EN APPLICATION ET A GERER DES COMMUTATEURS VIRTUELS**

[72] CASADO, MARTIN, US

[72] INGRAM, PAUL S., US

[72] AMIDON, KEITH ERIC, US

[72] BALLAND, PETER J., III, US

[72] KOPONEN, TEEMU, US

[72] PFAFF, BENJAMIN LEVY, US

[72] PETTIT, JUSTIN, US

[72] GROSS, JESSE E., IV, US

[72] WENDLANDT, DANIEL J., US

[71] NICIRA, INC., US

[22] 2010-04-01

[41] 2010-10-07

[62] 2,913,167

[30] US (61/165,875) 2009-04-01

[21] **3,002,989**  
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A23L 33/15 (2016.01) A23P 10/35 (2016.01)**

[25] EN

[54] **NANOPARTICLE COMPOSITIONS AND METHODS AS CARRIERS OF NUTRACEUTICAL FACTORS ACROSS CELL MEMBRANES AND BIOLOGICAL BARRIERS**

[54] **COMPOSITIONS DE NANOPARTICULES ET PROCEDES UTILISES EN TANT QUE SUPPORTS DE FACTEURS NUTRACEUTIQUES A TRAVERS DES MEMBRANES CELLULAIRES ET DES BARRIERES BIOLOGIQUES**

[72] KAUFMAN, RICHARD CLARK, US

[71] NANOSPHERE HEALTH SCIENCES, LLC, US

[22] 2014-10-14

[41] 2015-04-23

[62] 2,926,797

[30] US (61/890,773) 2013-10-14

[21] **3,002,994**  
[13] A1

[51] **Int.Cl. A61F 11/00 (2006.01) A61M 31/00 (2006.01) A61N 1/30 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE SIMULTANEOUS BILATERAL TREATMENT OF TARGET TISSUES WITHIN THE EARS**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT BILATERAL SIMULTANE DE TISSUS CIBLES DANS LES OREILLES**

[72] CLIFFORD, ANTON G., US

[72] LIU, GREGORY, US

[72] MORRIS, JOHN H., US

[72] MAKOWER, JOSHUA, US

[72] FACTEAU, WILLIAM M., US

[72] GOLDFARB, ERIC, US

[72] CHANG, JOHN Y., US

[72] SHAHOIAN, ERIK JAMES, US

[71] TUSKER MEDICAL, INC., US

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[41] 2008-10-30

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[30] US (60/912,902) 2007-04-19

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[13] A1

[51] **Int.Cl. C12Q 1/6834 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6844 (2018.01) C40B 40/06 (2006.01) C40B 50/06 (2006.01) C40B 50/18 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **MICROARRAY FABRICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FABRICATION DE MICROPUCES**

[72] BOWEN, M. SHANE, US

[72] GUNDERSON, KEVIN L., US

[72] LIN, SHENGRONG, US

[72] BACIGALUPO, MARIA CANDELARIA ROBERT, US

[72] VIJAYAN, KANDASWAMY, US

[72] WU, YIR-SHYUAN, US

[72] VENKATESAN, BALA MURALI, US

[72] TSAY, JAMES, US

[72] BEIERLE, JOHN M., US

[72] BERTI, LORENZO, US

[72] PARK, SANG RYUL, US

[71] ILLUMINA, INC., US

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[30] US (61/552,712) 2011-10-28

[21] **3,003,789**  
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[51] **Int.Cl. G06F 15/16 (2006.01) G06F 9/455 (2018.01)**

[25] EN

[54] **VIRTUAL NON-UNIFORM MEMORY ARCHITECTURE FOR VIRTUAL MACHINES**

[54] **ARCHITECTURE DE MEMOIRE VIRTUELLE NON UNIFORME (NUMA) POUR MACHINES VIRTUELLES**

[72] OSHINS, JACOB, US

[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US

[22] 2010-03-19

[41] 2010-09-30

[62] 2,753,229

[30] US (12/412,258) 2009-03-26

[21] **3,003,793**  
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/068 (2006.01) A61B 17/072 (2006.01) A61B 17/28 (2006.01)**

[25] EN

[54] **GRASPING JAW MECHANISM**

[54] **MECANISME DE MACHOIRE DE SAISIE**

[72] SCIRICA, PAUL A., US

[71] COVIDIEN LP, US

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[41] 2008-04-06

[62] 2,895,725

[30] US (11/544,061) 2006-10-06

[21] **3,003,797**  
[13] A1

[51] **Int.Cl. H04N 19/14 (2014.01) H04N 19/115 (2014.01) H04N 19/159 (2014.01) H04N 19/37 (2014.01) H04N 19/52 (2014.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ENCODING VIDEO AND METHOD AND APPARATUS FOR DECODING VIDEO BY CONSIDERING SKIP AND SPLIT ORDER**

[54] **PROCEDE ET APPAREIL POUR ENCODER UNE VIDEO ET PROCEDE ET APPAREIL POUR DECODER UNE VIDEO EN CONSIDERANT UN ORDRE DE SAUT ET DE PARTAGE**

[72] KIM, IL-KOO, KR

[72] MIN, JUNG-HYE, KR

[72] JUNG, HAE-KYUNG, KR

[72] LEE, SUN-IL, KR

[72] CHEON, MIN-SU, KR

[71] SAMSUNG ELECTRONICS CO., LTD., KR

[22] 2011-01-13

[41] 2011-07-21

[62] 2,920,090

[30] KR (10-2010-0003555) 2010-01-14

[21] **3,003,994**  
[13] A1

[51] **Int.Cl. F21K 9/64 (2016.01) H01L 33/04 (2010.01) F21K 9/00 (2016.01) F21K 9/60 (2016.01) A01G 9/20 (2006.01) H05B 37/02 (2006.01)**

[25] EN

[54] **LIGHTING ASSEMBLY**

[54] **APPAREIL D'ECLAIRAGE**

[72] AIKALA, LARS, FI

[71] VALOYA OY, FI

[22] 2010-09-16

[41] 2011-03-24

[62] 2,767,905

[30] FI (20095967) 2009-09-18

[30] US (61/243,613) 2009-09-18

[30] US (12/797,215) 2010-06-09

[21] **3,004,012**  
[13] A1

[51] **Int.Cl. B21J 15/02 (2006.01) B64F 5/10 (2017.01) B25J 9/00 (2006.01) B64C 1/12 (2006.01) F16B 5/04 (2006.01)**

[25] EN

[54] **TWO-STAGE RIVETING**

[54] **POSE DE RIVET EN DEUX ETAPES**

[72] OBEROI, HARINDER, US

[72] DRAPER, ALAN S., US

[72] SARH, BRANKO, US

[72] FINDLAY, MELISSA ANN, US

[72] ARRIAGA, JORGE ALBERTO, US

[71] THE BOEING COMPANY, US

[22] 2015-07-02

[41] 2016-01-09

[62] 2,896,059

[30] US (62/022,641) 2014-07-09

[30] US (14/559,483) 2014-12-03

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,004,018**  
[13] A1

[51] **Int.Cl. B21J 15/02 (2006.01) B64F 5/10 (2017.01) B25J 9/00 (2006.01) B64C 1/12 (2006.01) F16B 5/04 (2006.01)**

[25] EN  
[54] **TWO-STAGE RIVETING**  
[54] **POSE DE RIVET EN DEUX ETAPES**

[72] OBEROI, HARINDER, US  
[72] DRAPER, ALAN S., US  
[72] SARH, BRANKO, US  
[72] FINDLAY, MELISSA ANN, US  
[72] ARRIAGA, JORGE ALBERTO, US  
[71] THE BOEING COMPANY, US  
[22] 2015-07-02  
[41] 2016-01-09  
[62] 2,896,059  
[30] US (62/022,641) 2014-07-09  
[30] US (14/559,483) 2014-12-03

[21] **3,004,030**  
[13] A1

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[25] EN  
[54] **PLANT REGULATORY ELEMENTS AND USES THEREOF**  
[54] **ELEMENTS DE REGULATION DES PLANTES ET LEURS UTILISATIONS**

[72] FLASINSKI, STANISLAW, US  
[72] FLASINSKI, STANISLAW, US  
[71] MONSANTO TECHNOLOGY LLC, US  
[22] 2012-03-21  
[41] 2012-10-04  
[62] 2,831,133  
[30] US (61/467,875) 2011-03-25

[21] **3,004,040**  
[13] A1

[51] **Int.Cl. B21J 15/02 (2006.01) B64F 5/10 (2017.01) B25J 9/00 (2006.01) B64C 1/12 (2006.01) F16B 5/04 (2006.01)**

[25] EN  
[54] **TWO-STAGE RIVETING**  
[54] **POSE DE RIVET EN DEUX ETAPES**

[72] OBEROI, HARINDER, US  
[72] DRAPER, ALAN S., US  
[72] SARH, BRANKO, US  
[72] FINDLAY, MELISSA ANN, US  
[72] ARRIAGA, JORGE ALBERTO, US  
[71] THE BOEING COMPANY, US  
[22] 2015-07-02  
[41] 2016-01-09  
[62] 2,896,059  
[30] US (62/022,641) 2014-07-09  
[30] US (14/559,483) 2014-12-03

[21] **3,004,025**  
[13] A1

[51] **Int.Cl. B60N 3/04 (2006.01)**

[25] EN  
[54] **REPLACEABLE CAR MAT HOLDER WITH A CONVERGENCE LINE HOLDING DEVICE**  
[54] **DISPOSITIF DE MAINTIEN DE TAPIS D'AUTO AMOVIBLE**

[72] GARBARINO, GWENDOLYN MARY, US  
[71] SILVER PLUME, LLC, US  
[22] 2015-01-27  
[41] 2015-08-04  
[62] 2,880,209  
[30] US (14/171,824) 2014-02-04

[21] **3,004,039**  
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/113 (2010.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01)**

[25] EN  
[54] **PLANT REGULATORY ELEMENTS AND USES THEREOF**  
[54] **ELEMENTS DE REGULATION DES PLANTES ET LEURS UTILISATIONS**

[72] FLASINSKI, STANISLAW, US  
[71] MONSANTO TECHNOLOGY LLC, US  
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[62] 2,831,133  
[30] US (61/467,875) 2011-03-25

[21] **3,004,061**  
[13] A1

[51] **Int.Cl. A61G 11/00 (2006.01) A61M 16/10 (2006.01)**

[25] EN  
[54] **INCUBATOR**  
[54] **INCUBATEUR**

[72] BINK, JEROEN, NL  
[72] VAN DIJK, OSKAR, NL  
[72] WILLEMSSEN, HELEEN, NL  
[72] VAN DENHOUT, JEROEN, NL  
[71] NINGBO DAVID MEDICAL DEVICE CO., LTD., CN  
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[62] 2,815,746

[21] **3,004,026**  
[13] A1

[51] **Int.Cl. A47H 5/14 (2006.01) A47H 3/02 (2006.01) A47H 5/032 (2006.01) E06B 9/262 (2006.01) E06B 9/326 (2006.01)**

[25] EN  
[54] **WINDOW COVERING**  
[54] **COUVRE-FENETRE**

[72] LIN, TZONG-FU, CN  
[71] WHOLE SPACE INDUSTRIES LTD., CN  
[22] 2011-12-15  
[41] 2012-06-27  
[62] 2,762,050  
[30] US (61/427,342) 2010-12-27

[21] **3,004,069**  
[13] A1

[51] **Int.Cl. B60P 3/07 (2006.01) B60D 1/14 (2006.01) B62D 49/00 (2006.01) B62D 53/08 (2006.01)**

[25] EN  
[54] **FRONT TOW EXTENDED SADDLE**  
[54] **SABOT AVANT PROLONGE DE REMORQUAGE**

[72] SCHUETTENBERG, DONALD W., US  
[71] ATC TRANSPORTATION LLC, US  
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[62] 2,596,482  
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[21] **3,004,075**  
[13] A1

[51] **Int.Cl. A61M 1/12 (2006.01)**  
[25] EN  
[54] **HEART HELP DEVICE, SYSTEM, AND METHOD**  
[54] **PROCEDE, SYSTEME ET DISPOSITIF D'ASSISTANCE CARDIAQUE**  
[72] FORSELL, PETER, CH  
[71] MEDICALTREE PATENT LTD., MT  
[22] 2009-10-12  
[41] 2010-04-15  
[62] 2,776,450  
[30] CH (0802135-4) 2008-10-10  
[30] CH (0802136-2) 2008-10-10  
[30] CH (0802139-6) 2008-10-10  
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[30] US (61/202380) 2009-02-24  
[30] US (61/202382) 2009-02-24  
[30] US (61/202383) 2009-02-24  
[30] US (61/202393) 2009-02-25  
[30] US (61/202404) 2009-02-25  
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[30] US (61/202407) 2009-02-25

[21] **3,004,093**  
[13] A1

[51] **Int.Cl. E21B 7/04 (2006.01) E21B 44/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR SURFACE STEERABLE DRILLING**  
[54] **SYSTEME ET PROCEDE POUR FORAGE POUVANT ETRE DIRIGE DEPUIS LA SURFACE**  
[72] BENSON, TODD W., US  
[72] CHEN, TEDDY C., US  
[71] MOTIVE DRILLING TECHNOLOGIES, INC., US  
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[41] 2013-06-27  
[62] 2,868,241  
[30] US (13/334,370) 2011-12-22

[21] **3,004,101**  
[13] A1

[51] **Int.Cl. E21B 7/20 (2006.01) E21B 17/07 (2006.01) E21B 19/06 (2006.01) E21B 33/035 (2006.01)**  
[25] EN  
[54] **SUBSEA DRILLING WITH CASING**  
[54] **FORAGE SOUS-MARIN AVEC TUBAGE**  
[72] TREVINO, JOSE A., US  
[72] ODELL, ALBERT C.II, US  
[72] TWARDOWSKI, ERIC M., US  
[72] LE, TUONG THANH, US  
[72] XU, WEI JAKE, US  
[72] FEASEY, GUY F., GB  
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
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[62] 2,873,799  
[30] US (61/199,510) 2008-11-17

[21] **3,004,121**  
[13] A1

[51] **Int.Cl. A61M 27/00 (2006.01) A61M 1/12 (2006.01)**  
[25] EN  
[54] **HEART HELP DEVICE, SYSTEM, AND METHOD**  
[54] **PROCEDE, SYSTEME ET DISPOSITIF D'ASSISTANCE CARDIAQUE**  
[72] FORSELL, PETER, CH  
[71] MEDICALTREE PATENT LTD., MT  
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[30] SE (0802135-4) 2008-10-10  
[30] SE (0802136-2) 2008-10-10  
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[30] SE (0802140-4) 2008-10-10  
[30] SE (0802141-2) 2008-10-10  
[30] SE (0802142-0) 2008-10-10  
[30] SE (0802143-8) 2008-10-10  
[30] SE (0802144-6) 2008-10-10  
[30] US (61/202380) 2009-02-24  
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[30] US (61/202406) 2009-02-25  
[30] US (61/202407) 2009-02-25

[21] **3,004,276**  
[13] A1

[51] **Int.Cl. G01N 1/04 (2006.01) G21C 17/017 (2006.01)**  
[25] EN  
[54] **CIRCUMFERENTIAL SAMPLING TOOL HAVING MULTIPLE SAMPLE CUTTERS**  
[54] **OUTIL D'ECHANTILLONNAGE PERIPHERIQUE COMPORTANT DES COUTEAUX D'ECHANTILLONNAGE MULTIPLES**  
[72] HERSAK, GREG, CA  
[72] KING, JAMES MITCH, CA  
[72] WRAY, RICHARD, CA  
[71] ATOMIC ENERGY OF CANADA LIMITED (AECL), CA  
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# Index of Canadian Patents Issued

May 29, 2018

## Index des brevets canadiens délivrés

29 mai 2018

3M INNOVATIVE PROPERTIES COMPANY	2,761,709	ALVAREZ, MANUEL S.	2,845,857	BALL CORPORATION	2,956,783
3M INNOVATIVE PROPERTIES COMPANY	2,803,078	AMPHLETT, GODFREY W. AN, SEUNGJOO	2,893,252	BALMAIN, JOSSELINE	2,769,198
3M INNOVATIVE PROPERTIES COMPANY	2,978,004	ANACOR	2,873,374	BALZ, ERIC R.	2,755,839
4427017 CANADA INC.	2,803,643	PHARMACEUTICALS, INC.	2,810,021	BAO, HANBO	2,913,187
A O SCHALLINOX GMBH	2,839,185	ANDERSON, BRYAN M.	2,755,839	BARABASH, ANDREW	2,943,763
AB INITIO TECHNOLOGY LLC	2,558,242	ANDERSON, MICHAEL	2,897,008	BARATTA, CARLA	2,796,026
ABB OY	2,948,984	ANDO, HIDEKI	2,774,871	BARBER, JEFFREY B.	2,830,413
ABBOTT GMBH & CO. KG	2,806,816	ANDRADE DE SOUZA, WOLNEY	2,812,072	BARBERA, JAMES S.	2,728,794
ABBVIE DEUTSCHLAND GMBH & CO KG	2,670,368	ANDRES, TODD T.	2,881,694	BARFOOT, DAVID A.	2,921,564
ABBVIE INC.	2,670,368	ANGELI, ROBERTO	2,800,094	BARLOW, EVE H.	2,670,368
ABELA, JEROME	2,803,491	ANGELINO, ANTHONY	2,939,645	BARLOW, JILLIAN	2,739,050
ABURTO, JENNIE M.	2,939,645	ANGILELLA, JEAN-REGIS	2,982,987	BARNICLE, KATHRYN A.	2,701,596
ACCIPITER RADAR TECHNOLOGIES INC.	2,950,815	ANIKET, NFN	2,927,746	BARROW, JAMES C.	2,789,475
ACKERMAN, PATRICE K.	2,883,719	AOI SEIKI CO., LTD.	2,924,896	BARTEE, CHARLES	2,929,374
ADAPTIVE BIOTECHNOLOGIES CORP.	2,742,380	APPLE INC.	2,935,782	BARTFELD, BENJAMIN	2,949,825
ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC.	2,867,845	ARAMAYO, THOMAS F.	2,753,431	BARTHOLOMAEUS, JOHANNES	2,807,621
ADDY, KENNETH L.	2,848,554	ARCELORMITTAL INVESTIGACION Y DESARROLLO SL	2,868,147	BARTIER, JEROME	2,851,564
AESCHLIMANN, MARCEL	2,811,327	ARCHER DANIELS MIDLAND COMPANY	2,820,940	BARTKO, ANDREW P.	2,839,597
AGARWAL, ABHILESH	2,873,141	ARCONIC INC.	2,868,264	BARZANTI, ANDREA	2,754,132
AGENA BIOSCIENCE, INC.	2,742,272	ARDENT MEDICAL CORPORATION	2,852,759	BASE KING, LLC	2,703,424
AGGARWAL, GAURAV	2,717,612	ARDRON, DAVID NEIL	2,759,492	BASF CORPORATION	2,798,332
AGIENIC, INC.	2,835,650	ARKEMA FRANCE	2,911,208	BASF PHARMA (CALLANISH) LIMITED	2,873,141
AGRAFIOTI, FOTEINI	2,835,460	ARLANXEO NETHERLANDS B.V.	2,784,976	BASIT, NAUMAN	2,918,861
AGRAWAL, ANOOP	2,835,650	ARRIS ENTERPRISES LLC	2,923,807	BATCHVAROVA, NIKOLETA	2,737,690
AIKAWA, YOSHIHIRO	2,992,541	ASCENSIA DIABETES CARE HOLDINGS AG	2,700,507	BATTELLE MEMORIAL INSTITUTE	2,830,413
AIRBUS DEFENCE AND SPACE GMBH	2,790,942	ASHITAKA, YU	2,964,781	BATTELLE MEMORIAL INSTITUTE	2,839,597
AIRBUS OPERATIONS (SAS)	2,746,580	ATC TRANSPORTATION LLC	2,596,482	BATTEY, ROBERT J.	2,881,694
AKARSU, MURAT	2,835,650	ATHABASCA OIL CORPORATION	2,869,600	BATTISTINI, ELISA	2,927,706
AKASAM, SIVAPRASAD	2,938,331	ATTRI, RAVI	2,949,825	BATTLES, CHRISTOPHER A.	2,949,825
ALBANY INTERNATIONAL CORP.	2,920,979	ATTWOOD, GRAEME TREVOR	2,700,164	BAUM, KEVIN L.	2,923,807
ALBANY INTERNATIONAL CORP.	2,928,854	AUBIN, REGENT	2,915,752	BAUMAN, ELLEN	2,732,434
ALBONETTI, STEFANIA	2,754,132	AUBIN, REGENT	2,933,140	BAUMER, ULF-STEFFEN	2,801,793
ALCON RESEARCH, LTD.	2,780,304	AUBURN GEAR, LLC	2,738,435	BAYER HEALTHCARE LLC	2,790,401
ALCON RESEARCH, LTD.	2,823,821	AUER, MARTIN	2,803,099	BAYER INTELLECTUAL PROPERTY GMBH	2,795,801
ALEXIS, MARK	2,777,404	AWI LICENSING LLC	2,923,443	BEATTIE, DOUG	2,869,600
ALLEN, SCOTT D.	2,742,119	AXIKIN PHARMACEUTICALS, INC.	2,758,968	BECKER, ALLAN	2,666,003
ALLENSPACH, ROLF	2,785,625	B. BRAUN MELSUNGEN AG	2,786,823	BECKER, MICHAEL	2,814,417
ALLEY, MICHAEL RICHARD KEVIN	2,810,021	BACHELOR, DOUGLAS WILEY	2,918,472	BECTON, DICKINSON AND COMPANY	2,867,146
ALTER, ROLF-MATHIAS	2,845,786	BACZEK, FRANK	2,966,680	BECTON, DICKINSON AND COMPANY	2,892,758
ALTERMANN, ERIC HEINZ	2,700,164	BAI, RUNQING	2,864,463	BECTON, DICKINSON AND COMPANY	2,911,452
ALTMIKUS, ANDREE	2,893,408	BALDI, GIOVANNI	2,754,132	BECTON, DICKINSON AND COMPANY	2,949,825
ALUMA SYSTEMS INC.	2,666,003	BALK, WOUTER	2,811,286	BEEKMANN, ALFRED	2,856,899
				BEIJING FORELANDPHARMA CO. LTD.	2,931,147
				BEIRIGER, MICHAEL JAMES	2,747,606
				BELS, KEVIN	2,794,232

## Index of Canadian Patents Issued May 29, 2018

BEN MOSHE, EYAL	2,900,673	BRADFIELD, JONATHAN	2,716,375	CHATURVEDI, RAMESHKUMAR	2,792,634
BEN-NUN, ITAY	2,925,611	BRADLEY, DONALD ALBERT	2,928,973	CHATURVEDI, SIVAKUMAR	2,792,634
BENAYON, J.	2,601,327	BRANDT, MATHIEU	2,868,147	CHATURVEDULA, VENKATA SAI PRAKASH	2,783,621
BERGMAN, ADAM S.	2,780,318	BRAUNGARDT, JURGEN	2,923,877	CHEN, BO	2,931,147
BERNIER, MICHEL	2,791,702	BRAUNGARDT, JURGEN	2,923,914	CHEN, HONG	2,985,012
BERTATO, MAURIZIO C.	2,870,710	BRENIMAN, GENE	2,787,124	CHEN, LIANZHOU	2,978,004
BERTHOD, GILLES	2,793,984	BRENNEIS, CHAD D.	2,821,573	CHEN, SHANE	2,664,142
BEYOND INDUSTRIES (NANJING) LIMITED	2,927,975	BREVENOVA, ELENA E.	2,729,924	CHEN, SHENGXIAN	2,924,935
BGC PARTNERS, INC.	2,544,188	BRICK, CLIFTON P.	2,789,792	CHEN, YONG	2,874,756
BHAIDASNA, KETAN CHIMANLAL	2,926,919	BRICKL, JEFFREY	2,882,578	CHEN, WEI	2,693,712
BHANDARI, PRATIK NANDAN	2,892,130	BRIDGES, KEVIN J.	2,859,905	CHEN, YONG HONG	2,919,468
BHARADWAJ, SUNIL	2,808,239	BROMLEY-DAVENPORT, DARREN	2,791,054	CHEN, ZHIRONG	2,985,012
BIANCO, CAROLINA LUCIA	2,790,401	BROWN, ROBERT C.	2,801,021	CHENG, NATHAN	2,896,323
BIO-RAD LABORATORIES, INC.	2,787,124	BRUME, SHAWN OWEN	2,757,433	CHENG, YA-HUI	2,921,588
BIOLIFE SOLUTIONS, INC.	2,760,175	BUGGY, JOSEPH J.	2,804,455	CHEREWYK, BORIS (BRUCE) P.	2,780,235
BIRGE, NORMAN O.	2,874,551	BUHRMANN, MICHAEL F.	2,835,460	CHERVON (HK) LIMITED	2,938,777
BIRKIN, CHRISTOPHER MALCOLM	2,844,758	BUI, FRANCIS MINHTHANG	2,888,817	CHERVON (HK) LIMITED	2,799,228
BITOSSI, MARCO	2,754,132	BUILDING MATERIALS INVESTMENT CORPORATION	2,895,322	CHEMICAL COMPANY LP	2,911,452
BLAAS, JORIK	2,840,294	BULLINGTON, SHAWN	2,641,355	CHIA, NEVILLE YU LENG	2,892,130
BLACKBERRY LIMITED	2,794,063	BUNDESDRUCKEREI GMBH	2,927,706	CHIGURUPATI, SAMBASIVA RAO	2,776,538
BLACKBERRY LIMITED	2,808,642	BUONSANTI, FEDERICA	2,746,580	CHIOU, CHUNG-FAN	2,963,355
BLACKBERRY LIMITED	2,900,451	BUREL, LUCAS	2,918,899	CHIROL, LUC	2,742,272
BLACKBURN, ROBERT A.	2,723,930	BURGEL, THOMAS	2,766,369	CHITNIS, SMITA	2,813,737
BLAKBORN, WILLEM	2,803,099	BURROUGHS, KIRK ALLAN	2,888,817	CHOLAS, CHRIS	2,923,285
BLINCKO, STUART	2,806,816	BUZZA, STEPHEN A.	2,808,239	CHOO, KI HYUN	2,787,611
BLOSI, MAGDA	2,754,132	BYRD, STEPHEN	2,794,232	CHOROMANSKI, PIERRE	2,789,971
BLUHM, ROMAN	2,813,046	C A CASYSO AG	2,931,576	CHRISTENSEN, WILLIAM M.	2,787,626
BLUM, RONALD D.	2,675,772	C&D ZODIAC, INC.	2,584,663	CHUB, SERGEY	2,857,465
BLUM, THOMAS	2,857,068	C. R. BARD, INC.	2,900,451	CHURCHILL, MATTHEW HENRY	2,911,208
BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY	2,874,551	CAI, ZHIJUN	2,814,963	CICERON, PHILIPPE	2,846,356
BOBO, DAVID	2,928,743	CALLAGHAN, DAVID MICHAEL	2,924,935	CIDRA CORPORATE SERVICES INC.	2,729,644
BOCHENKO, WALTER J.	2,892,758	CAO, WEI	2,924,935	CIRCASSIA LIMITED	2,968,220
BOCHMANN, GREGOR VON	2,738,289	CAO, WENLI	2,776,157	CLARK, NATHAN G.	2,760,175
BODE, ANDREAS	2,798,909	CARIDIS, ANDREW A.	2,776,157	CLARKE, DOMINIC M.	2,747,475
BOEHM, DAVID W.	2,633,067	CARIDIS, ANTHONY A.	2,760,753	CLERMONT, MARKUS	2,828,507
BOLLE, RUDOLF MAARTEN	2,717,612	CARR, ROBERT MICHAEL, JR.	2,584,663	CLIMOTE LIMITED	2,914,106
BOMKE, JOERG	2,742,737	CARRASCO, CESAR	2,839,185	CNH INDUSTRIAL BELGIUM NV	2,680,661
BONILLA, ABSALON	2,716,404	CARRON, CHRIS J.	2,852,759	COFFEY, MATTHEW	2,793,984
BONNET, GILLES	2,769,198	CARTER, YOLANDA F.	2,798,709	COLLADON, FABRICE	2,754,132
BONTU, CHANDRA SEKHAR	2,900,451	CARUCCIO, NICHOLAS	2,750,054	COLOROBIA ITALIA S.P.A.	2,775,382
BOORSE, SAMUEL R.	2,798,332	CASEY, GREGORY P.	2,790,476	COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	2,805,109
BORGHI, ENZO	2,802,268	CAUDLE, MATTHEW T.	2,798,332	CONLEY, JORDAN	2,868,264
BORM, ACHIM	2,857,068	CELLDEX THERAPEUTICS, INC.	2,811,291	CONNER, BRETT	2,701,596
BORSKY, CASSIE A.	2,834,620	CERCIELLO, ANTONIO	2,907,669	CONTRERAS, ROBERT E.	2,975,699
BOSMA, JESSE MATTAN	2,776,937	CHAIKO, DAVID J.	2,966,680	CONTROLRAD SYSTEMS INC.	2,825,182
BOSTON SCIENTIFIC SCIMED, INC.	2,699,675	CHAMORRO, CARLOS O.	2,716,404	CONVERGENT DENTAL, INC.	2,790,476
BOTARGUES, PAULE	2,746,580	CHAMPREDONDE, JONATHAN	2,775,382	CORFIELD, GRAHAM	2,829,273
BOTELHO, JOSEPH P.	2,920,979	CHANDUSZKO, ANDRZEJ JERZY	2,584,663	CORROSION ENGINEERING, INC.	2,824,899
BOUCHAUD, BAPTISTE	2,769,198	CHANG, CHIH-YAO	2,941,952	COULSON ICE BLAST LTD.	2,964,016
BOUDART, BERTRAND	2,982,987	CHANG, SHANG-CHIA	2,776,538	COULSON, FOSTER	2,964,016
BOULIANE, MARTIN JOSEPH	2,769,747	CHANG, SHIH CHANG	2,935,782	CQUOTIENT, INC.	2,863,722
BOURRET, THIERRY	2,746,580	CHANG, SHIH CHANG	2,938,777	CRAMPTON, CHRISTOPHER P.	2,882,799
BOUTWELL, DOYLE FREDRIC JR.	2,893,887	CHANG, WEN	2,938,777		
BOWDEN, JENNIFER L.	2,920,979	CHART ENERGY & CHEMICALS, INC.	2,793,469		
BOYD, MICHAEL	2,943,763	CHASTEEN, HOWARD C.	2,956,783		
BRACCO IMAGING SPA	2,927,706				

**Index des brevets canadiens délivrés  
29 mai 2018**

CRAWFORD, JAMIESON W.	2,911,452	DILLENBERGER, DONNA N.	2,780,231	ERICSON, JEREMIAH JOE	2,857,465
CRAWFORD, JAMIESON W.	2,949,825	DINA, DANIEL	2,894,154	ESPOSITO, SABRINA	2,785,825
CRONIN, JOHN P.	2,835,650	DING, CHARLES	2,810,021	ETHICON ENDO-SURGERY, INC.	2,798,709
CRONIN, MICHAEL D.	2,798,709	DIPHARMA S.A.	2,828,685	EVASC NEUROVASCULAR ENTERPRISES ULC	2,834,620
CROVETTO, ROSA	2,740,635	DIX, DANIEL	2,598,711	EVOQUA WATER TECHNOLOGIES LLC	2,939,347
CUI, SHIMIN	2,746,136	DJUPESLAND, PER GISLE	2,642,608	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY	2,845,857
CUPID FOUNDATIONS, INC.	2,939,645	DOBKOWSKI, BRIAN JOHN	2,795,899	EYZAGUIRRE, CARLOS	2,966,680
CURBELO, RAUL HUGO	2,918,472	DOBSON, KENNETH S.	2,918,861	F. HOFFMANN-LA ROCHE AG	2,822,161
CURDT, INGO	2,806,816	DOLBY INTERNATIONAL AB	2,981,317	FACEBOOK, INC.	2,892,317
CYCLONE CATALYST PROPERTIES, LLC	2,844,484	DOLBY INTERNATIONAL AB	2,981,328	FACEBOOK, INC.	2,902,200
CYNETIC DESIGNS LTD.	2,777,596	DOMES, JAN	2,641,355	FAHAM, MALEK	2,742,380
CYTEC TECHNOLOGY CORP.	2,784,292	DONDI, MICHELE	2,754,132	FAIVELEY TRANSPORT WITTEN GMBH	2,858,867
D'AMATO, GIANFRANCO	2,900,065	DONOVAN, JAMES G.	2,928,854	FALKIEWICZ, TIMOTHY MARTIN	2,806,039
DAHL, GARY	2,750,054	DOREMAELE VAN, GERARDUS HENRICUS JOSEPHUS	2,784,976	FANG, NING CHARLES	2,928,973
DAI, YONG	2,893,252	DOW TECHNOLOGY INVESTMENTS LLC	2,758,818	FANN, JENN-YEH	2,776,538
DALCENT CRIVELARO, ALEXANDRINO	2,812,072	DOWNIE, ANDREW M.	2,882,799	FARINA, CLAUDIO	2,785,825
DAMAKA, INC.	2,792,634	DOWNING, ANDREW JAMES	2,891,318	FASTER S.P.A.	2,746,105
DANNENBERG, RHONDA M.	2,790,476	DRYFOOS, ROBERT OCHS	2,723,930	FELIX, FABIO	2,917,577
DASIN MACHINERY CO., LTD.	2,979,236	DU, ZHENJIAN	2,931,147	FENTON, PATRICK C.	2,861,253
DATTA, MICHAEL	2,797,754	DUBOIS, GRANT E.	2,783,621	FILIPPINI, BRIAN B.	2,750,240
DAVIDSON, BEVERLY L.	2,693,712	DUCOTE, DOUG DOUGLAS, JR.	2,793,469	FISCHBACH, JEAN-PAUL	2,868,147
DAVIS, GEORGE MATTHEW	2,894,154	DUERR, GERHARD	2,749,608	FISCHER, CHRISTIAN ERICH	2,857,068
DAVIS, MARK ALAN	2,806,039	DUGAN, PATRICK D.	2,798,709	FISHER, STEVE	2,917,649
DAVOL INC.	2,925,611	DULLE, KARL-HEINZ	2,801,793	FLASINSKI, STANISLAW	2,851,035
DE BOER, WOLFGANG	2,856,899	DUNN, DONALD C.	2,824,899	FLATT, JIM	2,729,924
DE CHILDERS, WINTHROP	2,892,758	DUNPHY, JAMES	2,896,438	FLAUM, ISER B.	2,749,799
DE GERSEM, HANS JOSEPH	2,914,106	E-VISION SMART OPTICS INC.	2,675,772	FLEMING, GRAHAM CHRISTOPHER	2,874,977
DE OLIVEIRA SOUZA, RICARDO	2,812,072	EASOM, ERIC	2,810,021	FLITSCH, FREDERICK A.	2,900,480
DE VILLIERS, DAVID	2,947,514	EATON CORPORATION	2,755,184	FLSMIDTH A/S	2,966,680
DE WITTORI, NELSON	2,942,456	EC TECHNIK GMBH	2,845,786	FOGG, DAVID	2,775,999
DE WERGIFOSSE, ERIC	2,797,287	ECOLAB USA INC.	2,755,839	FOLEY, KEVIN M.	2,544,188
DECK, PHILIP D.	2,740,635	ECOLAB USA INC.	2,789,971	FONG, JEFFREY CHENG-YAO	2,787,626
DEINEMA, MATTHEW P.	2,938,118	EDEN, GEORG	2,856,899	FORBING, ARIC	2,907,505
DEIVASIGAMANI, SRIDHAR	2,938,331	EDGE, STEPHEN W.	2,766,369	FORET PLASMA LABS, LLC	2,894,535
DELABBIO, FREDRIC CHRISTOPHER	2,789,896	EGGLESTON, YVES	2,868,660	FORET, TODD	2,894,535
DELGADO, REYNOLDS M., III	2,838,073	EKSTRAND, PER	2,981,317	FORREST, JAMES L.	2,738,435
DELKOR SYSTEMS, INC.	2,857,465	EKSTRAND, PER	2,981,328	FORSS, STANLEY	2,783,201
DELLA NEGRA, FEDERICO	2,796,026	EL FASSI, SAIED	2,794,194	FORST, KLAUS-MARTIN	2,749,608
DELTA FAUCET COMPANY	2,812,784	ELC PRODUTOS DE SEGURANCA INDUSTRIA E COMERCIO LTDA.	2,812,072	FORTMANN, JENS	2,813,046
DENNIS, KEVIN	2,841,052	ELECTROLUX HOME PRODUCTS CORPORATION N.V.	2,749,608	FOSCO, ANTONIO	2,917,577
DENTSPLY INTERNATIONAL INC.	2,806,845	ELECTRONIC WARFARE ASSOCIATES, INC.	2,749,799	FOUNTAIN, THOMAS C.	2,918,472
DENTSPLY INTERNATIONAL, INC.	2,897,008	ELFVING, LARS	2,783,201	FRANCOTYP-POSTALIA GMBH	2,928,673
DEOLALIKAR, NEELESH V.	2,931,101	ELKINS, ELIZABETH WINTERS	2,918,472	FRANK, ALEXANDER	2,826,244
DEPUY SYNTHES PRODUCTS, INC.	2,805,109	EMEOTT, STEPHEN P.	2,923,807	FRANKENA, DOUWE	2,760,909
DERRINGTON, IAN M.	2,790,672	EMPLICURE AB	2,761,000	FRASER, ROBIN	2,801,617
DETNET SOUTH AFRICA (PTY) LTD.	2,844,758	EMPULSE GEOPHYSICS LTD.	2,941,995	FREESE, ROBERT P.	2,922,420
DETNET SOUTH AFRICA (PTY) LTD.	2,844,836	EN TECHNOLOGY CORPORATION	2,758,868	FREIRE DE LA CRUZ, JOSE ANTONIO	2,798,908
DEVANARAYAN, VISWANATH	2,806,816	ENGQVIST, HAEKAN	2,761,000	FRESENIUS KABI DEUTSCHLAND GMBH	2,814,417
DEY, DEBJIT	2,700,164	ENSYNC, INC.	2,841,052	FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH	2,807,621
DHEIN, JENS	2,806,816	EPICENTRE TECHNOLOGIES CORPORATION	2,750,054	FRESENIUS MEDICAL CARE HOLDINGS, INC.	2,747,606
DICKIE, ROBERT G.	2,933,912	EPLETT, JOHN T.	2,790,476	FRIED, ITZHAK	2,859,648
DIEHL AEROSPACE GMBH	2,847,308	EPSILINE	2,777,036		
DIETERLE, MARTIN	2,798,332				
DIETRICH, KURT D.	2,803,078				



**Index des brevets canadiens délivrés  
29 mai 2018**

HEATH, ALEX	2,784,976	HUANG, CHUN-YAO	2,935,782	INTERNATIONAL BUSINESS	
HEDOUIN, CATHERINE	2,489,772	HUANG, YU-WEN	2,794,378	MACHINES	
HEGURI, SHIN-ICHI	2,974,483	HUAWEI TECHNOLOGIES		CORPORATION	2,780,231
HEIDECKE, KARSTEN	2,893,887	CO., LTD.	2,924,935	INTERNATIONAL BUSINESS	
HEIDLEBAUGH, DIANE L.	2,883,719	HUBER, HOWARD, JR.	2,959,725	MACHINES	
HEIDMANN, KURT R.	2,881,694	HULL, ERIC J.	2,787,626	CORPORATION	2,780,235
HEINEMAN, FRED W.	2,758,868	HULL, JOANNE	2,798,709	INTERNATIONAL BUSINESS	
HENDRICKS, ANNE SWIFT	2,740,972	HULL, RAYMOND J., JR.	2,738,347	MACHINES	
HENRY, CHRISTOPHER P.	2,943,125	HULSE, RYAN	2,800,573	CORPORATION	2,783,452
HENSTOCK, WILLIAM	2,758,818	HUNKELER, JOHN	2,675,772	INTERNATIONAL BUSINESS	
HERNANDEZ, VINCENT S.	2,810,021	HUNTINGTON, ELYSHA	2,783,361	MACHINES	
HERNANZ ARBELOA, ANGEL		HUNTLEY, WILLIAM J.	2,862,604	CORPORATION	2,785,625
MARIA	2,798,908	HUNTZINGER, SCOTT L.	2,923,443	INTERNATIONAL BUSINESS	
HEROLD, JOCHEN	2,907,464	HUSKY OIL OPERATIONS		MACHINES	
HERR, ANNA Y.	2,874,551	LIMITED	2,875,848	CORPORATION	2,808,239
HERTFELDER, NIKOLAI	2,803,716	HUSQVARNA AB	2,895,322	INVENTIO AG	2,757,405
HEXAGON TECHNOLOGY AS	2,804,876	HUSSMANN CORPORATION	2,927,333	INVISIBLE SENTINEL, INC.	2,769,747
HEXAGON TECHNOLOGY		HUTCHINS, ROBERT A.	2,780,235	IONESCU, PAUL	2,738,289
CENTER GMBH	2,898,852	HUTCHISON, RICHARD		IOWA STATE UNIVERSITY	
HFI INNOVATION INC.	2,794,378	MARTIN	2,918,856	RESEARCH	
HIBBS, ANDREW DENNIS	2,824,762	HUTCHISON, RICHARD		FOUNDATION, INC.	2,801,021
HIBNER, JOHN A.	2,798,709	MARTIN	2,952,393	IPR LICENSING, INC.	2,802,331
HIERHAMMER, WILHELM	2,790,942	HWANG, JULIA J.	2,798,709	IRWIN, KENNETH EARL, JR.	2,862,604
HIGHLANDS OVERRIDE, INC.	2,701,596	IBM CANADA LIMITED - IBM		ISHII, YUSUKE	2,943,438
HILBERT, ALLAN THOMAS	2,826,106	CANADA LIMITEE	2,738,289	ISHTIAQ, FAISAL	2,923,807
HILL, RODNEY E.	2,853,228	IBM CANADA LIMITED - IBM		ISOLATION EQUIPMENT	
HILTI		CANADA LIMITEE	2,746,136	SERVICES INC.	2,921,588
AKTIENGESELLSCHAFT	2,830,313	IDA, ATSUSHI	2,936,321	ITO, HIROMITSU	2,803,558
HILTI		IDE, KOTARO	2,964,781	ITOH, TAKUMI	2,774,871
AKTIENGESELLSCHAFT	2,918,899	IKEDA, KAZUYUKI	2,811,140	ITOH, TERUAKI	2,924,896
HIPKISS, DAVID	2,729,644	IKEDA, OSAMU	2,974,483	ITOIZ AVINZANO, REYES	2,790,295
HIRES, GREGORY R.	2,949,825	IKEGAWA, TOMOHIKO	2,887,741	ITRON GLOBAL SARL	2,851,564
HITACHI-GE NUCLEAR		ILLINOIS TOOL WORKS INC.	2,826,106	ITRON GLOBAL SARL	2,855,285
ENERGY, LTD.	2,887,741	ILLINOIS TOOL WORKS INC.	2,894,154	ITT MANUFACTURING	
HOFBERGER, JERRY F.	2,824,899	ILLINOIS TOOL WORKS INC.	2,918,856	ENTERPRISES LLC	2,806,039
HOFFMANN, JOHN E.	2,802,331	ILLINOIS TOOL WORKS INC.	2,918,861	IVD GLOBAL CORPORATION	2,782,881
HOFFMANN, TORSTEN	2,822,161	ILLINOIS TOOL WORKS INC.	2,952,393	JACOBBER, MARK A.	2,956,783
HOFFMANN, PHILIPP	2,801,793	IMAOKA, YOSHIHIRO	2,982,886	JADCZAK, EDOUARD JOSEPH	2,811,286
HOFTE, PAULUS ANTONIUS		IMMUNOGEN, INC.	2,893,252	JAEGER, THOMAS ROGER	2,918,861
AUGUSTINUS	2,931,655	IMPERIO, DANIELA	2,927,706	JAEGGI, FABIAN	2,805,109
HOLDREDGE, RUSSELL T.	2,881,694	INCHINGOLO, FRANK	2,558,242	JAHN-HOFMANN, KERSTIN	2,822,161
HOLLINGSWORTH, JIM	2,893,887	INDUSTRIAL NEO TEX, S.A.	2,798,908	JALALI MAZLOUMAN,	
HOLLOWAY, MARK	2,895,322	INDUSTRIAL TECHNOLOGY		SHAHRZAD	2,724,370
HOLTSCLAW, JEREMY	2,917,403	RESEARCH INSTITUTE	2,776,538	JAMES, ADRIAN BENTON	2,931,655
HOLZAPFEL, MICHAEL	2,855,708	INOUE, TAKAO	2,982,886	JAMISON, DALE E.	2,892,940
HONEYWELL		INTEL CORPORATION	2,866,352	JANGABA, FAHNMUSA	
INTERNATIONAL INC.	2,800,573	INTELLO TECHNOLOGIES		CHRISTIAN	2,757,433
HONEYWELL		INC.	2,781,178	JANSSEN, PETRUS	
INTERNATIONAL INC.	2,848,554	INTERNATIONAL BUSINESS		HENDRICUS	2,700,164
HONIGBERG, LEE	2,874,756	MACHINES		JASPERS, JORIS EMANUEL	
HONISCH, CHRISTIANE	2,742,272	CORPORATION	2,601,327	NICOLAAS	2,776,937
HONMA, MASATO	2,815,825	INTERNATIONAL BUSINESS		JEA, TSAI-YANG	2,717,612
HOORMANN, DIRK	2,801,793	MACHINES		JEHANNET, JEAN-PIERRE	2,820,783
HORST, MARTIN	2,802,268	CORPORATION	2,717,612	JELITTO, JENS	2,780,235
HOTRA, JONATHAN		INTERNATIONAL BUSINESS		JENDRISAK, JEROME	2,750,054
NICHOLAS	2,780,567	MACHINES		JENKINS, STEPHEN DEREK	2,789,529
HOTTA, KENTARO	2,774,871	CORPORATION	2,723,930	JEONG, WON-KI	2,703,955
HOTTOVY, JOHN D.	2,799,228	INTERNATIONAL BUSINESS		JI, AETTIE	2,873,374
HOULIHAN, MICHAEL T.	2,701,596	MACHINES		JI, QI	2,931,147
HOWARD, STEPHEN J.	2,820,940	CORPORATION	2,732,434	JIANG, JIAREN	2,688,108
HOWELL, MATTHEW TODD	2,900,550	INTERNATIONAL BUSINESS		JIANG, ZHONGYA	2,848,554
HOWELL, MATTHEW TODD	2,900,552	MACHINES		JIMENEZ, LUCITA ARENAS	2,791,702
HOWELL, MATTHEW TODD	2,900,554	CORPORATION	2,757,433	JIN, DAN	2,864,463
HSU, CHRISTOPHER	2,918,856			JIN, SHENGJIN	2,893,252

## Index of Canadian Patents Issued May 29, 2018

JOHNSON & JOHNSON CONSUMER COMPANIES, INC.	2,737,690	KIM, JUNG-HOE	2,923,285	LAMONTAGNE, RICK M.	2,927,333
JOHNSON & JOHNSON CONSUMER COMPANIES, INC.	2,738,347	KIM, KYUNGHO	2,873,374	LANDMARK GRAPHICS CORPORATION	2,874,977
JOHNSON & JOHNSON VISION CARE, INC.	2,783,361	KIM, SUNG TAE	2,808,063	LANGFORD, KYLE W.	2,790,672
JOHNSON & JOHNSON VISION CARE, INC.	2,900,480	KIM, YOUN SUN	2,808,063	LANKER, MARKUS	2,798,111
JOHNSON MATTHEY PLC.	2,855,708	KING, ANDREW N.	2,910,571	LANTZ, MARK A.	2,780,235
JOHNSON, BRIAN	2,812,784	KIRCHMAYR, ROLAND	2,795,293	LATTUADA, LUCIANO	2,927,706
JOHNSON, TROY DEAN	2,912,752	KITAS, ERIC A.	2,822,161	LAU, KUI YAN	2,601,327
JONES, COLIN IAN	2,789,896	KLASSEN, JAMES B.	2,633,067	LAUMANN, ANDREAS	2,855,708
JONES, GRAEME S.	2,950,815	KLEGIN, JILL MARIE	2,859,905	LAUMANN, JACQUELINE A.	2,790,476
JONES, JAMES ROBERT	2,926,919	KLESCHINSKI, MICHAEL	2,804,876	LAZZAROTTI, ALESSANDRA	2,785,825
JORGENSEN, ANDERS PATRICK	2,840,294	KNIBLOE, JOSEF	2,753,621	LE, TAM	2,867,466
JOSEF, CLEMENS	2,798,909	KNIBLOE, CHRISTINE RENEE	2,757,433	LEAHY, SINEAD CHRISTINE	2,700,164
JOURDAN, GUY-VINCENT	2,738,289	KNOWLTON, BARBARA	2,859,648	LEAN, JOHN	2,784,292
JT INTERNATIONAL S.A.	2,896,323	KOBAL, GERD	2,794,638	LEE, BALIN	2,985,012
JUNG, SUNG-KWON	2,700,507	KOBLISH, JOSEF	2,699,675	LEE, DAENYEONG	2,893,733
KAAK, JOHAN HENDRIK BERNARD	2,807,308	KOBRA FORMEN GMBH	2,923,877	LEE, DEOKGWON	2,893,733
KAMAT, RAJEEV	2,868,264	KOBRA FORMEN GMBH	2,923,914	LEE, JINWON	2,873,374
KAMMER, OLAF	2,847,308	KOEHLER, ERIC	2,858,577	LEE, JUNG UN	2,893,733
KAMRUZZAMAN, MOHAMMAD	2,893,408	KOEKEMOER, ANDRE	2,844,758	LEE, SUN-IL	2,891,774
KAPSCH TRAFFICCOM CANADA INC.	2,801,955	KOEKEMOER, ANDRE	2,844,836	LEE, SUN-IL	2,891,774
KARCHER, JEFFREY D.	2,821,573	KOEHLES, DIETER	2,749,608	LEE, SZU-HSIEN	2,935,782
KARILA, KAI	2,948,984	KOHLI, JAPJEEV	2,801,955	LEE, YUNG-KI	2,883,036
KARSTEN, GARY L.	2,881,694	KOIZUMI, MASAFUMI	2,964,781	LEE, YUNG-LYUL	2,883,036
KATAYAMA, TSUTAKI	2,892,496	KOKONASKI, WILLIAM	2,675,772	LEGG, LINDSEY	2,942,727
KATSUNO, KENJI	2,939,797	KONDO, TAKASHI	2,936,321	LEHMANN, MARIO	2,811,327
KATZMAN, SCOTT S.	2,852,759	KONDUC, KAMERON WAYNE	2,860,060	LEI, SHAW-MIN	2,794,378
KAUTZ, SUSAN	2,598,711	KONG, ZHANHAO	2,700,164	LEMAN, MARK	2,775,382
KAWAMURA, HIROMICHI	2,986,558	KOPKALLI, HALUK	2,800,573	LEMAN, RICHARD	2,775,382
KAWAMURA, TETSUYA	2,831,749	KOREA GAS SAFETY CORPORATION	2,893,733	LEMMEY, PAUL ANTHONY	2,901,891
KAYE, WILLIAM J.	2,653,623	KORNETT, GLENN	2,928,854	LENNOX INDUSTRIES INC.	2,716,404
KBIDC INVESTMENTS, LLC	2,922,173	KORTE, DETLEF	2,902,998	LENSCHOW, GERHARD	2,856,899
KCI LICENSING, INC.	2,789,685	KORTELAINEN, VILLE	2,948,984	LEONARD, JOSEPH L.	2,804,660
KEARSEY, STEPHEN	2,931,576	KOSINSKI, DAVID	2,927,975	LEONARD, LOIS	2,804,660
KEDRION S.P.A.	2,785,825	KRASNOR, CARL E.	2,950,815	LEOW HWEI TENG, VIVIAN	2,939,347
KELLIHER, ADAM	2,873,141	KRINGS, WILHELM	2,790,942	LEPAYSAN, CHRISTOPHE	2,777,036
KELLNER, ROLAND	2,742,737	KRINTZLINE, DONALD E.	2,714,856	LEWIS, DAVID L.	2,822,161
KELLY, WILLIAM JOHN	2,700,164	KRISHNAN, BHARATH K.	2,863,722	LEWIS, LARRY NEIL	2,819,834
KENNEDY, FRAZER JOHN	2,789,529	KROLL, LYNN F.	2,920,979	LG ELECTRONICS INC.	2,873,374
KERAT, UWE	2,795,395	KUBO, HIDEKI	2,936,321	LI, DONG	2,700,164
KERPEZ, KENNETH	2,867,845	KUDO, YOHEI	2,974,483	LI, JIANDONG	2,919,468
KERSEY, ALAN D.	2,846,356	KULKARNI, SANDEEP D.	2,892,940	LI, QINGLIN	2,794,384
KERTESZ, VILMOS	2,754,363	KUMAR, SANATH V.	2,798,332	LI, XIANFENG	2,810,021
KETELSON, HOWARD ALLEN	2,780,304	KUNZ, MANUELA	2,780,826	LI, XIAOXIAO	2,913,187
KETT, NATHAN	2,789,475	KURIHARA, TAKUYA	2,925,200	LI, YUJUN	2,913,187
KHACHATURIAN, JON E.	2,811,927	KYOWA MEDEX CO., LTD.	2,811,140	LIANG, CHEN	2,864,463
KHAN, TAREQ HASAN	2,773,795	KYUNG DONG NAVIEN CO., LTD.	2,893,733	LIANG, FUBO	2,864,463
KHOSHDEL, EZAT	2,795,899	L. MOLteni & C. DEI FRATELLI ALITTI SOCIETA DI ESERCIZIO S.P.A.	2,800,094	LIANG, LI-SHIANG	2,939,347
KIETTA	2,801,294	LA FEVER, GEORGE B.	2,749,799	LIANG, YANGANG	2,819,834
KIISKILA, JUSSI	2,948,984	LABAL POWER SYSTEMS	2,797,287	LIEBSCHER, BENJAMIN	2,848,145
KIM, EUN JUNG	2,893,733	LABRECQUE, PIERRE	2,789,896	LIFECCELL CORPORATION	2,766,390
KIM, INCHAN	2,893,733	LABUSCHAGNE, ALBERTUS A.	2,844,758	LIGHTLAB IMAGING, INC.	2,837,577
KIM, JINHYEONG	2,893,733	LAFOND, JOHN J.	2,920,979	LIN, CHIN-WEI	2,935,782
KIM, JINPIL	2,873,374	LAFORTUNE, JAMES	2,928,743	LIN, JIAN-LIANG	2,794,378
KIM, JONGMIN	2,893,733	LAI, ZHICHANG	2,924,935	LINDGREN, FREDRIK	2,747,475
		LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC	2,729,924	LIPPS, BENJAMIN JOSEPH	2,747,606
		LAMOLY, DAVID	2,804,323	LIU, SHENGXIA	2,819,834
				LIU, TAO	2,924,935
				LIVANEC, PHILIP W.	2,898,135
				LOOIJEN, PETER	2,872,057
				LOPER, MARIA	2,878,961
				LOPEZ INSAUSTI, RAFAEL	2,790,295
				LOPEZ, REMY	2,804,323
				LOPEZ-TONAZZI, JUAN CARLOS	2,835,650

**Index des brevets canadiens délivrés  
29 mai 2018**

LOURY, DAVID	2,874,756	MEHN, PETER DONALD	2,826,106	MORIN, BRUCE L.	2,902,998
LOW & BONAR B.V.	2,783,914	MELAMED, JEFFREY	2,789,475	MORITA, HIROYUKI	2,841,724
LU, QIN	2,874,977	MELMAN, HAIM ZVI	2,975,699	MORITA, KAZUKI	2,811,140
LU, SU	2,819,834	MENNIG, JULIUS	2,879,582	MORRIS, NIGEL JUSTIN	2,807,308
LUNACITRIC, S.A.	2,790,295	MENON, CARLO	2,724,370	MORRISON, ANGUS	2,873,141
LUTNICK, HOWARD W.	2,544,188	MENUEY, JUSTINE	2,769,198	MOSES, ARIKHA	2,917,577
LY, TAI WEI	2,758,968	MERBACH, DAVID LYNN	2,808,239	MOSS, SIMON BYFORD	2,918,472
M-I DRILLING FLUIDS UK LTD.	2,910,273	MERCK PATENT GMBH	2,742,737	MOSS, STEVEN JAMES	2,788,761
MACKENZIE, STEPHEN	2,860,833	MERCK SHARP & DOHME CORP.	2,789,475	MOUNTFORD, PHILIP	2,784,976
MAESTAS, DAVID E.	2,850,981	MERCS, LAURA	2,897,314	MOVABLE, INK.	2,854,348
MAGNUSSON, STAFFAN	2,783,201	MERLIN, SIMONE	2,849,479	MTU AERO ENGINES AG	2,902,998
MAHADEVAN, SHIVKUMAR	2,900,480	MERSKI, JEROME A.	2,794,384	MUELLER, BERNHARD K.	2,670,368
MAHANFAR, ALIREZA	2,724,370	MESHULAM, DEBORAH H.	2,893,252	MUELLER, HANS MARTIN	2,822,161
MAIER, CHRISTIAN	2,795,293	MESHULAM, DEBORAH H.	2,893,252	MUELLER, REINHOLD	2,670,368
MAINAUD, BASTIEN	2,851,564	MEYER, AXEL	2,670,368	MUHL, WOLFGANG	2,928,673
MAININI, CHRISTOPHER E.	2,789,792	MEYER, SUSAN MARIE	2,905,298	MULLER, DIETMAR	2,804,876
MAKOWIECKI, GARY	2,943,595	MEYERS, TROY L.	2,938,118	MULLER, ELSA	2,787,611
MANIN, MICHEL	2,801,294	MEZLER, MARIO	2,670,368	MULLNER, JAMES MATTHEW	2,747,606
MARETTO, STEFANO	2,796,026	MICROMASS UK LIMITED	2,696,513	MURPHREE, ZACHARY R.	2,927,400
MARIA SOELL HIGH TECHNOLOGY FILMS GMBH	2,857,068	MICROSOFT TECHNOLOGY LICENSING, LLC	2,787,626	MURPHY, MARK	2,737,690
MARONEY, DAVID RICHARD	2,897,008	MICROSOFT TECHNOLOGY LICENSING, LLC	2,814,963	MUSE, DAVID R.	2,749,799
MARQUET, CHANTAL	2,802,391	MIETTE, EMMANUEL	2,963,355	MYOPOWERS MEDICAL TECHNOLOGIES FRANCE SAS	2,802,268
MARSCHKE, BRYAN DUSTIN	2,918,861	MILLER, DONALD	2,874,551	NAAMAN, OFER	2,874,551
MARSH, HENRY C.	2,811,291	MILLER, MATTHEW L.	2,925,470	NABAVI, SHAHRAM	2,933,912
MARTIN, CHRISTINE JANET	2,788,761	MILLER, NANCY S.	2,939,645	NAEYAERT, KAREL	2,914,106
MARTIN, DAVID P.	2,917,577	MILLER, THOMAS JOHN	2,776,157	NAGAI, RYOZO	2,841,724
MARTIN, PETER	2,914,384	MIN, JUNG-HYE	2,891,774	NAIR REMA, RAKESH VIKRAMAN	2,873,141
MARTY, GARRY R.	2,812,784	MIRANTE, JAMES V.	2,917,457	NAKAYAMA, ATSUKO	2,841,724
MASTERCARD INTERNATIONAL INCORPORATED	2,905,298	MISER, DONALD E.	2,794,384	NALIN, SEBASTIEN G.	2,923,443
MASTERS, STEPHEN D.	2,943,763	MITSUTSUJI, YUKI	2,815,825	NAPOLITANO, ROBERTA	2,927,706
MATHEW, ABY J.	2,760,175	MIZON, JOHN	2,757,405	NARDINI, CLAUDIA	2,785,825
MATSUZAKI, TAKAHISA	2,887,741	MOADDEL, TEANOOSH	2,795,801	NATIONAL MACHINERY LLC	2,714,856
MATTHEWS, DAVID JOHN	2,739,050	MOCHIDA PHARMACEUTICAL CO., LTD.	2,803,558	NATIONAL OILWELL VARCO, L.P.	2,860,060
MATTHEWS, KENNETH HEIDT	2,926,919	MOCHIZUKI, SHOTARO	2,731,336	NATIONAL RESEARCH COUNCIL OF CANADA	2,688,108
MAUK, RICHARD A.	2,716,404	MODBAR, LLC.	2,907,505	NATIONAL RESEARCH COUNCIL OF CANADA	2,801,617
MAURER, ERIC	2,700,507	MODINE MANUFACTURING COMPANY	2,753,948	NAVEAU, PAUL	2,868,147
MAURISSENS, DANIEL AUGUST JULIEN LOUIS	2,844,836	MOELLER, ACHIM	2,670,368	NEISS, PHILIPP	2,864,745
MAXAR TECHNOLOGIES LTD.	2,917,649	MOELLER, LARRY	2,894,154	NELSON, GEORGE RODNEY, JR.	2,802,331
MAYER, JORG	2,811,327	MOHAMED METWALLY, MOHAMED ABDEL RAOUF	2,801,021	NELSON, JOSEPH D.	2,938,118
MCBRIDE, JOHN	2,729,924	MOHR, PETER	2,822,161	NETSTAL-MASCHINEN AG	2,798,111
MCDONELL, BRIAN WILLIAM	2,823,821	MOHSENI, MEHDI	2,867,845	NEULIEB, ROBERT	2,959,725
MCGUIRE, KRISTOPHER	2,929,374	MOLLERE, REBECCA J.	2,798,709	NEUROVIVE PHARMACEUTICAL AB	2,788,761
MCKENZIE, ANDREW NEIL JAMES	2,739,050	MONCH, MONIKA	2,918,899	NEW YORK AIR BRAKE LLC	2,959,725
MCKINNEY, DIANA	2,794,638	MONIER, FABRICE	2,851,564	NEXT GENERATION SCAFFOLD SERVICES, INC.	2,737,715
MCPHAIL, PAUL H.	2,921,564	MONSANTO TECHNOLOGY LLC	2,851,035	NG, BERNATH	2,601,327
MCW ENERGY GROUP	2,754,355	MONTANER VILLALONGA, JOAN	2,806,816	NGUYEN, VIET-HUNG	2,851,564
MEADOWS, DAVID L.	2,780,304	MONTY, NATHAN P.	2,825,182	NGUYEN, VIET-HUNG	2,855,285
MEDICAL RESEARCH COUNCIL	2,739,050	MOON, CHRISTINA DIANE	2,700,164	NHK SPRING CO., LTD.	2,939,797
MEDINOL LTD.	2,900,673	MOON, KYOUNGSOO	2,873,374	NHK SPRING PRODUCTION COMPANY	2,939,797
MEEKS, ALAN MICHAEL GEORGE	2,796,476	MOORBY, JAMIE SINCLAIR	2,901,891	NI, SAISAI	2,864,463
MEGADYNE MEDICAL PRODUCTS, INC.	2,753,431	MOREAU, MAURICE	2,809,073	NIBCO INC.	2,928,743
MEHLAN, ANDREAS	2,858,867	MORELLI, ANDREA	2,785,825	NICOUD, IAN B.	2,760,175
		MOREY, JOHN D.	2,755,839	NIE, FANGJIE	2,930,258
		MORGAN, JEROME R.	2,798,709		

## Index of Canadian Patents Issued May 29, 2018

NIE, FANGJIE	2,938,777	PAGANO, KEVIN	2,918,861	POWER, JOHN W.	2,864,479
NIEN MADE ENTERPRISE CO., LTD.	2,941,952	PAHL, BIRGER	2,755,184	POWERDISK DEVELOPMENT LTD.	2,633,067
NIPPON VALQUA INDUSTRIES, LTD.	2,831,749	PAIRME PRODUCTS, LLC	2,942,727	PRAKASH, INDRA	2,783,621
NISSAN MOTOR CO., LTD.	2,982,886	PALLA, VENKATA GOPALA RAO	2,883,024	PREMJL, AL-NASIR	2,950,815
NISSAN MOTOR CO., LTD.	2,986,558	PALM, LARS	2,747,475	PRIBIL, LEOPOLD	2,790,942
NITE IZE, INC.	2,907,935	PAN, CHAO-CHI	2,776,538	PRIMEX MANUFACTURING LTD.	2,985,012
NOGUEIRA ALVES, CLARA	2,794,194	PANKRATZ, VIRGINIA	2,931,655	PRINCE, STEPHEN M.	2,892,758
NOHARA, TIMOTHY J.	2,950,815	PANSKY, AMIR	2,900,673	PROCTOR, JAMES A., JR.	2,802,331
NORDMECCANICA S.P.A.	2,907,669	PAQUES I.P. B.V.	2,760,909	PROCYRION, INC.	2,838,073
NORTHROP GRUMMAN SYSTEMS CORPORATION	2,874,551	PARADIS, FRANCOIS	2,793,029	PROTECSOM AMERIQUE DU NORD INC.	2,982,987
NORVILLE, RICHARD SCOTT	2,844,484	PARADY, THOMAS	2,787,611	PROTHENA BIOSCIENCES LIMITED	2,710,984
NOTZ, MARKUS	2,798,111	PARENT, GHISLAIN	2,936,931	PSION INC.	2,759,492
NOVATEL INC.	2,861,253	PARIKH, DIPESH	2,729,644	PUGH, RANDALL B.	2,900,480
NOVIELLO, JOSEPH	2,544,188	PARK, BYUNGSUN	2,873,374	PUNCHTIME INC.	2,868,660
NUKALA, CHANDRASEKHAR	2,814,963	PASCHKE, BRIAN DENNIS	2,808,642	PURE HOLD LIMITED	2,796,476
NUTT, MICHAEL	2,854,348	PASQUERO, JEROME	2,794,063	QIAN, WEIJIANG	2,864,463
NYMI INC.	2,835,460	PASTORAL GREENHOUSE GAS RESEARCH LTD	2,700,164	QIU, DAN	2,919,468
OBERHOFFER, HELMUT	2,848,145	PATTON, PAUL	2,812,784	QOSMOS TECH.	2,803,491
OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR"	2,917,342	PEARSON, JARROD HENRY	2,968,220	QSC, LLC	2,897,314
ODDIE, MAX EDWARD	2,789,896	PEDERSEN, NICHOLAS	2,859,905	QUALCOMM INCORPORATED	2,766,369
OELMANN, STEFAN	2,801,793	PEDRAZA DIAZ, FERNANDO	2,769,198	QUALCOMM INCORPORATED	2,849,479
OETIKER SCHWEIZ AG	2,942,456	PELLETIER, MICHEL	2,843,540	QUALCOMM INCORPORATED	2,910,964
OH, EUN MI	2,923,285	PENG, WENQING	2,819,834	QUEEN'S UNIVERSITY AT KINGSTON	2,780,826
OH, SEJIN	2,873,374	PENNERS, FRANZ	2,879,582	QUIGLEY, SCOTT	2,928,854
OHARA, HIDEKI	2,974,483	PEPARLET CO., LTD.	2,731,336	QUILTER, PATRICK H.	2,897,314
OKABE, HIROKI	2,925,200	PERRY, JOSEPH E.	2,700,507	RAASCH, MICHAEL	2,841,052
OKABE, HIROKI	2,936,321	PERRY, ROBERT JAMES	2,819,834	RADIO SYSTEMS CORPORATION	2,789,792
OLDSAN, DEREK	2,928,743	PERSSON, ROBERT E.	2,753,948	RAFFAELI, WILLIAM	2,800,094
OLEY, LESLIE	2,699,675	PETITET, GILLES	2,802,391	RAIT, ZACHARY ETHAN CARPEN	2,892,317
OLIVA, LILIANA	2,796,026	PETROFF, CHRISTOPHER	2,837,577	RAJGARHIA, VINEET	2,729,924
ONCOLYTICS BIOTECH INC.	2,680,661	PETROVIC, ZMAJ	2,804,323	RALEIGH, EDWARD A.	2,882,578
ONUT, IOSIF VIOREL	2,738,289	PETRUCCI, ARIANNA	2,785,825	RALPH, ANDREW	2,910,273
OPPERMANN, ASTRID	2,807,621	PHAM, HANG T.	2,800,573	RAMAKRISHNAN, VISHWAMITRA S.	2,863,722
OPTI MEDICAL SYSTEMS, INC.	2,892,053	PHARMACYCLICS LLC	2,874,756	RANIR, LLC	2,933,912
OPTINOSE AS	2,642,608	PHELPS, DAVID	2,928,743	RAPISCAN LABORATORIES, INC.	2,653,623
OPTOMACHINES	2,793,029	PHILIP MORRIS PRODUCTS S.A.	2,794,384	RATHA, NALINI KANTA	2,717,612
ORMSBEE, BOWDEN	2,907,935	PHILIP MORRIS PRODUCTS S.A.	2,794,638	RAUCH, DAVID W.	2,584,663
OROSKAR, ANIL	2,873,141	PHILIP MORRIS PRODUCTS S.A.	2,864,745	RAVI, KRISHNA M.	2,929,374
ORTHOFIX S.R.L.	2,849,634	PHILIPS LIGHTING HOLDING B.V.	2,776,733	RECKITT BENCKISER CALGON B.V.	2,796,026
OSHKOSH CORPORATION	2,938,118	PHILIPS LIGHTING HOLDING B.V.	2,797,754	REDDY, B. RAGHAVA	2,924,636
OSTERWALDER, NEIL	2,892,130	PICKERING, GRAHAM	2,744,786	REESER, RYAN J.	2,835,650
OTT, GUENTHER	2,822,161	PIEL, KEVIN G.	2,848,554	REGENERON PHARMACEUTICALS, INC.	2,598,711
OTT, HARALD	2,757,457	PIERCE, CLAUDIA C.	2,740,635	REGENTS OF THE UNIVERSITY OF MINNESOTA	2,757,457
OTTS, DANIEL B.	2,900,480	PIERSON, PAUL R.	2,806,845	REINER, GREGOR	2,803,099
OUELLETTE, JAMES-ROY	2,734,844	PINDIPROLU, SAIRAM KS	2,883,024	REMBALA, RICHARD	2,917,649
OULD DELLAHY, ISSELMOU	2,923,807	PLATTNER, JACOB J.	2,810,021	REMIREZ-CORONAS, LUIS	2,641,355
OWEN, CHRISTOPHER J.	2,789,971	PLAYFORD, MARK ALEXANDER	2,806,039	RENTRAK CORPORATION	2,878,961
OY, LARS	2,885,260	PODLIPSKIY, VLADIMIR Y.	2,754,355	RETRACTABLE TECHNOLOGIES, INC.	2,809,510
OZAKI, YOSHITOMO	2,974,483	PODOLSKI, JAMES	2,793,469	RHEE, WONJONG	2,867,845
PADBIDRI, SUMANT	2,808,239	POLUR, PRASAD	2,794,638		
PADILLA, JAMES A.	2,776,157	POMMEREAU, CHRISTIAN	2,798,909		
PAETZOLD, MATTHIAS	2,786,823	POREE, THIERRY	2,982,987		
PAGANO, KEVIN	2,918,856	PORTAL MEDICAL LTD.	2,791,054		
		POTNER, STEFAN	2,734,366		
		POTTER, GARRETT THOMAS	2,758,968		
		POUDEROUX, BERTRAND	2,982,987		



**Index des brevets canadiens délivrés  
29 mai 2018**

RHODIA OPERATIONS	2,489,772	SAMSUNG ELECTRONICS		SCOTT, KEVIN MICHAEL	2,918,856
RIALL, JAMES DANIEL	2,900,480	CO., LTD.	2,923,285	SCOTT, RICHARD T. W.	2,784,976
RICE, MICHAEL	2,760,175	SAMUEL, ROBELLO	2,927,746	SEARS, THOMAS M.	2,885,975
RIERA, MONTSERRAT	2,796,026	SAN MIGUEL, RAFAEL I.	2,783,621	SEDA INTERNATIONAL	
RIGAMONTI, MARIA ADELE	2,800,094	SANBORN, ALEXANDRA J.	2,820,940	PACKAGING GROUP SPA	2,900,065
RIOJA, ROBERTO	2,868,264	SANDBERG, DALE	2,897,314	SEDMAK, JOSEPH JAMES	2,912,012
RIZK, SAID	2,917,577	SANDFORD, HAROLD		SEELOS, ROBERT	2,942,456
ROBERSON, MARK W.	2,929,374	FREDERICK	2,747,606	SEGAL, ORY	2,738,289
ROBERT BOSCH GMBH	2,826,244	SANFORD, KIRK E.	2,885,975	SEILIN & CO.	2,811,178
ROBERTS, BRUCE	2,869,600	SANG, CARRIE	2,700,164	SEJONG INDUSTRY-	
ROBERTS, MARK F.	2,858,577	SANO, KENTARO	2,815,825	ACADEMY	
ROBERTS, MATTHEW		SANOFI-AVENTIS		COOPERATION	
GEOFFREY	2,796,476	DEUTSCHLAND GMBH	2,798,909	FOUNDATION	2,883,036
ROBERTS, PAUL	2,917,649	SASKATOON MATERIAL		SEKAB E-TECHNOLOGY AB	2,783,201
ROBERTSON, GRAHAM	2,910,273	HANDLING LTD.	2,912,752	SENDELBACH, LEE	2,732,434
ROCK, FERNANDO	2,810,021	SATO, KENJI	2,925,200	SENSIENT FLAVORS INC.	2,912,012
ROCKS, SARA (SALLY)	2,966,680	SATTAR, OMER	2,885,975	SENVION SE	2,813,046
RODDY, CRAIG W.	2,929,374	SAUDI ARAMCO		SERCEL	2,809,073
RODDY, CRAIG WAYNE	2,821,573	TECHNOLOGIES		SEREGIN, VADIM	2,910,964
RODDY, IVOR	2,828,507	COMPANY	2,742,119	SEUBERT, PETER A.	2,710,984
RODRIGUEZ, MANNY	2,897,314	SAUER, REINER	2,848,145	SHAPIRO, JOSEPH I.	2,667,251
ROEHL, INGO	2,822,161	SAUNDERS, FRAN L.	2,790,476	SHARMA, VIVEK	2,854,348
ROGERS, HENRY E.	2,943,595	SAVARI, SHARATH	2,892,940	SHAW, THOMAS J.	2,809,510
ROGOZINSKI, NICOLAS A.	2,943,595	SAVARI, SHARATH	2,924,636	SHAWVER, MICHAEL JOSEPH	2,931,655
ROLLINS, JAMES A.	2,968,220	SAVIAN, SCOTT	2,931,576	SHELTON, FREDERICK E., IV	2,798,709
RONEY, BRETT GEORGE	2,901,891	SCA HYGIENE PRODUCTS AB	2,882,578	SHERSIN, MICHAEL J.	2,723,930
RONIMUS, ROBERT STARR	2,700,164	SCHENK, DALE B.	2,710,984	SHI, LIFANG	2,919,468
RONKAINEN, ERKKI	2,948,984	SCHIMKE, TIMOTHY	2,732,434	SHIMAHARA, HIDEKI	2,830,313
ROQUETTE FRERES	2,787,611	SCHLAPKOHL, PETER	2,782,881	SHIN, SEOCKJAE	2,893,733
ROSENBERGER		SCHLECHTE, JAY S.	2,978,004	SHOLEV, MORDEHAI	2,925,611
HOCHFREQUENZTECHNI		SCHLENTER, CRAIG		SICILIANO, NICHOLAS A.	2,769,747
K GMBH & CO. KG	2,803,099	CHARLES	2,844,758	SIEMENS	
ROSS, ALEX	2,601,327	SCHLETER, CRAIG		AKTIENGESELLSCHAFT	2,907,464
ROTHROCK, GINGER	2,929,374	CHARLES	2,844,836	SIEMENS SAS	2,794,194
ROUPHAEL, ANTOINE J.	2,802,331	SCHLISNER, DENNIS G.	2,703,424	SIGHTLINE INTERACTIVE	
ROY, GARY	2,966,680	SCHLUMBERGER CANADA		LLC	2,885,975
ROYO, MICHAEL A.	2,928,854	LIMITED	2,785,768	SILVERA, RAUL E.	2,746,136
ROZEMA, DAVID B.	2,822,161	SCHMID SILICON		SIMAKOV, DMITRIY	
RUDAN, JOHN F.	2,780,826	TECHNOLOGY GMBH	2,795,395	ALEKSANDROVICH	2,917,342
RUECROFT, GRAHAM	2,729,644	SCHMID, CHRISTIAN	2,795,395	SIMARD, BENOIT	2,801,617
RUGGED LINER, INC.	2,927,975	SCHMIDT, MARTIN	2,670,368	SIMON FRASER UNIVERSITY	2,724,370
RUSCONI, PAOLO	2,746,105	SCHMIDT, MIKE	2,781,178	SIMON, CHRISTIAN	2,798,909
RUSS, CRAIG OWEN	2,911,452	SCHMIDT, SAMUEL	2,781,178	SIMONEAU, CHRIS A.	2,742,119
RUSSELL, AARON GENE	2,922,420	SCHMITT, CARSTEN	2,801,793	SJOEBLOM, ANDERS	2,783,201
RUSTOMJEE, MAHARUKH		SCHMITT, JOSEPH	2,837,577	SKOGMO, MATTHEW	2,897,314
TEHMASP	2,828,685	SCHMITT, THOMAS	2,803,716	SMALL, MARK	2,809,510
RYDER, DAVID S.	2,790,476	SCHMOLL, HORST	2,786,823	SMITH, BRUCE ALAN	2,783,452
RYDIN, BJORN	2,928,854	SCHOEPF, THOMAS J.	2,755,184	SMITH, KENNETH JAMES	2,911,452
S&P INGREDIENT		SCHOFIELD, LINLEY ROSE	2,700,164	SMITH, PETER	2,775,382
DEVELOPMENT LLC	2,892,130	SCHOLZ, MATTHEW T.	2,761,709	SMITH, RICHARD ALAN	2,848,554
S.P.E.P. ACQUISITION		SCHUBERT, AXEL	2,794,232	SMITH, RICHARD J.H.	2,811,291
CORPORATION	2,867,466	SCHUERMANN, ROLF	2,795,801	SMITH, WAYNE DUNCAN	2,738,289
SADAN, YARIV	2,892,317	SCHUETTENBERG, DONALD		SNECMA	2,769,198
SAINT-GOBAIN GLASS		W.	2,596,482	SNECMA	2,793,984
FRANCE	2,879,582	SCHULTE, JOHN B.	2,798,709	SNECMA	2,811,286
SALDANHA, JOSE W.	2,710,984	SCHULTHEISS, NATHAN		SNECMA	2,755,839
SALLADAY, JOHN M.	2,742,119	CARL	2,917,403	SNELLEN, TIMOTHY R.	2,968,220
SAMSUNG ELECTRONICS		SCHULZE, FRIEDRICH	2,807,621	SNIDER, PHILIP MARTIN	2,804,455
CO., LTD.	2,808,063	SCHUSTER, RICO	2,734,366	SNYDER, RANDALL A.	2,777,596
SAMSUNG ELECTRONICS		SCHWARZ, FREDERICK M.	2,923,326	SOAR, ROGER J.	2,992,541
CO., LTD.	2,883,036	SCIENTIFIC GAMES		SODEYAMA, TAKUJI	2,963,355
SAMSUNG ELECTRONICS		HOLDINGS LIMITED	2,853,228	SOLYSTIC	2,893,733
CO., LTD.	2,891,774	SCIENTIFIC GAMES		SON, SEUNGKIL	2,900,451
		HOLDINGS LIMITED	2,862,604	SONG, YI	2,758,818
				SOO, HWAILI	

## Index of Canadian Patents Issued May 29, 2018

SOTO, ALYSSA	2,942,727	TAYLOR, MATTHEW	2,784,292	TIPPETT, JONATHAN G.	2,834,620
SOYAMA, HIDEAKI	2,943,438	TECHGUARD SECURITY, LLC	2,850,981	TO, CHI SHUNG BRIAN	2,790,401
SPANGER, ANTHONY	2,812,784	TECHNIP FRANCE	2,775,999	TOKHTUEV, EUGENE	2,789,971
SPECTOR, BEN, ZION	2,900,673	TECHNOLOGICAL		TOKYO INSTITUTE OF	
SPIEWAK, BRIAN E.	2,761,709	RESOURCES PTY.		TECHNOLOGY	2,774,871
SPLKA, DAVID G.	2,584,663	LIMITED	2,789,896	TOLL, LAWRENCE ROBERT	2,791,702
SPINEWELDING AG	2,811,327	TEHRANI, ARDAVAN		TOLLET, JEROME	2,803,491
SPRY, DAVID B.	2,845,857	MALEKI	2,867,845	TOMASULO, ANTONIETTA	2,796,026
SQUIRES, RACHEL J.	2,978,004	TEKE, KUSHABHAU D.	2,892,940	TONER, ADAM	2,900,480
SRI INTERNATIONAL	2,791,702	TEMPLE, HERBERT D.	2,917,457	TONG, JIANFENG	2,927,975
STACHLER, JOHN P.	2,716,404	TEPHA, INC.	2,917,577	TOOTILL, CATHERINE MARY	2,700,164
STAELENS, PATRICK	2,914,106	TESSMER, ALEXANDER W.	2,584,663	TORAY INDUSTRIES, INC.	2,815,825
STANDIFER, PHILLIP D.	2,943,595	TETRA LAVAL HOLDINGS &		TOYO SEIKAN GROUP	
STANEK, EDWARD J.	2,862,604	FINANCE SA	2,747,475	HOLDINGS, LTD.	2,892,496
STANFILL, CRAIG W.	2,558,242	TEUSCH, NICOLE	2,670,368	TOYOTA JIDOSHA	
STANIMIROFF, IVAN		TEYSSEYRE, RAPHAEL	2,777,036	KABUSHIKI KAISHA	2,911,024
LAURENCE	2,629,381	THACKER, STEVE HOWARD	2,737,715	TOYOTA JIDOSHA	
STATE GRID CORPORATION		THE BOEING COMPANY	2,780,567	KABUSHIKI KAISHA	2,925,200
OF CHINA	2,864,463	THE BOEING COMPANY	2,883,719	TOYOTA JIDOSHA	
STAUTZENBERGER, ARTHUR	2,889,600	THE BOEING COMPANY	2,943,125	KABUSHIKI KAISHA	2,936,321
STEELCASE INC.	2,881,694	THE CHILDREN'S HOSPITAL		TOYOTA JIDOSHA	
STEENSGARD, DAVID	2,662,179	OF PHILADELPHIA	2,716,375	KABUSHIKI KAISHA	2,964,781
STEINER, PETER	2,942,456	THE COCA-COLA COMPANY	2,783,621	TOZZI, PIERGIORGIO	2,802,268
STEPHENS, RODNEY	2,893,887	THE LUBRIZOL		TRANS-TEXTIL GMBH	2,790,942
STERIS INC.	2,936,931	CORPORATION	2,750,240	TREANTON, VINCENT	2,776,733
STEVENS, JOHN W.	2,742,119	THE PROCTER & GAMBLE		TRUNK, LOTHAR	2,847,308
STEVENSON, PAUL	2,791,054	COMPANY	2,913,187	TSAI, YU-PAO	2,794,378
STICHEL, HOLGER	2,923,877	THE PROCTER & GAMBLE		TSUYUKI, TAKESHI	2,982,886
STICHEL, HOLGER	2,923,914	COMPANY	2,931,655	TUMINARO, WILLIAM	2,808,239
STIMAC, ROBERT M.	2,653,623	THE REGENTS OF THE		TURNER, DONALD EUGENE	2,780,567
STOUT, GEORGE M.	2,978,004	UNIVERSITY OF		TURNOCK, RICHARD	2,801,955
STRAND, ROSS	2,913,187	CALIFORNIA	2,859,648	TYCO FIRE & SECURITY	
STROTHMANN, KAI	2,807,621	THE UNITED STATES OF		GMBH	2,777,404
SUBRAMANIAN,		AMERICA, AS		TYCO FIRE & SECURITY	
RAMACHANDRAN	2,766,369	REPRESENTED BY THE		GMBH	2,780,318
SUFFERN, EDWARD		SECRETARY,		UECKER, JAMES LEE	2,918,856
STANLEY	2,783,452	DEPARTMENT OF		UEDA, AKIRA	2,831,749
SUMITOMO METAL		HEALTH AND HUMAN		UHLMANN, DONALD R.	2,835,650
INDUSTRIES, LTD.	2,760,753	SERVICES	2,791,702	UKRAINEC, ANDREW M.	2,950,815
SUMITOMO METAL MINING		THE UNIVERSITY OF IOWA		UMC UTRECHT HOLDING	
CO., LTD.	2,974,483	RESEARCH		B.V.	2,776,937
SUNCOR ENERGY INC.	2,965,130	FOUNDATION	2,693,712	UNILEVER PLC	2,795,899
SUTHANA, NANTHIA	2,859,648	THE UNIVERSITY OF TOKYO	2,841,724	UNITED TECHNOLOGIES	
SUZUKI, EMIKO	2,811,140	THERAVALUES		CORPORATION	2,902,998
SWANSON, DAVID LEE	2,757,433	CORPORATION	2,841,724	UNITED TECHNOLOGIES	
SWEENEY, WILLIAM R.	2,794,384	THIESSEN, JAY JOHN	2,860,060	CORPORATION	2,923,326
SWEETING, MICHAEL	2,544,188	THOENNES, MATHEW	2,780,231	UNIVERSITE DE LA	
SWIFT, JOHN	2,740,972	THOMAS, BENSON	2,893,887	ROCHELLE	2,769,198
SYNACOR, INC.	2,860,833	THOMAS, GOMER	2,873,374	UNIVERSITY OF IDAHO	2,808,073
SZESNI, ANIKA	2,848,145	THOMPSON, BRADLEY G.	2,680,661	UNIVERSITY OF IOWA	
SZERNERSKI, ANDREAS	2,879,582	THOMPSON, MARK	2,864,479	RESEARCH	
SZYMANSKI, AARON		THOMPSON, RUSSELL W.	2,893,887	FOUNDATION	2,811,291
MICHAEL	2,808,642	THOMSON REUTERS GLOBAL		UNIVERSITY OF	
TAGHAVI NASRABADI,		RESOURCES UNLIMITED		SASKATCHEWAN	2,773,795
MOHAMMAD HOSSEIN	2,849,479	COMPANY	2,662,179	UNIVERSITY OF TENNESSEE	
TAKAHASHI, KENICHI	2,831,749	THYSSSENKRUPP		RESEARCH	
TAKAISHI, KAZUYUKI	2,974,483	RASSELSTEIN GMBH	2,848,145	FOUNDATION	2,710,984
TAKEYAMA, MAKOTO	2,911,024	THYSSSENKRUPP UHDE		UNIVERSITY OF TOLEDO	2,667,251
TAMMINEN, TERO	2,948,984	GMBH	2,801,793	UNIVERSITY OF UTAH	
TAN, CHIN HIANG	2,939,347	TIAN, JIANG	2,667,251	RESEARCH	
TANAKA, RICHARD	2,783,361	TIME WARNER CABLE		FOUNDATION	2,703,955
TARUMI YOSHIKO	2,811,178	ENTERPRISES LLC	2,813,737	UNIVERSITY OF	
TAVERNER, DOMINO	2,896,438	TIMMS, ANDREW	2,742,272	WASHINGTON	2,790,672
TAYLOR, DORIS	2,757,457	TING, PATRICK L.	2,790,476	UPDYKE, PALMER DAVID	2,747,606

## Index des brevets canadiens délivrés 29 mai 2018

UST GLOBAL (SINGAPORE) PTE. LIMITED	2,918,472	WALTON, ZACHARY W.	2,927,400	WILSON, STEPHEN	2,666,003
UT-BATTELLE, LLC	2,754,363	WALTON, ZACHARY WILLIAM	2,900,550	WIND, TOM	2,927,333
UZAWA, KOJI	2,811,140	WALTON, ZACHARY WILLIAM	2,900,552	WINKLER, MARK	2,830,313
VACHON, FREDERIC	2,803,643	WALTON, ZACHARY WILLIAM	2,900,554	WINSLOW, DANIEL	2,931,101
VAIL, NEAL	2,789,685	WANG, ENSI	2,931,147	WIRTGEN GMBH	2,901,891
VALEO SYSTEMES D'ESSUYAGE	2,802,391	WANG, KAI	2,716,375	WISSLING, MATTHIAS	2,830,313
VALEO SYSTEMES D'ESSUYAGE	2,820,783	WANG, LEI	2,931,147	WOBLEN PROPERTIES GMBH	2,856,899
VALLOUREC OIL AND GAS FRANCE	2,760,753	WANG, SHAODONG	2,688,108	WOBLEN PROPERTIES GMBH	2,893,408
VALSPAR HOLDINGS I, INC.	2,917,457	WANG, SHIJING	2,812,225	WOLKENBERG, SCOTT	2,789,475
VAN BERKEL, GARY J.	2,754,363	WANG, TSILI	2,785,768	WOLLEN, WILLIAM CODY	2,875,848
VAN DEN BOOM, DIRK JOHANNES	2,742,272	WANG, YE-KUI	2,910,964	WOLTERING, PETER	2,801,793
VAN DER MERWE, GERT J.	2,928,973	WANG, YONG	2,893,252	WONG, ANDREW	2,867,146
VAN DER MEULEN, TORBJOERN	2,783,201	WANG, ZIQIANG	2,924,935	WONG, ROY	2,761,709
VAN DER WALT, HERMAN	2,844,758	WARNER, ANNE	2,729,924	WOOD, THOMAS E.	2,761,709
VAN HATTEM, SANDER	2,864,745	WARREN, KEITH	2,966,458	WOODSTREAM CORPORATION	2,910,571
VAN NATTA, BRUCE	2,917,577	WATSON, WILLIAM TODD	2,894,154	WOOLDRIDGE, JAMES LEE	2,783,452
VAN WYK, HARTMAN	2,855,285	WATT, ALAN	2,965,130	WRIGHT, ROBIN E.	2,761,709
VANG, DER	2,841,052	WAVELIGHT GMBH	2,914,384	WROBLICKY, MICHAEL D.	2,968,220
VASCONCELLOS, STEPHEN ROBERT	2,819,834	WEATHERALL, JAMES C.	2,830,413	WU, HUAN PING	2,700,507
VAUGHAN, RODNEY G.	2,724,370	WEATHERFORD TECHNOLOGY HOLDINGS, LLC	2,893,887	WU, YINGZI	2,892,053
VELLINGA, SJOERD HUBERTUS JOSEF	2,760,909	WEATHERFORD TECHNOLOGY HOLDINGS, LLC	2,899,813	WURTH, SEBASTIAN	2,858,867
VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT	2,803,716	WEATHERFORD TECHNOLOGY HOLDINGS, LLC	2,943,763	XEROS LIMITED	2,789,529
VERBIEST, JAN HENDRIK MARIA	2,931,655	WEBER, PETER T.	2,950,815	XIE, DA-YOU	2,979,236
VERET, JOCELYN	2,820,783	WEBSTER, KEVIN JOSEPH	2,808,239	XIE, ZIJIAN	2,667,251
VERGER, ERIC	2,760,753	WEBSTER, OLIVER	2,899,813	XU, HAISHEN	2,930,258
VERIFI LLC	2,858,577	WEI, CHENGPING	2,927,975	XU, HUA	2,900,451
VERJUS, ROMUALD	2,982,987	WEI, XIAOLIANG	2,902,200	XUE, LIJUE	2,688,108
VERMEULEN, JAN	2,807,308	WEIDAUER, JENS	2,907,464	YAMAGATA, MOTOO	2,803,558
VERNER, ERIK	2,874,756	WELSCH, DAVID	2,939,645	YAMAMOTO, JON Y.	2,922,173
VERSABAR, INC.	2,811,927	WENDRICH, GENOVEFA	2,855,708	YAMAOKA, TOSHINARI	2,930,258
VESTGAARDEN, TOV INGE	2,815,370	WENGER, ANDREAS	2,811,327	YAN, XICHANG	2,927,975
VG INNOVATIONS, LLC	2,815,370	WENTINK, MAARTEN MENZO	2,849,479	YANG, MICHAEL	2,927,975
VIDA, GABOR	2,860,833	WESSON, DAVID S.	2,968,220	YANNIELLO, ROBERT	2,755,184
VIEGA, JOHN	2,846,356	WHARTON, PHILLIP	2,808,073	YAZDANI, AMIR	2,878,961
VINSON, MICHAEL	2,878,961	WHEATLEY, BARRY LYNN	2,823,821	YELLIN, CARMY	2,749,799
VISA INTERNATIONAL SERVICE ASSOCIATION	2,804,455	WHITAKER, ROSS	2,703,955	YEO, KENG HOO	2,939,347
VISSCHER, EDZE JAN	2,783,914	WHITE, BRYAN THOMAS	2,931,655	YEWDALL, GARY	2,744,786
VISUAL RETAILING HOLDING B.V.	2,840,294	WHITE, JASON	2,917,649	YOCOM, PETER	2,780,231
VOGEL, JENS H.	2,790,401	WIELAND, MARCO	2,802,268	YONEYAMA, TOMOAKI	2,974,483
VON DER WEIDEN, INGO	2,879,582	WIENS, JIMMY DUANE	2,893,887	YOOK, STEVEN	2,928,854
VOSS, KENNETH E.	2,798,332	WIESMAN, MARK	2,905,298	YOSHIKAWA, SEISHI	2,892,496
VOYER, GUILLAUME	2,936,931	WILDGOOSE, JASON LEE	2,696,513	YOSHIMURA, TAKUYA	2,964,781
W.M. BARR & COMPANY	2,864,479	WILKINS, EARL	2,942,727	YOSHINO KOGYOSHO CO., LTD.	2,943,438
WAFFENSCHMIDT, JORG	2,847,308	WILKINSON, BARRIE	2,788,761	YOUNG, MICHAEL JOHN RADLEY	2,849,634
WAHID, KHAN ARIF	2,773,795	WILKINSON, BRADLEY M.	2,911,452	YUAN, SU	2,795,899
WAINER, IRVING W.	2,791,702	WILKINSON, KELLY O.	2,844,484	YUMUL, ANTHONY	2,783,361
WALDRON, COREY	2,907,505	WILLIAMS, COREY	2,931,576	ZAGONE, PETER	2,907,935
WALL, JONATHAN	2,710,984	WILLIAMS, RONALD CHRISTOPHER	2,801,021	ZAJDMAN, RUTH	2,925,611
WALTENBERGER, REINHOLD	2,795,293	WILLIAMS, SIMON F.	2,917,577	ZANG, KAI	2,985,012
WALTER, JURGEN	2,845,786	WILLIAMSON, SCOTT	2,927,975	ZANG, HAITAO	2,789,475
WALTERS, TOM	2,966,680	WILLIS, THOMAS	2,742,380	ZARTMAN, AMY	2,747,606
				ZATEZALO, DOUGLAS MARK	2,742,737
				ZENKE, FRANK	2,819,834
				ZHANG, GUIXI	2,716,375
				ZHANG, HAITAO	2,758,818
				ZHANG, LIPING	2,795,899
				ZHANG, QIQING	2,810,021
				ZHANG, SUOMING	2,864,463
				ZHANG, XIAOMIN	2,931,147
				ZHANG, XINGMIN	2,679,904
				ZHANG, XU	2,913,187
				ZHANG, YIQUN	

**Index of Canadian Patents Issued  
May 29, 2018**

ZHANG, YUZHOU	2,811,291
ZHANG, ZIXIAO	2,902,200
ZHAO, THIANFENG	2,848,554
ZHAO, ZHIJIAN	2,789,475
ZHEJIANG NEW WEIPU ADDITIVE CO., LTD.	2,919,468
ZHEJIANG NHU COMPANY LTD.	2,919,468
ZHEJIANG UNIVERSITY	2,919,468
ZHENG, WEI	2,864,463
ZHONG, WEIPING	2,700,507
ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD.	2,679,904
ZHOU, DING	2,810,021
ZHOU, JIACHAO	2,919,468
ZHOU, LI	2,808,239
ZHOU, WEIZHENG	2,795,899
ZHOU, XICHAO	2,864,463
ZHOU, XIN	2,755,184
ZHU, NI	2,809,510
ZHU, PETER CHAOQUAN	2,892,053
ZHU, YAJUN	2,900,451
ZHU, YANRONG	2,812,225
ZIMMERMANN, PATRICK JAMES	2,893,887
ZIMNITSKY, DMITRY	2,789,685
ZINONI, CARL	2,785,625
ZUIDEVELD, MARTIN ALEXANDER	2,784,976

# Index of Canadian Applications Open to Public Inspection

May 13, 2018 to May 19, 2018

## Index des demandes canadiennes mises à la disponibilité du public

13 mai 2018 au 19 mai 2018

2397593 ONTARIO INC.	2,948,505	BOARD OF TRUSTEES OF	DUROCHER, ERIC	2,975,556
692324 NB INC.	2,972,965	NORTHERN ILLINOIS	DUROCHER, ERIC S.	2,968,283
ABL IP HOLDING LLC	2,979,467	UNIVERSITY	EATON CORPORATION	2,985,072
ABL IP HOLDING LLC	2,985,580	BOGGS, JEFFREY BION	EGELKRAUT, UDO	2,985,762
ACCENTURE GLOBAL		BORROD, WILFRIED	EHRlich, RODNEY P.	2,985,921
SERVICES LIMITED	2,983,495	BOST, DAVID	EIS, ELIN JOHANNA	2,985,432
ACCENTURE GLOBAL		BOWLES, DALE R.	ELLIOT, NATHAN	2,948,271
SOLUTIONS LIMITED	2,965,070	BOYD, CHRISTOPHER	EMCS INDUSTRIES LTD.	2,948,991
ADDCO ACQUISITION LLC	2,986,170	BREMNER, RYAN	ENGLERT, TRAVIS JAMES	2,985,972
ADULSERANEE, ROSARIN	2,985,282	BRIGGS, RICK A.	EPHRATH, YARON	2,984,950
AGCO CORPORATION	2,980,180	BROWN, SHAUN WALTER	EVANS, DAVID RICHARD	2,985,450
AHN, JIN SEOP	2,984,938	BRUCKELMYER, DARYL W.	EVONIK DEGUSSA GMBH	2,984,738
AIRLITE PLASTICS CO.	2,985,438	BRUESTLE, JEREMY	EWING, ALAN CARL	2,982,110
ALTMANN, ANDRES		BUSCH, WARREN	FABRIZIO, EDWARD	
CLAUDIO	2,984,950	BUTLER, ROBERT P.	VINCENT	2,979,011
AMALFITANO, ROBERT	2,985,792	BYRD, JOHN	FAULKNER, DAKOTA	2,985,785
AMANO PIONEER ECLIPSE		CAI, RONGXUAN	FCI HOLDINGS DELAWARE,	
CORPORATION	2,972,213	CARTWRIGHT, TIMOTHY B.	INC.	2,985,785
AMI INDUSTRIES, INC.	2,979,097	CASTANON, DIEGO	FERGUSON, KEITH M.	2,979,097
ANDERSEN, JONATHAN	2,985,068	CATERPILLAR INC.	FERGUSON-PELL, MARTIN W.	2,985,450
ANGEL PLAYING CARDS CO.,		CAVANAUGH, KEVIN	FIEDLER, ALAN WAYNE	2,981,018
LTD.	2,985,946	CHANG, CHIH-YAO	FINNEGAN, PATRICK L.	2,985,747
ANGEL PLAYING CARDS CO.,		CHEN, LIN	FISCHMEISTER, SEBASTIAN	2,985,617
LTD.	2,985,950	CHEN, ZHIQIANG	FLEXHEAD INDUSTRIES, INC.	2,980,444
APPS, WILLIAM P.	2,985,972	CHO, IN CHEOL	FLORATINE PRODUCTS	
ARCTIC CAT INC.	2,985,512	CHOI, JOUYOUNG JASON	GROUP, INC.	2,985,591
ARNOLD, JAMES M.	2,985,592	CHRISTMAN, DAVID B.	FLUID HANDLING LLC	2,985,756
ARTEX BARN SOLUTIONS		CHRONOMITE	FORTIER, RAYMOND	2,949,791
LTD.	2,985,752	LABORATORIES, INC.	FREY, BRENDAN	2,948,499
BA, JIMMY	2,948,499	COHEN, BENJAMIN	FROESE, ANDREAS	2,948,402
BACHHAL, SUKHBIR SINGH	2,948,277	COOPER TECHNOLOGIES	FROESE, ANDREAS	2,998,260
BARKER, BRETT J.	2,979,008	COMPANY	FU, ZHENTANG	2,948,396
BARRERA, CLAUDIO J.	2,985,747	COOPER TECHNOLOGIES	GARCIA, VICENTE P.	2,985,269
BASKOVIC, BERNARD	2,948,505	COMPANY	GE AVIATION SYSTEMS	
BEAGEN, JOSEPH	2,980,444	COSTA RIEROLA,	LIMITED	2,985,064
BECTON, DICKINSON AND		MONTERRAT	GE LIGHTING SOLUTIONS,	
COMPANY	2,981,018	CRAWFORD, ROY	LLC	2,984,552
BEDARD, JACQUES	2,985,266	CRAWLEY, GRAEME	GE LIGHTING SOLUTIONS,	
BELCHER, THOMAS	2,985,961	CROSBY, BRADLEY J.	LLC	2,984,557
BELL HELICOPTER TEXTRON		DAFONSECA, ODAIR	GEODYNAMICS, INC.	2,985,242
INC.	2,982,110	DAGAND, CYRIL	GEORGET, SEAN	2,951,789
BENJAMIN, JEFF	2,979,097	DASSAULT AVIATION	GERMAIN, STEVE	2,984,552
BERNIER, MORGAN L.	2,985,512	DASSAULT AVIATION	GERMAIN, STEVE	2,984,557
BEST, RACHAEL KEARSE	2,985,960	DASSAULT AVIATION	GLENNY, MICHAEL	2,985,064
BETTAIEB, KHALED	2,980,710	DE DREU, ADRIAN JAN	GOLDWITZ, BRIAN	2,985,782
BIOSENSE WEBSTER		DE JONGE, JOHN	GOODRICH CORPORATION	2,979,088
(ISRAEL) LTD.	2,984,950	DEROY, MICHAEL	GOODRICH CORPORATION	2,979,093
BIOSENSE WEBSTER		DERUS, NICK	GOTODA, KENJI	2,984,658
(ISRAEL) LTD.	2,984,958	DESJARDINS, MICHEL	GOVARI, ASSAF	2,984,950
BLACK & DECKER INC.	2,984,857	DIAZ, OLIVER CRESPO	GRANCHA GAMON,	
BLACK & DECKER INC.	2,984,860	DOWDING, PETER JOHN	SALVADOR	2,984,732
BLACK & DECKER INC.	2,984,862	DROUIN, PAUL	GRANIER, ERIC	2,983,993
BLUM, UWE	2,985,762	DU, LILY	GRANIER, ERIC	2,983,999
		DUBREUIL, JEAN	GRANSAULL, ANGELA L.	2,948,511
		DUDZIK, HORST		

## Index of Canadian Applications Open to Public Inspection May 13, 2018 to May 19, 2018

GREENWOOD'S ARCHITECTURAL HARDWARE INC.	2,948,747	KORIA, PANKHURI JAYPRAKASH	2,965,070	NING, ZHI-FENG	2,948,558
GREENWOOD, SCOTT	2,948,747	KRAUS, OREN	2,948,499	NOBLE, ANGUS	2,949,002
GREY, CAVAN	2,984,860	KUNKEL, DAVID P.	2,985,921	NORDCO INC.	2,977,270
GRIFOLS WORLDWIDE OPERATIONS LIMITED	2,984,732	KWANTEX RESEARCH INC.	2,979,650	NUCTECH COMPANY LIMITED	2,982,065
GRUPO ROMATEX DE MEXICO, S.A. DE C.V.	2,948,315	KWASNICKI, TIMOTHY B.	2,985,747	OEHRING, JARED	2,961,419
GU, JAMES J.	2,985,756	KWON, JUNGHYUN	2,985,045	OHIO STATE INNOVATION FOUNDATION	2,974,954
GUNTON, BRUCE STANLEY	2,949,303	LACEY, DARRON KIRBY	2,985,072	OIEN, LYNN	2,982,296
GUPTA, AMITABHA	2,985,904	LALANCETTE, DANIEL	2,984,852	ORTIZ FERNANDEZ, ANA MARIA	2,984,732
HAMM, DERRICK LEE	2,972,213	LANGER, YURY	2,955,449	OWENS CORNING INTELLECTUAL CAPITAL, LLC	2,985,259
HAN, SANG HYUN	2,984,938	LE BORLOCH, JEROME	2,983,953	PARHAM, THOMAS CLEMENT, JR.	2,982,110
HANDY, PETER JAMES	2,985,064	LE BORLOCH, JEROME	2,983,993	PARK, HEE BOK	2,984,938
HANLEY, MICHAEL G.	2,985,580	LEE, JEONG WOONG	2,983,999	PATTERSON, SCOTT R.	2,979,097
HARNISCHFEGER TECHNOLOGIES, INC.	2,985,772	LEE, WEN-CHIEH	2,984,938	PAYAN, JULIO ENRIQUE	2,977,270
HARRIS ENVIRONMENTAL SYSTEMS, INC.	2,955,449	LEE, WEN-CHIEH	2,967,697	PINNISCH, RUSSEL	2,968,777
HARRO HOFLIGER VERPACKUNGSMASCHINEN GMBH	2,985,762	LEWIS, BARRY MICHAEL	2,985,259	PLANTE, GHISLAIN	2,968,283
HARTMAN, DREW	2,979,088	LIN, CHAO-WEI	2,979,650	PLS TECHNOLOGIES, INC.	2,985,584
HARTMAN, DREW	2,979,093	LIU, YU	2,985,751	POINTS.COM INC.	2,981,725
HAVERMAN, YURI	2,981,018	LOBATO, ISRAEL ROBLES	2,948,315	POPP, JAMES R.	2,985,772
HINDERLITER, BRANDON N.	2,961,419	LOGGAN, AARON	2,980,180	POTTER, BRIAN TODD	2,985,058
HOLCOMB, DAVID EUGENE	2,948,962	LU, CHIN-TAI	2,985,436	POULIN, MARTIN	2,978,702
HOSHIZAKI AMERICA, INC.	2,985,792	MA, KEVIN JINRONG	2,985,785	PRATT & WHITNEY CANADA CORP.	2,968,283
HOTI, MILAIM	2,985,792	MAJOR, FRITZ	2,985,762	PRATT & WHITNEY CANADA CORP.	2,975,556
HOWE, WILSON	2,948,396	MARTIANGE, RYAN E.	2,985,583	PRATT & WHITNEY CANADA CORP.	2,975,684
HOWE, WILSON	2,948,437	MARTINE, ERICA	2,948,510	PRATT & WHITNEY CANADA CORP.	2,978,702
HOWE, WILSON	2,985,433	MARTINE, NATHAN	2,948,510	PRE-CON PRODUCTS	2,985,586
HUANG, LIEN-HSI	2,967,697	MATHIEU, YANICK	2,948,497	PRECISION CULTIVATION SYSTEMS HOLDINGS, LLC	2,985,583
HUGGINS, KEN	2,985,754	MATHYS, YVES	2,980,710	PROXIMATE CONCEPTS LLC	2,985,220
HUGGINS, KEN	2,985,755	MAVERICK DOWNHOLE TECHNOLOGIES INC.	2,948,756	PURE VISTA LTD.	2,949,002
IDDON, ANDREW	2,949,122	MAYO, CHRISTINA	2,979,467	QUANDT, GENE A.	2,977,149
INFINEUM INTERNATIONAL LIMITED	2,985,432	MAZZULLO, FRANK	2,948,505	RADICALOGIC TECHNOLOGIES, INC. DBA RL SOLUTIONS	2,985,961
JEBRAN, NASSIM	2,948,505	MAZZULLO, LOUIE	2,948,505	RAGER, DAVID	2,985,785
JEJU NATIONAL UNIVERSITY INDUSTRY-ACADEMIC COOPERATION	2,984,938	MCFARLAND, MAX	2,985,045	RAUBER, RICHARD ERLER	2,982,110
JI, DINGHUANG	2,985,045	MCKENNA, SIMON	2,985,961	RECOVER ENERGY SERVICES INC.	2,984,818
JIAO, DA	2,985,751	MELCHER, DWAYNE	2,948,271	REDLINER INC.	2,985,450
JONES, DANIEL	2,974,954	MELTON, GLENN O'NEAL	2,985,792	REESE, ROBERT J.	2,985,754
JONES, PAT	2,972,965	MERCURY MISSION SYSTEMS INTERNATIONAL S.A.	2,980,710	REESE, ROBERT J.	2,985,755
KAKKAD, HEMANT MANAHARLAL	2,965,070	MEVIUS, JASON S.	2,985,754	REEVES, MARK	2,984,862
KALINOWSKI, DANE GIN MUN	2,985,972	MEVIUS, JASON S.	2,985,755	REHRIG PACIFIC COMPANY	2,985,972
KAMINSKI, KRISTOPHER R.	2,985,583	MILLER, GARY	2,982,110	REITH, KARL F.	2,985,058
KATZ, NATAN SHARON	2,984,958	MITROVIC, LAZAR	2,975,556	REPUBLIC OF KOREA (MANAGEMENT: RURAL DEVELOPMENT ADMINISTRATION)	2,984,938
KELLY, STACY	2,985,282	MIZERIT, BRANKO	2,997,766	RHODES, JEFFREY F.	2,979,008
KHUDISH, OLEG	2,984,950	MIZUTANI, YASUKI	2,985,792	RICCI, ALESSIO	2,983,495
KIRCKOF, AMBER	2,985,607	MORENO, CARLOS	2,985,617	RICCO, PHILIPPE	2,980,710
KIRKPATRICK, CONOR JAMES	2,984,862	MORGAN, KEITH	2,968,283	RICHARDSON, JACK	2,984,860
KNOTT, WILFRIED	2,984,738	MORGAN, KEITH	2,975,556	RICOH COMPANY, LTD.	2,985,045
KNOX, DEREK	2,948,991	MOSS, MATTHEW D.	2,985,774		
KOREA RESEARCH INSTITUTE OF BIOSCIENCE AND BIOTECHNOLOGY	2,984,938	MOWRY, MICHAEL R.	2,985,068		
		MUIR, DEREK	2,984,860		
		MURALIDHARAN, GOVINDARAJAN	2,948,962		
		NELSON, KENNETH EDWIN	2,985,580		
		NEUBAUER, KYLE	2,985,068		
		NG, KEVIN	2,968,283		
		NICHOLSON, ADAM	2,986,170		
		NICHOLSON, BRIAN	2,986,170		
		NICOSON, RICHARD	2,985,772		
		NIEN MADE ENTERPRISE CO., LTD.	2,985,436		
		NIEN, CHAO-HUNG	2,985,436		
		NIEN, KENG-HAO	2,985,436		

**Index des demandes canadiennes mises à la disponibilité du public  
13 mai 2018 au 19 mai 2018**

ROLLS-ROYCE CORPORATION	2,979,008	TU, HUOLIN	2,974,954
ROSENBERG, PAUL	2,985,220	TWAROSKI, JACOB D.	2,985,428
ROSS, STAN	2,984,818	US WELL SERVICES LLC	2,961,419
SALIMI, ZOHREH	2,985,450	UT-BATTELLE, LLC	2,948,962
SAULOU, CORY	2,948,756	VELTRI, JEFFREY ALLAN	2,985,940
SAVARESE, SILVIO	2,985,045	VERHOFF, JONATHAN MICHAEL	2,985,259
SB INGENIERIE	2,984,283	VINSKI, JOHNNY	2,968,283
SEBULSKY, RICHARD A.	2,985,747	VOLNY, JARO S.	2,979,088
SELLERS, DAVID ANGLIN	2,985,792	VOLNY, JARO S.	2,979,093
SELLS, SCOTT	2,985,058	WABASH NATIONAL, L.P.	2,985,921
SFC GLOBAL SUPPLY CHAIN, INC.	2,985,607	WAGONER, TED TILMAN	2,972,213
SHAH, HARDIK PRADEEP	2,965,070	WALKER, ANDREW	2,984,857
SHAH, PRATIK NARESH	2,985,756	WALKER, ANDREW	2,984,860
SHIGETA, YASUSHI	2,985,946	WATER REMEDIATION TECHNOLOGY LLC	2,985,592
SHIGETA, YASUSHI	2,985,950	WEIR, MITCHELL	2,972,965
SIECZKOWSKI, PHILIP	2,979,467	WEN, YU-CHE	2,985,436
SNAP-ON INCORPORATED	2,985,068	WHITEWATER WEST INDUSTRIES LTD.	2,985,747
SNYDER, RYAN G.	2,985,748	WHITEWATER WEST INDUSTRIES LTD.	2,985,748
SPIRAL GENETICS, INC.	2,948,793	WILGER INDUSTRIES LTD.	2,951,789
STAMPS, FRANK BRADLEY	2,982,110	WILGER, WILFRED H.	2,951,789
STANKUS, JOHN C.	2,985,785	WILKS, ORION	2,981,725
STEPHENS, RONAN	2,985,756	WILSON, DANE FRANCIS	2,948,962
STEWART, TIM	2,948,756	WOLF, ACHIM	2,985,762
STONE, PAUL	2,975,684	WOLF, GREGG M.	2,985,792
STRYDOM, PHILIP	2,977,270	WRIGHT, ARTHUR P. G.	2,948,510
SULLIVAN, SHELBY IEE	2,985,242	WRIGHT, GABRIELLE A.	2,948,510
SUNDBERG, DAVID M.	2,985,779	WRIGHT, GERRY	2,948,510
SUPRENANT, PAT	2,985,607	WU, YI YAN	2,948,514
SYMROC BUSINESS AND PROJECT MANAGEMENT LTD.	2,985,433	XIONG, TOM	2,985,072
SYNGENTA PARTICIPATIONS AG	2,968,777	ZAR, LIOR	2,984,958
SYNGENTA PARTICIPATIONS AG	2,972,738	ZARRAONANDIA, DAVID	2,985,586
TAIWAN FU HSING INDUSTRIAL CO., LTD.	2,967,697	ZHANG, JIAMIN	2,982,065
TANG, HU	2,982,065	ZHANG, LI	2,982,065
TASKER, TREVOR	2,948,991	ZHANG, SOPHIA	2,985,072
TATUM, JEFFREY B.	2,985,792	ZHONG, KEVIN	2,985,072
TAWS, MATTHEW	2,972,965	ZLOBINSKY, YURY	2,955,449
THE BOEING COMPANY	2,977,149	ZURN INDUSTRIES, LLC	2,985,428
THE BRAUN CORPORATION	2,985,774		
THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO	2,948,499		
THE GOVERNORS OF THE UNIVERSITY OF ALBERTA	2,985,450		
THIENST, ANDREAS	2,985,762		
THOMAS & BETTS INTERNATIONAL LLC	2,984,852		
THOMAS, TREVOR	2,948,271		
THOMPSON, CHAD	2,985,058		
THOMPSON, LINDSAY	2,949,888		
TKKUN, SEAN	2,985,282		
TOSHIBA INTERNATIONAL CORPORATION	2,985,751		
TOWLER, MARK	2,948,704		
TOYOTA JIDOSHA KABUSHIKI KAISHA	2,984,658		
TRANE INTERNATIONAL INC.	2,985,964		

# Index of PCT Applications Entering the National Phase

## Index des demandes PCT entrant en phase nationale

24/7 CUSTOMER, INC.	3,004,334	ACCENTURE GLOBAL		AFTON CHEMICAL	
24/7 CUSTOMER, INC.	3,004,344	SERVICES LIMITED	2,994,511	CORPORATION	3,004,838
3M INNOVATIVE PROPERTIES		ACCUITIS		AFYREN	2,991,003
COMPANY	3,004,259	PHARMACEUTICALS,		AGALIMMUNE LIMITED	3,004,107
3M INNOVATIVE PROPERTIES		INC.	3,004,587	AGARWAL, MUKESH	3,004,392
COMPANY	3,004,267	ACELL INDUSTRIES LIMITED	2,995,331	AGARWAL, SAURAV	3,004,262
4C DESIGN LIMITED	2,997,661	ACELL INDUSTRIES LIMITED	2,995,333	AGARWAL, SAURAV	3,004,442
4D PHARMA RESEARCH		ACERTA PHARMA B.V.	2,991,096	AGARWAL, VINEET	3,004,281
LIMITED	2,988,657	ACEVEDO VELEZ, CLARIBEL	3,004,207	AGHAMOHAMMADI,	
4D PHARMA RESEARCH		ACHKOVA, DANIELA		ALIAKBAR	3,004,262
LIMITED	2,988,686	YORDANOVA	2,993,746	AGHAMOHAMMADI,	
4D PHARMA RESEARCH		ACIKGOZ DOROKIN, CANET	3,004,481	ALIAKBAR	3,004,442
LIMITED	2,988,693	ACIPENSER BIOTECH		AGROWING LTD	3,004,388
4D PHARMA RESEARCH		LIMITED	2,989,254	AGUILAR, JEFF	3,004,350
LIMITED	2,988,695	ACTEGA METAL PRINT		AHEARN, KEVIN	3,004,711
7A9, LLC	3,004,253	GMBH	2,987,183	AHLGREN, JONNI	2,995,032
A. RAYMOND ET CIE	2,987,825	ACTEGA METAL PRINT		AHN, IK-RO	2,988,496
AALTO, JUHA-MATTI	2,996,811	GMBH	2,987,195	AHO, JANI	3,004,662
AASEN, JON PETTER		ACTEGA METAL PRINT		AIM BIOTECH PTE. LTD.	3,004,596
HELGESEN	3,003,966	GMBH	2,987,198	AIMM THERAPEUTICS B.V.	2,989,551
AB CONNECTORS LTD	2,982,431	ACTELION		AIR LIQUIDE OIL AND GAS	
AB CONNECTORS LTD	2,984,465	PHARMACEUTICALS LTD	2,989,098	SERVICES LIMITED	2,997,158
AB GRAPHIC		AD INSERTION PLATFORM		AIR TO AIR SWEDEN AB	3,004,827
INTERNATIONAL LTD	2,981,241	SARL	2,990,759	AIRBUS DEFENCE AND	
AB MEDICA	2,997,653	ADABIO CO.,LTD.	3,004,153	SPACE SAS	2,993,926
AB7 INNOVATION S.A.S.U.	2,994,363	ADACHI, MASAKAZU	3,004,153	AIRBUS DEFENCE AND	
ABAL, DANIEL	3,004,489	ADACHI, SHINYA	3,004,257	SPACE SAS	2,998,721
ABBINENI,		ADACHI, TARO	3,004,153	AIRBUS DEFENCE AND	
CHANDRASEKHAR	2,989,265	ADAM MICKIEWICZ		SPACE SAS	3,003,495
ABBVIE S.A.R.L.	2,991,273	UNIVERSITY		AIRHELMET S.R.L.	2,997,043
ABDEL-GADIR, AZZA	3,003,908	FOUNDATION	2,993,634	AIRSUITE INC.	3,004,501
ABDOLAHIAN, ALESSIO	2,997,043	ADAMCZYK, WOJCIECH		AIRSUITE INC.	3,004,507
ABDOLLAH, JAFAR	2,997,901	MAREK	2,998,293	AISSAOUI, HAMED	2,989,098
ABDOLVAND, AMIN	3,002,315	ADAMS, MIKE	2,981,241	AIT ABDELMALEK, FARID	3,004,694
ABDOLVAND, AMIN	3,002,318	ADAMS, PAUL E.	3,004,269	AJINOMOTO CO., INC.	2,996,025
ABEEWAY	2,990,763	ADDISON HVAC LLC	3,004,629	AJINOMOTO CO., INC.	2,996,028
ABEND, JOHANNA	2,995,795	ADIOS PATENT GMBH	2,996,124	AKIYAMA, TOMOAKI	3,004,245
ABHARI, KAMYAR	3,004,167	ADKINS, JAMES M., III	3,004,175	AKIYAMA, TOMOAKI	3,004,252
ABLOY OY	2,996,914	ADLER, ARIEL	2,986,518	AKLE, CHARLES	2,990,107
ABOU-MARIE, RUND	2,995,553	ADLER, ARIEL	2,987,183	AKNIN, OFER	2,986,370
ABRAHAM, JAYA	2,997,364	ADVANCED ENGINEERING		AKNIN, OFER	2,986,514
ABRAHAM, JAYA	2,997,463	SOLUTIONS LTD.	2,991,960	AKNIN, OFER	2,986,518
ABRAMOVICH, SAGI	2,987,195	ADVAXIS, INC.	2,990,570	AKOULITCHEV, ALEXANDRE	2,988,673
ABRAMOVICH, SAGI	2,992,525	AER BEATHA LIMITED	3,004,674	AKOULITCHEV, ALEXANDRE	2,988,674
ABRAMS, STEPHEN	3,004,499	AFASCI, INC.	3,004,448	AKYILDIZ, HASAN	3,004,384
ABSOLUTE MODULE OY	2,993,751	AFINITI EUROPE		AKZO NOBEL CHEMICALS	
ABU DHABI OIL REFINING		TECHNOLOGIES LIMITED	3,004,210	INTERNATIONAL B.V.	3,004,195
COMPANY (TAKREER)	2,995,643	AFINITI EUROPE		AL DULAYYMI, JUMA'A	
ABU DHABI OIL REFINING		TECHNOLOGIES LIMITED	3,004,211	RAHEEM NAJEEM	2,991,183
COMPANY (TAKREER)	2,995,646	AFINITI EUROPE		AL-DULAYYMI, JUMA'A	
ACADEMISCH ZIEKENHUIS		TECHNOLOGIES LIMITED	3,004,212	RAHEEM NAJEEM	2,990,535
GRONINGEN	2,999,428	AFINITI EUROPE		AL-HAJ ALI, MOHAMMAD	3,004,181
ACADEMISCH ZIEKENHUIS		TECHNOLOGIES LIMITED	3,004,240	AL-HAJ ALI, MOHAMMAD	3,004,662
MAASTRICHT	3,004,786	AFL TELECOMMUNICATIONS		ALARCON SANCHEZ,	
ACCENTURE GLOBAL		LLC	3,004,328	BALBINO	2,995,021
SERVICES LIMITED	2,994,508	AFSHAR, SEPIDEH	3,003,911	ALBERINI, VILIAM	2,994,389



## Index des demandes PCT entrant en phase nationale

ALBERT KNEBEL HOLDING GMBH	3,004,377	ANDLAUER, BARBARA	2,996,635	ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCENCIAS-CIC BIOGUNE	2,995,079
ALBERTELLI, ALDINO	2,995,331	ANDROLETTI, GILBERT	3,004,689	ASSING, HUBERT	3,004,119
ALBERTELLI, ALDINO	2,995,333	ANDRES-GIL, JOSE IGNACIO	3,003,962	ASTEX THERAPEUTICS LIMITED	2,988,373
ALBRECHT, ANDREAS	3,004,357	ANDRES-GIL, JOSE IGNACIO	3,003,998	ASTEX THERAPEUTICS LIMITED	2,988,374
ALCATEL LUCENT	3,004,359	ANDREWS, MICHAEL	3,004,780	ATANDA, DELE	3,003,084
ALDRIDGE, MICHAEL	2,997,661	ANDREWS, RICHARD	3,004,678	ATCHLEY, MICHAEL D.	3,004,294
ALECTOR LLC	3,003,458	ANDRIVON, PIERRE	3,004,793	ATCHLEY, MICHAEL D.	3,004,470
ALERE SAN DIEGO, INC.	3,004,130	ANG, PETER PUI LOK	3,004,485	ATLAS BOLT & SCREW COMPANY LLC	3,003,924
ALERE SWITZERLAND GMBH	3,004,130	ANGELETAKIS, CHRISTOS	3,003,902	ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP	2,997,573
ALEXANDER, NELSON	3,004,504	ANGELI, PIETRO	2,997,238	ATLAS ELEKTRONIK GMBH	2,996,537
ALEXANDER, RIKKI PETER	2,995,909	ANGUITA, JUAN	2,995,079	ATLAS ELEKTRONIK GMBH	2,997,196
ALFACYTE LTD	2,998,456	ANSELMO, ACHILLE	3,004,378	ATRECA, INC.	3,004,310
ALFI S.R.L.	2,997,235	ANTHIERENS, TOM	3,004,779	ATTI, VENKATRAMAN	3,004,609
ALFIERI, MICHELE	3,004,243	ANTONSSON, STEFAN	3,003,581	ATTI, VENKATRAMAN	3,004,770
ALFORD, JOHN	3,004,274	ANUSAS, MICHAEL	2,997,661	ATTIWELL, PAUL	3,004,471
ALIVERTI, ANDREA	2,994,362	ANYAOGU, KELECHI C.	3,003,879	ATUNGSIRI, SAMUEL ASANGBENG	2,990,319
ALLAIS, CHRISTOPHE PHILIPPE	2,996,389	AOKI, SHIN	2,995,053	AUDDY, BISWAJIT	2,989,743
ALLEN, THOMAS	3,004,711	AP&C ADVANCED POWDERS AND COATINGS INC.	3,003,502	AUDET, ANNICK M.	2,988,625
ALLERGAN, INC.	3,004,453	APERISYS, INC.	3,004,738	AUDIO INVENTIONS LIMITED	2,993,147
ALLNEX NETHERLANDS B.V.	3,004,178	APOSENSE LTD.	2,995,663	AUSTRHEIM, TROND	3,004,208
ALMAC DIAGNOSTICS LIMITED	2,989,388	APOSENSE LTD.	2,995,663	AUSTRHEIM, TROND	3,004,533
ALMAC DIAGNOSTICS LIMITED	2,993,142	APPVIEWX INC	2,992,402	AUTIER, VALERIE	2,988,625
ALMANOVA S.R.L.	2,997,515	APPVIEWX INC	2,998,465	AUTOLUS LIMITED	2,995,775
ALMEIDA, ANA RITA MARTINS GUERREIRO ROCHA	2,988,392	AQUA VIEW INC.	3,004,050	AUTOLUS LIMITED	2,995,785
ALMOSDI, PETER	3,004,325	ARAI, KENZO	3,004,623	AUTOSTORE TECHNOLOGY AS	3,004,014
ALSTOM GRID UK LIMITED	2,984,086	ARCELORMITTAL	2,997,582	AUTOSTORE TECHNOLOGY AS	3,004,208
ALTALHI, ARWA SALEH D	2,996,268	ARCELORMITTAL	2,999,348	AUTOSTORE TECHNOLOGY AS	3,004,533
ALTENBACH, ROBERT J.	2,991,273	ARCELORMITTAL	3,004,454	AUTRUSSON, NICOLAS	2,990,175
ALTEOGEN, INC.	2,990,582	ARCELORMITTAL	3,004,528	AVANTIUM KNOWLEDGE CENTRE B.V.	2,995,560
ALTERA TIBBI MALZEME SANAYI VE TICARET ANONIM SIRKETI	2,995,064	ARCHER, JACOB FREEMAN	3,004,132	AVENT, INC.	3,003,587
ALTOP PATENTS B.V.	2,994,263	ARCITA	3,004,342	AVENT, INC.	3,004,443
AM TECHNOLOGY LIMITED	2,998,787	ARDYNE TECHNOLOGIES LIMITED	2,996,785	AVENT, INC.	3,004,447
AMADEI, ETTORE	2,997,515	ARESTA, GIANFRANCO	2,986,357	AVERBACK, PAUL	2,992,174
AMATO, DAVID JOHN	3,004,361	ARET, EDWIN	2,991,096	AVIGAN, DAVID	3,004,597
AMAZON TECHNOLOGIES, INC.	3,004,189	ARGYROS, AARON	2,997,380	AVITA INTERNATIONAL LTD.	2,995,429
AMBROSEN, HELEN ELIZABETH	2,995,650	ARGYROS, AARON	3,004,228	AVLONITIS, NIKOLAOS	3,003,955
AMIR, MOHAMMAD	2,994,208	ARIANEGROUP SAS	2,990,175	AVLONITIS, NIKOLAOS	3,003,964
AMO WAVEFRONT SCIENCES, LLC	3,003,907	ARIANEGROUP SAS	2,991,526	AVRILLON, STEPHANE	2,994,728
AMOREPACIFIC CORPORATION	2,989,289	ARKEMA FRANCE	2,993,488	AXENS	3,003,947
AMOREPACIFIC CORPORATION	2,990,157	ARKEMA FRANCE	2,995,349	AXEROVISION, INC.	2,989,522
AN, SEONG-CHEOL	2,993,430	ARKEMA FRANCE	2,998,063	AXICHEM AB	3,001,310
ANAVIM, ORI	3,004,410	ARKEMA INC.	3,004,844	AXTEN, JEFFREY MICHAEL	2,998,705
ANCESTRY.COM DNA, LLC	2,991,230	ARMANDO, LODOVICO	2,992,953	AYASKANTA, ARYA	3,004,768
ANCESTRY.COM DNA, LLC	2,992,397	ARMSTRONG, JOHN A.	2,998,712	AZAIZ, RIDHA	2,991,533
ANDERSEN, MADS HALD	2,998,789	ARNAUD, GUILLAUME	2,997,158	AZERRAF, CLARITE	2,998,989
ANDERSEN, RYAN M.	3,004,844	ARRAITZ, ANNE-MARIE	2,998,277	AZOTIC TECHNOLOGIES LTD	2,992,800
ANDERSON, AMANDA K.	3,004,602	ARSEN, FLORINA LILIANA	3,004,852	AZOTIC TECHNOLOGIES LTD B+B ENGINEERING GMBH	2,997,308
ANDERSON, DAVID	3,003,397	ART HEALTHCARE LTD.	2,994,366	BABAU, MAUD	2,996,025
ANDERSON, DAVID RANDOLPH	2,995,153	ARTHUR, RICHARD	2,991,293	BABAU, MAUD	2,996,028
ANDJOUH, SOFYANE	3,004,386	ARTHUR, RICHARD STEPHEN	2,991,169		

## Index of PCT Applications Entering the National Phase

BABCOCK & WILCOX POWER GENERATION GROUP CANADA CORP.	3,004,761	BARRETT, TRISHA	3,004,228	BELDEN DEUTSCHLAND GMBH	3,004,128
BACH, JEAN-MARIE	3,004,192	BARROS, ANTHONY	3,004,389	BELL, JASON RICHARD	3,004,838
BACHMAN, GREGORY W.	3,004,172	BARSCEVICIUS, PAULO	2,996,253	BELL, SARA	2,985,426
BACKFOLK, KAJ	2,994,388	BARSCEVICIUS, PAULO	2,996,254	BELLANDI, PAOLO	2,999,425
BACKFOLK, KAJ	2,995,435	BARSCEVICIUS, PAULO	2,996,255	BELLE, MATHILDE	2,994,728
BACKFOLK, KAJ	2,995,437	BARTFAI, TAMAS	3,004,043	BELLESCHI, MARCO	2,995,551
BACKFOLK, KAJ	2,995,478	BARTFAI, TAMAS	3,004,044	BELLUCCI, REMO	3,004,318
BACONNIER, PIERRE	2,995,343	BARTFAI, TAMAS	3,004,046	BELS, KEVIN	2,990,573
BADULESCU, CRISTINA	2,985,299	BARTHELL, EDWARD	3,004,601	BEN NERIAH, YINON	2,994,644
BAE SYSTEMS PLC	2,981,650	BARTON, GREGORY		BEN SAHEL, HAKIM	2,997,494
BAE SYSTEMS PLC	2,991,169	WILLIAM JAMES	2,998,273	BENADE, VIJAY SIDRAM	2,997,956
BAE SYSTEMS PLC	2,991,293	BARTON, WILLIAM R. S.	3,004,269	BENCHAIB, ABDELKRIM	2,994,372
BAE SYSTEMS PLC	2,993,481	BARTON, WILLIAM R.S.	3,004,417	BENDIX COMMERICAL VEHICLE SYSTEMS LLC	3,003,719
BAE SYSTEMS PLC	2,994,616	BARTOSZEWICZ, AGNIESZKA	2,997,382	BENET POZO, MARC	2,997,665
BAE SYSTEMS PLC	2,998,273	BASF COATINGS GMBH	3,004,781	BENFEY, PHILIP	3,004,350
BAE, MISEON	2,993,929	BASF CORPORATION	3,004,226	BENGTSSON, MATTIAS	3,004,355
BAG, NILKAMAL	2,993,131	BASF SE	3,004,795	BENITA, YAIR	2,991,980
BAGEL LABS CO., LTD.	2,988,214	BASF SE	3,004,802	BENNETT, CARL W.	3,004,838
BAGGAVALLI, SOMESH	2,993,922	BASUN, HANS	2,991,856	BENNETT, DUNCAN	2,993,501
BAGGER, HEIDI WESTH	3,004,145	BATKO, THOMAS JAMES	3,004,279	BENNETT, JENNIFER LYNN	3,004,747
BAGLEYBTER, OLEG	2,984,086	BATTELLE MEMORIAL INSTITUTE	3,004,102	BENNETT, JOHN H. H.	3,004,419
BAGNATO, MAURIZIO	3,000,100	BAUDET, JEAN-PAUL	2,998,903	BENNETT, MARIE-LOUISE AMANDA	2,996,375
BAILEY, BRENT ANDREW	2,997,817	BAULIEU, ETIENNE	3,004,366	BENNING, JEMIMA	2,989,254
BAILEY, MELISSA D.	3,004,408	BAUMAS, OLIVIER JEAN DANIEL	2,998,277	BENNING, KENNETH	2,989,254
BAILEY, WILLIAM J.	3,004,112	BAUNE, EMMANUEL	2,997,158	BERDY, DAVID FRANCIS	3,004,764
BAIRD, MARK STEPHEN	2,990,535	BAVARIAN NORDIC A/S	2,990,549	BERGER, JULIEN	2,995,876
BAIRD, MARK STEPHEN	2,991,183	BAXLEY, WILLILAM EDWARD	3,004,190	BERGER, WALTER	3,004,630
BAISCH, SCOTT CHARLES	2,998,295	BAYER CROPSCIENCE AKTIENGESELLSCHAFT	3,004,360	BERGLUND, PETER LARS AKSEL	3,004,132
BAJPAI, MALINI	2,993,304	BAYER CROPSCIENCE LP	3,004,624	BERGMAN, JOHAN	2,995,677
BAKALA, L'UDOVIT	2,996,488	BAYER CROPSCIENCE NV	3,004,624	BERGSMA, SHANE ANTHONY	2,984,657
BAKER, HARRY	2,997,413	BAYER PHARMA AKTIENGESELLSCHAFT	3,004,789	BERGSTRA, MICHIEL	3,004,662
BAKKER, ALEXANDER BERTHOLD HENDRIK	2,991,880	BAYLIS MEDICAL COMPANY INC.	2,995,553	BERGSTROM, DAVID	3,004,497
BALDEMAIR, ROBERT	3,003,388	BAYLOR COLLEGE OF MEDICINE	3,004,421	BERGWERFF, EDWIN	3,004,512
BALDEMAIR, ROBERT	3,003,390	BECAVIN, THIBAUT	2,985,559	BERKES, MIHALY	2,995,935
BALDINGER, PETER	2,993,238	BECKER, GUIDO	3,004,384	BERKSHIRE GREY INC.	3,004,711
BALESKI, SUSAN	3,004,599	BECKETT, PAUL	3,004,636	BERMAN, TAL	2,995,794
BALMAYER, MATTHIEU	3,003,502	BECKMANN, WOLFGANG	3,004,384	BERNARD, NICOLAS	2,987,825
BAM, NARENDRA B.	2,996,088	BEDARD, JEREMY W.	3,004,303	BERNARDI, MARCO	3,004,247
BAMBERG, SARAH	3,003,945	BEDARD, JEREMY W.	3,004,308	BERNARDONI, MASSIMO	2,998,787
BAMFORD, STEWART	2,991,664	BEDARD, JEREMY W.	3,004,316	BERNASINSKI, REGIS	2,998,309
BANATFY, RUDOLF	2,990,351	BEDARD, JEREMY W.	3,004,322	BERNSEN, JOOST ROBERT	2,994,263
BANCHINI, MARCO	3,004,682	BEDDOK, STEPHANE	2,997,164	BERNSEN, MIECHIEL ANTHONY	2,994,263
BANDA, DOMINIC HOWARD	3,004,805	BEEHARRY, NEIL	3,004,636	BERRY GLOBAL, INC.	3,004,264
BANERJEE, MOLOY	2,996,263	BEESON, RICHARD	3,004,726	BERSIER, MICHAEL	3,004,503
BANERJEE, SALIL	3,004,832	BEEVERS, DAVID JOHN	2,992,517	BERTHEIM, ULF	3,004,509
BANHAM, ALISON	2,996,601	BEGO TECHNOLOGIES, LTD	3,003,464	BES, BERNARD	2,997,024
BANKS, STEVE	2,993,137	BEGUIN, ANTHONY PIERRE	2,998,277	BESSOU, NICOLAS	2,989,785
BANNAS, PETER	3,004,792	BEHABADI, BARDIA FALLAH	3,004,262	BESSOU, NICOLAS	2,992,930
BARAWKAR, DINESH	2,993,312	BEHKISH, ARSAM	3,004,068	BETEK GMBH & CO. KG	3,004,502
BARBA-SPAETH, GIOVANNA	2,988,499	BEHNK, HOLGER	3,004,800	BETEK GMBH & CO. KG	3,004,515
BARBOUR, ROBIN	2,994,518	BEHNKEN, SWANTJE	3,004,384	BETH ISRAEL DEACONESS MEDICAL CENTER	3,004,597
BARDAKAS, ACHILLEAS	3,004,783	BEINBORN, MARTIN	3,003,465	BETTCHER, ROBERT E., III	3,004,783
BARF, TJEERD	2,991,096	BEISELE, CHRISTIAN	3,004,371	BEVERIDGE, WILLIAM ALEXANDER	3,004,149
BARFIELD, ROBYN M.	3,004,584	BELAKSHE, RAVIKANT S.	3,004,403	BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,074
BARHOUMI, AOUNE	3,004,504	BELANGER, ALAIN JOSEPH	2,993,913	BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,076
BARKER, DAVID A.	2,998,903	BELANGER, PAUL W.	3,004,768		
BARKER, GARY	3,004,761	BELASKIE, JAMES	3,004,133		
BARNEA, EYTAN R.	3,004,055				
BARNETCHE, THOMAS	3,004,183				
BARRETT, JOHN REGINALD	2,990,326				
BARRETT, TRISHA	2,997,380				

## Index des demandes PCT entrant en phase nationale

BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,291	BLANCTEC CO., LTD.	3,004,252	BOOYSEN, WILLEM ADRIAAN	2,995,432
BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,304	BLANKENSHIP, YUFEI	2,995,677	BORDES, JULIEN	3,004,694
BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,313	BLAREAU, FRANCOIS	2,990,171	BORDES, PHILIPPE	3,004,793
BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,318	BLASCH PRECISION CERAMICS, INC.	3,004,136	BOREALIS AG	3,004,181
BEWICK-SONNTAG, CHRISTOPHER PHILIP	3,004,463	BLATTER, FRITZ	2,991,096	BOREALIS AG	3,004,383
BEYER, SUSANNE	3,004,363	BLOCK, TRAVIS	3,004,296	BOREALIS AG	3,004,662
BEYNEL	2,994,246	BLOCKUS, SEBASTIAN	3,004,805	BOREAN, JEAN-LUC	3,004,528
BEYOND TWENTY LIMITED	2,997,119	BLUECHAIN PTY LTD	3,004,467	BOREK, BARTLOMIEJ	2,997,382
BHARATE, SANDIP BIBISHAN	3,004,534	BLUEPRINT MEDICINES CORPORATION	3,003,721	BORER, TIM	2,990,569
BHARATE, SONALI SANDIP	3,004,534	BLUETRAM	3,004,661	BORGEN, LARS	2,989,775
BHATTACHARJA, SANKAR	3,004,295	BOARD OF REGENTS OF THE NEVADA SYSTEM OF HIGHER EDUCATION, ON BEHALF OF THE UNIVERSITY OF NEVADA, RENO	3,004,429	BORGMEIER, FRIEDER	3,004,795
BHUSHAN, NAGA	3,004,485	BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA	3,004,444	BORK, THOMAS F.	2,993,906
BHUSHAN, SHASHI	3,004,534	BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM	3,004,197	BORMANS, GUY MAURITS R	3,003,962
BHYRAPUNENI, GOPINADH	2,997,956	BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM	3,004,201	BORMANS, GUY MAURITS R	3,003,998
BIALAS, MICHAEL R.	3,004,602	BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM	3,004,307	BORNER, GUNTER	2,997,308
BIALEK, JADWIGA MALGORZATA	3,004,512	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,004,307	BOSS, CHRISTOPH	2,989,098
BIANCALANA, ALBERTO	3,004,682	BOATENG, WILLIAM BEKOE	3,004,412	BOSS, KRISTOPHER R.	3,004,438
BIANCHI, DANIELE	2,999,425	BOCHENTIN, THORSTEN	2,997,196	BOSSUYT, FILIP	2,996,024
BIART, WAYNE	2,994,360	BOCKSCH, MARCUS	3,004,612	BOTTINE, PHILIPPE	2,993,919
BIA TEC LASER TECHNOLOGY S. R. O.	2,996,259	BODGI, LARRY	2,996,918	BOTTINO, AURELIO	2,993,913
BIC-VIOLEX SA	3,004,474	BODGI, LARRY	2,993,871	BOUCHER, FRANCOIS	2,995,343
BILIC, SANELA	2,993,908	BOEHM, JEFFREY CHARLES	2,994,914	BOUDJEMAA, FABIEN	2,998,061
BILIC, SANELA	2,994,918	BOETTCHER, BRIAN	2,988,374	BOUIN, ETIENNE	3,004,791
BINDSEIL, GERON ANDRE	3,004,214	BOGDAN, ANDREW	2,994,516	BOURDET, PATRICK	3,004,689
BIOARTIC NEUROSCIENCE AB	2,991,856	BOGNER, JAQUELINE	2,991,273	BOUTHEGOURD, JEAN- CHRISTOPHE	2,994,916
BIOINCEPT, LLC	3,004,055	BOHANA-KASHTAN, OSNAT	3,004,671	BOUTINAUD, PHILIPPE	3,004,389
BIOLOGICAL E LIMITED	2,989,187	BOHANA-KASHTAN, OSNAT	2,993,910	BOUZONNET, LORIS	2,990,345
BIOSO4 OY	2,996,811	BOIT, BAPTISTE	2,993,912	BOVIN, NICOLAI VLADIMIROVICH	3,004,107
BIRD, ROBERT ANDREW	2,993,408	BOLEBRUCH, JEFFREY J.	2,991,739	BOYD, RICHARD	3,004,120
BIRD, ROWENA JACQUELINE	2,995,650	BOLLI, MARTIN	3,004,136	BOYER, CECILE	3,004,192
BIRKETT, STEPHEN LONSDALE	2,997,519	BOLLISH, STEPHEN J.	2,989,098	BOYER, DAMIEN	3,004,389
BIRUDUKOTA, N.V. SURYANARAYANA	3,004,805	BOLT, DIRK	3,004,489	BOYSEL, ROBERT MARK	3,004,760
BITTENCOURT SANTIAGO, IGOR	2,997,574	BOLTERS DORF, HANS- JOACHIM	2,997,675	BOYSEL, ROBERT MARK	3,004,763
BIYANI, MANISH RADHESHYAM	2,989,743	BOLYMEDIA HOLDINGS CO. LTD.	2,992,501	BOZICNIK, STANE	2,997,124
BJORKEGREN, HAKAN	3,003,390	BOMBARDIER INC.	2,995,428	BRACHYA, GUY	2,994,644
BJORKLUND, MORTEN ASGER NILSSON	2,995,401	BOMBARDIER INC.	2,996,852	BRACKLEY, III, JAMES A.	2,990,474
BJORN, ERNST	2,993,238	BOMZE, DANIEL	2,997,517	BRADBURY, DAVID MARK	2,993,481
BJOROY, OVE	2,989,119	BONDIOLI, PAOLO	2,995,314	BRADLEY UNIVERSITY	3,003,904
BLAB, RONALD	2,990,022	BONE, ELIZABETH ANN	2,995,896	BRADLEY, MARK	3,003,955
BLACHE, YVES GUY	3,004,386	BONGIOVANNI, LIVIO	2,992,953	BRADLEY, MARK	3,003,964
BLACHIER, CHRISTIAN	3,004,824	BONI, DOMINIC	3,004,480	BRAINON INC.	2,991,286
BLAIN, RICK	3,004,837	BONNARDEL, PASCAL	2,990,171	BRANDWINE, ERIC JASON	3,004,189
BLAKE, ADAM JAMES	3,004,090	BONZOGNI, LAURENE	2,994,914	BRANTL, CHRISTIAN	2,990,573
BLAKEMAN, TOM	2,997,158	BOOKBINDER, STEVE	2,994,630	BRASSAT, LUTZ	3,004,385
BLANASZ, LISA	3,004,269	BOON, CATHY L.	3,003,719	BRAUN GMBH	2,996,918
BLANC, ALEXANDRE	2,997,653	BOOTH, MARK	3,004,428	BRAVO, DAVID	3,004,836
BLANC-PAQUES, PIERRE	2,993,926			BRELKO PATENTS (PTY) LTD	2,994,727
BLANCHARD, ROBERT	3,004,639			BRELKO PATENTS (PTY) LTD	2,994,730
BLANCO, PATRICK	3,004,183			BRENNAN, JAMES	2,990,326
BLANCO-APARICIO, CARMEN	2,996,233			BRES, JEAN-CHARLES	2,998,057
BLANCTEC CO., LTD.	3,004,245			BRESILIS, CHRISTOFOROS - ATHANASIOS	3,004,474
				BRET, CHRISTIAN	2,993,488
				BRETZ, KURT R.	3,004,314
				BREVET, MICHIEL	2,996,266
				BRIANO, FLORIA OTTONELLO	2,990,947
				BRIGHTWELL, SCOTT	3,004,538
				BRINKMEIER, ANDREW	3,004,295

## Index of PCT Applications Entering the National Phase

BRITISH BROADCASTING CORPORATION	2,990,569	BUZZZ PHARMACEUTICALS LIMITED	3,004,191	CARPENTER, BRIAN SCOTT	3,004,180
BRITISH GAS TRADING LIMITED	2,991,588	BV BIOMED LTD	2,997,681	CARPENTER, BRIAN SCOTT	3,004,256
BRODIE, BEKKA SUE	3,004,090	BWG BERGWERK- UND WALZWERK- MASCHINENBAU GMBH	3,004,532	CARR, MICHAEL JOHN	2,996,252
BRODKORB, SEBASTIAN	2,997,308	BYARD, JOHN	3,004,774	CARR, ROBERT T.	3,004,303
BROG, YAACOV MICHA	2,989,991	BYGRAVE, PETER NATHAN	2,993,896	CARR, ROBERT T.	3,004,308
BROGAN, COLIN	3,004,178	BYLESJO, MAX	2,993,142	CARREGA, AUDE	3,003,980
BROKENSHIRE, STEVEN	2,997,865	BYRNE, THOMAS	3,004,762	CARRERA FABRA, JORDI	2,992,819
BROMLEY, KEITH	2,995,438	BYUN, DOO JIN	2,990,133	CARRERA FABRA, JORDI	2,992,824
BRONSTRUP, MARK	3,004,805	CA CASYSO GMBH	2,990,573	CARROLL, CIAN SEAMUS	3,004,598
BROOKS, ANDREW SIMON HALL	2,986,357	CABRI, WALTER	2,996,258	CARSWELL, SAMUEL A.	3,004,067
BROOKS, BRIAN E.	3,004,259	CACLIN, JEROME	3,004,808	CARTHERICS PTY. LTD.	3,004,120
BROOKS, BRIAN E.	3,004,267	CAILLET, XAVIER	2,995,471	CARTRON, GUILLAUME	2,988,781
BROOKS, JILL KRISTIN	3,004,309	CAIRA, ANTONIO	2,997,238	CASAGRANDE, CHARLES L.	3,003,935
BROWN, CHRIS	2,996,368	CAIRD, BRIAN SCOTT	2,990,554	CASALE SA	3,004,186
BROWN, CHRISTINE E.	3,004,306	CAIRNS, GEOFFREY IAN	2,998,295	CASCARINO, SARA	2,998,309
BROWN, GARETH	3,004,417	CALAGARI, KIANA ALI ASGHAR	2,994,514	CASCIONE, TOMASO	3,004,137
BROWN, GILES ALBERT	2,993,484	CALDWELL, JOHN RYAN	3,004,338	CASHMAN, NEIL R.	3,004,482
BROWN, GILES ALBERT	2,994,143	CALLAHAN, JAMES FRANCIS	2,988,374	CASHMAN, NEIL R.	3,004,493
BROWN, GILES ALBERT	2,994,203	CALLEGARO, IVANO	2,994,913	CASHMAN, NEIL R.	3,004,494
BROWN, MARC BARRY	3,004,191	CALZADA DEFEZ, ANGEL	2,997,665	CASHMAN, NEIL R.	3,004,496
BROWN, TOM	2,998,712	CAMACHO GOMEZ, JUAN ALBERTO	2,994,918	CASHMAN, NEIL R.	3,004,498
BRU GIBERT, RAFAEL	2,992,819	CAMERON, JOHN	2,991,857	CASHMAN, NEIL R.	3,004,498
BRU GIBERT, RAFAEL	2,992,824	CAMERON, JOHN	2,993,908	CASIRAGHI, FLAVIO	3,004,473
BRUBAKER, JASON D.	3,003,721	CAMERON, JOHN SCOTT	2,994,918	CASOLI, LINO	2,992,417
BRUDIEU, BARBARA	2,995,345	CAMPAGNA, MATTHEW JOHN	3,004,189	CASTRO, DEJA S.	3,004,351
BRUNET, LAURA ROSA	2,990,107	CAMPBELL, IAN	2,997,413	CASTRO-PALOMINO LARIA, JULIO CESAR	2,994,918
BRUNETTE, REBECCA ROSEMARY	3,004,774	CAMPBELL, WILLIAM CHRISTOPHER	2,997,679	CATERPILLAR INC.	3,004,514
BRUNT, JAMES EDWARD	2,997,174	CAMPUBI TORRAS, ENRIC	2,993,410	CATRINA, ANCA	2,994,796
BRUNT, JAMES EDWARD	2,998,722	CANCER RESEARCH TECHNOLOGY LIMITED	2,996,601	CATRINA, ANCA	2,994,798
BRUSS, ROBERT	3,004,762	CANELLI, HUGH B.	2,992,949	CAUX, JOCELYN	2,996,588
BRY, LYNN	3,003,908	CANOVA, LORENZO	2,995,655	CEBE, REGIS	2,994,516
BRYANT, MARC A.	2,991,845	CANSFIELD, JULIE	2,994,203	CECIL, ALEXANDER RICHARD LIAM	2,995,896
BRYSCH, WOLFGANG	2,990,298	CAO PHARMACEUTICALS INC.	3,003,906	CECIL, ALEXANDER RICHARD LIAM	2,995,902
BUCHFELLNER, ANDREA	3,004,671	CAO, GUOQING	3,004,804	CECIL, ALEXANDER RICHARD LIAM	2,995,909
BUD, ANDREW	3,003,550	CAO, SHIWEI	3,003,937	CEFLA SOCIETA' COOPERATIVA	3,004,860
BUDD, MICHAEL	2,991,293	CAO, SHIWEI	3,004,187	CELEBI, ADEM	3,004,172
BUDD, MICHAEL EDWARD	2,991,169	CAO, SHUXUN	2,981,638	CELGENE QUANTICEL RESEARCH, INC.	3,004,300
BUDNIAK, ADAM KRZYSZTOF	2,998,293	CAO, ZHISONG	3,003,906	CELL CURE NEUROSCIENCES LTD.	2,993,910
BUEREN RONCERO, JUAN ANTONIO	3,004,171	CAO, ZHU	2,991,857	CELL CURE NEUROSCIENCES LTD.	2,993,912
BUFFE, CLOTHILDE	2,995,162	CAPLAN, SHARI LYNN	2,994,516	CELLBION CO., LTD	3,004,696
BUKOFZER, STANLEY	3,004,331	CARAGIULI, GABRIELE	2,996,858	CELLECTIS	2,998,825
BULL SAS	2,990,345	CARBONE, DOMENICO CARMELO	2,994,058	CELLECTIS	3,004,171
BULUSU, SURYATEJA	3,004,003	CARDINAL, THIERRY	3,004,817	CELLERANT THERAPEUTICS, INC.	3,004,743
BUNNELL, ANTHONY	2,994,055	CARDONA, DAVID	2,994,055	CELLIVERY THERAPEUTICS, INC.	2,993,778
BUONAMICI, SILVIA	3,004,623	CAREFUSION 303, INC.	3,004,489	CENTRALESUPELEC	2,994,372
BURGIN, PAUL	2,997,158	CARGILL, INCORPORATED	3,004,151	CENTRE HOSPITALIER REGIONAL ET UNIVERSITAIRE DE LILLE (CHRU)	2,985,559
BURKES, RYAN	3,004,265	CARGILL, INCORPORATED	3,004,176	CENTRE HOSPITALIER UNIVERSITAIRE DE BORDEAUX	3,004,183
BURLA, SATISH	2,993,131	CARGILL, INCORPORATED	3,004,177	CENTRE HOSPITALIER UNIVERSITAIRE DE GRENOBLE	2,991,524
BURNS, ALASDAIR	2,997,681	CARIBOU BIOSCIENCES, INC.	3,004,757		
BURSTAIN, IDO	2,994,644	CARINOPHARM GMBH	3,004,362		
BURTON, LYLE LORRENCE	2,989,523	CARL FREUDENBERG KG	3,004,137		
BUSS, HELMUT	3,004,119	CARLA, VITO	3,004,463		
BUSSIERES, FREDERIC	3,004,162	CARLSEN, INGE MANFRED	2,997,901		
BUTLER, MARTIN	2,997,174	CARNIEL, CHRISTOPHE	2,998,865		
BUTLER, MARTIN	2,998,722				
BUTTERFIELD, ROBERT DWAIN	3,004,489				

## Index des demandes PCT entrant en phase nationale

CENTRE HOSPITALIER UNIVERSITAIRE DE MONTPELLIER	2,988,781	CHANDRASEKARAN, RAMALAKSHMI YEGNA	2,989,456	CHILDREN'S MEDICAL CENTER COPORATION	3,003,908
CENTRE LEON BERARD	2,993,871	CHANFORAN, CELINE	3,004,203	CHILKOOOR	
CENTRE LEON BERARD	2,994,914	CHANG, FRANK	2,992,823	SOUNDARARAJAN, LAXMI NARASIMHAN	3,004,679
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -	3,004,183	CHANG, FRANK	3,003,986	CHINA UNIVERSITY OF MINING AND TECHNOLOGY	2,990,547
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2,988,781	CHANG, FRANK	3,004,158	CHINA UNIVERSITY OF PETROLEUM(EAST CHINA)	3,004,693
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2,993,871	CHANG, YEON	2,989,998	CHINNAPATTU, MURUGAN	2,997,531
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2,994,246	CHAPARRO PADILLA, ALEJANDRA	2,998,275	CHINTALAPOODI, PRAMOD	2,996,400
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2,994,914	CHAPPIE, THOMAS ALLEN	2,989,456	CHINTALAPOODI, PRAMOD	2,996,401
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	2,997,616	CHARGEPOINT TECHNOLOGY LTD	2,997,677	CHINTALAPOODI, PRAMOD	2,996,402
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	3,000,291	CHARLES, STEVE	2,992,952	CHINTALAPOODI, PRAMOD	3,004,047
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	3,004,389	CHARLES, STEVEN T.	3,004,094	CHIPROOT, AVI	2,996,082
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	3,004,817	CHARON, CHRISTINE G.	2,988,625	CHISHTI, ZIA	3,004,210
CENTRO DE INVESTIGACION BIOMEDICA EN RED	3,004,171	CHARRIERE, CHRISTOPHE	2,994,441	CHISHTI, ZIA	3,004,211
CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS	3,004,171	CHATILA, TALAL A.	3,003,908	CHISHTI, ZIA	3,004,240
CERTAINTED GYPSUM, INC.	3,004,290	CHATROUX, ANDRE	2,997,996	CHO, EUNA	2,996,120
CES TECHNOLOGY S.A.R.L.	2,981,218	CHAUDHARI, ANITA	2,997,364	CHO, GEUM SIL	2,997,549
CESA, JOSEPH A.	3,004,443	CHAUDHARI, ANITA	2,997,463	CHO, JOONG WOONG	2,993,920
CESA, JOSEPH A.	3,004,447	CHAUDHURI, SWAPAN K.	3,004,752	CHO, KYUNG HO	2,997,394
CESAR GALO BARDES, JOAN	2,993,410	CHAUHAN, ROHIT	3,004,744	CHO, MONG	2,990,133
CESARI, PHILIPPE	2,998,721	CHAUMILLIAT, CHRISTINE	3,004,824	CHOI, CHANG-HOON	2,992,969
CEZAR, RENAUD	2,988,781	CHEBIYYAM, VENKATA SUBRAHMANYAM	3,004,609	CHOI, DAEKYU	2,993,929
CGG SERVICES SAS	2,994,789	CHANDRA SEKHAR	3,004,770	CHOI, IN JA	2,993,920
CGG SERVICES SAS	2,996,023	CHEBIYYAM, VENKATA SUBRAHMANYAM	3,004,770	CHOI, IN YOUNG	2,991,107
CHADA, SUNIL	3,004,530	CHANDRA SEKHAR	3,004,770	CHOI, IN YOUNG	2,999,823
CHADEYRON, GENEVIEVE	3,004,389	CHECKLEY, CHRISTOPHER	2,997,348	CHOI, JI-HYE	2,998,092
CHAE, PIL SEOK	2,997,394	CHEETHAM, EMMA	2,989,779	CHOI, JI-HYOUK	3,004,656
CHAGGARES, NICHOLAS CHRISTOPHER	3,004,354	CHEETHAM, EMMA	2,995,927	CHOI, JINHONG	3,002,519
CHAGGARES, NICHOLAS CHRISTOPHER	3,004,356	CHELLE, RENE	2,994,363	CHOI, KYUNG HO	2,989,289
CHAI, FENG	2,985,559	CHEM TREAT, INC.	3,004,311	CHOI, MYUNG-SOOK	2,996,872
CHAKKA, SAI KUMAR	3,004,641	CHEN, CHEN	2,983,925	CHOI, YEONG JIN	2,989,289
CHAKRABARTI, SHRABANA	2,989,743	CHEN, CHONG	2,983,925	CHOI, YEONG JIN	2,990,157
CHAKRABORTY, ABIR	3,004,344	CHEN, CHONG	2,984,657	CHON, JAMES Y.	2,992,949
CHAMBRON, NICOLAS	2,992,791	CHEN, CHONG	2,984,657	CHONG KUN DANG PHARMACEUTICAL CORP.	2,993,918
CHAN, BETTY	3,004,623	CHEN, DONG	3,004,761	CHONG KUN DANG PHARMACEUTICAL CORP.	2,993,929
CHAN, RYAN NICHOLAS	3,004,346	CHEN, HAO	3,004,644	CHONG KUN DANG PHARMACEUTICAL CORP.	2,994,688
CHANDA, ARANI	3,004,623	CHEN, HONGYAN	3,004,371	CHONGO, GODFREY	3,004,624
CHANDRAKANT, PARTHA	2,992,949	CHEN, JIN	2,983,925	CHOROSINSKI, LEONARD GEORGE	3,004,084
		CHEN, JIN	3,004,620	CHOROSINSKI, LEONARD GEORGE	3,004,335
		CHEN, JINHUI	3,004,142	CHOROSINSKI, LEONARD GEORGE	3,004,337
		CHEN, SHUHUI	3,004,173	CHOWDHARY, MANJIT S.	3,004,617
		CHEN, TONG	3,004,599	CHR. HANSEN NATURAL COLORS A/S	3,004,203
		CHEN, WENHAO	3,003,906	CHRISTENSEN, KURT AGERBAEK	3,004,129
		CHEN, XIAO-DONG	3,004,296	CHRISTENSEN, STEVEN S.	3,003,870
		CHEN, YOUNG K.	3,004,300	CHRISTIAN, PAUL	2,994,727
		CHENG, ARTHUR CHUEN HON	3,003,868	CHRISTIAN, PAUL	2,994,730
		CHENG, JANE C.	3,004,303	CHRISTIENSEN, MARTIN BROKNER	3,004,084
		CHENG, JANE C.	3,004,308		
		CHENG, JANE C.	3,004,316		
		CHEONG, HOE-SEOK	2,997,272		
		CHEVRON U.S.A. INC.	2,994,208		
		CHEVRON U.S.A. INC.	3,004,495		
		CHI TANGYIE, GEORGE	2,998,457		
		CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.	3,004,173		
		CHIGURUPATI, HARSHA	2,989,743		
		CHILDREN'S HOSPITAL & RESEARCH CENTER AT OAKLAND	3,004,078		

## Index of PCT Applications Entering the National Phase

CHRISTIANSEN, MARTIN BROKNER	3,004,335	COLLINS, MARK ANTHONY	3,003,885	COSTA DE BEAUREGARD, PIERRE	2,992,791
CHRISTIANSEN, MARTIN BROKNER	3,004,337	COLLINS, MARK ANTHONY	3,004,479	COSTA, VERONICA	3,004,799
CHRISTOPHER, MARK RICHARD	3,004,749	COLLINS, MICHAEL RAYMOND	2,994,917	COTTIER, JACQUES	2,998,721
CHROMOTEK GMBH	3,004,671	COLLINSON, NIKKI	2,995,800	COTTON, ANDREW	2,990,569
CHRONOPOULOS, ILIAS	2,996,878	COLLINSON, NIKKI	2,997,207	COULON, RICK	3,004,587
CHRONOPOULOU, ANASTASIA	2,996,878	COLOMBAROLI, PAOLO	2,996,394	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH	3,004,534
CHRONOPOULOU, KALLIOPI	2,996,878	COLOMBAROLI, PAOLO	2,996,442	COURCHAIINE, WINK	3,004,328
CHRONOS THERAPEUTICS LIMITED	2,997,868	COLOMBEL, FRANCK	2,994,728	COUREY, STEPHEN	3,004,243
CHRONOS THERAPEUTICS LIMITED	2,997,869	COLOMER DURAN, RAMON	2,990,936	COURTAIS, HUGUES	3,004,342
CHU NANTES	2,990,352	COLOPLAST A/S	2,997,225	COVESTRO DEUTSCHLAND AG	3,004,384
CHU NANTES	3,004,192	COLORMATRIX HOLDINGS, INC.	2,997,413	COVESTRO DEUTSCHLAND AG	3,004,385
CHUGAI SEIYAKU KABUSHIKI KAISHA	2,993,423	COLOSIMO, NICHOLAS GIACOMO ROBERT	2,981,650	COVIZZI, GIAMPAOLO	2,996,394
CHUGAI SEIYAKU KABUSHIKI KAISHA	3,004,288	COMCARDE LIMITED	2,993,279	COVIZZI, GIAMPAOLO	2,996,442
CHUN, KWANGWOO	2,990,277	COMENGENS CASAS, ANNA	2,992,824	COWART, MARLON D.	2,991,273
CHUNG, DAE KYUN	2,999,821	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES	2,997,996	COWIE, GAVIN DAVID	2,996,228
CHUNG, HYE SHIN	2,990,582	ALTERNATIVES	2,997,996	COX, ANTHONY MARTIN	3,004,387
CHUNG, JIN HO	2,997,549	COMPOSITE TECHNOLOGY AND APPLICATIONS LIMITED	2,996,472	COX, GREGORY SIMON	2,992,026
CHURCH, GEORGE M.	3,004,285	COMPUGEN LTD.	2,991,980	COX, SOPHIE CONSTANCE	2,990,326
CHURCH, RYAN	2,992,865	CONAHAN, NATASHA	3,004,538	CRAIGE, SIMON	3,004,195
CIANCI, ANTONIO	2,998,787	CONDORELLI, GIANLUIGI	3,004,378	CRANFILL III, JOHN	3,004,295
CIPOLLETTA, DANIELA	2,991,857	CONEGGO, NICOLAS	3,004,801	CREMERS, THOMAS	3,001,981
CITY OF HOPE	3,004,299	CONG, YONGZHENG	3,004,102	CREMONESI, SUSANNA	2,992,820
CJ CHEILJEDANG CORPORATION	2,990,376	CONGDON, THOMAS M.	3,004,514	CREMONESI, SUSANNA	2,997,868
CJ CHEILJEDANG CORPORATION	2,992,970	CONGREVE, MILES STUART	2,993,484	CREMONESI, SUSANNA	2,997,869
CJ CHEILJEDANG CORPORATION	2,996,446	CONGREVE, MILES STUART	2,994,143	CREWS, EVERETT	3,003,919
CJ CHEILJEDANG CORPORATION	2,996,872	CONNEXIOS LIFE SCIENCES PVT. LTD.	2,993,922	CREWS, THOMAS M.	3,004,160
CJ CHEILJEDANG CORPORATION	2,998,312	CONNORS, DANIEL	2,993,903	CRIBB, JOHNATHAN ARTHUR	3,004,368
CLARK, JENNIFER E.	3,004,081	CONNORS, DANIEL	2,993,904	CROCI, ALBERTO MURAT	3,004,586
CLARK, ROBERT PARKER	3,003,712	CONRAD, CHRIS	3,004,636	CROMMAR, KIM	3,004,624
CLARKE, MARTYN J.	3,004,746	CONSEIL ET TECHNIQUE	2,995,164	CROMPTON, BRENDAN ROBERT	3,004,466
CLAUDET, VINCENT	2,998,721	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	2,995,021	CROSERIA, GIOVANNI	2,997,043
CLAYBROUGH, MATTHIEU	2,989,154	CONSORT MEDICAL PLC	2,997,514	CROSIGNANI, STEFANO	2,994,917
CLEAN PLANET INC.	3,000,121	CONSTANT, HOWARD L.	3,004,752	CROSS ZLIN, A.S.	3,002,593
CLEIJ, THOMAS JAN	3,004,786	CONSTANTINE, MARGARET JOAN	2,995,650	CROWTHER, ASHLEY	2,997,182
CLUFF, CHRISTOPHER W.	2,994,790	CONSTANTINE, MARK	2,995,650	CRUZ ADALIA, ARANZAZU	2,995,021
COATEX	2,994,622	CONSTELLUM ISSOIRE	2,997,024	CS GENETICS LIMITED	2,989,976
COBRA SEATS TECHNOLOGY LTD	2,996,097	CONTIN-BORDES, CECILE	3,004,183	CSATARI, TAMAS	2,996,102
COBURN, CRAIG	3,004,095	COOK, STEPHEN LEONARD	2,991,369	CUBER, PETR	3,004,776
COCKING, ANDREW JOHN	3,004,511	COOPER, PAUL ANDREW	3,003,868	CUI, DONGBIN	3,004,804
COENEN, ROB	3,004,715	COPAN ITALIA S.P.A.	2,996,858	CUI, QIMEI	3,003,937
COGLIANDRO, JOHN	3,004,452	CORDOBA, SHAUN	2,995,775	CUI, QIMEI	3,004,187
COHEN, BENJAMIN	3,004,711	CORDOBA, SHAUN	2,995,785	CULLY, EDWARD H.	3,004,627
COJANDE, PRASAAD	2,994,912	CORFIAS ZUCCALLI, CATHERINE	2,994,622	CURRAN, KEVIN JOSEPH	2,995,153
COJOCARU, GAD S.	2,991,980	CORNEAT VISION LTD	2,988,377	CUTTING & WEAR RESISTANT DEVELOPMENTS LIMITED	3,004,202
COKER, JUSTIN JEFFREY	3,003,587	CORNEJO, ANDREW	2,996,940	CV6 THERAPEUTICS (NI) LIMITED	2,991,468
COLBURN, DAWN	3,004,348	CORNET-GIGOU, MURIELLE MONIQUE JACQUELINE	2,991,524	CVS PHARMACY, INC.	3,004,345
COLIN, JEAN-CLAUDE	2,989,785	CORONELLA, CHARLES J.	3,004,429	CZECH TECHNICAL UNIVERSITY IN PRAGUE, FACULTY OF CIVIL ENGINEERING, DEPARTMENT OF ROAD STRUCTURES	2,989,673
COLIN, JEAN-CLAUDE	2,992,930	CORTEN, CATHRIN	3,004,781	CZESTKOWSKI, WOJCIECH J.	2,997,382
COLLEGE, JOHN W.	3,004,290	CORTEXYME, INC.	3,004,095	D'SOUZA, ASHA MARINA	2,997,519
COLLINS, LAURA	3,004,603	COSMETIC WARRIORS LIMITED	2,995,650		

## Index des demandes PCT entrant en phase nationale

DA SILVA CONCEICAO, ALEXANDRE	3,004,056	DAVIES, MARCUS	2,984,465	DELAVAL HOLDING AB	3,003,910
DA SILVA, RONALDO ANTONIO	2,997,574	DAVIES, PHIL	3,002,735	DELCAIRE, ALAIN	2,990,549
DA VINCI S.R.L.	2,991,475	DAVIS, BRIAN R.	3,004,171	DELEGRANGE, FANNY	2,996,025
DACHIRAJU, RAJESH	3,004,700	DAVIS, JAMES	3,004,773	DELELLIS, DAVID J.	3,004,212
DAEHLING, STEFAN	3,004,357	DAVIS, JOHN D.	3,004,766	DELFELD, MARC	2,994,193
DAHL, CARL OSCAR FREDRIK	2,993,914	DAVIS, STEVEN C.	3,004,520	DELIVERIGHT LOGISTICS, INC.	3,004,410
DAI, JING	2,994,372	DAVIS, STEVEN D.	3,003,900	DELL'ORCO, PHILIP CHARLES	3,004,492
DAI, ZHENZHEN	2,990,547	DAVISON, TIMOTHY	2,989,388	DELLAMARY, LUIS A.	3,004,297
DAILEY, JAMES	3,004,268	DAVISON, TIMOTHY	2,993,142	DELLAMARY, LUIS A.	3,004,506
DAILY, CHRISTOPHER GEORGE	3,004,605	DAWSON, ANDREW MARC	3,003,903	DELONCLE, RODOLPHE	3,004,389
DAINI, MASAKI	2,992,700	DAWSON-HAGGERTY, MICHAEL	3,004,711	DEMIR, OKAN	2,995,924
DALENG, JOHANNES ALMING	3,003,966	DAY, MELINDA	3,004,504	DEMME, ANDREAS	3,004,200
DALIAN MEDICAL UNIVERSITY	2,984,569	DAYNOURI-PANCINO, FARNAZ	3,003,993	DEMME, THOMAS	3,004,140
DALLY, JENNIFER	2,996,088	DB PATENTS LTD.	2,990,936	DEMOPULOS, GREGORY A.	3,004,753
DALMOLEN, LAMBERTUS GERRIT PETER	2,998,315	DE BEERS UK LIMITED	2,989,515	DEMUTH, SIMON	3,004,184
DALTA, MAHIMA	2,989,187	DE BEERS UK LTD	2,990,997	DEMUTH, SIMON	3,004,600
DALY, DALY	3,003,958	DE BLESER, DAVY	2,990,171	DENDRIS	3,000,291
DAMBRINE, BRUNO JACQUES GERARD	2,998,731	DE BLOK, CORNELIS MARIA	2,998,707	DENT, DAVID	2,992,800
DAMES, ANDREW NICHOLAS	2,992,919	DE BROQUEVILLE, AXEL	2,994,542	DENT, DAVID	2,992,809
DAMM, ANDREAS	3,004,384	DE BROQUEVILLE, AXEL	2,994,542	DENTSPLY SIRONA INC.	3,003,902
DANA-FARBER CANCER INSTITUTE, INC.	3,004,148	DE CAVIS AG	2,997,520	DEONI, SEAN	3,004,043
DANA-FARBER CANCER INSTITUTE, INC.	3,004,597	DE CUYPER, DIRK	3,004,779	DEONI, SEAN	3,004,044
DANIELI & C. OFFICINE MECCANICHE S.P.A.	3,004,852	DE KOK, PETRUS MARIA THERESIA	2,990,007	DEONI, SEAN	3,004,046
DANKER, WALTER	3,004,521	DE LA ROSA, MARTHA ALICIA	2,990,335	DEPLANCQ, XAVIER	3,003,495
DANKER, WALTER	3,004,524	DE LA RUE INTERNATIONAL LIMITED	3,004,667	DERRIEN, MARC	3,004,661
DANNENBAUER, KAI	3,004,244	DE LARICHAUDY, JOFFREY	2,990,352	DERY, ORLY	2,989,991
DANNHARDT, GERD	3,004,007	DE MAN, TEUNIS	3,004,155	DESBOEUF, NICOLAS	2,995,655
DANZIGER, YOCHAY	2,992,213	DE MAN, TEUNIS	3,004,358	DESCHAMPS, JEROME	3,004,389
DARGAVILLE, PETER ANDERSON	3,004,643	DE MAN, TEUNIS	3,004,373	DESERTOT, DIDIER	3,003,959
DARKO, GORICANEC	2,997,124	DE MONTFORT UNIVERSITY	2,998,457	DESHAIES, MARTIN	2,995,428
DARLING, JORDAN	3,004,321	DE PAOLI, ORIO	2,996,391	DESHAPRIYA, DINUSHKA	2,997,277
DARVILL, WILLIAM	3,003,976	DE SIENA, DAVIDE	2,998,570	DESHAPANDE, ANIL M.	2,993,312
DAS, AMIT KUMAR	2,996,263	DE SOUSA DIAS, ANA SOFIA VAGUEIRO	2,988,392	DESHAPANDE, SACHIN G.	3,004,582
DAS, AVIJIT	2,995,800	DE SOUSA DIAS, ANA SOFIA VAGUEIRO	2,990,580	DESHAPANDE, SHAILESH	2,997,364
DAS, AVIJIT	2,997,174	DE SOUSA DIAS, ANA SOFIA VAGUEIRO	2,990,588	DESHAPANDE, SHAILESH	2,997,463
DAS, AVIJIT	2,997,207	DE VILLIERS, DAVID	2,994,896	DESILVA, ARAVINDA	3,004,422
DAS, AVIJIT	2,998,722	DE WINTER, LEON	2,989,540	DESJARDINS, DAVID	2,997,734
DAS, SANJIB	2,993,304	DE' LONGHI APPLIANCES S.R.L. CON UNICO SOCIO	2,994,913	DESMOORT, CYRIL	2,999,945
DASSA, LIAT	2,991,980	DE' LONGHI, GIUSEPPE	2,994,913	DESOUSA, RYAN	3,003,986
DATRANGE, LAXMIKANT SHAMLAL	2,996,263	DEAM HOLDING B.V.	2,997,314	DESPAUX, YVAN	3,003,947
DATTA, SUDHIN	3,004,086	DEANGELIS, NIKKI A.	3,004,117	DESROSIERS, JOHN J.	3,004,602
DAUGAN, ALAIN CLAUDE- MARIE	2,998,705	DEANGELIS, NIKKI A.	3,004,134	DESSE, MARIE-LAURE	3,004,343
DAUGHARTHY, EVAN R.	3,004,285	DEANGELIS, NIKKI A.	3,004,138	DEVEAUX, ETIENNE	2,985,559
DAVAIN, LOIC	3,004,825	DEBIOPHARM		DEVINE, GARY	2,992,800
DAVEY, PAUL	2,993,147	INTERNATIONAL SA	2,991,846	DEVINE, GARY	2,992,809
DAVIDSON, BEVERLY L.	3,004,713	DECAESTECKER, MARK	3,003,405	DEVINSKY, ORRIN	2,989,779
DAVIES, CHRISTOPHER	2,993,765	DEDIS, DANIEL	2,998,865	DEVRIES, BRETT, E.	3,004,840
DAVIES, EVAN LLOYD	3,004,370	DEFFRASNES, PHILIPPE	2,992,025	DH TECHNOLOGIES DEVELOPMENT PTE. LTD.	2,989,523
DAVIES, GRAHAM	2,996,368	DEHARO, STEVE	2,993,142	DHALIWAL, KANWALDEEP	3,003,955
DAVIES, MARCUS	2,982,431	DEHNHARDT, CHRISTOPH MARTIN	2,996,389	DHALIWAL, KANWALDEEP	3,003,964
		DEHURTEVENT, MARION	2,985,559	DHANARAJ, SRIDEVI	3,004,521
		DEL PAGGIO, ALAN ANTHONY	3,004,679	DHANARAJ, SRIDEVI	3,004,524
		DEL RIO, FABIEN	2,998,440	DHARMARAJAN, NARAYANASWAMI	3,004,086
		DELANEY, JAMES C.	3,004,790	DHOLAKIA, KISHAN	2,985,139
				DI BENEDETTO, CARMINE	2,997,238
				DIAGNOSTIG LTD	2,990,535
				DIAGNOSTIG LTD	2,991,183
				DIAZ, JOSUE	3,004,052
				DICKEN, YOSEF	2,991,980

## Index of PCT Applications Entering the National Phase

DICKSON, MARION CATHERINE	2,993,288	DSG S.R.L.	2,998,570	EDWARDS LIFESCIENCES CORPORATION	3,004,602
DICTRICH, EVELYNE	2,988,680	DSI GETRANKEARMATUREN GMBH	2,994,584	EDWARDS, MATTHEW JOHN	2,996,635
DIGITROLL KFT.	2,996,102	DU, ZHIYONG	2,989,711	EDWIN, LIONEL E.	3,004,271
DIMBYLOW, STEPHEN ROBERT	2,998,693	DUBOST, BRICE	2,995,655	EDWIN, LIONEL E.	3,004,278
DIMBYLOW, STEPHEN ROBERT	2,998,696	DUBOST, BRICE	2,996,069	EELTEE, HENRIK	2,995,515
DIMBYLOW, STEPHEN ROBERT	2,998,702	DUDLER, THOMAS	3,004,753	EFRAT, TOMER	3,003,979
DIMITROV, DIMITER	3,004,438	DUFTY, RAYMOND JEFFREY	2,994,470	EFTEKHARI, AMIR R.	3,004,284
DING, ZHAOZHONG	3,004,173	DUNHAM, LINDSEY	3,004,622	EHASHI, YUIKO	3,004,286
DIPIETRO, LUCIAN V.	3,003,721	DUNSFORD, MARK	2,996,097	EICHORN, COURTNEY ELAINE	3,004,090
DITTAMORE, RYAN	3,004,150	DUPONT NUTRITION BIOSCIENCES APS	3,004,522	EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH	3,004,382
DITTMER, HAUKE	3,004,806	DUQUERROY, STEPHANE	2,988,499	EIERHOFF, DIRK	3,004,781
DITTRICH, KLEMENS	2,992,323	DURANCE, TIMOTHY D	3,001,046	EIJSMAN, LEON	2,989,540
DIVERSEY, INC.	3,004,511	DURAND, ALAIN	2,990,168	EILBRACHT, CHRISTIAN	3,004,188
DJELASSI, CEDRIK	2,995,326	DURAND, JEAN-DENIS	2,988,625	EINI, MEIR	2,995,794
DO, MANH HUNG PETER	2,981,638	DURDEN CONCEPT SARL	3,004,209	EISAI R&D MANAGEMENT CO., LTD.	3,004,623
DODET, REMY	2,995,476	DUREAU, REMY	3,004,689	EISENFRATS, KEVIN SIMON	3,004,745
DOERSCH, PAUL	3,003,712	DURRANT, LINDY GILLIAN	2,996,436	EISSA, RANIA HAMDI	2,994,616
DOMINGUEZ DE MATOS, ANA LUISA	2,998,289	DUSSAUZE, MARC	3,004,817	EKEMARK, SVEN	2,997,905
DOMINY, STEPHEN S.	3,004,095	DUTT, CHAITANYA	2,997,364	EKMAN, JAAKKO	2,995,022
DONALDSON, BLAIR	3,000,598	DUTT, CHAITANYA THOMAS, JR.	2,997,463 2,990,554	EL-NAAS, MUFTAH	2,995,643
DONDLINGER, JASON	3,004,289	DUTTLINGER, WILLIAM	2,990,554	EL-NAAS, MUFTAH	2,995,646
DONDLINGER, JASON	3,004,608	DUVAL, DEAN LARRY	3,004,074	ELDOLAB HOLDING B.V.	2,984,887
DONECLE	2,989,154	DUVAL, DEAN LARRY	3,004,076	ELEMENTS S.R.L.	2,994,513
DONEGAN, SINEAD	2,989,388	DUVAL, DEAN LARRY	3,004,291	ELGHARIB, MOHAMED ABDELAZIZ A MOHAMED	2,994,514
DONG-A SOCIO HOLDINGS CO., LTD.	2,995,675	DUVAL, DEAN LARRY	3,004,304	ELI LILLY AND COMPANY	3,003,911
DONOHUE, PAUL DANIEL	3,004,757	DVALR, IRA	3,004,318	ELI LILLY AND COMPANY	3,003,914
DONOHUE, ANDREW CRAIG	2,997,519	DWYER, JAMES C.	3,004,388	ELIA, LIRON	2,994,366
DOR, SNIR	2,992,525	DYSON TECHNOLOGY LIMITED	3,004,175	ELIEZER KRAUSZ INDUSTRIAL DEVELOPMENT LTD.	2,996,082
DOREE, JOSE	2,999,947	DYSON TECHNOLOGY LIMITED	2,998,693	ELLIOTT, RONALD P.	2,998,001
DORF KETAL CHEMICALS (INDIA) PRIVATE LIMITED	2,991,180	DYSON TECHNOLOGY LIMITED	2,998,696	ELLIPTICAL THERAPEUTICS, LLC	3,004,364
DOSATRON INTERNATIONAL	2,994,441	DYSON TECHNOLOGY LIMITED	2,998,702	ELSON, CHRISTOPHER JOHN	2,998,273
DOTZAUER, DAVID	3,004,336	DYSON TECHNOLOGY LIMITED	3,003,976	EMBODY ORTHOPAEDIC LIMITED	3,004,404
DOTZEL, RALF	2,996,373	DYSON TECHNOLOGY LIMITED	3,003,976	EMBODY ORTHOPAEDIC LIMITED	3,004,406
DOUGLAS, PRAGASH	2,998,277	DYSON TECHNOLOGY LIMITED	3,003,976	EMBODY ORTHOPAEDIC LIMITED	3,004,409
DOVADOLA, MASSIMO	3,004,860	DYSON TECHNOLOGY LIMITED	3,003,976	EMMANUEL, NANTHAKUMAR VICTOR	3,004,329
DOW GLOBAL TECHNOLOGIES LLC	2,996,291	DYSON TECHNOLOGY LIMITED	2,990,570	EMMERSON, GREGORY DANIEL	2,994,501
DOW GLOBAL TECHNOLOGIES LLC	3,004,207	DYSON TECHNOLOGY LIMITED	2,991,464	EMOPTI, INC.	3,004,601
DOW GLOBAL TECHNOLOGIES, LLC	3,003,595	DYSON TECHNOLOGY LIMITED	2,994,791	ENCYCLE THERAPEUTICS, INC.	3,004,641
DOWD, ERIC	3,004,476	DYSON TECHNOLOGY LIMITED	2,995,099	ENCYCLE THERAPEUTICS, INC.	3,004,714
DOWN, MATTHEW	3,004,678	DYSON TECHNOLOGY LIMITED	3,003,553	ENDO ARRIAGADA, ALVARO ENRIQUE	3,004,131
DOWNHOLE TECHNOLOGY, LLC	3,004,370	DYSON TECHNOLOGY LIMITED	3,004,521	ENDO, ATSUSHI	3,004,623
DRAGIC, ZORICA	2,995,795	DYSON TECHNOLOGY LIMITED	3,004,524	ENDOSPAN LTD.	3,004,821
DRAK, ALEX	3,003,979	DYSON TECHNOLOGY LIMITED	3,004,713	ENEV, MIROSLAV	3,004,832
DRAKA COMTEQ BV	2,990,558	DYSON TECHNOLOGY LIMITED	2,990,022	ENGEL, ANDREA	3,004,615
DRAKE, ANDREW W.	2,991,980	DYSON TECHNOLOGY LIMITED	3,004,328	ENGELBERG, ALEX BENJAMIN	2,998,295
DRAKE, JAN	2,998,295	DYSON TECHNOLOGY LIMITED	2,997,677		
DRAKE, PENELOPE M.	3,004,584	DYSON TECHNOLOGY LIMITED	3,004,616		
DRANOFF, GLENN	3,004,148	DYSON TECHNOLOGY LIMITED	2,990,554		
DRAPER, BENJAMIN OWEN	2,993,746	DYSON TECHNOLOGY LIMITED	3,004,295		
DRENCKO, JIRI	2,997,633	DYSON TECHNOLOGY LIMITED	3,004,336		
DREYON, NICOLAS	3,004,359	DYSON TECHNOLOGY LIMITED	3,004,336		
DS SMITH PACKAGING LTD	3,003,959	DYSON TECHNOLOGY LIMITED	3,004,336		
		DYSON TECHNOLOGY LIMITED	3,004,192		
		DYSON TECHNOLOGY LIMITED	2,998,066		
		DYSON TECHNOLOGY LIMITED	2,989,976		
		DYSON TECHNOLOGY LIMITED	2,990,764		
		DYSON TECHNOLOGY LIMITED	2,987,198		



## Index des demandes PCT entrant en phase nationale

ENGELN, STEVEN	3,004,624	EXXONMOBIL CHEMICAL		FELISA, GIUSEPPE	2,998,710
ENGERT, STEPHEN DAVID	2,993,896	PATENTS INC.	3,004,316	FELIZ MATOS, LEANDRO	
ENI S.P.A.	2,993,913	EXXONMOBIL CHEMICAL		EDGARDO	3,004,376
ENI S.P.A.	3,004,472	PATENTS INC.	3,004,320	FEMTOGENIX LIMITED	2,996,406
ENICKL, JORGEN	3,003,910	EXXONMOBIL CHEMICAL		FEMTONICS KFT	2,994,903
ENNETT-SHEPARD,		PATENTS INC.	3,004,322	FENG, CHAOYANG	2,999,904
ALESSANDRA B.	3,003,914	EXXONMOBIL CHEMICAL		FENG, YING	3,003,422
ENSCO SERVICES LIMITED	2,996,388	PATENTS INC.	3,004,324	FENIX ADVANCED	
ENSOL BIOSCIENCES INC.	2,992,971	EXXONMOBIL CHEMICAL		TECHNOLOGIES,	
ENWAVE CORPORATION	3,001,046	PATENTS INC.	3,004,330	LIMITED	3,004,430
EOFF, LARRY STEVEN	3,004,403	EXXONMOBIL CHEMICAL		FERAILLE, THIERRY	2,990,175
EPIC SCIENCES, INC.	3,004,150	PATENTS INC.	3,004,332	FERAUD, BENJAMIN	2,998,054
EPIGENETICS LTD	3,003,982	EXXONMOBIL RESEARCH		FERENC, STEPHEN DANIEL	3,004,591
ERDEI, CSABA	2,996,102	AND ENGINEERING		FERGUSON, ANDREW M.	2,995,151
EREMINA, OLGA	2,994,508	COMPANY	3,004,068	FERLAZZO, MELANIE	2,994,914
EREMINA, OLGA	2,994,511	EXXONMOBIL RESEARCH		FERNANDES, BOSCO	2,993,137
ERGANG, NICHOLAS	3,004,295	AND ENGINEERING		FERNANDEZ, JOSE ALONSO	2,985,959
ERICKSON, ROBERT	3,004,782	COMPANY	3,004,156	FERRANDO, PATRIZIA	3,004,247
ERICSSON, OLOF JOHN	2,993,914	EYEWAY VISION LTD.	2,997,086	FERRANTE, CATHERINE	3,004,117
ERIKSSON, ERIK	3,004,181	F. HOFFMANN-LA ROCHE AG	3,002,886	FERRANTE, CATHERINE	3,004,134
ERIKSSON, ERIK	3,004,662	F. HOFFMANN-LA ROCHE AG	3,004,199	FERRANTE, CATHERINE	3,004,138
ERIKSSON, JAN	3,004,477	F. HOFFMANN-LA ROCHE AG	3,004,799	FERRIER, DAVID	2,991,677
ERNI PRODUCTION GMBH &		F2G LIMITED	2,991,684	FEW, SIMON	2,995,424
CO. KG	2,996,227	FABER, BEN	3,004,081	FIELD, DANIEL W.	2,994,364
ERNST, ANDREAS	2,996,918	FABIEN, SIMON	3,004,825	FINFER, DANIEL	2,994,208
ESCALONA, OMAR JACINTO	2,993,759	FACC AG	2,998,192	FINNEMORE, DANIEL JOHN	2,995,902
ESCOBAR, MARC VENDRELL	3,003,955	FAHIMA, MOSHE	2,986,527	FINNEMORE, DANIEL JOHN	2,995,909
ESCOBAR, MARC VENDRELL	3,003,964	FAHIMA, MOSHE	2,987,183	FINNERTY, JACK	3,004,620
ESHEL, YOCHAY SHLOMO	2,998,829	FAHIMA, MOSHE	2,987,198	FIORETTI, DANIELE	2,998,710
ESMIEU, WILLIAM RAMESH	2,991,273	FAHRINGER, ALBERT	2,982,798	FIRESTONE BUILDING	
ESPE, EIRIK	2,997,901	FAINGOLD, OMRI	3,004,521	PRODUCTS CO., LLC	3,004,525
ESSILOR INTERNATIONAL	3,003,980	FAINGOLD, OMRI	3,004,524	FIRST HEALTHCARE	
ETABLISSEMENT FRANCAIS		FAIRMOUNT SANTROL INC.	3,004,312	COMPLIANCE, LLC	3,004,309
DU SANG	2,998,057	FAIRMOUNT SANTROL INC.	3,004,315	FIRST QUALITY	
ETHICON, INC.	3,004,272	FAIRWEATHER, ALAN	2,996,785	NONWOVENS, INC.	3,004,619
ETHICON, INC.	3,004,521	FAIVELEY TRANSPORT		FIRTH, PHILIP MALCOLM	2,998,010
ETHICON, INC.	3,004,524	TOURS	2,992,837	FISCHER, DAVID	2,996,025
ETHRIDGE, ANDREW DAVID	3,004,049	FALCONE-POTTS, SUSAN K.	3,004,207	FISCHER, DAVID	2,996,028
EURECAT S.A	3,004,616	FALLAHMOHAMMADI,		FISCHER, DOMINIK	2,995,656
EURO-CELTIQUE S.A.	2,994,103	EHSAN	3,004,473	FISCHER, TIMOTHY	3,004,601
EURO-CELTIQUE S.A.	2,994,109	FALLGREN, PAUL	3,003,464	FISCHER, WALTER	2,996,373
EVANS, CHARLES RODNEY		FANG, HSIAO-PING	2,994,217	FISHER, BART A.	3,004,514
GREENAWAY	3,004,191	FANG, MIN	2,998,871	FISHER, DAVID	2,990,997
EVANS, CHRISTOPHER M.	3,004,316	FANGET, ALAIN	3,004,694	FISHER, DAVID E.	3,004,425
EVARTS, JERRY	2,991,096	FAOTTO, UGO	2,994,513	FISMEN, BRITTA	2,989,775
EVOLVA SA	2,996,025	FARGIN, EVELYNE	3,004,817	FITCH, ALISTAIR	2,989,515
EVOLVA SA	2,996,028	FARHADIROUSHAN,		FITZBIONICS LIMITED	2,993,139
EVONIK DEGUSSA GMBH	3,004,188	MAHMOUD	2,994,208	FITZPATRICK, NOEL	2,993,139
EVONIK TECHNOCHEMIE		FARHAT, LAWRENCE	3,004,489	FITZSIMMONS, KAREN C.	3,004,747
GMBH	3,004,615	FARKAS, JULIUS	3,004,122	FIVE PRIME THERAPEUTICS,	
EWERT, STEFAN	2,990,764	FARKAS, JULIUS	3,004,154	INC.	3,004,794
EWOS INNOVATION AS	2,997,521	FARLEY, MARK	2,992,952	FJAELLSKOG, MARIE-LOUISE	2,991,857
EXACT IMAGING, INC.	3,004,657	FARRER, BRIAN T.	3,004,492	FJELDHEIM, IVAR	3,004,014
EXXONMOBIL CHEMICAL		FAUCHER, NICOLAS ERIC	2,998,705	FJELDHEIM, IVAR	3,004,208
PATENTS INC.	3,004,086	FEBBO, FRANCO	2,995,085	FJELDHEIM, IVAR	3,004,533
EXXONMOBIL CHEMICAL		FEBUS OPTICS	3,004,394	FLAK LIMITED	2,996,471
PATENTS INC.	3,004,293	FEDELE, PASQUALE	3,001,961	FLEMING, JONATHAN	3,004,761
EXXONMOBIL CHEMICAL		FEDERAL-MOGUL		FLEXIBLE STEEL LACING	
PATENTS INC.	3,004,298	MOTORPARTS LLC	3,004,314	COMPANY	3,004,840
EXXONMOBIL CHEMICAL		FEDERAL-MOGUL		FLEXIWAGGON AB	3,004,477
PATENTS INC.	3,004,303	MOTORPARTS LLC	3,004,317	FLEXSTEEL PIPELINE	
EXXONMOBIL CHEMICAL		FEE, LILY LEUNG	3,004,782	TECHNOLOGIES, INC.	3,004,049
PATENTS INC.	3,004,308	FEGER, DAMIEN	2,986,189	FLIK, GUNNAR	3,001,981
		FEIRE, ADAM LLOYD	2,995,795	FLO, RUNE	2,997,901

## Index of PCT Applications Entering the National Phase

FLOOD, LAWRENCE	3,004,178	FRESENIUS MEDICAL CARE HOLDINGS, INC.	3,004,193	GANSER, CHRISTOPHER	3,004,007
FLOYD, BRIAN LEE	3,004,483	FRESENIUS MEDICAL CARE HOLDINGS, INC.	3,004,461	GANTRY RAILING LTD	2,993,896
FM MARKETING GMBH	3,004,516	FRIEH, MICHAEL	2,995,331	GAO, CHENG	3,004,142
FM MARKETING GMBH	3,004,519	FRIEH, MICHAEL	2,995,333	GAO, HONGLEI	2,998,871
FOAMIX PHARMACEUTICALS LTD.	2,995,794	FRIEL, MICHAEL	3,004,674	GAO, HUA-XIN	2,994,790
FOKS, NATHAN	2,994,789	FRIES4ALL B.V.	2,989,540	GAO, HUA-XIN	2,994,910
FONCY, JULIE	3,000,291	FRIJLINK, HENDERIK WILLEM	3,001,981	GAO, SHIWEI	3,004,405
FONSECA FERREIRA DA SILVA, RUI PEDRO	2,995,433	FRODSHAM, MICHAEL	3,002,493	GAO, YUANGANG	2,989,846
FORNEY, DIRK	3,004,151	FU, RICHARD	3,004,336	GARATE MUTILOA, ZITA MAITE	3,004,171
FORAY, NICOLAS	2,993,871	FUGRO TECHNOLOGY B.V.	2,997,208	GARBAS, JENS-UWE	2,996,918
FORAY, NICOLAS	2,994,914	FUJIEDA, YUKA	3,004,257	GARBAY, GUILLAUME	2,994,246
FORBUS, THOMAS REGINALD	3,004,788	FUJIFILM SONOSITE, INC.	3,004,354	GARCIA RIVAS, GERARDO DE JESUS	2,998,291
FORMAN, STEPHEN J.	3,004,299	FUJIFILM SONOSITE, INC.	3,004,356	GARCIA, FREDERIC	2,998,440
FORMAN, STEPHEN J.	3,004,306	FUJIKURA LTD.	3,004,845	GARDNER, ANDREW	2,982,431
FORNONI, GIANLUIGI	2,997,238	FUJITA, SHINYA	2,995,053	GARDNER, ANDREW	2,984,465
FORRESTAL, DAVID PETER	3,004,109	FULPER, LESTER DAVID	3,004,302	GARIN ROTONDARO, INAKI JOSE	2,992,682
FORSBOM, JAN	2,996,089	FUMEY, WILLIAM	3,004,792	GARVEY, GRAEME S.	3,004,752
FOSMER, ARLENE M	3,004,176	FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO)	2,996,233	GARVIN, ROY	2,997,681
FOSTER, JOHN	3,002,886	FUNDACION INSTITUTO DE INVESTIGACION SANITARIA FUNDACION JIMENEZ DIAZ	3,004,171	GAS EXPANSION MOTORS LIMITED	2,995,424
FOTHERGILL, ALAN	3,003,958	FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL DE LA PRINCESA	2,995,021	GAS MEASUREMENT INSTRUMENTS LIMITED	2,991,299
FOURNET, ARNAUD	2,990,175	FUSSL, JOSEF	2,990,022	GASCHINO, PAOLO	2,991,854
FOWLER, DREW A.	3,004,706	G.E. LEBLANC INC.	2,993,906	GASKIN, GRAHAM	2,993,160
FOXON, STEVE	2,993,501	GABRIS, PETER	2,996,488	GASSECCURE AS	2,989,775
FRADIN, OLIVIER	2,993,488	GACHISOFT INC.	2,989,287	GASTEL, PHILIPP	3,004,380
FRAMATOME GMBH	3,004,353	GADE, NAGIREDDY	2,989,187	GATARD, EMMANUEL	2,986,053
FRANCA, MARCOS PINI	3,003,595	GAGEZ, ANNE-LAURE	2,988,781	GATES CORPORATION	3,003,879
FRANCHET, JEAN-MICHEL PATRICK MAURICE	3,004,391	GAGGIONE SAS	2,993,490	GATLAND, ALICE ELIZABETH	2,995,902
FRANCHI, ALESSANDRO	3,003,993	GAJ-JABLONSKI, WOJCIECH	2,997,102	GATLAND, ALICE ELIZABETH	2,995,909
FRANCIS, CHRISTOPHER JOHN	2,994,910	GALAPAGOS NV	2,991,273	GAUDRIAULT, GEORGES	3,004,849
FRANCIS, MARK JONATHAN	2,991,845	GALE, TIMOTHY JOHN	3,004,643	GAUHAROU, FRANCOIS	2,998,440
FRANCIS, W. LOREN	3,004,526	GALECTO BIOTECH AB	3,004,632	GAVRIN, LORI KRIM	2,995,153
FRANCK, JAN	2,982,419	GALETTO, ROMAN	3,004,171	GAVRIN, LORI KRIM	2,996,389
FRANCOIS, EDOUARD	3,004,793	GALINSKI, JOHN	2,996,256	GAWRACKZYNSKI, JAKUB HENRYK	2,998,293
FRANCOIS, JEAN-MARIE	3,000,291	GALLANT, MICHEL	2,988,680	GAYLE, SOPHIA	3,004,636
FRANJIC, KRESIMIR	2,991,198	GALLASCH, CLAUDIO	3,004,365	GAZZANI, MATTEO	3,004,186
FRANKE, SANDRA	2,997,308	GALLEGOS, LISA	3,004,504	GE JENBACHER GMBH & CO OG	2,982,798
FRANZ, SERGEJ	3,004,805	GALLIEN, RENE	2,995,428	GE JENBACHER GMBH & CO OG	3,004,162
FRANZONI, LUIGI	3,004,860	GALLOWAY, JAMES	3,004,521	GE LIGHTING SOLUTIONS, LLC	2,998,871
FRASER, ANTHONY HENRY JOSEPH	2,992,817	GALLOWAY, JAMES	3,004,524	GE LIGHTING SOLUTIONS, LLC	3,004,325
FRASER, GORDON GERALD DONALD	3,004,164	GALVANI BIOELECTRONICS LIMITED	2,996,252	GEA TDS GMBH	3,004,119
FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	2,997,308	GALVIN, GABRIAL M.	3,004,275	GEARHART, NICHOLAS C.	3,004,623
FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	3,004,363	GAMASTECH S.R.L.	2,994,058	GEBKE, KEVIN J.	3,004,141
FREE FORM FACTORY INC.	3,004,321	GAMBLE, RICHARD	2,997,174	GEBO PACKAGING SOLUTIONS FRANCE	2,995,876
FREEDMAN, ALIX MICHAEL	3,004,739	GAMBLE, RICHARD	2,998,722	GEDIN, PATRICE	2,998,054
FREITAG, NICOLE	3,004,781	GANAPATHIRAJU, ARAVIND	3,004,700	GEICO SPA	2,996,394
FREIZUS, NATALY	3,004,521	GANAPATHY, RAVI	2,989,187	GEICO SPA	2,996,442
FREIZUS, NATALY	3,004,524	GANDEMO, TOMAS	3,004,355	GELLINER LIMITED	2,994,896
FRENNE, MATTIAS	3,004,405	GANNON, GARY	2,996,256	GENENTECH, INC.	3,004,348
FRESENIUS KABI ONCOLOGY LTD.	2,996,258			GENERAL CABLE TECHNOLOGIES CORPORATION	3,004,844

## Index des demandes PCT entrant en phase nationale

GENERAL ELECTRIC TECHNOLOGY GMBH	3,004,694	GLAXOSMITHKLINE CONSUMER HEALTHCARE HOLDINGS (US) LLC	3,004,746	GNAPPA, MAURIZIO	3,004,379
GENERAL MILLS, INC.	3,004,782	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,990,474	GODFREY, JOHN	3,004,667
GENOMEFRONTIER THERAPEUTICS, INC.	3,004,665	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,993,753	GODIL, HASRAT	3,004,098
GEORGE, OLIVIER	3,004,366	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,993,758	GOEBEL, ERIK SCOTT	3,003,397
GERARD, BAUDOIN	3,004,623	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,998,705	GOEL, KARNIKA	3,004,511
GERBER TECHNOLOGY, INC.	3,004,106	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	3,004,492	GOFFARD, NICOLAS	2,993,142
GERBER, GEORG	3,003,908	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,988,373	GOFFE, RANDAL A.	3,004,079
GERDES, JOSEPH CHRISTIAN	3,004,051	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,998,374	GOJARA	3,004,779
GERGES, IRINI	2,997,384	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,635	GOLDBERG, JOEL ADAM	2,995,153
GERMANAUD, LAURENT	2,997,494	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,999,615	GOLDMAN SACHS & CO. LLC	2,994,055
GERSTNER, RAIMUND	3,003,595	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLDMAN, DANIEL	3,004,350
GERVAIS, THAN MARC-ERIC	2,989,785	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLDSTEIN, DAVID	3,004,536
GERVAIS, THAN MARC-ERIC	2,992,930	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLEBIOWSKI, ADAM A.	2,997,382
GETTO, ANDREW	3,004,518	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLLAN, TAL	3,004,513
GEUMEZ, GILLES JEAN	3,004,784	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLLAPUDI, SRIKANT	3,004,003
GEYER, CHRISTOPHER	3,004,711	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOLLER, HANS PETTER	3,004,809
GFESSER, GREGORY A.	2,991,273	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOMEZ DE LA OLIVA, CRISTINA ANA	2,996,233
GHARAT, LAXMIKANT ATMARAM	2,993,304	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOMEZ-MARTINEZ, JULIEN	2,998,057
GHODDUSI, MAJID	3,004,794	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONDRALA, PAVAN KUMAR	2,997,531
GHOSH, SHOMIR	3,004,747	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONZALEZ JIMENEZ, INES DACIL	2,988,392
GHOSH, SHOMIR	3,004,796	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONZALEZ, JUAN M.	3,004,722
GHOSH, SHOMIR	3,004,798	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONZALEZ, JUAN M.	3,004,737
GHOSH, SOUMYAJIT	2,998,830	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONZALEZ, JUAN M.	3,004,740
GHST WORLD INC.	3,004,682	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GONZENBAUCH, URS T.	2,997,520
GIBER, JANOS	2,998,822	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOODMAN, JAMES	2,993,279
GIBSON, PAUL	2,986,657	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOOGLE LLC	3,004,633
GIBSON, SARAH PAIGE	3,004,262	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORAWARA, JAYANT K.	3,004,459
GIESE, WILLIAM	3,004,726	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORDEYEV, SERGEY	3,004,816
GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH	3,004,123	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORDON, RAPHAEL	2,992,949
GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH	3,004,124	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORDON, THOMAS A.	3,004,106
GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH	3,004,125	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORDON-KAMM, WILLIAM JAMES	3,004,056
GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH	3,004,778	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORE, ASA	2,994,916
GILEAD APOLLO, LLC	3,004,747	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORE, VINAYAK	2,998,830
GILEAD APOLLO, LLC	3,004,796	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GORILOVSKY, DMITRY	2,997,119
GILEAD APOLLO, LLC	3,004,798	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOSSNER, MATTHAUS	3,004,385
GILEWSKI, TOMASZ EDWARD	2,998,293	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOTE, GANESH NAVINCHANDRA	2,996,263
GILL, SAAR	3,004,053	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOTTSTEIN, THOMAS	3,004,615
GILLARD, JAMES	3,004,641	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOUBLE, AGNES	3,004,171
GILLARD, JAMES	3,004,714	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOUSSEAU, GEORGES	2,997,996
GILLISSEN, MARIJN ALETTA	2,989,551	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GOYON, ANNABELLE	2,997,602
GIORDANO, DARIO	3,004,247	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAHAM, LEWIS	3,004,396
GIOVANNINI, CRISTIAN	3,004,860	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAHAM, SUSAN	3,004,514
GIRAUDON, PATRICK	2,993,092	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAIS, LINDA S.	3,004,331
GIROUD, PASCAL	2,997,996	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAMPASSI, ENRICO	2,993,130
GIVENS, RICHARD	3,003,720	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRANKA, JULIE M.	2,991,230
GJERDEVIK, OYSTEIN	3,004,208	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRANROTH, MARTEN NILS RICKARD	3,004,129
GLASSTECH, INC.	3,003,717	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRANT, GEORGE	2,988,657
GLASSTECH, INC.	3,003,901	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRANT, GEORGE	2,988,686
GLAVIN, GEORGE	3,004,290	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRANT, GEORGE	2,988,695
GLAXO GROUP LIMITED	2,993,288	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAOVAC, MILAN	3,004,649
GLAXOSMITHKLINE BIOLOGICALS SA	2,994,790	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAPHENEST, S.A.	2,995,433
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAPHIC PACKAGING INTERNATIONAL, LLC	3,004,182
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRASSO, BARTON D.	2,996,388
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRATSIAS, SPIROS	3,004,474
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAVELLE, LISE	3,004,632
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GRAVES, III, ALAN PETERSON	2,990,474
		GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO.2) LIMITED	2,994,910	GREBENKAMPER, KAI	3,004,505

## Index of PCT Applications Entering the National Phase

GREE ELECTRIC		GUJRAL, CHIRAG	3,004,381	HALL, ANITA J.	3,004,782
APPLIANCES,INC.OF		GULDOGAN, OLCAY	2,994,511	HALL, THOMAS JON	2,990,326
ZHUHAI	3,004,143	GULLBERG, DANIEL	2,992,973	HALL-SNYDER, NATHANIEL	3,003,712
GREEN, GUERRY E.	3,004,456	GUMERY, PIERRE-YVES	2,995,343	HALLIBURTON ENERGY	
GREENBERG, BORIS	2,997,086	GUNASEKERA, KANCHANA	2,997,277	SERVICES, INC.	2,993,913
GREENBONE ORTHO S.R.L.	2,994,049	GUNASINGHE, CHAMIKA	2,997,277	HALLIBURTON ENERGY	
GREENE, NANCY M.	2,985,299	GUNNERUD, VIDAR	3,004,157	SERVICES, INC.	3,003,868
GREENWOOD, JEREMY		GUNNINK, JAN WILLEM	2,998,714	HALLIBURTON ENERGY	
ROBERT	3,004,747	GUNNINK, SIMON	2,998,714	SERVICES, INC.	3,004,255
GREENWOOD, JEREMY		GUO, JILONG	2,989,841	HALLIBURTON ENERGY	
ROBERT	3,004,796	GUO, JINHAI	2,981,869	SERVICES, INC.	3,004,260
GREENWOOD, JEREMY		GUO, LEI	2,983,925	HALLIBURTON ENERGY	
ROBERT	3,004,798	GUO, WENPING	2,981,869	SERVICES, INC.	3,004,403
GREINER BIO-ONE GMBH	2,996,056	GUO, WENYAN	3,004,374	HALLIBURTON ENERGY	
GRENZEBACH		GUO, XIN	3,003,937	SERVICES, INC.	3,004,413
MASCHINENBAU GMBH	2,994,734	GUO, XIN	3,003,951	HALLIBURTON ENERGY	
GRENZEBACH		GUO, XIN	3,004,187	SERVICES, INC.	3,004,604
MASCHINENBAU GMBH	2,994,764	GUPTA, ASHUTOSH KUMAR	3,004,420	HALLIBURTON ENERGY	
GRESTENBERGER, GEORG	3,004,383	GUPTA, CHANDAN KUMAR	2,996,258	SERVICES, INC.	3,004,706
GRESZLER, STEPHEN N.	2,991,273	GUPTA, KAPIL	2,996,635	HALLIBURTON ENERGY	
GRIEPENSTROH, SEBASTIAN	2,985,018	GUPTA, MANISH	2,996,400	SERVICES, INC.	3,004,709
GRIES, GERHARD J.	3,004,090	GUPTA, MANISH	2,996,401	HALTTUNEN, SAKARI	2,995,032
GRIFFITH, NATHAN C.	3,004,443	GUPTA, MANISH	2,996,402	HAM, SUNG SEEK	2,988,214
GRIFFITH, NATHAN C.	3,004,447	GUPTA, MANISH	3,004,047	HAMAIN, FREDERIC	2,990,337
GRIFFITHS, GRAHAM	3,004,107	GUPTA, NISHANT		HAMEDINGER, THOMAS	3,004,384
CHARLOTTE MARY	2,988,373	RAMNIWASJI	2,991,232	HAMIDE, MAKHLOUF	3,004,528
GRINSVEN VAN, BART		GUPTA, NITIN	2,996,258	HAMMONS, JOHN LEE	3,004,463
ROBERT NICOLAAS	3,004,786	GUPTA, RAM	3,004,178	HAMREN, SARAH	2,994,518
GRIZOT, SYLVESTRE	3,004,849	GUPTA, RAMESH CHANDRA	2,997,463	HAMRICK, DANIEL R.	3,003,907
GROCHALA, WOJCIECH		GUPTA, RAMESHCHANDRA	2,997,364	HAN, MYUNG JOO	2,998,841
RAFAL	2,998,293	GUPTA, SAMIK	2,993,131	HAN, MYUNG JOO	2,998,877
GROSS, GABRIELE	3,004,062	GURU, SANTOSH KUMAR	3,004,534	HAN, SEUNGIL	2,996,389
GROSSEGER, DANIEL	2,990,022	YOGANAND	2,993,131	HAN, YOUNGHUE	2,993,918
GROSSMAN, JAMES	2,994,364	GUSMEROLI, MARILENA	2,999,425	HAN, YOUNGHUE	2,993,929
GROTHER, HINRICH	2,990,022	GUY, GEOFFREY	2,989,779	HAN, YOUNGJI	2,996,872
GROTHOFF, AXEL	3,004,806	GUY, GEOFFREY	2,995,927	HANDA, VISHAL	2,996,258
GROVER, LIAM MICHAEL	2,990,326	GW PHARMA LIMITED	2,992,802	HANDLE, FLORIAN	2,990,022
GRUDIN, OLEG	3,004,445	GW PHARMA LIMITED	2,995,927	HANDLER, WILLIAM	
GRUETZNER, THOMAS	3,004,503	GW RESEARCH LIMITED	2,989,779	BRADFIELD	3,004,214
GRUMPE, HEINZ-ULRICH	3,004,781	GWAK, DAL-YONG	2,994,688	HANDS, PHILIP J.W.	2,991,677
GRUTER, GERARDUS		GWENIN, CHRISTOPHER		HANEKAMP, DAVID A., JR.	3,004,282
JOHANNES MARIA	2,990,580	DAVID	2,990,535	HANISCH, MARKUS	3,004,357
GRUTER, GERARDUS		GWENIN, CHRISTOPHER		HANMI PHARM. CO., LTD.	2,991,107
JOHANNES MARIA	2,990,588	DAVID	2,991,183	HANMI PHARM. CO., LTD.	2,999,823
GRUTER, GERARDUS		GYLFASON, KRISTINN B.	2,990,947	HANNA, COLIN SAMUEL	2,997,679
JOHANNES MARIA	2,995,560	GYORI, MARTON G.	3,003,719	HANNA, SAMUEL COLIN	2,998,712
GTM-ADVANCED PRODUCTS		H2FUEL CASCADE B.V.	3,004,400	HANNEL BUELONI, RENATA	3,004,468
B.V.	2,998,714	H2FUEL-SYSTEMS B.V.	3,004,393	HANSEN, BRIAN G.	3,004,253
GUAN, BEN	3,004,693	HA, HONG KI	2,997,396	HANSEN, ERIC ANTHONY	3,004,531
GUAN, YUNFENG	3,004,650	HA, NAM	2,989,191	HANSEN, ERIC ANTHONY	3,004,589
GUAN, ZHICHUAN	3,004,693	HA, ROBERT BAO KIM	3,004,606	HANSEN, PAL FRANCIS	3,004,699
GUARDADO-CALVO, PABLO	2,988,499	HAAG-MOLKENTELLER,		HANTHORN, JASON J.	3,004,729
GUDIMETLA, DHARMENDRA	3,004,345	CORNELIA C.	3,004,453	HAO, XIUJUAN	3,004,469
GUENAI, MIKAEL	2,990,763	HAAKENSON, WILLIAM P.,		HARALDSSON, CHRISTINA	2,992,973
GUERBET	3,004,808	JR.	3,004,747	HARANDI, MOHSEN N.	3,004,156
GUERREIRO, NELSON	2,991,715	HADLER, AMELIA	3,004,081	HARDE, RAJENDRA LAXMAN	2,993,304
GUERRY, PATRICIA	3,004,305	HAFIZOVIC, INES	3,003,966	HARDING, DEBORAH	
GUICHEUX, JEROME	3,004,192	HAFNER, JENS	3,004,814	PHYLLIS	2,994,103
GUILLAUD, XAVIER	2,994,372	HAGI, AKIFUMI	3,004,398	HARDING, DEBORAH	
GUILLEMOT, FRANCOIS	2,995,345	HAHN, DUSTAN	3,004,440	PHYLLIS	2,994,109
GUIMIOT, YVES	2,989,785	HAID, SIBYLLE	3,004,805	HARDY, JAMES	3,004,428
GUIMIOT, YVES	2,992,930	HALABE, VIJAYA	3,004,112	HARINGER, CHRISTOPH	3,004,200
GUISOT, NICOLAS	2,998,796	HALDOR TOPSOE A/S	3,004,129	HARISUTHAN,	
				SUBRAMANIAM	3,004,649

## Index des demandes PCT entrant en phase nationale

HARKIN, DENIS PAUL	2,989,388	HEIGHTMAN, THOMAS DANIEL	2,988,374	HILHORST, GERRIT ANTHON RENE	2,989,390
HARKIN, DENIS PAUL	2,993,142	HEIJMAN, GERTJAN	2,990,007	HILL, AXEL	3,004,353
HARRIMAN, GERALDINE C.	3,004,747	HEIM, FRANK	3,004,141	HILL, DONALD	3,004,434
HARRIMAN, GERALDINE C.	3,004,796	HEIN, JOHN	2,992,817	HILL, LAURA	2,989,388
HARRIS, THOMAS	2,997,661	HEISKANEN, ISTO	2,994,388	HILL, LAURA A.	2,993,142
HARRISON, ROBERT MARK	3,004,405	HEISKANEN, ISTO	2,995,435	HILLIAHO, ESA	3,004,045
HART, NORTON RICHARD	3,004,302	HEISKANEN, ISTO	2,995,437	HILLIER, STEPHEN JOHN	2,993,160
HARTING ELECTRIC GMBH & CO. KG	2,981,760	HEISKANEN, ISTO	2,995,478	HILTON, CHRIS	3,004,290
HARTING ELECTRIC GMBH & CO. KG	2,981,922	HELAL, CHRISTOPHER JOHN	2,989,456	HINOJOSA, CHRISTOPHER	3,004,274
HARTING ELECTRIC GMBH & CO. KG	2,985,018	HELAN, RADEK	3,002,593	HIRAISHI, KATSUYA	3,004,153
HARVEY, JOHN	2,989,673	HELF, GERD	3,003,961	HIROKANE, YOSHIO	3,004,245
HARVEY, RICHARD W.	3,004,317	HELMHOLTZ-ZENTRUM FUR INFEKTIONSFORSCHUNG GMBH	3,004,805	HIROKANE, YOSHIO	3,004,252
HASLETT, CHRISTOPHER	3,003,955	HELSING, TORSTEN	3,001,310	HIRSCHBERG, JOSEPH	2,989,991
HASLETT, CHRISTOPHER	3,003,964	HELSINGIN YLIOPISTO	2,996,969	HIRSCHMANN, THOMAS	2,996,373
HASSE, HANS	3,004,503	HEMMIG, RENE	2,996,635	HIRSON, DESMOND	3,004,356
HASSIEPEN, ULRICH	2,990,764	HENCK, STEVEN	3,002,886	HISHIKAWA, SATORU	3,004,371
HATSCH, ANAELLE	2,996,025	HENNIGHAN, GARETH	2,986,357	HJORT, ERIK	3,004,355
HATSCH, ANAELLE	2,996,028	HENRICHS, VOLKER	3,004,357	HOANG, MARC	3,004,168
HATTORI, MASANAO	3,000,121	HENRY, STEPHEN	3,004,107	HOBBAEK, THOR CHRISTIAN	2,989,775
HAUBST, NICOLE	2,996,635	HENZLER, MAGNUS	2,996,227	HOBLEY, LAURA	2,995,438
HAUF, REINER	2,988,636	HEPTARES THERAPEUTICS LIMITED	2,993,484	HODGES, GREG	2,996,023
HAUSER, JONAS	3,004,043	HEPTARES THERAPEUTICS LIMITED	2,994,143	HODSON, JONATHAN	3,004,430
HAUSER, JONAS	3,004,044	HEPTARES THERAPEUTICS LIMITED	2,994,203	HODSON, SIMON	3,004,430
HAUSER, JONAS	3,004,046	HEPWORTH, DAVID	2,996,389	HOENER, MARIUS	3,004,799
HAVERHALS, LUKE	3,003,904	HERBERT, RHYS	3,004,466	HOFKO, BERNHARD	2,990,022
HAWORTH, BRAD	2,997,514	HERFURTH, DOMINIK	3,003,928	HOGNALAND, INGVAR	3,004,014
HAWORTH, DANIEL NICHOLAS	3,004,130	HERLEV HOSPITAL	2,998,789	HOGNALAND, INGVAR	3,004,208
HAY, GARY	3,004,109	HERMBUSCHE, GUNTER	3,004,377	HOGNALAND, INGVAR	3,004,533
HAYAKAWA, YASUYUKI	3,004,286	HERNANDEZ BRENES, CARMEN	2,998,291	HOLAN, KRISTINA HENKEL	3,004,604
HAYES, WAYNE CORD	2,991,169	HERNANDEZ HIGUERAS, ANA ISABEL	2,996,233	HOLCIM TECHNOLOGY LTD	3,004,824
HAYES, WAYNE CORD	2,991,293	HERNANDEZ, MARYLENS	3,004,636	HOLDEN, DAVID JOHN	3,004,511
HAYTON, CARL MARTIN	2,992,919	HERNANDEZ, MARYLENS	3,003,414	HOLDYNSKI, ZBIGNIEW	3,000,156
HAZEL, PAUL	3,004,803	HERON, HOWARD	2,997,494	HOLLAND, TROY VERNON	3,004,158
HAZENBERG, METTE DEBORAH	2,989,551	HEROU, JULIEN	3,004,745	HOLMES, MICHAEL C.	3,004,349
HAZER GROUP LIMITED	2,996,940	HERR, JOHN C.	3,004,745	HOLT, CHARLOTTE	3,004,346
HAZOT, YOCHAN	2,995,794	HERRERO FRESNEDA, MARIA INMACULADA	2,997,665	HOLTSCLOW, JEREMY A.	3,004,604
HE, DAZHI	3,004,650	HERZIG, GEORG	2,995,513	HOLZLEITHNER, FRANZ	3,004,666
HE, HAIYING	3,004,147	HESSELINK, ALBERTUS THEODORUS	2,996,486	HOME TECH INNOVATION, INC	3,004,326
HE, JIE	2,990,547	HETERO LABS LTD	2,995,662	HONG, HYO JEONG	2,988,715
HEAFITZ, BRUCE	3,004,190	HETTICH, RONALD	3,004,452	HONG, ZHI	3,004,492
HEALTH CORPORATION OF GALILEE MEDICAL CENTER	3,004,590	HI FIDELITY GENETICS LLC	3,004,350	HOOD, JOHN	3,004,297
HEANLEY, JULIEN	3,004,715	HIBRI, NADI S.	3,004,526	HOOD, JOHN	3,004,506
HEARTFELT TECHNOLOGIES LIMITED	2,997,338	HICKEY, JENNIFER L.	3,004,641	HOOS, AXEL	2,994,635
HECHT, GIL	2,994,640	HICKEY, JENNIFER L.	3,004,714	HOPKINS, MARK	2,993,417
HECHT, IRIS	2,991,980	HICKS, GREGORY A.	3,004,283	HORDE, THEOPHILE	2,998,061
HEDGCOCK, ROBERT	3,004,601	HIDAKA, KOUSUKE	2,992,700	HORIMOTO, TAKAYUKI	3,004,850
HEDTJARN, MAJ	3,004,799	HIETANIEMI, MATTI	2,995,022	HORL, WERNER	3,004,200
HEFEEDA, MOHAMED M.	2,994,514	HIFI ENGINEERING INC.	3,004,339	HORMES, ANNA-CHRISTINA	3,004,503
HEFFETER, PETRA	3,004,630	HIGGINS, PETER	3,004,816	HORNEZ, JEAN-CHRISTOPHE	2,985,559
HEFFNER, H. CRAIG	3,004,084	HIGH, DONALD R.	3,004,139	HORNEZ, VINCENT	2,985,559
HEFFNER, H. CRAIG	3,004,335	HIGH, DONALD R.	3,004,179	HOSPODKA, MARKUS	2,990,022
HEFFNER, H. CRAIG	3,004,337	HIGH, DONALD R.	3,004,283	HOSTYN, VANESSA	3,004,624
HEGDE, RAVI	2,993,131	HIGH, DONALD R.	3,004,294	HOU, YANAN	3,004,370
HEIGHTMAN, THOMAS DANIEL	2,988,373	HIGH, DONALD R.	3,004,470	HOU, YANZHAO	3,003,937
		HILCKMANN, MARIUS	3,004,626	HOU, YANZHAO	3,004,187
				HOURI YAFIN, ARNON	2,998,829
				HOuze, GRAHAM CAMPBELL	3,004,164
				HOWA, FRANK MATTHEW	3,004,265
				HOWARD, DANNY ROLAND, JR.	2,994,918
				HOWARD, DANNY, JR.	2,993,908
				HOWARD, EDWARD JOHN	3,004,605

## Index of PCT Applications Entering the National Phase

HOWARD, LYNSEY	2,990,743	HULLEGIEN, ANDREAS		IDIN LAB, INC.	2,993,145
HOWORTH, GRAEME CEDRIC	3,000,896	HUBERTUS	2,996,837	IGAWA, TOMOYUKI	2,993,423
HOWORTH, MALCOLM		HULTGREN, ANDERS	3,004,244	IGWEMEZIE, JUDE	3,002,270
CHARLES	3,000,896	HUMANITAS MIRASOLE		IHC ENGINEERING BUSINESS	
HRABAR, MICHAEL GEORGE	3,004,090	S.P.A.	3,004,378	LIMITED	2,994,100
HSU, KENNETH C.	3,003,587	HUMANSCALE		IL DONG PHARMACEUTICAL	
HU, BINGSHAN	3,003,951	CORPORATION	3,004,620	CO., LTD.	2,996,937
HU, BINGSHAN	3,004,592	HUMANWELL HEALTHCARE		ILAC, CRISTIAN M	3,004,189
HU, HUAIGANG	3,004,693	(GROUP) CO., LTD.	3,004,372	ILAN, EREZ	3,004,521
HU, QIYUE	3,004,804	HUMBERT, PHILIPPE	3,004,531	ILAN, EREZ	3,004,524
HU, TSUNG-CHENG	2,994,217	HUMPHREYS, DUSTIN		ILIESCU, VLAD	2,996,852
HU, XIAOPING	2,992,501	WAYNE	3,004,345	ILINICH, OLEG	3,004,226
HUANG, DANIEL	2,996,635	HUNAN SKYWORLD		ILLANES LOPEZ, SEBASTIAN	2,998,275
HUANG, JINYU	3,003,986	BIOTECHNOLOGIES CO.	3,004,469	ILLINOIS TOOL WORKS INC.	3,004,726
HUANG, JINYU	3,004,158	HUNSBERGER, GERALD E.	2,996,252	ILLINOIS TOOL WORKS INC.	3,004,749
HUANG, LU	3,004,372	HUNT, NEIL	3,004,064	ILYASHENKO, HELEN	3,004,290
HUANG, NANKUN	3,004,284	HUNTER, EWAN	2,988,673	IMAI, KAORU	3,004,398
HUANG, WEI HSUAN	3,004,413	HUNTER, EWAN	2,988,674	IMAMURA, TAKESHI	3,004,286
HUANG, YUANCHANG	2,994,217	HUNTER, GORDON	3,004,428	IMMODULON THERAPEUTICS	
HUARD, MICHAEL	3,004,518	HUNTER, TIM H.	3,004,709	LIMITED	2,990,107
HUAWEI TECHNOLOGIES		HUNTING TITAN, INC.	3,004,837	IMMUNE DESIGN CORP.	3,004,132
CO., LTD.	2,981,869	HUNTSMAN ADVANCED		IMMUNEMED INC.	2,988,715
HUAWEI TECHNOLOGIES		MATERIALS LICENSING		IMMUNOLOGIK GMBH	2,990,298
CO., LTD.	2,983,925	(SWITZERLAND) GMBH	3,004,371	IMPERIAL INNOVATIONS	
HUAWEI TECHNOLOGIES		HUNTSMAN		LIMITED	2,988,499
CO., LTD.	2,984,657	INTERNATIONAL LLC	3,004,784	INCYTE CORPORATION	3,004,083
HUAWEI TECHNOLOGIES		HURLEY, WILLIAM	2,994,055	INDIVIOR UK LIMITED	2,992,820
CO., LTD.	3,004,775	HURTIG, MARK	3,004,849	INDIZEN OPTICAL	
HUAZHONG UNIVERSITY OF		HUSHEER, SHAMUS	2,997,338	TECHNOLOGIES, S.L.	2,985,959
SCIENCE AND		HUSKY INJECTION MOLDING		INDOOR.NINJA OU	2,995,515
TECHNOLOGY	3,004,374	SYSTEMS LTD.	3,004,591	INDUKURI, ANJANEYARAJU	2,998,830
HUBBARD, ADRIAN		HUYGHE, LEANDER	3,003,969	INDUSTRIE ROLLI	
CHRISTOPHER	2,998,273	HUYNH, PHUONG	3,003,882	ALIMENTARI S.P.A.	2,998,105
HUBBARD, PAUL F.	3,004,284	HWANG, DOO-CHAN	2,992,969	INDUSTRY-UNIVERSITY	
HUBBARD, WADE MONROE,		HWANG, DUK SOON	2,992,971	COOPERATION	
JR.	3,004,074	HWANG, RYONG	2,992,409	FOUNDATION HANYANG	
HUBBARD, WADE MONROE,		HWANG, SUNG-HEE	2,997,027	UNIVERSITY ERICA	
JR.	3,004,076	HWANG, TAE HO	2,990,133	CAMPUS	2,997,394
HUBBARD, WADE MONROE,		HWANG, TAE HO	2,996,120	INDYK, PIOTR	2,994,514
JR.	3,004,291	HYNNA, KAI	3,004,167	ING CORPORATION SPOL.	
HUBBARD, WADE MONROE,		HYWEL DAVIES, JOHN	3,004,810	S.R.O	2,996,246
JR.	3,004,304	HZPC HOLLAND B.V.	2,991,870	INGALLINERA, TIM	2,991,096
HUBBARD, WADE MONROE,		I.D.E. TECHNOLOGIES LTD	3,003,979	INGEVITY SOUTH	
JR.	3,004,313	I.SYSTEMS AUTOMACAO		CAROLINA, LLC	3,003,919
HUBBARD, WADE MONROE,		INDUSTRIAL S.A	2,997,574	INNOSPEC LIMITED	2,991,369
JR.	3,004,318	I2I PIPELINES LIMITED	2,993,137	INNOVA PATENT GMBH	2,997,633
HUBBARD, WADE MONROE,		IACCINO, LARRY L.	3,004,293	INOUBLI, RABER	2,993,488
JR.	3,004,463	IACCINO, LARRY L.	3,004,298	INSERM (INSTITUT	
HUBBELL INCORPORATED	3,004,279	IACCINO, LARRY L.	3,004,303	NATIONAL DE LA SANTE	
HUBBELL, JEFFREY A.	2,998,066	IACCINO, LARRY L.	3,004,308	ET DE LA RECHERCHE	
HUBEI BIO-		IACCINO, LARRY L.	3,004,316	MEDICALE)	2,985,559
PHARMACEUTICAL		IACCINO, LARRY L.	3,004,320	INSERM (INSTITUT	
INDUSTRIAL		IACCINO, LARRY L.	3,004,322	NATIONAL DE LA SANTE	
TECHNOLOGICAL		IACCINO, LARRY L.	3,004,324	ET DE LA RECHERCHE	
INSTITUTE INC.	3,004,372	IACCINO, LARRY L.	3,004,330	MEDICALE)	3,004,192
HUBER, FLORIAN	3,004,244	IACCINO, LARRY L.	3,004,332	INSTITUT NATIONAL DE LA	
HUDDERSMAN, KATHERINE	2,998,457	IBEX SARL	3,004,209	SANTE ET DE LA	
HUDSON, BILLY G.	3,003,405	IBIRCOM S.A.	2,992,682	RECHERCHE MEDICALE	
HUDSON, PETER NOBLE	2,994,616	IBISVISION LIMITED	3,000,598	(INSERM)	2,988,781
HUFFMAN, DARIN T.	3,004,782	ICS ICE CLEANING SYSTEMS		INSTITUT NATIONAL DE LA	
HUGHES, DAVID	3,004,370	S.R.O.	2,996,488	SANTE ET DE LA	
HUHMANN, ANDREAS	2,981,760	IDDAN, GAVRIEL J.	2,994,366	RECHERCHE MEDICALE	2,993,871
HULL, JOHN	3,004,339	IDELEVICH, ANNA	3,004,059		
		IDELEVICH, PAVEL	3,004,059		

## Index des demandes PCT entrant en phase nationale

INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE	2,994,914	JACOBSSON, FREDRIK JACQUET, DENIS JACQUET, NICOLAS	3,003,959 2,999,348 3,003,495	JIANGSU HENGRUI MEDICINE CO., LTD.	3,004,804 2,990,547
INSTITUT NATIONAL DES SCIENCES APPLIQUÉES DE LYON	2,994,372	JADHAV, DILIP JADHAV, GANESH RAJARAM	2,993,312 2,991,232	JIAO, MINGLI JIAO, YUENING	3,004,305 2,995,388
INSTITUT PASTEUR	2,988,499	JAFFREY, IAN JAGANNATH, M.R.	2,994,902 2,993,922	JIMENEZ CUMARE, WILLIAM J.	2,999,615 3,003,980
INSTITUT POLYTECHNIQUE DE BORDEAUX	2,994,246	JAGASIA, RAVI JAGER, GERNOT	3,004,799 3,004,384	JIMENEZ, ARMEL JIMMA, FUMIE	3,004,153 3,004,142
INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY	2,998,291	JALILIAN, SEYED EHSAN JAMIESON, STUART	3,004,339 2,993,279	JIN, BINGCHENG JIN, HOUCHONG	3,004,804 3,003,464
INTELLIGENT DRILLING TOOLS LIMITED	3,004,428	JAMISON, DALE E. JANG, EUN SUNG	3,004,706 2,990,277	JIN, KYLAN JIN, SONG	3,003,464 3,004,797
INTERACTIVE INTELLIGENCE GROUP, INC.	3,004,700	JANG, MI YEON JANG, TAEHO	2,995,675 3,004,197	JIN, TAO JING, ALEXANDER JIAOKAI	3,004,122 3,004,154
INTERCEPT PHARMACEUTICALS, INC.	3,004,275	JANG, TAEHO JANSSEN BIOTECH, INC.	3,004,197 3,004,117	JING, ALEXANDER JIAOKAI JINI CO., LTD	3,004,154 2,998,703
INTERVENTEK SUBSEA ENGINEERING LIMITED	2,996,228	JANSSEN BIOTECH, INC. JANSSEN BIOTECH, INC.	3,004,134 3,004,138	JINI CO., LTD. JO, DAEWOONG	2,998,704 2,993,778
INTREXON CORPORATION	3,004,742	JANSSEN BIOTECH, INC. JANSSEN PHARMACEUTICA NV	3,004,152 3,003,962	JO, YOUNG-JIN JODAA HOLM, HELLE	2,997,272 2,997,521
INTUIT INC.	3,004,282	JANSSEN PHARMACEUTICA NV	3,003,998	JOE, BO-YOUNG JOHANNES GUTENBERG- UNIVERSITÄT MAINZ	2,990,277 3,004,007
INTUIT INC.	3,004,284	JANSSON, RICHARD JAOUEN, FREDERIC	3,004,152 2,997,616	JOHANSEN, IB-RUNE JOHNES, MICHAEL	3,004,523 2,996,758
INVENTIO AG	3,004,628	JARRY, OLIVIER JASTI, VENKATESWARLU	3,004,481 2,997,956	JOHNS, BRIAN ALVIN JOHNS, BRIAN ALVIN	2,993,753 2,993,758
INVESTEL CAPITAL CORPORATION	3,004,755	JAUERT, PETER ALAN JAUERT, PETER ALAN	3,004,176 3,004,177	JOHNSON MATTHEY CATALYSTS (GERMANY) GMBH	2,996,373 2,994,103
INVISTA TECHNOLOGIES S.AR.L.	3,004,064	JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH	2,996,665	JOHNSON, HELEN JOHNSON, HELEN	2,994,109 3,004,350
IONIZINGENERGY LIMITED	3,004,196	JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH	2,996,666	JOHNSON, LOGAN JOHNSON, PETER STUART	2,996,268 3,004,434
IPINCE, MARCEL	3,003,620	JE IL PHARMACEUTICAL CO., LTD.	2,990,277	JOHNSON, PHILLIP J. JOHNSON, RACHEL LYNN	2,993,913 3,004,476
IPROOV LIMITED	3,003,550	JEAN MASON, BARBARA JEDDELOH, ANDREW SCOTT	3,004,366 3,004,284	JOHNSON, SONYA JONASSEN, TOM	3,004,476 3,004,699
IRAVANI, REZA	3,004,649	JENKINS, BRENDA JENKINS, STEPHEN DEREK	3,004,453 2,993,408	JONCHERAY, THOMAS JULIEN	3,004,784 2,997,413
IRIART, NICOLAS	2,990,337	JENSEN, MADS AABOE JENSEN, MICHAEL BECH	3,004,799 3,004,145	JONES, BRIAN JONES, CHRISTOPHER CHARLES RAWLINSON	2,981,650 3,004,381
IRON ARMOUR, LLC	3,003,900	JENSEN, ROBERT CHRISTIAN (DECEASED)	3,004,164	JONES, DAVID JONES, DEBORAH	2,997,616 3,004,283
ISAACS, ROBERT LESLIE	3,003,553	JEON, AE JI JEON, BORAM	2,996,446 2,999,821	JONES, NATHAN G. JONES, NICHOLAS	2,992,802 2,997,863
ISAGRO S.P.A.	2,999,425	JEON, UNGBAE JEONG, BYEONG-SEON	2,990,133 3,004,595	JONES, OWEN THOMAS JONJIC, STIPAN	2,997,863 2,997,130
ISCAR LTD.	2,994,640	JEONG, HYE JIN JEONG, HYE JIN	2,998,703 2,998,704	JOSEPHSON, DAVE JOSEPHSON, DAVE	2,992,522 2,992,699
ISHII, NAOKI	2,992,700	JEONG, JAE MIN JEONG, SEONG HEON	3,004,696 3,004,100	JOSHI, ADVAIT ARUN JOSHI, PRASHANT	2,996,263 3,004,344
ISRAEL AEROSPACE INDUSTRIES LTD.	3,004,529	JEPPESEN, PER BENDIX JETTI, RAMAKOTESWARA RAO	2,997,167 2,998,830	JOSHI, RAJAN LAXMAN JOSHI, RAJESH	3,004,185 2,998,830
ITEOS THERAPEUTICS	2,994,917	JEZEQUEL, PIERRE-YVES JFE STEEL CORPORATION	2,994,728 3,004,286	JOSS, LISA JOSYULA, KANTH	3,004,186 3,004,312
ITO, TAKEHIKO	3,000,121	JI, TINGFANG JIA, YONG	3,004,485 2,993,908	JOSYULA, KANTH JOUBEAUX, YANNICK	3,004,315 3,003,196
ITOCHU CHEMICAL FRONTIER CORPORATION	2,996,485	JIA, ZHENSHAN JIANG, QINYAN	3,004,444 3,003,937	JOUENNE, ERIC JOUY, BAPTISTE MARIE	3,004,203 2,997,939
IVANYTSKY, OLEG	3,004,354	JIANG, QINYAN JIANG, YING-PING	3,004,187 3,004,743	AUBIN PIERRE JOYDEEP, MUKHERJEE	2,997,939 3,004,207
IVANYTSKY, OLEG	3,004,356				
IVC, BVBA	2,996,024				
IVOSEV, GORDANA	2,989,523				
IWABUCHI, YOSHIHIKO	3,004,539				
IWAMURA, YASUHIRO	3,000,121				
IYIGUNDOGDU, ZEYNEP	2,995,924				
IZUHARA, DAISUKE	3,004,257				
IZUTSU, TADAO	3,004,245				
IZUTSU, TADAO	3,004,252				
JAASKELAINEN, MIKKO	3,004,260				
JACKSON, BRICE AARON	3,004,706				
JACKSON, PAUL JOSEPH MARK	2,996,406				
JACKSON, WILLIAM J.	3,004,414				
JACOBSON, NATAN HAIM	3,004,185				

## Index of PCT Applications Entering the National Phase

JOZWIK, MICHALINA	3,000,156	KANE, MARK	3,000,091	KEMIRA OYJ	2,995,022
JUANDI, EVELYN	3,004,415	KANEKA AMERICAS		KEMIRA OYJ	2,995,032
JUBILANT BIOSYS LIMITED	2,997,531	HOLDING, INC.	3,004,058	KEMP, NICHOLAS	2,996,097
JUNG, BONG JUN	2,999,821	KANELLOPOULOS,		KENNEDY, DENNIS M.	3,004,423
JUNG, HA JIN	2,989,289	VASILEIOS	3,004,662	KENNEDY, DENNIS M.	3,004,424
JUNG, HEE KYOUNG	2,990,376	KANG, JAE-HOON	2,996,937	KENNEDY, RICHARD	2,989,388
JUNG, HEE KYOUNG	2,992,970	KANG, MIN GYEONG	2,998,312	KENNEDY, RICHARD	2,993,142
JUNG, HYEI YOON	2,996,937	KANG, SUGJAE	3,004,087	KEPPLER, BERNHARD K.	3,004,630
JUNG, MARKUS	3,004,128	KANG, YONGKOO	2,991,286	KERGOAT, MICHELINE R.	2,988,625
JUNG, SUNG YOUB	2,991,107	KANKKUNEN, JANNE	2,996,811	KERKIS, IRINA	2,995,429
JUNG, SUNG-KYU	2,992,969	KANNAN, PALLIPURAM V.	3,004,334	KERKOUR, GAELLE	2,991,526
JUNG, TAE-JIN	2,993,430	KANOUNI, TOUFIKE	3,004,300	KERMANY, AMIR R.	2,991,230
JUNKER, STEFAN	3,004,357	KARABACAK, DEVREZ		KERN, JOCHEN	3,004,502
JUNUTULA, JAGATH R.	3,004,743	MEHMET	2,997,208	KERN, THOMAS	2,989,278
JURZAKOWSKI, RAFAL		KARCHE, NAVNATH POPAT	2,991,232	KERN, WOLFGANG	2,997,517
ROBERT	2,998,293	KARJALA, TERESA P.	2,996,291	KERNEOS	2,992,025
JURIK, TOMAS	3,002,593	KARLE, SHAWN MURRAY	2,986,409	KERNS, JEFFREY K.	2,988,373
JUST, BRIAN J.	3,004,752	KARLIN, MICHAEL JOSEPH	3,004,586	KERNS, JEFFREY K.	2,988,374
K-PLAN	2,999,945	KARLSSON, FILIP	2,993,914	KESARWANI, AMIT	2,997,364
K.D. PHARMA BEXBACH		KARPPI, ASKO	2,995,022	KESARWANI, AMIT	2,997,463
GMBH	2,995,558	KARRI, SURYA BHASKARA		KESPRY INC.	3,003,712
KADIOGLU, ARAS	2,990,743	REDDY	3,004,068	KETFI-CHERIF, AHMED	2,997,889
KADOW, JOHN F.	2,990,575	KARUS THERAPEUTICS LTD	2,995,896	KETHIRI, RAGHAVA REDDY	2,998,705
KADOW, JOHN F.	2,991,268	KARUS THERAPEUTICS LTD	2,995,898	KEYGENE N.V.	2,996,806
KADOW, JOHN F.	2,991,464	KARUS THERAPEUTICS LTD	2,995,902	KEYNAN, RITA	2,995,794
KADOW, JOHN F.	2,991,467	KARUS THERAPEUTICS LTD	2,995,909	KHAIRATKAR-JOSHI,	
KADOW, JOHN F.	2,994,512	KARUS THERAPEUTICS LTD	2,995,991	NEELIMA	2,993,304
KADOW, JOHN F.	2,994,517	KASAGI, JIROTA	3,000,121	KHAIRKHAHAN,	
KADOW, JOHN F.	2,994,791	KASHIWAYA, TOMOYUKI	3,004,537	ALEXANDER K.	3,004,418
KADOW, JOHN F.	2,995,042	KASHTI, TAMAR	2,986,370	KHAN, TALHA HUSSAIN	2,996,263
KADOW, JOHN F.	2,995,087	KASIBHATLA, SHAILAJA	2,993,908	KHARCHENKO, ANDRIY	2,995,471
KADOW, JOHN F.	2,995,099	KASKOWICZ, MATTHEW		KHARPAS, ANIL BALASAHEB	3,003,553
KADOW, JOHN F.	2,995,790	ALAN	3,004,407	KHATRI, VIKASH	3,004,210
KAFAL, ADAM PAUL	3,004,641	KASPAR, ALEXANDRE	2,994,514	KHATRI, VIKASH	3,004,211
KAFAL, ADAM PAUL	3,004,714	KASSIR, JAMAL.	3,004,269	KHDER, YASSER	2,990,764
KAGAWA, TOMOHIRO	3,004,153	KATONA, GERGELY	2,994,903	KHOZAN HOLDINGS INC.	3,004,329
KAIEDA, AKIRA	2,992,700	KAUFMAN, DAVID	2,994,635	KHOZAN, KAMRAN M.	3,004,329
KAINOTOMIES VERDE		KAUFMANN, NICHOLAS L.	3,004,141	KIANG, YU-ZHI	3,004,290
KYVIKA LOGIKA		KAWAKUBO, MASAYOSHI	3,004,425	KIARIE, ELIJAH G.	3,004,522
PAIXNIDIA A EVE	2,996,878	KAWAMOTO, HIROSHI	3,004,120	KIEST, LARRY W.	3,004,341
KAISER, GUNTER	2,993,238	KAWASAKI, MANABU	2,998,724	KIKUCHI, MOTOYA	3,004,398
KALAKODIMI, RAJENDRA		KAY, NICOLA	2,996,368	KIM, BONG OH	2,993,920
PRASAD	3,004,311	KAYNAN, NOA S.	2,997,130	KIM, BONG OH	2,993,923
KALANAD, AYSHA	3,004,003	KAYSER, FRANK	3,004,448	KIM, BONG OH	2,993,925
KALANTAR-ZADEH,		KAZMIERSKI, WIESLAW		KIM, BONG OH	2,993,928
KOUROSH	2,989,191	MIECZYSLAW	2,990,335	KIM, BONG-OH	2,998,092
KALCHMAN, LAURENT	2,991,526	KC, SUNIL KUMAR	3,004,297	KIM, DAEIK DANIEL	3,004,764
KALDOR, STEPHEN W.	3,004,300	KC, SUNIL KUMAR	3,004,506	KIM, DANIEL H.	3,004,197
KALHAPURE, VAIBHAV		KE, XI	3,004,592	KIM, DANIEL H.	3,004,201
MADHUKAR	2,996,263	KE, XIAODI	2,983,925	KIM, DOHOON	2,993,929
KAMACHIM FUMITAKA	3,000,237	KEACH, DAVID C.	3,004,146	KIM, DONG HYUN	2,998,841
KAMATA, MAKOTO	2,988,572	KEANEY, GREGG F.	3,004,623	KIM, DONG HYUN	2,998,877
KAMBOJ, RAJENDER KUMAR	2,991,232	KEATING, KATHERINE E.	2,993,142	KIM, DONG SIK	2,988,574
KAMBOJ, RAJENDER KUMAR	2,996,263	KECHT, JOHANN	3,004,123	KIM, DONG WOO	2,994,230
KAMENSHCHIKOV, ILYA	3,004,357	KECHT, JOHANN	3,004,124	KIM, DONG WOOK	2,990,807
KAMINSKI, RAYMOND	2,994,055	KECHT, JOHANN	3,004,125	KIM, EUN SEON	2,990,277
KAMLER, ANNA		KEDDE, MARTIJN	2,989,551	KIM, HADONG	2,995,675
VLADIMIROVNA	2,994,660	KEDZLIE, IAIN	3,004,744	KIM, HAE JIN	2,992,971
KAN, GUANGMING	2,990,647	KEIFLIN, PIERRE	2,998,865	KIM, HAN SOO	2,990,807
KAN, ITTAI	3,004,212	KEIL, BIRGIT	3,004,360	KIM, HANGEUN	2,999,821
KANADA SONABE, REGINA		KEIR, WILLIAM STEVEN	3,004,591	KIM, HOYON	2,989,287
MIKIE	3,004,623	KELLY, JULIAN SHAW	3,004,633	KIM, HYE RIM	2,993,920
KANAGALINGAM,		KELLY, RYAN T.	3,004,102	KIM, HYE RIM	2,993,923
SABESHAN	2,993,131	KELSO, BRYAN	2,998,001	KIM, HYE RIM	2,993,925



## Index des demandes PCT entrant en phase nationale

KIM, HYE RIM	2,993,928	KLARESKOG, LARS	2,994,798	KORCHAGINA, ELENA	
KIM, HYE RIM	2,999,821	KLEIN, ANDREAS	3,004,503	YURIEVNA	3,004,107
KIM, HYE WON	2,996,446	KLEIN, GILLES CHARLES		KORDSACHIA, OTHAR	2,998,230
KIM, HYE WON	2,998,312	CASIMIR	3,004,391	KOREA DISTRICT HEATING	
KIM, IL HYANG	2,994,688	KLEIN, JENS	2,996,028	ENGINEERING CO., LTD.	2,988,496
KIM, JEONG-MIN	2,990,277	KLEIN, JEROME A.	3,003,720	KORESAAR, LAURI	2,991,462
KIM, JI YEONG	2,993,920	KLEIN, THEODORE		KORIPELLY,	
KIM, JI YEONG	2,993,923	MITCHELL	3,004,056	RAJAMALLESWARAMM	
KIM, JI YEONG	2,993,925	KLEINGUETL, KEVIN		A	2,993,131
KIM, JI YEONG	2,993,928	GREGORY	3,004,706	KORMAN, JOE	3,004,289
KIM, JIN KWAN	2,995,675	KLESCZEWSKI, BERT	3,004,385	KORMAN, JOE	3,004,608
KIM, JIN YOUNG	2,999,823	KLEY, NIKOLAI	3,003,969	KOROSI, GERGO	2,996,102
KIM, JONG HO	2,997,396	KLEYWEGT, MICHAEL	3,004,501	KOSTER, SUSAN C.	3,004,603
KIM, JONG HYUN	2,996,446	KLEYWEGT, MICHAEL	3,004,507	KOSTER, SUSAN C.	3,004,607
KIM, JONG HYUN	2,998,312	KLIBANOV, ALEXANDER L.	3,004,745	KOSTER, SUSAN C.	3,004,611
KIM, JONGHAE	3,004,764	KLIGER, YOSSEF	2,991,980	KOSTER, SUSAN C.	3,004,625
KIM, JOO YOUNG	2,997,097	KLIMOVICH, DZIYANA		KOSUB, MIKE	3,004,137
KIM, JOO YOUNG	2,998,098	NIKOLAEVNA	3,003,897	KOTAKE, YOSHIHIKO	3,004,623
KIM, JOSEPH L.	3,003,721	KLINE, JUSTIN M.	3,004,783	KOTECHA, JIGNESH	2,997,364
KIM, JUN YOUNG	2,990,582	KLIS, NICOLAS	2,990,337	KOTECHA, JIGNESH	2,997,463
KIM, JUNG JU	2,992,404	KLOECKNER, WOLF	3,004,384	KOTLYAROV, YURY	
KIM, JUNG KUK	2,991,107	KLOKE, PHILIPP	2,993,408	VLADIMIROVICH	2,997,381
KIM, JUNG-AE	3,004,595	KLONOWSKI, THOMAS	2,997,164	KOVACS, STEVEN	2,995,795
KIM, JUNGMIN	2,991,980	KLOSTERMANN, MICHAEL	3,004,188	KOVACS, ZOLTAN	2,993,483
KIM, KYUNG NAM	2,989,289	KLOTZBACH, HARALD	3,003,961	KOVAR, JEROME	3,004,762
KIM, KYUNG NAM	2,990,157	KNAACK, PATRICK	2,997,517	KOVTUN, SERGE	3,004,329
KIM, MIN WOO	2,988,715	KNAPP GMBH	3,004,618	KOWALSKI, MICHAL L.	2,997,382
KIM, MIN-HO	2,992,969	KNAPP, FRIEDRICH	3,004,618	KOWOL, CHRISTIAN	3,004,630
KIM, MIRIAM	3,004,053	KNAPP, MARK	2,995,795	KRAAIJ, DIRK	2,996,266
KIM, MYEONG-SEOP	2,995,675	KNAUF GIPS KG	3,003,928	KRAEMER, ULRICH	3,004,502
KIM, SANG HOON	2,998,092	KNIESEL, SIMON	2,993,408	KRAEMER, ULRICH	3,004,515
KIM, SANGWON	2,989,998	KNIGHT, ANNA	3,004,415	KRAFT FOODS R&D, INC.	3,004,678
KIM, SE YEONG	2,994,230	KNIGHT, STEVEN DAVID	2,990,474	KRAN LIFE SCIENCES LLP	2,992,915
KIM, SEONG JAE	2,999,821	KNOPF, HANS-PETER	2,996,635	KRASSILNIKOV, ANTON	2,986,518
KIM, SOL	2,998,312	KNOX, JOHN GRAEME	3,003,879	KRASSILNIKOV, ANTON	2,986,527
KIM, SUG-BAE	2,997,396	KO, JONG-HEE	2,996,937	KRASSILNIKOV, ANTON	2,987,183
KIM, SUMIN	2,995,675	KO, MOO SUNG	2,993,918	KRASSILNIKOV, ANTON	2,987,195
KIM, SUN KYOUNG	2,992,404	KOCH, MICHAEL	3,004,795	KRASSILNIKOV, ANTON	2,987,198
KIM, SUN MI	2,997,396	KOCH, MICHAEL	3,004,802	KRAUSE, ANDREAS	2,998,230
KIM, SUNG CHUN	2,989,538	KODE BIOTECH LIMITED	3,004,107	KRAUSS, ACHIM HANS-	
KIM, YONG KYOUNG	2,993,145	KOENIG, JOHN R.	2,991,273	PETER	2,989,522
KIM, YONG-SUNG	2,996,937	KOFLER, GEORG	2,996,056	KREILEIN, MATTHEW	
KIM, YOON WON	2,988,715	KOH, KWON SUK	3,004,487	MICHAEL	3,004,300
KIM, YOUNG JIN	2,988,715	KOHN, ARNIM	3,004,360	KREJSA, CECILE	2,991,096
KIM, YUNTAE	2,993,918	KOIZUMI, SHINICHI	3,000,237	KRIGSMAN, JOAKIM	3,004,195
KIM, YUNTAE	2,993,929	KOJIMA, TAKUTO	2,988,572	KRISHNAN, KARTIK	3,004,794
KIM, YUNTAE	2,994,688	KOLAJA, ROBERT	3,004,354	KRISTAM, RAJENDRA	2,998,705
KIMURA, EIJI	2,988,572	KOLAJA, ROBERT	3,004,356	KROGH, THOMAS	
KING'S COLLEGE LONDON	2,993,746	KOLAKOSKI, REBECCA		NYLANDSTED	3,004,145
KINSELLA, B. THERESE	2,989,271	ASHLEY	3,004,483	KROKER, JOERG	3,004,367
KINZE MANUFACTURING,		KOLARI, MARKO	2,995,022	KRONBERG, JAMES W.	3,004,456
INC.	3,004,440	KOLCUN, ADAM	3,004,292	KRONSTEDT, FREDRIC	2,997,905
KIRA, KAZUNOBU	3,004,623	KOLETSCHKA, THOMAS	3,004,711	KRONSTEINER, MARTIN	2,998,113
KIRKBRIDE, TANA MARIE	3,004,074	KONG, SEOGYOUNG	2,994,797	KROON, HARMEN	2,989,390
KIRKBRIDE, TANA MARIE	3,004,076	KONINKLIJKE DOUWE		KROPE, JURIJ	2,997,124
KIRKBRIDE, TANA MARIE	3,004,291	EGBERTS B.V.	2,990,007	KRUCKENHAUSER, ERICH	2,982,798
KIRKBRIDE, TANA MARIE	3,004,304	KONINKLIJKE DOUWE		KRUMBHOLZ, RUDOLF	2,995,558
KIRKHAM, ANDREW JOHN	2,993,481	EGBERTS B.V.	3,004,140	KRUPICKA, TYLER THOMAS	3,004,284
KIRKWOOD, KEITH R.	3,004,084	KONNECTRONIX, INC.	3,004,274	KT CORPORATION	2,997,097
KIRKWOOD, KEITH R.	3,004,335	KONRADI, ANDREI	3,004,095	KT CORPORATION	2,998,098
KIRTH, RUDOLF	2,993,238	KOOP, GEORGE F.	3,004,366	KUAN, CHEE MUN	3,004,596
KISSLING, CHRISTIAN	3,004,089	KOPP, MANUEL	2,994,660	KUBIS, IVAN	2,996,488
KITZMILLER, BROOKE D.	3,004,264	KORALEWSKI, ROBERT	2,997,382	KUBOTERA, KATSUAKI	3,004,537
KLARESKOG, LARS	2,994,796	KORBOUKH, ILIA	3,004,060	KUDLA, AMELIE	3,003,980



## Index des demandes PCT entrant en phase nationale

LEIT DE MORADEI, SILVANA MARCEL	3,004,747	LI, SHAO	2,984,569	LIU, XIUMEI	2,990,547
LEIT DE MORADEI, SILVANA MARCEL	3,004,796	LI, TINDY	2,988,373	LIU, YONGWANG	3,004,693
LEIT DE MORADEI, SILVANA MARCEL	3,004,798	LI, XIAOLIN	3,004,147	LMK TECHNOLOGIES, LLC	3,004,341
LEITH, KATHERINE	3,004,504	LI, XIONG	2,994,789	LMK THERMOSAFE LIMITED	2,983,801
LELIVELT, CECILIA LUCIA CLARA	3,004,165	LI, YONGXIANG	2,989,191	LO, JENNIFER A.	3,004,425
LELIVELT, CECILIA LUCIA CLARA	3,004,169	LI, YUFENG	2,994,910	LO, WEI-SHUO	2,994,217
LELY PATENT N.V.	2,994,686	LI, ZENGJI	2,990,549	LOAEC, GUY	2,999,947
LELY PATENT N.V.	2,996,261	LI, ZHENG	3,003,719	LODGE, JONATHAN	2,993,342
LELY PATENT N.V.	2,996,262	LI, ZONGBIN	3,004,147	LOMBOIS-BURGER, HELENE	3,004,824
LELY PATENT N.V.	2,996,264	LIANG, HUI	3,003,937	LONG, MARK	2,997,863
LELY PATENT N.V.	2,996,265	LIANG, HUI	3,004,187	LONG, QI	2,998,871
LELY PATENT N.V.	2,996,266	LIANG, YOUXUAN	3,004,143	LONGINOTTI-BUITONI, GIANLUIGI	2,994,362
LELY PATENT N.V.	2,996,495	LIAO, CHIEN-YI	3,004,663	LONZA LTD	3,004,503
LEMKE, HARALD	3,003,905	LIAO, CONG	3,004,783	LOO, TZE MUN	3,000,237
LEMOINE, ROMAIN O.V.	3,004,293	LIAO, HUALIN	3,004,693	LOON LAB INC.	2,992,409
LEMOINE, ROMAIN O.V.	3,004,298	LIBER8TECH HUNGARY KFT.	2,993,483	LOONEY, DWAYNE	3,004,521
LENDRUM, SHAUN	3,004,295	LICHENSTEIN, HENRI	3,004,636	LOONEY, DWAYNE	3,004,524
LEPIFRE, FRANCK F.	2,988,625	LICHTENSTEIN, CONRAD PAUL	2,994,506	LOPATA, VICTOR	3,004,445
LEPPELT, RAINER	2,996,373	LIEB, GERALD	3,004,128	LORANTFY, LASZLO	2,996,995
LERICHE, ANNE	2,985,559	LIEBOLD, CLAUDIA	3,004,244	LORD, WILLIAM T.	3,004,106
LESAFFRE ET COMPAGNIE	2,990,171	LIEFKE, MELANIE	3,004,615	LORENZ, DESIREE	3,004,503
LESLIE, COLIN	2,997,869	LIGOZAT, JEROME	3,004,791	LORENZ, HILKE-MARIE	3,004,503
LESTOURNELLE, FRANCK	3,003,980	LILIENKAMPF, ANNAMARIA HELENA	3,003,955	LORIYA, RAJESHKUMAR MAGANLAL	2,996,263
LESZCZYNSKI, PIOTR	2,998,293	LILIENKAMPF, ANNAMARIA HELENA	3,003,964	LOUBET, BRUNO	2,989,785
LETTIS, JOHN	3,004,525	LIM, HYUNG KYU	2,999,823	LOUBET, BRUNO	2,992,930
LEUNG, KEVIN	3,004,330	LIM, KIAN HUAT	3,004,623	LOUDON, JONATHAN PAUL	3,004,774
LEUNG, KEVIN C.P.	3,004,320	LIM, LEE P.	3,004,435	LOUVER-LITE LIMITED	2,994,776
LEUNG, KEVIN C.P.	3,004,324	LIM, SEI HIEN	3,004,596	LOVASZ, SANDOR	2,998,822
LEVASHOV, ALEXEY	2,994,511	LIM, SWEE KHUAN	3,004,596	LOVERING, FRANK ELDRIDGE	2,996,389
LEVEL 3 COMMUNICATIONS LLC	2,991,664	LIM, WENDELL A.	3,004,491	LOWE, KATHLEEN E.	3,004,367
LEVEL 3 COMMUNICATIONS, LLC	3,004,175	LIM, YOUNG HO	2,995,327	LOWE, KEITH S.	3,004,056
LEVENS COOKING & BAKING SYSTEMS B.V.	2,995,802	LIN, DIANMIN	3,004,319	LOWE, MICHAEL DENNIS	2,995,153
LEVEQUE, XAVIER	3,004,192	LIN, TSAI-YU	3,004,132	LOXO ONCOLOGY, INC.	2,998,796
LEVEY, KENNETH	3,003,924	LIN, YU-SHENG	2,994,217	LU, CHENFENG	3,004,177
LEVY, MATTHEW CHASE	2,998,088	LINEBERRY, ALLEN	3,004,411	LU, PENSHUN	3,003,951
LEVY, OFER	2,991,980	LINGOES, JANETTE VILLALOBOS	3,004,483	LU, QIWEI	3,004,122
LEWANDOWSKI, PIOTR	2,993,634	LINGOES, JANETTE VILLALOBOS	3,004,606	LU, QIWEI	3,004,154
LEWIS, BRYAN JOHN	3,004,709	LINKE-WINNEBECK, CHRISTIAN	3,004,671	LU, XINGTAO	3,004,797
LEWIS, MICHAEL DON	2,993,913	LINNANEN, TERO	2,989,265	LUBCZYNSKI, PETER E.	3,004,282
LEXMARK INTERNATIONAL, INC.	3,004,180	LINXENS HOLDING	3,004,389	LUBRIZOL ADVANCED MATERIALS, INC.	3,004,122
LEXMARK INTERNATIONAL, INC.	3,004,256	LIPINSKI, STANISLAW	3,000,156	LUBRIZOL ADVANCED MATERIALS, INC.	3,004,154
LEZMY, NATALIE	2,998,829	LIQUID VANITY APS	2,997,167	LUCAS, BRYAN CHAPMAN	3,004,709
LG CHEM, LTD.	3,004,595	LIQUIDIA TECHNOLOGIES, INC.	3,004,492	LUCAS, GREGORY	2,994,441
LI, BEIBEI	2,990,547	LIQUIDWEB S.R.L.	3,001,961	LUCERO, ANTONIO D.	3,003,870
LI, BO	3,004,644	LISKA, ROBERT	2,997,517	LUEBKE, CHARLES P.	3,004,459
LI, DANSU	2,994,644	LISS, ROBIN	3,004,326	LUEDTKE, MATTHEW	3,004,336
LI, DEMIN	2,996,601	LISTER, ADAM	3,004,667	LUGTIGHEID, GERARDUS WILHELMUS	3,004,393
LI, GUOCHUN	2,994,516	LITVIN, GILAD	2,988,377	LUGTIGHEID, GERARDUS WILHELMUS	3,004,400
LI, HONG XIAN	2,990,376	LIU, BAOHUA	2,990,647	LUHTALA, MARIA	2,995,032
LI, HONG XIAN	2,992,970	LIU, BO	2,991,273	LUKER, TIM	2,997,868
LI, HUIJUN	3,004,469	LIU, CHENGUANG	2,990,647	LUKER, TIM	2,997,869
LI, LIGUO	3,004,370	LIU, JUN	3,004,602	LUMON INVEST OY	3,004,045
LI, PENGFEI	3,004,143	LIU, NING	3,004,644	LUMUS LTD	2,992,213
LI, RAN	3,003,464	LIU, NING	3,004,650	LUND, SUSAN ARENT	3,004,522
		LIU, SIQI	3,004,142	LUNDEVAL, MAGNUS	2,997,905
		LIU, XIANG	3,004,623	LUNDIN, JOHAN	2,996,969
		LIU, XIAOCHEN	2,990,547	LUNDIN, JOHN WALTER	3,004,749

## Index of PCT Applications Entering the National Phase

LUO, QINGMING	3,004,374	MANNING, JOSEPH RICHARD	MASTERCARD
LUO, SONG	2,998,825	HENRY	INTERNATIONAL
LUO, TAO	3,004,485	MANOHAR, MANISH	INCORPORATED
LUONG, HUNG HUU	3,004,845	MANSERGH, JOHN	3,004,424
LUPIN LIMITED	2,991,232	MANSTEIN, DIETER	MASTERCARD
LUPIN LIMITED	2,993,907	MANTEAU, BAPTISTE	INTERNATIONAL
LUPIN LIMITED	2,996,263	MANTELE, WERNER	INCORPORATED
LUY, BERNHARD	3,004,789	MANURUNG, SARMAULI	3,004,520
LV, XIAOHUA	3,004,374	MAPREG	MASTERCARD
LYDECKER, STEPHEN		MAQUAIRE, PATRICK	INTERNATIONAL
HAIGHT	2,984,887	MARABESE, RICCARDO	INCORPORATED
LYNCH, CASEY C.	3,004,095	MARAPRYGSAVAN,	3,004,744
LYONS, DAVID FREDERICK	3,004,051	PAIBOON	MATHIAS, JOHN PAUL
LYYTIKAINEN, KATJA	2,994,388	MARAVIGNA, ARTURO	2,996,389
LYYTIKAINEN, KATJA	2,995,478	MARCHETTI, ROBERTO	MATHIESON, FRASER
M SQUARED LASERS		MARCHIN, LOIC	2,991,299
LIMITED	2,994,507	MAREAUX, SEBASTIEN	MATHIVANAN, GUHAN
MA, DONG	2,981,869	MARHAYGUE, LLC	3,004,181
MA, JINGWANG	3,004,775	MARIGNAC, GENEVIEVE	MATHIVANAN, GUHAN
MA, NAIYANG	2,997,582	MARINKOVIC, MILOS	3,004,662
MAAK, PAL	2,994,903	MARION, FREDERIC	MATHUR, ANOOP
MACDONALD, DANIEL J.	2,998,295	MARIS, JOHN M.	2,997,364
MACHLENKIN, ARTHUR	2,991,980	MARIYASELVAM,	MATHUR, ANOOP
MACIEJEWSKI, HIERONIM	2,993,634	MARYANNE	2,997,463
MACISAAC, KENZIE	2,991,857	MARMA, MONG SANO	MATOKI HOLDINGS LIMITED
MACK, PATRICK E.	3,003,905	MARMET, OLIVIER	2,990,326
MACKENZIE, COLIN		MARMUR, YANIV	MATSUDA, TAKAHARU
MALCOLM	3,004,761	MARONEY, KYLE	3,004,845
MACLAREN, ROBERT	2,995,656	MARQUES ABRANTES, VITOR	MATSUZAWA, YASUO
MADER, CARL CONRAD	3,003,942	EMANUEL	2,992,823
MADERER, ANNETT	3,004,007	MARQUEZ LLINAS, JORDI	MATTER, YVES
MADERNA, ANDREAS	2,994,917	MARRINUCCI, DENA	2,994,622
MADRID, GILBERT	3,004,602	MARS, INCORPORATED	MATUSIK, WOJCIECH
MAEDA, ATSUHIKO	2,993,423	MARSH, STEPHEN	2,994,514
MAGES, KENNETH	2,998,295	MARSHALL, ROBERT J.	MAUSSNER, RANDOLPH
MAGIC LEAP, INC.	3,004,271	MARTELLO, FEDERICO	3,004,612
MAGIC LEAP, INC.	3,004,278	MARTELLO, GIORGIO	MAVALON THERAPEUTICS
MAGIC LEAP, INC.	3,004,319	MARTIN BLANCO, RICARD	LIMITED
MAGNY, BENOIT	2,994,622	MARTIN, JAMES	3,004,680
MAHAJAN, GIRISH	3,004,534	MARTIN, KYLE BRADLEY	MAY, ANDREW PAUL
MAHER, JOHN	2,993,746	MARTINEZ CHANTAR,	3,004,757
MAHESHWARI, RICHA	3,004,052	MARIA LUZ	MAY, ERIC P.
MAHUE, VERONIQUE	2,994,208	MARTINEZ GONZALEZ,	3,004,402
MAIER, FERDINAND	3,004,516	SONIA	MAYER, STANISLAS
MAIER, FERDINAND	3,004,519	MARTINEZ, PATRICE	3,004,680
MAKADIA, CHETAN M.	3,004,122	MARTINEZ, VLADIMIR C.	MAYO, GABRIEL ISAAC
MAKADIA, CHETAN M.	3,004,154	MARTUCCI URDANETA,	3,003,882
MAKER, GARETH THOMAS	2,994,507	DAVID DE JESUS	MAYR, JOSEF
MALAGU, KARINE FABIENNE	2,991,273	MAS INNOVATION (PRIVATE)	3,004,630
MALEKA, KYRIAKI	2,984,086	LIMITED	MAYR, LORENZ M.
MALI, SANJAY DHONDAPPA	3,003,553	MASON, MATTHEW	2,990,764
MALMSTROM, LARS JONAS	2,991,684	MASSIE, CRAWFORD	MAZEJ, ZORAN
MALMSTROM, VIVIANNE	2,994,796	MASSOT, AURELIEN RENE-	2,998,293
MALMSTROM, VIVIANNE	2,994,798	PIERRE	MAZOYER, ETIENNE
MAMALOHA GMBH	3,004,365	MAST, CHRISTIAN	2,990,580
MAMMOTH SPORT LIMITED	3,001,098	MASTALIA, CARMINE	MAZOYER, ETIENNE
MANABE, KOICHIRO	2,998,724	MASTERCARD	2,990,588
MANCEBO PACHECO, ELVIN		INTERNATIONAL	MAZUR, MARZENA
ALBERTO	3,004,376	INCORPORATED	2,997,382
MANCHESTER, JONATHAN		MASTERCARD	MAZZARINI, FEDERICO
RALPH	2,994,100	INTERNATIONAL	2,994,216
MANDELBOIM, OFER	2,997,130	INCORPORATED	MAZZOTTI, MARCO
MANE, CARINE	3,004,203		MBI CO., LTD.
MANN, TOBIAS	3,004,527		2,993,430
			MCALPINE, INDRAWAN
			JAMES
			2,994,917
			MCALPINE, ROBERT
			WATSON
			3,004,256
			MCAULEY, MICHAEL
			3,004,467
			MCCALLEY, RODNEY
			3,004,782
			MCCARTHY, STEPHEN JOHN
			3,004,156
			MCCAIVIGAN, ANDRENA
			2,989,388
			MCCLUSKEY, KEVIN M.
			3,004,282
			MCCLUSKEY, SEANIN
			2,988,657
			MCCLUSKEY, SEANIN
			2,988,686
			MCCLUSKEY, SEANIN
			2,988,695
			MCDONALD, NEIL
			ALEXANDER
			3,003,955
			MCDONALD, NEIL
			ALEXANDER
			3,003,964
			MCDORMAN, DAVID L.
			3,003,720
			MCENEANEY, DAVID JOHN
			2,993,759
			MCFARLAND, JESSE M.
			3,004,584
			MCGARIAN TDC LIMITED
			2,994,360
			MCGARIAN, BRUCE
			2,994,360
			MCGLONE, JOHN J.
			3,004,465
			MCGRATH, THERESA
			3,004,657
			MCGUINNESS, COLIN
			2,990,997
			MCILVENNA, DAVID
			3,004,816
			MCINTOSH, RICHARD
			2,996,436
			MCINTYRE, JOHN F.
			3,004,292
			MCKAY, BENJAMIN
			2,995,560

## Index des demandes PCT entrant en phase nationale

MCKEE, SHAWN P.	3,004,302	METSO MINERALS		MISHRA, VIVEK	2,997,463
MCKENRY, MICHAEL	3,004,096	INDUSTRIES, INC.	2,996,253	MISSINGEN SERVICES AS	3,004,699
MCLAUGHLIN, JAMES	2,993,759	METSO MINERALS		MITCHELL, CYNTHIA A.	3,004,086
MCLAUGHLIN, MARIE	2,999,696	INDUSTRIES, INC.	2,996,254	MITCHELL, WILLIAM	2,997,661
MCLEAN, ALEC	2,990,743	METSO MINERALS		MITEK HOLDINGS, INC.	2,996,256
MCMICHAEL, DONALD	3,004,443	INDUSTRIES, INC.	2,996,255	MITHEN, RICHARD	2,990,566
MCMICHAEL, DONALD	3,004,447	METTERLEIN, MICHAEL	3,004,671	MIYAMOTO, MASAHIRO	3,004,058
MCNICHOLS, COLIN	2,997,182	METZ, STEFAN	3,004,422	MIYANO, MASAYUKI	3,004,623
MCNULTY, KENNETH C.	2,990,474	METZGER, AUSTIN D.	3,004,783	MIYASHITA, NAOKI	3,004,535
MCPHEE, CAIT	2,995,438	MEYERS, DAVID O.	3,003,913	MIYASHITA, NAOKI	3,004,537
MEAD, ALICE	2,989,779	MEYERS, MICHEL	3,004,369	MIYAZAKI, TAKAMICHI	3,004,251
MEAD, ROBERT	2,997,865	MHETAR, VIJAY	3,004,844	MJN U.S. HOLDINGS LLC	3,004,062
MEADY, JOSEPH MICHAEL	3,004,279	MICHAEL, LACHLAN BRUCE	3,004,847	MJN U.S. HOLDINGS LLC	3,004,722
MEAT & LIVESTOCK		MICHAELIS, MAX G., IV	3,004,419	MJN U.S. HOLDINGS LLC	3,004,737
AUSTRALIA LIMITED	2,997,661	MICHAUD, STEEVE	2,995,130	MJN U.S. HOLDINGS LLC	3,004,740
MECAFLOR	2,996,016	MICHEL-SALAUN,		MODI, ROHIT	3,004,420
MEDAS, BERTRAND	2,993,093	FRANCOISE	3,004,801	MODY, RUSTOM, SORAB	2,993,907
MEDINCELL	3,004,849	MICHELI, FABRIZIO	2,992,820	MOGNA, GIOVANNI	3,004,486
MEDINOXX GMBH	3,004,814	MICHELI, FABRIZIO	2,997,868	MOHAMMED, ABDUL	
MEDIVATION		MICHELI, FABRIZIO	2,997,869	RASHEED	2,997,956
TECHNOLOGIES LLC	3,003,422	MICHELOTTI, MARCO	2,992,070	MOHAMMED, MOHSIN OMAR	2,990,535
MEDIZINISCHE		MICHLA, ALEXANDER	3,004,380	MOHAMMED, SHABBER	3,004,534
HOCHSCHULE		MIDDLE PEAK MEDICAL,		MOHLER, MARKUS	3,004,007
HANNOVER	3,004,805	INC.	3,004,418	MOHRBACHER, JESSE	3,004,204
MEDIZINISCHE UNIVERSITAT		MIDDLESWORTH, JEFFREY A.	3,004,264	MOILANEN, HANNU	2,996,969
WIEN	3,004,630	MIKAWA, YOSHIKAZU GI	2,994,506	MOLIN, HANS M.	3,003,719
MEEHAN, RICHARD JOHN	3,004,133	MILAN CONCEPTION INC.	2,995,130	MOLINARO, ALESSANDRO	3,003,961
MEEUSE, FREDERIK MICHIEL	3,004,155	MILDH, GUNNAR	3,003,388	MOMOSE, RUMIKO	3,004,288
MEEUSE, FREDERIK MICHIEL	3,004,373	MILES, JASON VICTOR	3,004,195	MONCK, MYRNA A.	2,996,088
MEHER, PRATIKSHA SHIVAJI	3,004,403	MILEY, MICHAEL	3,004,422	MONDHE, DILIP MANIKRAO	3,004,534
MEHL, BENEDIKT	3,004,360	MILLAN, LUIS FERNANDO		MONGKOLSAPAYA,	
MEHTA, DHAIRYA DILIP	3,004,679	ROMERO	3,004,522	JUTHATHIP	2,988,499
MEHTA, VINAY K.	2,996,273	MILLER, BROCK	2,995,553	MONGUILLON, BERNARD	2,998,063
MEILLE, CHRISTOPHE	2,991,715	MILLER, DANFORTH	2,996,635	MONNIKES, RENE	3,004,007
MELKKO, SAMU	2,990,764	MILLER, ERIK	3,004,726	MONROE, KATE	3,003,458
MELKOWITS, MASON COREY	2,996,388	MILLER, ERIK GORDON	3,004,511	MONTANARI, VITTORIO	3,003,465
MELLI, MAURO	3,004,319	MILLER, JAMES L.	3,004,414	MONTEIRO, MARIO ARTUR	3,004,305
MELLINGER, DAVID	3,004,274	MILLER, LORIS	3,004,309	MONTES PARRA, ROGER	
MELNIKOV, SERGEY		MILLER, SAMUEL A.	3,004,271	FELIPE	2,994,912
MICHAILOVICH	3,004,358	MILLER, SAMUEL A.	3,004,278	MONTEYS, ALEJANDRO MAS	3,004,713
MELODEA LTD.	2,998,989	MILLER, STUART	3,004,603	MONTGOMERY, PAUL R.	3,004,052
MENANDER, KERSTIN B.	3,004,530	MILLER, STUART	3,004,607	MONTOYA, ERNEST	3,004,282
MENZEL, STEPHAN	3,004,792	MILLER, STUART	3,004,611	MOON, EUN JOUNG	2,992,971
MERCIER-CALVAIRAC,		MILLER, STUART	3,004,625	MOON, SUNG-HYUN	3,004,696
FABIEN	2,996,457	MILLNER, ROBERT	3,004,666	MOONEY, NATHAN K.	3,004,146
MERCK PATENT GMBH	3,004,369	MILOCCO, MAURO	2,994,216	MOOSMANN, BERNHARD	3,004,502
MERCK SHARP & DOHME		MIMETAS B.V.	2,991,876	MORAIS SEQUEIRA, ALBINA	
CORP.	2,994,635	MIMOUN, EMMANUEL	2,995,655	RAQUEL	2,998,289
MEREDITH, CALEB	3,004,346	MIN, BUM CHAN	2,993,920	MORGAN, ALAN J.	2,998,295
MERIAL INC.	3,004,589	MIN, BUM CHAN	2,993,923	MORI, TATSUYA	2,996,485
MERIAL, INC.	3,004,531	MIN, BUM CHAN	2,993,925	MORIMOTO, TEPPEI	2,993,751
MERIAN, RICHARD	3,004,410	MIN, BUM CHAN	2,993,928	MORIN-ALDEBERT,	
MERIENNE, LUDOVIC	2,997,889	MIN, JAEKI	2,993,929	DELPHINE PAULE RENEE	2,991,524
MERTENS, MACHTELD M. W.	3,004,308	MINCH, BRITT A.	3,004,081	MORONI, MARCO	3,004,621
MERTENS, OLIVER	2,998,230	MINDEGUA, JEAN-		MORRA, ANGELICA	2,996,391
MERUS N.V.	2,991,880	CHRISTOPHE	2,994,246	MORRIS, RYAN	2,995,438
MESSERLE, MARTIN	3,004,805	MINERVAX APS	3,004,631	MORROW, CLINT ADAM	3,004,074
MESWANIA, JAYANTILAL	2,993,139	MINIMAX GMBH & CO. KG	3,004,806	MORROW, CLINT ADAM	3,004,076
METABRAIN RESEARCH	2,988,625	MINNAAR, SANNET	3,003,581	MORROW, CLINT ADAM	3,004,291
METALOGENIA RESEARCH &		MINTOO, MUBASHIR JAVED	3,004,534	MORROW, CLINT ADAM	3,004,304
TECHNOLOGIES S.L.	2,993,410	MINZEL, WALEED	2,994,644	MORROW, CLINT ADAM	3,004,313
METBRO DISTRIBUTING LP	3,004,096	MIRSEPASSI, ALIREZA	2,989,278	MORROW, CLINT ADAM	3,004,318
METCHIK, ASHER L.	3,004,602	MISHRA, ASHOK	2,993,907	MORSLED, M. MONZUR	3,004,641
		MISHRA, VIVEK	2,997,364	MORSLED, M. MONZUR	3,004,714

## Index of PCT Applications Entering the National Phase

MOSCOU, MATTHEW JAMES	3,003,903	NAIDU, B. NARASIMHULU	2,991,464	NESTLER, MONTIA	3,004,481
MOSES, JOHN	3,004,810	NAIDU, B. NARASIMHULU	2,991,467	NETFLIX, INC.	3,004,769
MOSHAL, MARTIN PAUL	2,994,896	NAIDU, B. NARASIMHULU	2,994,512	NETWORK GROUP, S.R.O.	3,002,593
MOSSER, MATHILDE	3,004,192	NAIDU, B. NARASIMHULU	2,994,517	NEUHAUS, JOHANNES	3,004,503
MOSTERT, GERARD	2,996,266	NAIDU, B. NARASIMHULU	2,994,791	NEUSSL, STEFAN	3,004,814
MOSTOLLER, MATTHEW EDWARD	3,004,605	NAIDU, B. NARASIMHULU	2,995,042	NEVO, YUVAL	2,998,989
MOTION ENGINE INC.	3,004,760	NAIDU, B. NARASIMHULU	2,995,087	NEW GENERATION NATURAL GAS NATURAL GROWTH	2,986,189
MOTION ENGINE INC.	3,004,763	NAIDU, B. NARASIMHULU	2,995,099	NEWELL, ANDREW	3,003,550
MOTOROLA SOLUTIONS, INC.	2,997,381	NAIDU, B. NARASIMHULU	2,995,790	NEWLANDER, KENNETH ALLEN	2,990,474
MOTTRAM, STEPHEN	2,996,246	NAKAMURA, GENKI	2,993,423	NEWTON, MARK	2,983,801
MOULON, CORINNE	2,991,846	NAKAMURA, MINORU	2,988,572	NEXT BIOMED THERAPIES OY	2,991,953
MOURE, ANNE	3,004,192	NAM, HYE YEONG	2,998,092	NEXWRITER LIMITED	3,004,610
MOUSSA, AMGAD-SALAH	3,004,384	NAM, JIN SOO	2,997,396	NFONGUEM, GUSTAVE	2,996,852
MOUSSETTE, ADRIEN	2,997,939	NAM, TAE-GYU	3,004,595	NG, SARA MAN YEE	2,997,519
MOVAHEDI, SARA	3,004,165	NAPIERALA, MAREK	3,000,156	NGUYEN, THANH V.	3,004,602
MOVAHEDI, SARA	3,004,169	NARA, HIROSHI	2,992,700	NIC IMPEX	2,993,092
MOYER, ERIC P.	3,004,067	NARAYANASWAMY, NAGARJUN	2,996,665	NICOVENTURES HOLDINGS LIMITED	2,994,777
MOYER, ERIC P.	3,004,089	NARAYANASWAMY, NAGARJUN	2,996,666	NIEDERLANDER, JORN	2,994,481
MOYHER, CHARLES S.	3,004,301	NASILOWSKI, TOMASZ	3,000,156	NIELSEN, CURT AIME FRIIS	2,996,028
MUCHANG, YOBEL	3,003,897	NATARAJAN, CHANDRASHEKAR	3,004,139	NIELSEN, DAN MONSTER	2,997,167
MULAKALA, CHANDRIKA	2,997,531	NATARAJAN, CHANDRASHEKAR	3,004,179	NIEMELA, MIIA	2,995,032
MULCAHY, JOHN	2,991,588	NATARAJAN, CHANDRASHEKAR	3,004,283	NIJSSE, JACOB	3,004,512
MULDER, IMKE	2,988,657	NATARAJAN, CHANDRASHEKAR	3,004,294	NIKE INNOVATE C.V.	3,004,052
MULDER, IMKE	2,988,686	NATARAJAN, CHANDRASHEKAR	3,004,470	NIKLEWSKI, ANDRZEJ	2,996,253
MULDER, IMKE	2,988,695	NATARAJAN, CHANDRASHEKAR	3,004,470	NIKLEWSKI, ANDRZEJ	2,996,254
MULROONEY, CONOR	2,994,627	NATARAJAN, CHANDRASHEKAR	3,004,470	NIKLEWSKI, ANDRZEJ	2,996,255
MULROONEY, CONOR	2,994,630	NATIONAL DEEP SEA CENTER	2,990,647	NILSSON, HUGO	2,996,617
MULROONEY, CONOR	2,995,028	NATURA COSMETICOS S.A.	3,004,468	NIMRICHTER, VACLAV	2,995,508
MULTIVIR INC.	3,004,530	NATURIOL BANGOR LIMITED	2,997,863	NINKOVIC, SACHA	2,994,917
MULVEY, PATRICK JAMES MUMFORD, EUSTICE H. (DECEASED)	3,003,717	NAVEZ, NICOLAS	2,993,092	NIPPON KAYAKU KABUSHIKI KAISHA	2,995,053
MUN, DAE-YONG	2,997,696	NAVIPHARM CO, LTD	2,998,841	NIPPON STEEL & SUMITOMO METAL CORPORATION	3,003,958
MUNCH, JORG WERNER	2,996,373	NAYLOR, ALAN	2,997,519	NIROGI, RAMAKRISHNA	2,997,956
MUNDIN, GILL	2,994,103	NCM INNOVATIONS (PVT) LTD	3,004,466	NISHIMURA, TAKURO	3,004,691
MUNDIN, GILL	2,994,109	NEAL, ISAAC	3,003,907	NISSAN MOTOR CO., LTD.	2,997,889
MUNRO, SIMON	2,994,507	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST- NATUURWETENSCHAPP ELIJK ONDERZOEK TNO	2,997,900	NISSAN MOTOR CO., LTD.	3,004,395
MURAI, NORIO	3,004,623	NEENAH GESSNER GMBH	3,004,200	NISSAN MOTOR CO., LTD.	3,004,535
MURAKAMI, MASATAKA	2,988,572	NELSON, DOUGLAS MARTIN	2,993,411	NISSAN MOTOR CO., LTD.	3,004,537
MURAOKA, MASARU	2,993,423	NELSON, JOHN	3,004,629	NISSAN MOTOR CO., LTD.	3,004,539
MURAWSKI, MICHAL	3,000,156	NELSON, ROBERT	3,004,254	NISSHIN FOODS INC.	2,995,045
MURISON, IAN	2,997,119	NEMESIS BIOSCIENCE LTD	2,994,506	NITHIYANANDAM, KRTIN	2,992,915
MURRAY, PAUL	2,998,295	NEMETH, LASZLO	2,996,995	NITSCHKE, DAVID B	3,003,717
MURUGANATHAN, SIVA	3,004,405	NEMUNAITIS, BRADLEY	3,004,841	NITSCHKE, DAVID B.	3,003,901
MUSHTAQ, MUHAMMAD MUNEEB	3,004,774	NEO MONITORS AS	2,989,119	NITSCHKE, DEAN M.	3,003,901
MUSHTAQ, MUHAMMAD NABEEL	3,004,774	NEO-INNOVA HEALTHCARE LIMITED	3,004,810	NMI NATURWISSENSCHAFTLI CHES UND MEDIZINISCHES INSTITUT AN DER UNIVERSITAT TUBINGEN	3,004,671
MUTHUKUMAR, MURUGAPPAN	3,004,585	NEOLYS DIAGNOSTICS	2,993,871	NO.EL. S.R.L.	3,004,379
MX TECHNOLOGIES, INC.	3,004,338	NEOLYS DIAGNOSTICS	2,994,914	NOBLE ARTIFICIAL INTELLIGENCE, INC.	2,998,088
MYLAN LABORATORIES LIMITED	2,998,830	NESTEC S.A.	2,994,916	NOE, ANDREAS	3,004,532
MYUNG, SE-HO	2,984,479	NESTEC S.A.	2,995,154	NOK CORPORATION	3,004,691
NABAS GROUP, INC.	2,988,574	NESTEC S.A.	3,003,961	NOK CORPORATION	3,004,850
NACCARATO, FRANCESCO	3,004,352	NESTEC S.A.	3,004,043	NOLTE, FRIEDRICH	3,004,792
NACHAWATI, MAHER	3,004,462	NESTEC S.A.	3,004,044	NORDGREN, MATS	3,004,247
NAGAO, SATOSHI	3,004,623	NESTEC S.A.	3,004,046		
NAGLER, MICHAEL	2,986,370				
NAGLER, MICHAEL	2,986,514				
NAGLER, MICHAEL	2,986,518				
NAIDU, B. NARASIMHULU	2,990,575				
NAIDU, B. NARASIMHULU	2,991,268				

## Index des demandes PCT entrant en phase nationale

NORDIC MINESTEEL TECHNOLOGIES INC.	2,998,001	O'KEEFE, EAMONN	3,002,243	ORBITAL MULTI MEDIA HOLDINGS CORPORATION	2,981,638
NORKIN, ANDREY	3,004,769	O'REGAN, PHILIP	2,996,256	ORDENTLICH, PETER	3,004,369
NORRIS, AARON	3,004,268	OATES, JAMES	3,004,289	ORION CORPORATION	2,989,265
NORRIS, SEAN	2,984,086	OBA, KENICHI	3,004,691	ORIONIS BIOSCIENCES NV	3,003,969
NORTHQUIP INC.	2,998,006	OCEAN CURRENT ENERGY LLC	3,004,190	ORRANGE, JOHN	3,004,538
NORTHQUIP INC.	2,998,010	OCERA THERAPEUTICS, INC.	3,004,331	OSTERLING, JACOB	2,997,905
NORTHROP GRUMMAN SYSTEMS CORPORATION	3,004,084	OELLGAARD, CLAUS	2,997,225	OTA, SATOSHI	3,004,537
NORTHROP GRUMMAN SYSTEMS CORPORATION	3,004,335	OERLIKON METCO AG, WOHLN	3,004,380	OTIABA, KENNY	2,994,777
NORTHROP GRUMMAN SYSTEMS CORPORATION	3,004,337	OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON	3,004,481	OTSUKA PHARMACEUTICAL FACTORY, INC.	3,004,153
NOTO, KEITH D.	2,991,230	OFEI, KIRK ANGUAH	2,992,973	OTSUKA PHARMACEUTICAL FACTORY, INC.	3,004,398
NOTO, KEITH D.	2,992,397	OFFERMANN, VOLKMAR	3,004,500	OU, JIAN ZHEN	2,989,191
NOTTS SPORT GROUP LIMITED	2,993,501	OGINO, MASAKI	2,988,572	OUTOTEC (FINLAND) OY	2,991,462
NOUAILLE, REGIS	2,991,003	OH, EUH LIM	2,999,823	OVOKAITYS, TODD FRANK	3,004,614
NOV DOWNHOLE EURASIA LIMITED	2,991,845	OH, HYEONGCHAN	2,990,277	OWEN, DAFYDD RHYS	2,996,389
NOVA CHEMICALS CORPORATION	2,993,502	OH, HYUN CHEOL	3,004,656	OWENS CORNING INTELLECTUAL CAPITAL, LLC	3,004,434
NOVARA, MONICA	2,996,391	OH, JUN-HO	2,997,272	OXEAU INVEST	3,004,812
NOVARTIS AG	2,989,094	OH, JUNG TAEK	2,994,688	OXFORD BIODYNAMICS LIMITED	2,988,673
NOVARTIS AG	2,989,278	OH, YOUNG-HO	2,984,479	OXFORD BIODYNAMICS LIMITED	2,988,674
NOVARTIS AG	2,990,764	OHIO STATE INNOVATION FOUNDATION	3,004,408	OXFORD UNIVERSITY INNOVATION LIMITED	2,995,656
NOVARTIS AG	2,991,715	OHLER, JEFFREY	3,004,841	OXO CHEMIE (THAILAND) CO., LTD	2,995,659
NOVARTIS AG	2,991,857	OHMAN, HENRIK	2,997,573	PACCAR INC	3,004,079
NOVARTIS AG	2,992,812	OHTA, MITSUNORI	3,004,535	PAGANO, IAN	2,996,368
NOVARTIS AG	2,992,823	OHTA, MITSUNORI	3,004,537	PAGLIERANI, PIETRO	3,004,682
NOVARTIS AG	2,992,949	OHTANI, NAOKO	3,000,237	PAILLARD, AMAURY	2,997,812
NOVARTIS AG	2,992,952	OISHI KOSEIDO CO., LTD.	2,996,485	PAL, PRALAY KUMAR	3,004,047
NOVARTIS AG	2,993,416	OKUMURA, TAKAKO	3,000,237	PALANISAMY, MURALI	2,992,402
NOVARTIS AG	2,993,417	OLBRICH, CARSTEN	3,004,789	PALANISAMY, MURALI	2,998,465
NOVARTIS AG	2,993,908	OLCZAK, JACEK P.	2,997,382	PALENCIA, SERVANDO	3,004,794
NOVARTIS AG	2,994,516	OLEJNICZAK, SYLWIA	2,997,382	PALLA-VENKATA, CHANDRA SEKHAR	3,004,604
NOVARTIS AG	2,994,918	OLEJNIK, JERZY	3,004,060	PALLAI, FABRIZIO	2,994,362
NOVARTIS AG	2,995,795	OLENIK, BRITTA	3,004,360	PALLE, VENKATA P.	2,991,232
NOVARTIS AG	2,996,635	OLF, GUENTER	3,004,384	PALLE, VENKATA P.	2,996,263
NOVARTIS AG	3,003,986	OLIN, MICHAEL	3,004,048	PALMER, BRUCE	3,004,196
NOVARTIS AG	3,004,094	OLLERENSHAW, ANDREW	3,004,428	PALMER, JOE	3,003,550
NOVARTIS AG	3,004,158	OLLIKAINEN, ARTO	2,991,462	PALMER, STEPHEN	2,990,541
NOVARTIS AG	3,004,213	OLSEN, FRODE BERG	3,003,966	PALMER-FELGATE, JOHN PAUL	3,004,130
NOVARTIS AG	3,004,232	OMEROS CORPORATION	3,004,753	PALMRE, VILJAR	3,004,201
NOVARTIS AG	3,004,517	OMRIX BIOPHARMACEUTICALS LTD.	3,004,521	PALOBIOFARMA, S.L.	2,994,918
NOVIK, AMIT	2,991,980	OMRIX BIOPHARMACEUTICALS LTD.	3,004,524	PALUD, SEBASTIEN	2,994,728
NOVO NORDISK A/S	3,004,145	OMURA, MASATO	2,995,045	PAN, BIN	3,004,098
NOVOTNY, MARK A.	3,004,526	ONCOARENDI THERAPEUTICS S.A.	2,997,382	PANCHAL, AMIT RANJIT	3,003,553
NP AEROSPACE LIMITED	2,993,765	ONEFUSION AG	3,004,480	PANCOSMA SA	3,004,836
NRG ENERGIA S.R.L.	2,995,316	ONUOHA, SHIMOB	2,995,785	PANDEY, ASHISH	2,993,907
NSK LTD.	3,004,399	OOKI, OSAMU	3,004,395	PANG, GUOFENG	3,004,354
NUFARM AMERICAS, INC.	3,004,762	OOMMEN MAMMEN, ANUP	2,993,922	PANG, GUOFENG	3,004,356
NURALOGIX CORPORATION	2,998,687	OORTMAN, RUBEN	2,995,432	PANHUBER, WOLFGANG	3,004,666
NY, TOR	3,004,509	OOSTERVELD, ALEXANDER	2,990,007	PANMAND, ANIL	2,993,312
NYGAARD, PETER D.	3,004,289	OPI VI- IP HOLDCO LLC	3,004,830	PANTEX INTERNATIONAL S.P.A.	2,997,238
NYHAVN, FRIDTJOF	2,997,901	OPTIMEDICA CORPORATION	3,003,870	PANZARIN SAVIETTO, JOICE	3,004,468
NYMOX CORPORATION	2,992,174	OPUS ONE SOLUTIONS ENERGY CORP.	3,004,649	PANZIERA, EDOARDO GIACOMO	3,004,621
NYVOLD, STIG OLUF	3,003,966	ORANGE	2,999,947		
O'BRIEN, JOHN J. V.	3,004,179	ORANO MED	3,004,689		
O'BRIEN, JOHN J., V	3,004,139	ORBIS CORPORATION	3,004,402		
O'BRIEN, KEVIN	3,004,295				
O'CONNOR, MICHAEL	3,004,051				
O'DOHERTY, JOHN	3,004,829				
O'DONNELL, JUDE	2,993,142				

## Index of PCT Applications Entering the National Phase

PAO, HUAN-CHAUN	3,000,601	PATEL, MANOJ	2,991,467	PERKINS, JASON DEAN	3,001,144
PAPA, LAURA	3,004,378	PATEL, MANOJ	2,994,517	PERNI, STEFANO	3,003,965
PAPAC, MICHAEL J.	2,989,278	PATEL, MANOJ	2,995,099	PEROZ, CHRISTOPHE	3,004,319
PAPAC, MICHAEL J.	2,992,812	PATEL, NANDINI		PERPEZAT, DANIEL	2,998,309
PAPAC, MICHAEL JAMES	3,004,213	CHATURBHAI	2,989,456	PERRIER, CEDRIC	3,004,209
PAPAIOANNOU, NIKOLAOS	2,996,389	PATEL, NARENDRA	3,004,641	PERRIN, FRANCOIS-XAVIER	3,004,386
PAPASAKELLARIOU, ARIS	2,981,449	PATEL, SACHIN V.	2,991,273	PESSIOT, JEREMY	2,991,003
PARADKAR, VIKRAM		PATEL, SHWETAK N.	3,004,832	PESTUN, VADIM	2,994,508
MADHUSADAN	2,989,187	PATHAK, RAVI	3,004,421	PESTUN, VADIM	2,994,511
PARADOWSKI, HENRI	2,992,791	PATIL, AVINASH DADASO	3,003,553	PETER, AKOS	3,004,325
PARAGRAF LIMITED	2,995,141	PATIL, MADHUKAR	2,998,830	PETER, THOMAS HARALD	3,004,368
PARAILLOUS, MAXIME	3,004,817	PATIL, PRADEEP RANGRAO	2,996,263	PETERSON, KELLY S.	3,004,259
PARCELLA, KYLE E.	2,991,464	PATIL, SANTOSH	2,993,312	PETERSON, KELLY S.	3,004,267
PARCELLA, KYLE E.	2,994,791	PATNY, AKSHAY	2,995,153	PETIT, ROBERT	2,990,570
PARCELLA, KYLE E.	2,995,099	PATSCH, CHRISTOPH	3,004,799	PETITFILS, MICKAEL	2,989,785
PARDESHI, SHAILESH		PATTERSON, ANGELA		PETITFILS, MICKAEL	2,992,930
RAMESH	2,993,304	MARGARET	2,988,657	PETRASHOV, VICTOR	
PARIKH, PAYAL KIRAN	2,997,531	PATTERSON, ANGELA		TIKHONOVICH	2,993,345
PARK, BRIAN VANDELLEYN	3,004,260	MARGARET	2,988,686	PETRASHOV, VICTOR	
PARK, EUNICE SUN	3,004,623	PATTERSON, ANGELA		TIKHONOVICH	2,997,348
PARK, JAE YEON	2,999,821	MARGARET	2,988,695	PETRETTO, FRANCK	2,990,345
PARK, JIN HUN	2,997,549	PATTERSON, FIONNUALA	2,993,142	PETRO-PACK AB	2,996,617
PARK, JISEON	2,990,277	PATTERSON, SUZANNE	3,004,417	PEYROT, JACQUES	3,004,531
PARK, JUNG-HYUN	2,992,969	PATTON, THOMAS	2,990,326	PEZET, BERNARD	3,003,495
PARK, KYUNG-MO	2,997,027	PATWARDHAN, SIDDHARTH		PFEIFFER, CHARLES	3,004,620
PARK, SANG JIN	2,988,715	VIJAY	2,997,377	PFIZER INC.	2,989,456
PARK, SEONG JIN	2,995,675	PAULY, CHRISTOPHER MARK	3,004,254	PFIZER INC.	2,994,917
PARK, SOO-HONG	2,988,214	PAUM, PEEP	2,995,515	PFIZER INC.	2,995,153
PARK, SOON JAE	2,990,582	PAUSINI, SIMONE	2,995,316	PFIZER INC.	2,996,389
PARK, SU JIN	2,990,376	PAUTARD, SEBASTIEN	3,004,161	PFIZER INC.	3,004,369
PARK, SU JIN	2,992,970	PAVESI, ANDREA	3,004,596	PHAGENESIS LIMITED	2,994,627
PARK, SUNG MAN	2,988,715	PAVLIK, L'UBOMIR	2,996,474	PHAGENESIS LIMITED	2,994,630
PARK, SUNG-WOO	2,992,969	PAYLING, LAURA	3,004,522	PHAGENESIS LIMITED	2,995,028
PARK, TAESUN	2,995,675	PAZ ABUIN, SENEN	2,995,162	PHARMAFILTER B.V.	2,993,129
PARK, WOO ILE	2,997,549	PAZOLLI, ERMIRA	3,004,623	PHARMANUTRA S.P.A.	2,995,314
PARK, YONG MAN	3,004,197	PEARCE, ALAN CHARLES	2,995,424	PHILIPP, NORMAN	2,987,825
PARK, YOUNG JIN	2,991,107	PEDERSEN FISCHER, PER BO	3,004,631	PHOOD STATION	2,997,734
PARKER, GLEN C.	3,004,314	PEDERSEN, ANDERS	3,004,632	PHYN LLC	3,004,832
PARKER, TOM	2,994,208	PEDERSEN, LYKKE	3,004,799	PIAGGIO & C. S.P.A.	2,993,756
PARKES, EILEEN	2,993,142	PEDEVILLA, PATRICK	2,997,043	PIAGGIO & C. S.P.A.	2,993,757
PARKS, PAUL A.	3,004,282	PEESE, KEVIN	2,994,517	PIAGGIO & C. S.P.A.	2,994,220
PARKVALL, STEFAN	3,003,388	PEI, WEI	2,984,657	PIAGGIO & C. S.P.A.	2,994,376
PARNHAM, MICHAEL	3,004,363	PEI, YANLIANG	2,990,647	PIBAROT, PATRICK	2,995,154
PARSONS, JOHN C.	3,004,619	PELLATON, BERTRAND		PICARD, LYONEL	3,004,616
PARSONS, TINA	2,996,436	GUILLAUME ROBIN	2,997,939	PICHLER, VERENA	3,004,630
PARTHASARADHI REDDY,		PELLENGO GATTI, ROBERTO	3,004,379	PICKWORTH, MARK	2,993,484
BANDI	2,995,662	PELLIZZON, IRENE	2,997,235	PICKWORTH, MARK	2,994,143
PARUCH, LUCAS I.	3,004,289	PELTON TECHNOLOGY,		PICKWORTH, MARK	2,994,203
PARUCH, LUCAS I.	3,004,608	INC.	3,004,051	PIERACCINI, MASSIMILIANO	2,993,902
PARZY, DOMINIQUE	2,999,945	PENG, XUEGANG	3,004,797	PIERCE, BETSY SUSAN	2,995,153
PARZY, SEBASTIEN	2,999,945	PENN ALUMINUM		PIERCE, KRISTEN	3,004,794
PASCAUD, STEPHANE	2,997,812	INTERNATIONAL LLC	3,004,268	PIETSCHMANN, THOMAS	3,004,805
PASCAULT, JEAN-PIERRE	2,995,162	PENTON, JULIE-ANN	3,002,493	PIGNATEL, JEROME	2,997,024
PASTOR FERNANDEZ,		PENVER, MARK	2,997,661	PIKE, BRIAN	3,004,762
JOAQUIN	2,996,233	PEPSICO, INC.	3,004,462	PILKINGTON GROUP	
PATEL, AMIT N.	3,004,742	PEQUEGNAT, BRITTANY		LIMITED	2,993,411
PATEL, DARSHIN S.	3,004,602	MICHELE	3,004,305	PINCHUK, ANATOLY	3,004,458
PATEL, DHAVAL	2,992,800	PEREIRA, BRUNO RUFATO	3,003,595	PINHEIRO, ELAINE	2,994,635
PATEL, DHAVAL	2,992,809	PEREIRA, SANDRINE	2,993,871	PINHOLT, NIELS	2,997,225
PATEL, DIMKI S.	3,004,742	PEREIRA, SANDRINE	2,994,914	PINO, JORGE	2,997,521
PATEL, MANISH	2,997,364	PERERA, PRINS	2,997,277	PIONEER HI-BRED	
PATEL, MANISH	2,997,463	PEREYRA GUERRERO,		INTERNATIONAL, INC.	3,004,056
PATEL, MANOJ	2,991,268	DULCE CONCEPCION	3,004,376	PIOTROWICZ, MICHAL C.	2,997,382
PATEL, MANOJ	2,991,464	PERITT, DAVID	3,004,738	PIOTROWSKI, ADAM	3,004,620



## Index des demandes PCT entrant en phase nationale

PIPELIFE NEDERLAND B.V.	2,998,315	PPG INDUSTRIES OHIO, INC.	3,004,292	QIN, SHUYI	2,998,871
PIPER, LEE JAMES	2,992,520	PRAJAPATI, SUDEEP	3,004,623	QINGDAO KINGAGROOT RESISTANT WEED MANAGEMENT CO., LTD.	3,004,797
PIRON, CAMERON ANTHONY	3,004,167	PRAKASH, MAYANK	3,004,420	QINGDAO XINYAODI AGRICULTURAL TECHNOLOGY JOINT- STOCK CO., LTD.	2,989,711
PITCHUMANI, RAMANAN	3,004,312	PRANGE, MICHAEL DAVID	3,004,112	QU, XIANGDONG	3,004,804
PITCHUMANI, RAMANAN	3,004,315	PRAXAIR TECHNOLOGY, INC.	3,004,415	QUADRISE INTERNATIONAL LTD	3,004,195
PIVERT, LAURENT	2,998,309	PRAXAIR TECHNOLOGY, INC.	3,004,768	QUADRO VEHICLES S.A.	3,004,621
PLANT BIOSCIENCE LIMITED	2,990,566	PREMIER RESEARCH LABS, LP	3,004,622	QUALCOMM INCORPORATED	3,003,882
PLANTE, OBADIAH JOSEPH	3,004,790	PRENDES GONZALES, PILAR	2,995,162	QUALCOMM INCORPORATED	3,003,912
PLETNYOV, OLEKSIY	3,004,339	PRENZEL, ALEXANDER	3,003,945	QUALCOMM INCORPORATED	3,004,100
PLITZKO, MATTHIAS	3,004,789	PRESCIENT PHARMA LLC	3,004,059	QUALCOMM INCORPORATED	3,004,185
PLOTKIN, STEVEN S.	3,004,482	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	3,004,285	QUALCOMM INCORPORATED	3,004,262
PLOTKIN, STEVEN S.	3,004,493	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	3,004,347	QUALCOMM INCORPORATED	3,004,442
PLOTKIN, STEVEN S.	3,004,494	PRESLEY, GEOFFREY	3,004,204	QUALCOMM INCORPORATED	3,004,485
PLOTKIN, STEVEN S.	3,004,496	PRESTA, LEONARD G.	3,004,743	QUALCOMM INCORPORATED	3,004,609
PLOTKIN, STEVEN S.	3,004,498	PREVOST, JULIE	2,998,442	QUALCOMM INCORPORATED	3,004,764
PLOTKIN, STEVEN SAMUEL	3,004,593	PRICE, BETHANIE	2,989,388	QUALCOMM INCORPORATED	3,004,770
PLUTA, ELZBIETA	2,997,382	PRICE, CHARLES A.	3,004,051	QUANTUM DENTAL TECHNOLOGIES INC.	3,004,499
POETZ, OLIVER	3,004,671	PRICE, GENE TEMPLE	3,004,711	QUANTUM ROBOTIC SYSTEMS INC.	3,004,352
POINTEK, ANDRE	2,998,781	PRICEMAN, SAUL J.	3,004,306	QUEK, SUNG	2,993,137
POIROT, LAURENT	3,004,171	PRIMETALS TECHNOLOGIES AUSTRIA GMBH	3,004,666	QUICKSTYLE INDUSTRIES INC.	3,004,243
POKORSKA-BOCCI, ANNA	2,991,846	PRINS, MARINUS WILLEM	2,996,806	QUINN, SARAH	3,004,178
POLAGE, SARAH	2,997,308	PROBIOTICAL S.P.A.	3,004,486	QUINTANA BUSTAMANTE, OSCAR	3,004,171
POLI MD S.R.L.	2,995,552	PROCHNOW, HANS-PETER	3,004,805	QUINTILIANI, JOSEPH D.	3,004,136
POLI, ELENA	2,995,552	PROGENITY, INC.	3,004,527	QUIROGA, JUAN ANTONIO	2,985,959
POLIAKOV, EVGENI	3,004,319	PROKOPOVICH, POLINA	3,003,965	R.P. SCHERER TECHNOLOGIES, LLC	3,004,302
POLITECNICO DI TORINO	2,996,391	PROMETIC BIOTHERAPEUTICS, LTD.	3,004,509	R.P. SCHERER TECHNOLOGIES, LLC	3,004,584
POLLAK, JOSEPH JOEL	2,998,829	PROPHOS CHEMICALS SRL	2,992,070	RA, YONG-KUK	2,997,415
POLSKIE CENTRUM FOTONIKI I SWIATLOWODOW	3,000,156	PROSKE, THOMAS	2,996,373	RAAD, ISSAM	3,004,307
POLYACTIVA PTY LTD	2,997,519	PROTHENA BIOSCIENCES LIMITED	2,994,518	RABE, THOMAS ELLIOT	3,004,483
POLYCZYNSKI, PIOTR	2,998,293	PROTO, ANTONIO ALFONSO	3,004,472	RABE, THOMAS ELLIOT	3,004,606
POLYMER COMPETENCE CENTER LEOBEN GMBH	2,997,517	PROUTSKI, VITALI	2,993,142	RABHI, VIANNEY	2,998,581
POMMER, STIG	3,004,355	PRUITT, BENJAMIN W.	3,004,285	RABINOWITZ BATZ, NITZAN	3,004,388
POMMIER, REGIS	2,994,246	PRYSMIAN S.P.A.	3,004,473	RABUKA, DAVID	3,004,584
POPIK, TERRY DEAN	3,004,774	PUCHEGGER U. JILG PARKETT GROSS U. EINZELHANDELS GES.M.B.H.	2,995,388	RACHID, RIMA	3,003,908
POPP, MICHAEL J.	3,004,602	PUCHEGGER, ALFRED	2,995,388	RACKHAM, MARK DAVID	2,994,143
PORTER, TERRY	2,981,218	PUFKY-HEINRICH, DANIELA, DR.	2,997,308	RADIXKHEM, LLC	3,004,617
PORTIL, ROB	3,004,610	PUIG CASTELLO, ALBERT	2,993,410	RAE, STEPHEN	3,004,624
POS, WOUTER	2,989,551	PUJOLS, MAYO	2,990,570	RAFFAELLI, ANDREA	2,993,756
POSPIESZNY, HENRYK	2,993,634	PULE, MARTIN	2,995,775	RAFFAELLI, ANDREA	2,993,757
POST, LEONARD E.	3,003,422	PULE, MARTIN	2,995,785	RAFFAELLI, ANDREA	2,994,220
POTESTA, LAURENT	2,990,759	PULLMANOVA, MONIKA	3,004,776	RAFFAELLI, ANDREA	2,994,376
POUGET, GAELLE	2,997,024	PUMA SE	3,004,612	RAFTIS, EMMA	2,988,657
POULON, ANGELINE	3,004,817	PURAC BIOCHEM B.V.	2,989,390	RAFTIS, EMMA	2,988,686
POUPART, MARC-ANDRE	3,004,641	PURUSOTHAMAN, ANAND	2,992,402	RAFTIS, EMMA	2,988,695
POUPART, MARC-ANDRE	3,004,714	PYLOTE	3,004,343	RAGHAVENDRA, E. VEERA	3,004,700
POURNAGHI, REZA	2,984,657	PYROPHASE, INC.	3,004,204	RAHMAN, KHONDAKER MIRAZUR	2,996,406
POURTAUD, NICOLAS	2,987,522	QBO COFFEE GMBH	3,004,626	RAHNAMEA, HOSSEIN	3,004,475
POW, ANDREW	2,991,980	QF TECHNOLOGIES AS	3,004,673	RAISBECK, DEBORAH	2,993,411
POWERCHORD GROUP LIMITED	2,992,510	QIAGEN SCIENCES LLC	3,004,060	RAJAGOPAL, SRIDHARAN	2,997,531
POWERCHORD GROUP LIMITED	2,992,512	QIAN, XINMING	2,992,823	RAJKOVICH, SAMANTHA	3,004,504
POWERS, GORDON	3,004,117	QILU PHARMACEUTICAL CO., LTD.	3,004,147		
POWERS, GORDON	3,004,134	QIN, DAKUN	3,004,147		
POWERS, GORDON	3,004,138				
POWERS, JANINE	3,004,794				
POYNTER, GREGORY M.	3,004,176				
POYNTER, GREGORY M.	3,004,177				
POZNANSKY, MARK C.	3,004,738				
POZNANSKY, MARK C.	3,004,772				
POZZUOLI, MARZIO	2,998,687				

## Index of PCT Applications Entering the National Phase

RALLINGS, PAUL JOHN		REISHUS, TERRY G.	3,004,782	ROBERTS, CHRISTOPHER D.	3,004,492
MICHAEL	2,998,273	REISSIG, ERIK J.	3,004,414	ROBERTS, ESTEBAN	3,004,504
RAMADASS, AROUL	2,988,673	REITMEYER, TIM JAY	3,004,749	ROBERTSON, STEVE	2,997,158
RAMADASS, AROUL	2,988,674	RELIANCE WORLDWIDE		ROBIN, FRANCOIS	2,993,919
RAMAIAH, MANJUNATHA M	2,997,531	CORPORATION (AUST.)		ROBINSON, CHRIS	3,004,736
RAMAKRISHNAN,		PTY. LTD.	3,004,109	ROBITAILLE, MARTIN	3,004,509
BOOPATHY	3,004,790	REN, HUGANG	2,989,094	ROBSON, PHILIP	2,995,927
RAMAN, VENKATA	3,003,465	REN, HUGANG	2,993,416	ROCHAU, ANDREAS	3,004,089
RAMARATNAM, KARTHIK	3,004,619	REN, HUGANG	2,993,417	ROCHFORD, JEAN-MARC	2,996,588
RAMDAS, VIDYA	2,996,263	REN, HUGANG	3,004,232	ROCKWELL, ANTHONY LEE	3,004,434
RAMIREZ SANTIAGO,		REN, HUGANG	3,004,517	RODRIGUEZ SANCHEZ,	
GUILLERMO	2,995,021	RENYI, GABOR	2,998,822	DARIANA GRACIELA	2,998,291
RAMIREZ, FRANCISCO		RESIWAY - SOLUCOES		RODRIGUEZ, ABRAHAM	3,004,312
JAVIER	2,992,819	SUSTENTAVEIS, LDA.	2,998,289	RODRIGUEZ, ABRAHAM	3,004,315
RAMLAL, DINESH RAVINDRE	2,997,900	RESKALA, ALEJANDRO	3,004,599	ROERDINK-LANDER,	
RANGANATHAN, SATHISH		RESOLUTION BIOSCIENCE,		MONIQUE	3,004,336
KUMAR	3,004,844	INC.	3,004,435	ROESLER, ROBERTA	3,004,468
RASANEN, JUKKA	3,004,662	RESPONSIBLE ENERGY INC.	3,004,164	ROHM AND HAAS COMPANY	3,004,207
RASMUS, TODD MORGAN	3,003,912	RESURRECCION, FERMIN P.		ROI MEIZOSO, LOUREIRO	2,995,162
RASMUSSEN, SOREN		JR.	3,004,182	ROLAND MURTEN AG	3,004,382
VESTERGAARD	3,004,799	REUTHER, JAMES J.	3,003,720	ROLANDO, GIOVANNI	2,991,854
RATERMAN, MICHAEL		REY, FELIX AUGUSTO	2,988,499	ROLLE, ULRICH	3,004,119
FRANCIS	3,004,068	REYES, HARI MARK	3,004,613	ROLLI, GIAN PAOLO	2,998,105
RATHNAKAR REDDY, KURA	2,995,662	REYNES, PIERRE	2,995,154	ROLLI, STEFANO	2,994,389
RATKOVICH, MICHAEL	3,004,622	RHODES, TODD ALAN	3,004,106	ROMANO, JOSEPH	3,004,711
RATTUNDE & CO GMBH	3,004,206	RICE, CHARLES F.	2,997,380	ROMAX TECHNOLOGY	
RATTUNDE, ULRICH	3,004,206	RICE, CHARLES F.	3,004,228	LIMITED	2,997,182
RAUCH, JEREMIAH J.	3,004,415	RICHARD, STEPHANE	2,997,164	ROMBERGER, CHARLES	3,004,528
RAVENSROFT, MATTHEW		RICHARD-BILDSTEIN,		ROMER, TINA	3,004,671
JOHN	2,992,517	SYLVIA	2,989,098	ROMINE, JEFFREY LEE	2,991,467
RAYMOND, CHRISTOPHER K.	3,004,435	RICHIE, NICOLE	3,004,348	ROMINE, JEFFREY LEE	2,994,512
RAYMOND, THOMAS D.	3,003,907	RICKARDS, CHRISTINE	3,003,959	RONDEAU, JEAN-MICHEL	
RAYNAL, SOPHIE N.	2,988,625	RIDD, JOHN	3,002,735	RENE	2,996,635
RDC SYSTEMS, LLC	3,004,351	RIESCO FAGUNDO, ROSARIO		ROOS, FREDRIK	2,993,914
READY GRIP		CONCEPCION	2,996,233	ROOS, THOMAS	3,004,365
TECHNOLOGIES, LLC	2,998,903	RIFANI, ANDREAS	3,004,237	ROQUES, SEBASTIEN	2,989,785
RECCA, GIUSEPPE RENATO		RIGAIL, FRANCOIS	2,987,522	ROQUES, SEBASTIEN	2,992,930
MASSIMO	2,994,058	RIGHI, MATTEO	2,995,775	ROQUETTE FRERES	2,991,739
RECIO, ANTONIO, III	3,004,604	RIGHI, MATTEO	2,995,785	ROQUETTE FRERES	2,995,162
RECKITT BENCKISER		RIGOLA, DIANA	2,996,806	ROSENBLATT, JACALYN	3,004,597
(BRANDS) LIMITED	2,995,800	RIJK ZWAAN ZAADTEELT EN		ROSENBLATT, JOEL	3,004,307
RECKITT BENCKISER		ZAADHANDEL B.V.	3,004,165	ROSENFELLNER, GERALD	3,004,666
(BRANDS) LIMITED	2,997,174	RIJK ZWAAN ZAADTEELT EN		ROSENTHAL, ARNON	3,003,458
RECKITT BENCKISER		ZAADHANDEL B.V.	3,004,169	ROSICKY, JIRI	2,996,246
(BRANDS) LIMITED	2,997,207	RIJSUNIVERSITEIT		ROSIINGER, CHRISTOPHER	
RECKITT BENCKISER		GRONINGEN	2,999,428	HUGH	3,004,360
(BRANDS) LIMITED	2,998,722	RILEY, BRIAN	3,003,870	ROSS, GAVIN	2,999,681
REDDY, THUMKUNTA		RILEY, BRIGIT E.	3,004,349	ROSSI, TEEMU KALEVI	2,994,511
JAGADEESWAR	2,988,680	RIOCHET, DAVID	3,004,192	ROTACHROM TECHNOLOGIA	
REEVES, PATRICK	3,004,738	RITCHIE, JOHN	2,997,661	KFT.	2,996,995
REEVES, PATRICK	3,004,772	RITE-HITE HOLDING		ROTH SHALEV, SIGAL	2,998,989
REGENTS OF THE		CORPORATION	3,004,141	ROTH, STANLEY	3,004,226
UNIVERSITY OF		RITE-HITE HOLDING		ROTHBAUER, ULRICH	3,004,671
MINNESOTA	3,004,048	CORPORATION	3,004,289	ROTHBERG, JONATHAN M.	3,004,636
REGNIER, MARIE-CHRISTINE	3,004,528	RITE-HITE HOLDING		ROTOLA-PUKKILA, JANI	2,994,511
REICK, HANSJORG	2,996,918	CORPORATION	3,004,608	RO TSAERT, CHRISTOPHER	2,993,135
REID, HELEN	2,989,271	RIVERO BUCETA, VIRGINIA	2,996,233	ROUGHTON, ANDREW L.	3,004,641
REID, STEPHEN	2,994,902	RIX, DOROTHEA ISABEL		ROUGHTON, ANDREW L.	3,004,714
REIN, NORBERT	3,004,666	MAUD	2,994,470	ROUNTREE, RYAN	2,990,549
REIS FIGUEIREDO, BRUNO	2,995,433	RNA INC.	2,999,821	ROUVINSKI, ALEXANDER	2,988,499
REISCHER, ANDREW J.	3,004,538	ROAM DATA, INC.	2,993,135	ROUX, MATHIEU	2,993,488
REISENBERGER GMBH	2,988,646	ROBB, STEVEN	2,998,712	ROVERE, FLORIAN	3,004,481
REISENBERGER, FRANZ	2,988,646	ROBBERECHT, LIEVEN	2,985,559	ROVI GUIDES, INC.	3,004,281
REISENBERGER, KLAUS	2,988,646	ROBERT BOSCH GMBH	3,004,357	ROVINELLI, MASSIMILIANO	2,996,676

## Index des demandes PCT entrant en phase nationale

ROWE, ANDREW	3,004,254	SAFRAN AIRCRAFT ENGINES	2,997,939	SAMSUNG ELECTRONICS	
ROY, SAMIR	3,004,364	SAFRAN AIRCRAFT ENGINES	2,998,277	CO., LTD.	3,004,656
ROYAL HOLLOWAY AND BEDFORD NEW COLLEGE	2,997,348	SAFRAN AIRCRAFT ENGINES	2,998,731	SAMUEL, TINU MARY	3,004,043
ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY	2,989,191	SAFRAN ELECTRICAL & POWER	2,998,440	SAMUEL, TINU MARY	3,004,044
ROYAL UNITED HOSPITALS BATH NHS FOUNDATION TRUST	2,995,320	SAFRAN ELECTRONICS & DEFENSE	3,004,825	SAMUMED, LLC	3,004,046
ROZENBERG, OHAD	3,004,529	SAFRAN HELICOPTER ENGINES	2,996,457	SAMUMED, LLC	3,004,506
ROZOWSKI, PETER M.	3,004,207	SAFRAN HELICOPTER ENGINES	2,997,164	SAMYANG BIOPHARMACEUTICALS CORPORATION	2,993,920
ROZSA, BALAZS	2,994,903	SAFRAN HELICOPTER ENGINES	2,997,812	SAMYANG BIOPHARMACEUTICALS CORPORATION	2,993,923
RU, YUANBIN	3,003,422	SAFRAN POWER UNITS	2,998,061	SAMYANG BIOPHARMACEUTICALS CORPORATION	2,993,925
RUBENSTEIN, DAVID	2,993,288	SAFRAN TRANSMISSION SYSTEMS	2,998,054	SAMYANG BIOPHARMACEUTICALS CORPORATION	2,993,928
RUBIN BEN HAIM, NIR	2,986,370	SAGBERG, HAKON	2,989,775	SAMYANG BIOPHARMACEUTICALS CORPORATION	2,998,092
RUBIN BEN HAIM, NIR	2,986,514	SAHIN, FIKRETTIN	2,995,924	SANCHEZ MADRID, FRANCISCO	2,995,021
RUBIN BEN HAIM, NIR	2,986,518	SAIAH, EDDINE	2,995,153	SANCHEZ, ROBERT	2,993,417
RUBIN, GREGORY ALAN	3,004,189	SAIAH, EDDINE	2,996,389	SANDERCOTT, MICHAEL	2,993,765
RUCKHEIM, MARKUS	3,004,137	SAIDA, NAOYUKI	2,996,485	SANDERS, DAVID	2,997,174
RUDKIN, SCOTT	2,995,800	SAINT-GOBAIN GLASS FRANCE	2,995,345	SANDERS, DAVID	2,998,722
RUDKIN, SCOTT	2,997,207	SAINT-GOBAIN GLASS FRANCE	2,995,471	SANDERS, LISA	3,004,336
RUETHER, FEELLY	3,004,795	SAINT-GOBAIN GLASS FRANCE	2,995,476	SANDERSON, KEVIN DAVID	2,993,411
RUETHER, FEELLY	3,004,802	SAINT-GOBAIN GLASS FRANCE	2,995,655	SANDHOLZER, MARTINA	3,004,383
RUF, BENJAMIN	3,004,671	SAINT-GOBAIN GLASS FRANCE	3,004,500	SANDNES, ANDERS	3,004,157
RUFER, JARED	3,004,601	SAINT-GOBAIN GLASS FRANCE	3,004,508	SANG, SHUHUA	2,989,846
RUFFINI, ANDREA	2,994,049	SAINT-GOBAIN GLASS FRANCE	3,004,510	SANGAMO THERAPEUTICS, INC.	3,004,349
RUHLMANN, DENIS	2,994,622	SAINT-GOBAIN GLASS FRANCE	3,004,664	SANGHANI, SUNIL	2,996,258
RUHRNOSSL, ERICH	2,993,238	SAINT-GOBAIN GLASS FRANCE	3,004,664	SANGSTER, JOHN DAVID	2,996,228
RUISSEN, JOHANNES	2,996,837	SAINT-GOBAIN ISOVER	2,996,069	SANJABI, SAM	2,984,657
RUIZENAAR, RUUD	2,996,495	SAINT-GOBAIN PLACO	2,996,069	SANTOLUBES LLC	3,004,788
RUNWAY BLUE, LLC	3,003,913	SAINT-GOBAIN PLACO	3,004,003	SANTORO, DOMENICO	3,003,993
RUOHONIEMI, NINA	2,995,478	SAKAGUCHI YUKI	3,004,399	SANTULLI-MAROTTO, SANDRA	3,004,117
RUOTSALAINEN, JUSSI	2,995,032	SAKAKIBARA, MICHIIRO	2,995,045	SANTULLI-MAROTTO, SANDRA	3,004,134
RUSH, BRIAN	3,004,176	SAKAMOTO, HIROKI	2,988,572	SANTULLI-MAROTTO, SANDRA	3,004,138
RUSH, BRIAN	3,004,177	SAKSELA, KALLE	2,991,953	SARAGAGLIA, AMAURY	2,990,168
RUSSELL, MARK	3,004,202	SALAMA, APOLLINE	3,004,192	SARATHY, SIVA RAJAN	3,003,993
RUSSELL, WILLIAM P.	3,004,136	SALIB, RAMI	2,990,326	SARGIOTTO, CHIARA	2,999,425
RUSSO, ENRICO	2,991,475	SALLEE, RICHARD	3,004,787	SARIGIANNIS, CATHERINE B.	3,004,415
RUSSO, RAFFAELE	2,991,475	SALMI, BJORN	2,991,462	SASOL TECHNOLOGY PROPRIETARY LIMITED	2,995,432
RYAN, KYLE J.	3,004,282	SALOMONS, STEPHEN	2,993,502	SASSER, WILLIAM	3,003,414
RYU, JEI MAN	2,997,549	SALSNES FILTER AS	3,003,993	SASTRY, RAMESHA CHELUR RAMACHANDRA	2,996,400
RYU, KI MOON	2,995,675	SALVADOR, RENE	2,998,440	SASTRY, RAMESHA CHELUR RAMACHANDRA	2,996,402
S-BIOMEDICS	2,990,807	SAMAJDAR, SUSANTA	2,989,265	SASTRY, RAMESHA CHELUR RAMACHANDRA	3,004,047
S.D. SIGHT DIAGNOSTICS LTD	2,998,829	SAMANO, VICENTE	2,990,335	SATHYANARAYANA, SHYAM	2,993,408
S.I.P.A. SOCIETA INDUSTRIALIZZAZIONE PROGETTAZIONE E AUTOMAZIONE S.P.A.	3,004,168	SAMP S.P.A. CON UNICO SOCIO	2,998,710	SAUKKONEN, ESA	2,995,435
S.P.M. DRINK SYSTEMS S.P.A.	2,993,130	SAMSUNG ELECTRONICS CO., LTD.	2,981,449	SAUKKONEN, ESA	2,995,478
SABIC GLOBAL TECHNOLOGIES B.V.	2,993,131	SAMSUNG ELECTRONICS CO., LTD.	2,984,479	SAUSSET, FRANCOIS	2,996,069
SABINS, NINA CHI	3,004,117	SAMSUNG ELECTRONICS CO., LTD.	2,992,969	SAVAGE, JOHN ROBERT	3,004,492
SABINS, NINA CHI	3,004,134	SAMSUNG ELECTRONICS CO., LTD.	2,997,027		
SABINS, NINA CHI	3,004,138				
SABIO, SERGE	3,004,824				
SADEGHIFAR, HASAN	3,004,346				
SAES, MARC	2,984,887				
SAFRAN	3,004,161				
SAFRAN	3,004,391				
SAFRAN AIRCRAFT ENGINES	2,994,912				
SAFRAN AIRCRAFT ENGINES	2,995,326				
SAFRAN AIRCRAFT ENGINES	2,996,454				

## Index of PCT Applications Entering the National Phase

SAVELLI, PATRICK	2,990,763	SCHUMACHER, JENNIFER F.	3,004,267	SHANGHAI HENGRUI	
SAVVY INC.	3,004,774	SCHUMM, STEPHAN GEORG	3,004,512	PHARMACEUTICAL CO.,	
SCA FOREST PRODUCTS AB	3,004,244	SCHUPPERT, ANNA	2,997,616	LTD.	3,004,804
SCA HYGIENE PRODUCTS AB	3,004,355	SCHUTZE, KERSTIN	3,004,792	SHANGHAI JIAO TONG	
SCALES, STEPHANIE ANNE	2,994,917	SCHUURING, EDUARDUS		UNIVERSITY	3,004,644
SCANIO, MARC J.	2,991,273	MARIA DOMINICUS	2,999,428	SHANGHAI JIAO TONG	
SCARROTT, PETER	3,004,237	SCHUZ, DAVID	2,995,794	UNIVERSITY	3,004,650
SCHAAFSMA, STEFAN		SCHWAB, MARKUS	2,996,025	SHANKAR, VENKAT	2,992,823
HENDRIKUS	2,991,280	SCHWAB, MARKUS	2,996,028	SHARBAUGH, DAVID	
SCHAEVERBEKE, THIERRY	3,004,183	SCHWAEBLE, HANS-		ANDREW	3,004,265
SCHAFFER, DIRK	3,004,532	WILHELM	3,004,753	SHARMA, ARVIND KUMAR	3,004,392
SCHAFFNER, AUSTIN CARL	3,004,709	SCHWARTZ, ERIC	2,996,454	SHARMA, MANISH KUMAR	3,004,003
SCHANN, STEPHAN	3,004,680	SCHWARTZ, MARK	3,004,274	SHARMA, VARUNESH	3,004,064
SCHECHTMAN, LUDMILA	2,992,419	SCHWARZ, JORG	3,004,781	SHARP KABUSHIKI KAISHA	3,004,582
SCHEERDER, ALEXANDER		SCHWEBLEN, WILFRIED		SHAVAR, MICHAEL P.	2,991,677
ALEIDA ANTONIUS	2,992,973	LIONEL	2,996,454	SHAW, STEPHEN	3,004,107
SCHELTES, JULIEN SERGE	2,997,314	SCHWENZOW, UWE	3,004,119	SHAY, THOMAS M.	3,003,907
SCHENK, FLORIAN	2,985,018	SCIABOLA, SIMONE	2,989,456	SHEEN, JOON-HO	2,995,675
SCHIERING, NIKOLAUS	2,990,764	SCINOPHARM TAIWAN, LTD.	2,994,217	SHELDON, GLORIA	3,004,476
SCHILLER, CARSTEN	3,004,188	SCOTT, DAVID D.	3,003,870	SHELKE, SANDEEP	
SCHILLER, DOMINIC	2,989,779	SCREATON, GAVIN	2,988,499	YADUNATH	2,993,304
SCHILLER, DOMINIC	2,995,927	SCULPT B.V.	3,001,981	SHELL INTERNATIONALE	
SCHIMPERNA, GIULIANA	3,004,472	SEAL RYT CORPORATION	3,004,518	RESEARCH	
SCHINDLER, JORDAN	3,003,397	SEARCY, GUS	3,004,050	MAATSCHAPPIJ B.V.	3,004,598
SCHIRO, PATRICIA	3,004,751	SEARLE, XENIA B.	2,991,273	SHELL INTERNATIONALE	
SCHLEGEL, BERNARD	2,981,922	SEARS, LORI	3,004,052	RESEARCH	
SCHLOSSBAUER, AXEL	3,004,123	SEB S.A.	2,997,602	MAATSCHAPPIJ B.V.	3,004,679
SCHLOSSBAUER, AXEL	3,004,124	SEEDHOM, BAHAA BOTROS	2,992,517	SHEN, JUN	3,004,143
SCHLOSSBAUER, AXEL	3,004,125	SEGOVIA SANZ, JOSE		SHEN, YUQIAO	3,003,422
SCHLUMBERGER CANADA		CARLOS	3,004,171	SHENFELD, AVNER	3,003,982
LIMITED	3,004,112	SEIDT, JEREMY D.	3,003,720	SHENG, XIJUN	3,004,372
SCHLUMBERGER CANADA		SEINTURIER, ERIC PIERRE	2,996,457	SHENZHEN ROYOLE	
LIMITED	3,004,133	SEITZ, JOCHEN	2,996,918	TECHNOLOGIES CO.,	
SCHMAILZL, MARTIN	2,989,047	SELF-SCREEN B.V.	2,996,486	LTD.	2,989,841
SCHMERINGA, PETER	2,996,259	SELSE, DENNIS	3,004,195	SHENZHEN SOLAR SMART	
SCHMETZ, JEAN-MICHEL	2,993,092	SEMBLANT LIMITED	2,986,357	TECHNOLOGY CO., LTD.	2,983,241
SCHMIDER, JOHN PAUL	3,004,774	SEMERARO, TERESA	2,992,820	SHEPPARD, JULIE	3,004,309
SCHMIED, ANDREAS	3,004,119	SEMERARO, TERESA	2,997,868	SHERR, ELLIOTT	3,004,741
SCHMITT, PAUL GUILLAUME	2,995,349	SEMERARO, TERESA	2,997,869	SHI, JACK GUOEN	3,004,083
SCHNABEL, JAMES P., JR.	3,003,901	SEMINIS VEGETABLE SEEDS,		SHI, YUCAI	3,004,693
SCHNABEL, JR. JAMES P.	3,003,717	INC.	3,004,752	SHIMEZAWA, KAZUYUKI	3,004,858
SCHNEEBERGER, JOHANNES		SENGPIEL, ROBERT	3,004,802	SHIMOKAWA, KENICHIRO	2,988,572
P.	3,004,766	SENTEC LTD	2,992,919	SHIN POONG	
SCHNEID, STEFAN		SEO, MIN HYO	2,993,920	PHARMACEUTICAL CO.,	
CHRISTIAN	3,004,789	SEO, MIN HYO	2,993,923	LTD.	2,997,549
SCHNEIDER, NORA	3,004,043	SEO, MIN HYO	2,993,925	SHIN, DONG SUK	3,004,197
SCHNEIDER, NORA	3,004,044	SEO, MIN HYO	2,993,928	SHIN, DONG SUK	3,004,201
SCHNEIDER, NORA	3,004,046	SEO, MIN-HYO	2,998,092	SHINDE, ANIL KARBHARI	2,997,956
SCHNIDER, CHRISTIAN	3,004,503	SERAVALLI, LORIS	2,995,316	SHINITZKY, MEIR	
SCHNIEDERS, BRITTA	3,004,781	SERGHINE, CAMEL	2,997,164	(DECEASED)	2,992,419
SCHOEMER, MARTINA	2,993,408	SERRA, JOE	3,004,484	SHINODA, KOSEI	2,994,372
SCHOENE, THOMAS	2,996,373	SERRA, JOE	3,004,490	SHINTAKU, YUTA	3,004,257
SCHONBORN, DAMIAN	2,998,113	SES-IMAGOTAG	2,993,919	SHINTANI, PETER	3,004,639
SCHOO, STEVE J.	3,004,782	SETZ, CHRISTIAN	2,990,298	SHIOZAKI, MARI	3,004,398
SCHOPF, THOMAS	3,004,128	SEVER, LIONEL	2,992,025	SHIOZAWA, YUUKI	3,004,535
SCHORKHUBER, JAKOB	2,998,192	SEVERAC, CHILDERICK	3,000,291	SHIOZAWA, YUUKI	3,004,537
SCHRIEWER, LEVIN	3,004,792	SEVINCLI, ATILLA	2,995,064	SHIRUDE, PRAVIN S.	2,991,468
SCHROEDER, FRANCK	2,992,025	SFD SYSTEMS LIMITED	2,996,368	SHIRVAN, MITCHELL	2,995,794
SCHUBERT, ULRICH	2,990,298	SFK LEBLANC A/S	2,993,906	SHIVE, MATTHEW	3,004,849
SCHUH, AUSTIN	3,004,051	SHAH, DAISY MANISH	2,993,304	SHOOTER, ADRIAN	2,995,150
SCHUH, CHRISTIAN	3,003,945	SHALEV, ALON	3,004,821	SHORT BROTHERS PLC	2,997,679
SCHULTZ, ROGER L.	2,995,151	SHALVIRI, ALIREZA	3,004,746	SHORT BROTHERS PLC	2,998,712
SCHULZ, THOMAS	3,004,805			SHORTT, BARRY J.	3,004,747
SCHUMACHER, JENNIFER F.	3,004,259			SHRIVER, ZACHARY HOLMES	3,004,790

## Index des demandes PCT entrant en phase nationale

SHUDARK, JEFFREY	3,004,773	SIVAPRAKASAM, PRASANNA	2,991,268	SON, MIN KI	2,988,214
SHURE ACQUISITION HOLDINGS, INC.	3,004,172	SIVAPRAKASAM, PRASANNA	2,994,512	SONAVANE, GHANASHYAM MADHUKAR	2,996,258
SHUTTLEWORTH, STEPHEN JOSEPH	2,995,896	SIVAPRAKASAM, PRASANNA	2,995,099	SONG, BYEONG CHEOL	2,996,446
SHUTTLEWORTH, STEPHEN JOSEPH	2,995,898	SIVERKLEV, JOHAN	3,004,827	SONG, HYESEUNG	2,994,688
SHUTTLEWORTH, STEPHEN JOSEPH	2,995,902	SKELT, CHRISTOPHER HUGH	3,004,495	SONY CORPORATION	2,990,319
SHUTTLEWORTH, STEPHEN JOSEPH	2,995,909	SKINNER, RYAN	2,997,380	SONY CORPORATION	2,996,400
SHUTTLEWORTH, STEPHEN JOSEPH	2,995,991	SKINNER, RYAN	3,004,228	SONY CORPORATION	2,996,401
SIATECH	2,990,337	SKOGSTROM, PETER	2,996,914	SONY CORPORATION	2,996,402
SIBLEY, GRAHAM EDWARD MORRIS	2,991,684	SKOLD, JOHAN	3,003,390	SONY CORPORATION	2,996,402
SIEBER, PATRICK	2,989,098	SKRYPNYK, NATALIYA	3,003,405	SONY CORPORATION	3,003,937
SIEFFERT, MARCUS	3,004,237	SKUGOR, STANKO	2,997,521	SONY CORPORATION	3,003,951
SIEK, TADEUSZ	2,992,549	SKY CP LIMITED	3,004,715	SONY CORPORATION	3,004,047
SIEMER, DIRK	3,004,806	SKYCOM CORPORATION	3,004,419	SONY CORPORATION	3,004,142
SIGLER, LAURENT	3,004,168	SLADE, CHARLES J.	3,004,193	SONY CORPORATION	3,004,187
SIGMA CLERMONT	3,004,389	SLATTEGARD, RIKARD	2,998,989	SONY CORPORATION	3,004,241
SIH, BRYAN	2,981,218	SLEIJSTER, HENRY	3,004,181	SONY CORPORATION	3,004,588
SIJBEN, JOHANNES MARIA FRANCISCUS	2,990,580	SLEIJSTER, HENRY	3,004,662	SONY CORPORATION	3,004,592
SIJBEN, JOHANNES MARIA FRANCISCUS	2,990,588	SLOMCZYNSKA, URSZULA J.	3,004,747	SONY CORPORATION	3,004,639
SIKORA, ANDREW G.	3,004,421	SMARTT, BRIAN	3,004,051	SONY CORPORATION	3,004,847
SIKORSKI, ROBERT	3,004,794	SMEETS, FLORIAN	3,004,502	SONY CORPORATION	3,004,858
SILIXA LTD.	2,994,208	SMEETS, FLORIAN	3,004,515	SOON, JIA-MEI	3,004,508
SILLAJEN, INC.	2,990,133	SMIAROWSKI, ADAM	2,996,023	SOON, JIA-MEI	3,004,510
SILLAJEN, INC.	2,996,120	SMIGLAK, MARCIN	2,993,634	SOONS, PETRUS CATHARINA GERLACH	2,991,280
SILLIBOURNE, JAMES	2,995,775	SMITH, ALEXANDER D.	2,994,364	SORENSEN, GARY P.	2,992,949
SILLIBOURNE, JAMES	2,995,785	SMITH, BRIAN	2,993,147	SORENSEN, PER	
SILVA ZOLEZZI, IRMA	3,004,043	SMITH, DANIEL	3,004,711	AGGERHOLM	3,004,129
SILVA ZOLEZZI, IRMA	3,004,044	SMITH, JAMES GORDON		SORENSEN, STEVEN M.	3,003,913
SILVA ZOLEZZI, IRMA	3,004,046	CHARTERS	2,990,997	SORIN GROUP ITALIA S.R.L.	2,991,854
SILVA, FRANCK ALEXANDRE	2,995,896	SMITH, KEVIN	2,994,103	SORRENTINO, STEFANO	2,995,551
SILVA, FRANCK ALEXANDRE	2,995,902	SMITH, KEVIN	2,994,109	SORRILL, LEVI	2,996,256
SILVA, FRANCK ALEXANDRE	2,995,909	SMITH, PETER G.	3,004,623	SOSNIAK, KRZYSZTOF	3,004,620
SILVERNAIL, CARTER	3,004,336	SMITH, PETER GEORGE		SOTO VELASCO, SERVANDO	3,004,777
SILVERNAIL, NATHAN J.	3,004,292	ROBIN	2,994,501	SOUNDENERGY B.V.	2,998,707
SILVERTOWN, JOSH	3,004,499	SMITH, ROBIN	2,997,661	SPANIELKA, JAN	2,996,474
SILYE, JANOS	2,996,102	SMITH, RONALD T.	2,989,278	SPATARA, MICHELLE	2,996,088
SIMANCIK, FRANTISEK	2,996,474	SMITH, WILLIAM ALFRED	3,001,104	SPECIALITES PET FOOD	3,004,801
SIMONE, BRIAN ANDREW	3,004,067	SMITHS DETECTION-WATFORD LIMITED	2,992,520	SPELLBOUND	
SIMONETTI, MARCO	2,996,391	SMS GROUP S.P.A	2,994,216	DEVELOPMENT GROUP, INC.	3,004,265
SINDER, DANIEL JARED	3,004,609	SNIR-ALKALAY, IRIT	2,994,644	SPIELMANN, JAN	3,004,795
SINGH, AMIT	2,998,830	SNOW, RICHARD H.	3,004,204	SPIELMANN, JAN	3,004,802
SINGH, HEMANT KUMAR	2,996,258	SNOWLINE CO., LTD.	3,002,519	SPINAL STABILIZATION TECHNOLOGIES LLC	3,004,526
SINGH, LAURA	2,995,476	SNYDER, MATT	3,004,268	SPIRO-TECH MEDICAL INC.	3,004,445
SINGH, SHAIENDRA VIKRAM	2,986,357	SNYDER, RONALD P.	3,004,289	SPITS, HERGEN	2,989,551
SINGORE, JAMES	2,989,673	SNYDER, RONALD P.	3,004,608	SPITZNER, JORG	2,996,124
SINHA, NEELIMA	2,991,232	SO, YOUNG-WAN	2,997,027	SPORTAL SYSTEMS, LLC	3,004,586
SIRIPURAPU, SRINIVAS	3,004,844	SOBOL, ROBERT E.	3,004,530	SPRAGUE, JACOB J.	3,004,492
SITA INFORMATION NETWORKING COMPUTING UK LIMITED	2,986,657	SOCIAL SENTINEL, INC.	3,004,538	SPRIO, SIMONE	2,994,049
SIVAGURUNATHAN, KONESWARAN S.	3,004,499	SOCIETE BIC S.A.	2,996,758	SPYVEE, MARK	2,991,468
SIVAIAH, POTRU	2,996,258	SOHLSTROM, HANS	2,990,947	SQUAREHEAD TECHNOLOGY AS	3,003,966
SIVANANDHAN, DHANALAKSHMI	2,997,531	SOHN, STEPHEN W.	3,004,459	SRINIVASA, SIDDHARTHA	3,004,711
		SOKOLOFF, BRUNO	3,004,616	SRINIVASARAO, MADDURI	2,993,131
		SOKOLOWSKI, SUSAN	3,004,052	SROUJI, SAMER	3,004,590
		SOLAR-O-MATIC TECHNOLOGIE INC.	2,996,588	ST. HILAIRE, PIERRE	3,004,319
		SOLETANCHE FREYSSINET	2,998,309	ST. LAURENT, DENIS R.	2,991,467
		SOLLBERGER, ALEXANDER	3,004,380	ST. LAURENT, DENIS R.	2,994,512
		SOLUTION SEEKER AS	3,004,157	STABLER, BENJAMIN STUART	3,003,712
		SOMA, HIROYUKI	3,004,153	STACKLER, MARC	3,004,791
		SOMANI, SANDEEP	2,993,907	STAFFORD, JEFFREY ALAN	3,004,300
		SOMASUNDARAM, KIRAN	3,004,442	STAHL, EDWARD L.	3,004,402
		SOMECH, HAIM	3,004,529		
		SOMMER, PHILIPP	2,994,584		
		SON, JI-YEON	2,998,092		

## Index of PCT Applications Entering the National Phase

STAMER, ARNE	3,004,806	STW S.R.L.	2,992,953	SYNDAX	
STAMICARBON B.V.	2,991,280	SU, BO	3,003,961	PHARMACEUTICALS,	
STAMICARBON B.V.	2,992,973	SUAU, JEAN-MARC	2,994,622	INC.	3,004,369
STANCZYK, TOMASZ	3,000,156	SUBRAMANIAN, RAMKUMAR	2,997,956	SYNERGY BLUE, LLC	3,004,484
STANDARD BRANDS (UK)		SUBRAMANIAM, MAHESH	2,991,180	SYNERGY BLUE, LLC	3,004,490
LIMITED	2,995,323	SUE, CASEY	3,004,787	SYNVINA C.V.	2,988,392
STANEK, GANYMED	3,004,051	SUE, HUNG-JUE	3,004,058	SYNVINA C.V.	2,990,580
STANGE, WERNER	3,004,302	SUE, TRACY	3,004,787	SYNVINA C.V.	2,990,588
STANISLAW, STACEY	3,004,504	SUEMORI, HIROFUMI	3,004,251	SYSTEMS AND SOFTWARE	
STANKIEWICZ, BRIAN J.	3,004,259	SUGIMOTO, TAKAHIRO	2,988,572	ENTERPRISES, LLC	3,004,067
STANKIEWICZ, BRIAN J.	3,004,267	SULISTIO, ADRIAN	2,997,519	SYSTEMS AND SOFTWARE	
STANLEY, MATHEW	3,000,601	SULLIVAN, RYAN	3,004,148	ENTERPRISES, LLC	3,004,089
STANLEY-WALL, NICOLA	2,995,438	SUN, CHEN	3,003,937	SZAFRANIEC, JOANNA	2,992,705
STAPLES, IAN	2,990,326	SUN, CHEN	3,003,951	SZALAY, GERGELY	2,994,903
STASZOR, ROMAN	2,995,440	SUN, CHEN	3,004,187	SZETO, MARGARET	3,003,897
STAUB, ANDREA J.	3,004,052	SUN, FEI	3,004,173	SZKLARZ, ANNE RENEE	
STAUB, STEFAN	3,004,365	SUN, FUHUA	2,990,547	JEANNE	2,995,800
STAVROU, PETROS	2,998,781	SUN, JUN	3,004,644	SZKLARZ, ANNE RENEE	
STEED, MICHAEL A.	3,004,511	SUN, JUN	3,004,650	JEANNE	2,997,207
STEGEMOELLER, CALVIN L.	3,004,709	SUN, PIAOYANG	3,004,804	SZOSTKIEWICZ, LUKASZ	3,000,156
STEIN, JEFFREY MICHAEL	3,004,747	SUPERGRID INSTITUTE	2,994,372	T3 BUILDING SOLUTIONS	
STEIN, ROBERT	3,004,626	SUPRIYO, DAS	3,004,207	LIMITED	2,997,675
STEINMETZ, HARALD	2,994,584	SURDILA, SORIN	2,985,299	TACKE, LUDGER	3,004,119
STEMME, GORAN	2,990,947	SURJAATMADJA, JIM BASUKI	3,004,255	TAGGART, LAURA	2,993,142
STENVIK, RALPH A.	3,004,782	SURRIRAY, LAURENT	2,996,016	TAHER, SALAM GHAFOUR	2,991,183
STEPANOVIC, LYDIA		SUSITAIVAL, RIIKKA	2,995,565	TAI, CEDRIC	3,004,649
CARROL	3,004,090	SUTTON, MICHAEL R.	3,004,834	TAINI, ANDREA	2,996,858
STEPIEN, KAROL	3,000,156	SUUTALA, ANTTI	2,996,969	TAIT, RUSSELL JOHN	2,997,519
STEVENS, REBECCA		SUVEN LIFE SCIENCES		TAKAHASHI, KAZUYUKI	3,004,847
ELIZABETH	2,991,169	LIMITED	2,997,956	TAKAKAWA, RYAN	2,993,417
STEVENS, REBECCA		SUZHOU ALTON		TAKEDA PHARMACEUTICAL	
ELIZABETH	2,991,293	ELECTRICAL &		COMPANY LIMITED	2,988,572
STEVENSON, ALEX	2,988,693	MECHANICAL INDUSTRY		TAKEDA PHARMACEUTICAL	
STIMSON, WILLIAM	2,998,456	CO., LTD.	2,989,846	COMPANY LIMITED	2,992,700
STOCKLI, MARTIN	3,004,380	SUZHOU CSTAR GRAPHENE		TAKEDA PHARMACEUTICAL	
STODDARD, THOMAS	2,998,825	TECHNOLOGY CO., LTD.	2,999,904	COMPANY LIMITED	2,993,312
STOLARSKA, OLGA	2,993,634	SUZHOU SENIOR ELITE		TAKENAKA, MASANORI	3,004,286
STORA ENSO OYJ	2,994,388	INFORMATION		TALLEVI, KEVIN	3,004,774
STORA ENSO OYJ	2,995,435	TECHNOLOGY CO., LTD	3,004,594	TAMAKI, EIICHIRO	2,998,724
STORA ENSO OYJ	2,995,437	SUZHOU SUNCADIA		TAMPIERI, ANNA	2,994,049
STORA ENSO OYJ	2,995,478	BIOPHARMACEUTICALS		TAMPLENIZZA,	
STORTELEERS, CATELIJNE	3,004,792	CO., LTD.	3,004,804	MARGHERITA	2,997,384
STOTT, COLIN	2,992,802	SUZUKI, SHINKICHI	2,988,572	TAN, FENG	3,004,143
STRAATHOF, MICHIEL		SUZUKI, TATSUYA	3,004,537	TAN, HARRY	3,004,620
HANNES	2,997,900	SVENSSON, CAMILLA	2,994,796	TANAKA, DAISUKE	3,004,539
STRACHAN, FRANK	2,996,388	SVENSSON, CAMILLA	2,994,798	TANAKA, JUNICHI	3,004,241
STRACHAN, JOHN SCOTT	3,004,614	SWEARINGEN, CHRISTOPHER	3,004,297	TANAKA, NOBUYUKI	3,004,288
STRATOPHASE LTD	2,994,501	SWEARINGEN, CHRISTOPHER	3,004,506	TANAKA, SHO	2,996,400
STRIEMER, GRANT EDWARD		SWEENEY, TORRES	3,004,829	TANAKA, SHO	2,996,401
ANDERS	3,004,483	SWICK MINING SERVICES		TANAKA, SHO	2,996,402
STRIEMER, GRANT EDWARD		LTD	3,004,471	TANAKA, SHO	3,004,047
ANDERS	3,004,606	SWIFT, DAVID	3,004,289	TANAKA, YOSHIKAZU	3,004,042
STROHBACH, JOSEPH		SWIFT, DAVID	3,004,608	TANGE, THOMAS	
WALTER	2,996,389	SWITKES, JOSHUA P.	3,004,051	OESTERGAARD	2,996,025
STROHMAIER, KARL G.	3,004,308	SYLVESTER, KEVIN T.	3,004,292	TANIOS, MICHAEL	3,004,052
STRUEMPER, HERBERT	2,994,635	SYMINGTON, KEITH	2,993,279	TAO, WEIKANG	3,004,804
STUBENRAUCH, KAY-		SYNAPTIVE MEDICAL		TARANTINO, GERMANO	2,995,314
GUNNAR	3,004,199	(BARBADOS) INC.	2,991,198	TARASZKA, JOHN	2,994,516
STUCKRATH, CARL	2,996,918	SYNAPTIVE MEDICAL		TARCAU, BENONE	3,004,443
STUDER, CHRISTIAN	3,004,628	(BARBADOS) INC.	2,997,817	TARCAU, BENONE	3,004,447
STUDER, PHILIPP	3,004,503	SYNAPTIVE MEDICAL		TARGELL, JOHN	2,997,661
STURTZ, GREGORY P.	3,004,367	(BARBADOS) INC.	3,004,167	TARKETT B.V.	2,990,159
STURZENEGGER, PHILIP		SYNAPTIVE MEDICAL		TARSI, LUCA	2,992,820
NOAH	2,997,520	(BARBADOS) INC.	3,004,214	TARSI, LUCA	2,997,869

## Index des demandes PCT entrant en phase nationale

TATAT, OLIVIER	2,990,558	THE BOARD OF REGENTS OF	THE PROCTER & GAMBLE	
TAUNTON, JOHN W.	3,004,491	THE UNIVERSITY OF	COMPANY	3,004,483
TAVARES, SABINA DE		TEXAS SYSTEM	3,004,296	THE PROCTER & GAMBLE
ANDRADE PEREIRA	2,996,025	THE BRAUN CORPORATION	3,004,783	COMPANY
TAVARES, SABINA DE		THE BRIGHAM AND		THE QUEEN'S UNIVERSITY
ANDRADE PEREIRA	2,996,028	WOMEN'S HOSPITAL,		OF BELFAST
TAVARES-GRECO, PAULA		INC.	3,003,908	THE REGENTS OF THE
ALESSANDRA	3,004,300	THE CHILDREN'S HOSPITAL		UNIVERSITY OF
TAVERNIER, JAN	3,003,969	OF PHILADELPHIA	3,004,438	CALIFORNIA
TDF	2,994,728	THE CHILDREN'S HOSPITAL		THE REGENTS OF THE
TE CONNECTIVITY		OF PHILADELPHIA	3,004,713	UNIVERSITY OF
CORPORATION	3,004,605	THE COCA-COLA COMPANY	3,004,411	CALIFORNIA
TECH FLO CONSULTING, LLC	3,004,414	THE EUCLID CHEMICAL		THE REGENTS OF THE
TECHNISCHE UNIVERSITAT		COMPANY	3,004,841	UNIVERSITY OF
WIEN	2,990,022	THE FIRST INSTITUTE OF		CALIFORNIA
TECHNISCHE UNIVERSITAT		OCEANOGRAPHY, SOA	2,990,647	THE TRUSTEES OF THE
WIEN	2,997,517	THE GENERAL HOSPITAL		UNIVERSITY OF
TECHNOLOGY IN MOTION		CORPORATION	3,004,425	PENNSYLVANIA
LTD	2,996,246	THE GENERAL HOSPITAL		THE UNITED STATES OF
TEHAN, BENJAMIN GERALD	2,993,484	CORPORATION D.B.A		AMERICA AS
TEHAN, BENJAMIN GERALD	2,994,143	MASSACHUSETTS		REPRESENTED BY THE
TEHAN, BENJAMIN GERALD	2,994,203	GENERAL HOSPITAL	3,004,738	SECRETARY OF THE
TEISSEIRE, JEREMIE	2,995,345	THE GENERAL HOSPITAL		NAVY
TELEDYNE E2V		CORPORATION D.B.A		THE UNIVERSITY COURT OF
SEMICONDUCTORS SAS	3,004,791	MASSACHUSETTS		THE UNIVERSITY OF
TELEFONAKTIEBOLAGET LM		GENERAL HOSPITAL	3,004,772	EDINBURGH
ERICSSON (PUBL)	2,985,299	THE GOVERNMENT OF THE		THE UNIVERSITY COURT OF
TELEFONAKTIEBOLAGET LM		UNITED STATES OF		THE UNIVERSITY OF
ERICSSON (PUBL)	2,995,551	AMERICA, AS		EDINBURGH
TELEFONAKTIEBOLAGET LM		REPRESENTED BY THE		THE UNIVERSITY COURT OF
ERICSSON (PUBL)	2,995,565	SECRETARY,		THE UNIVERSITY OF
TELEFONAKTIEBOLAGET LM		DEPARTMENT OF		EDINBURGH
ERICSSON (PUBL)	2,995,677	HEALTH AND HUMAN		THE UNIVERSITY COURT OF
TELEFONAKTIEBOLAGET LM		SERVICES	3,004,438	THE UNIVERSITY OF
ERICSSON (PUBL)	2,997,905	THE JACKSON LABORATORY	3,004,497	EDINBURGH
TELEFONAKTIEBOLAGET LM		THE JAMES HUTTON		THE UNIVERSITY COURT OF
ERICSSON (PUBL)	3,003,388	INSTITUTE	2,993,160	THE UNIVERSITY OF
TELEFONAKTIEBOLAGET LM		THE LUBRIZOL		EDINBURGH
ERICSSON (PUBL)	3,003,390	CORPORATION	3,004,081	THE UNIVERSITY OF BRITISH
TELEFONAKTIEBOLAGET LM		THE LUBRIZOL		COLUMBIA
ERICSSON (PUBL)	3,004,405	CORPORATION	3,004,269	THE UNIVERSITY OF BRITISH
TELFER, EVELYN ELIZABETH	2,999,696	THE LUBRIZOL		COLUMBIA
TELFER, GEORGE	2,996,785	CORPORATION	3,004,417	THE UNIVERSITY OF BRITISH
TEMPESTA, LAURA	3,004,052	THE LUBRIZOL		COLUMBIA
TEMPUS ENERGY LIMITED	2,985,426	CORPORATION	3,004,729	THE UNIVERSITY OF BRITISH
TENSIVE SRL	2,997,384	THE LUBRIZOL		COLUMBIA
TEOBALD, BARRY JOHN	2,994,203	CORPORATION	3,004,834	THE UNIVERSITY OF BRITISH
TEOLAB	2,993,093	THE NANOSTEEL COMPANY,		COLUMBIA
TERRY, RICHARD C.	3,004,285	INC.	3,003,905	THE UNIVERSITY OF BRITISH
TESA SE	3,003,945	THE PROCTER & GAMBLE		COLUMBIA
TESTU, JEAN-MARC	2,990,558	COMPANY	3,004,074	THE UNIVERSITY OF
TETHIS, INC.	3,004,346	THE PROCTER & GAMBLE		MASSACHUSETTS
TETTENBORN, CARSTEN	3,004,128	COMPANY	3,004,076	THE UNIVERSITY OF NORTH
TEUFEL, BJORN	3,004,778	THE PROCTER & GAMBLE		CAROLINA AT CHAPEL
TEUFELBERGER SEIL		COMPANY	3,004,291	HILL
GESELLSCHAFT M.B.H.	2,993,238	THE PROCTER & GAMBLE		THE UNIVERSITY OF
TEXAS A&M UNIVERSITY	3,004,058	COMPANY	3,004,304	NOTTINGHAM
TEXAS TECH UNIVERSITY		THE PROCTER & GAMBLE		THE, ROGIER ANTOINE
SYSTEM	3,004,465	COMPANY	3,004,313	FLORIS
TEXTILE-BASED DELIVERY,		THE PROCTER & GAMBLE		THEODORE, JAMES CHANCE
INC.	3,003,397	COMPANY	3,004,318	3,002,493
THAKUR, RAGHU RAJ SINGH	3,004,381	THE PROCTER & GAMBLE		THIEBAUT, LAURENT
THANDI, ROOHY	3,004,090	COMPANY	3,004,463	3,004,359
				THIMMAIAH, GOVINDARAJU
				2,996,665
				2,996,666

## Index of PCT Applications Entering the National Phase

THIRIET, ROMAIN	2,996,457	TOTAL MARKETING SERVICES	2,998,442	ULINSKAS, VIT	2,992,812
THIRUMALAI, VIJAYARAGHAVAN	3,004,185	TOYOFUKU, MASASHI	2,992,700	ULIS	2,990,168
THOMAS, ABRAHAM	2,993,304	TRAC GROUP HOLDINGS LTD	3,001,144	ULUXUS LLC	2,983,241
THOMAS, MICHAEL P.	3,004,623	TRAGGIAI, ELISABETTA	2,995,795	UM, HYE WON	2,990,376
THOMAS, ROBERT CHARLES LLEWELYN	3,004,198	TRAMA ENGINEERING S.R.L.	2,996,676	UM, HYE WON	2,992,970
THOMAS, SIMON	2,995,785	TRANS UNION LLC	3,004,599	UNG, WARREN LLOYD	3,004,347
THOMAS, SIMON CHARLES STEWART	2,995,141	TRAXL, ROBERT	2,993,238	UNILEVER BCS LIMITED	3,004,155
THOMPE B.V.	3,004,194	TREASURER, URVEE Y.	3,004,178	UNILEVER BCS LIMITED	3,004,358
THOMPSON, JOHN P.	3,004,283	TREECE, RICHARD J.	2,991,960	UNILEVER BCS LIMITED	3,004,373
THOMPSON, JOHN P.	3,004,294	TREVISIOL, EMMANUELLE	3,000,291	UNILEVER BCS LIMITED	3,004,505
THOMPSON, JOHN P.	3,004,470	TRietsch, SEBASTIAAN JOHANNES	2,991,876	UNILEVER PLC	3,004,512
THOMPSON, PETER ARMSTRONG	3,004,830	TRIGATTI, FABIO	2,994,216	UNITED ARAB EMIRATES UNIVERSITY	2,995,643
THOMSON LICENSING	3,004,793	TRIGINER BOIXEDA, JORGE	2,993,410	UNITED ARAB EMIRATES UNIVERSITY	2,995,646
THREADLESS CLOSURES LIMITED	2,992,817	TRIKOSKO, WALTER	3,004,622	UNITED STATES GYPSUM COMPANY	3,004,254
THRU TUBING SOLUTIONS, INC.	2,995,151	TRIPATHI, ANIL	2,998,830	UNIVERSIDAD AUTONOMA DE MADRID	2,995,021
THULE SWEDEN AB	2,993,903	TRIVEDI, PRERAK DIWAKAR	3,003,897	UNIVERSIDAD DE LOS ANDES	2,998,275
THULE SWEDEN AB	2,993,904	TROUNDSON, ALAN	3,004,120	UNIVERSIDAD IBEROAMERICANA, UNIBE	3,004,376
THURSTON, DAVID EDWIN	2,996,406	TRUCHETET, MARIE-ELISE	3,004,183	UNIVERSITA' DEGLI STUDI DI FIRENZE	2,993,902
TIAN, MINMIN	3,004,476	TRUCHON, JEAN-FRANCOIS	2,988,680	UNIVERSITAT HAMBURG	2,998,230
TIAN, XINRONG	2,990,474	TRUDELL MEDICAL INTERNATIONAL	3,004,237	UNIVERSITAT WIEN	3,004,630
TIGER TOOL INTERNATIONAL INCORPORATED	3,004,780	TRZUPEK, JOHN DAVID	2,995,153	UNIVERSITE BLAISE PASCAL CLERMONT II	3,004,389
TILEKAR, AJAY RAMCHANDRA	2,991,232	TRZUPEK, JOHN DAVID	2,996,389	UNIVERSITE CLAUDE BERNARD LYON 1	2,993,871
TILLE, STEFAN	3,004,503	TSUBAKIYAMA, RYOHEI	3,004,398	UNIVERSITE CLAUDE BERNARD LYON 1	2,994,914
TILTON, JEFFREY A.	3,004,434	TSUKERMAN, PINCHAS	2,997,130	UNIVERSITE DE BORDEAUX	2,994,246
TINGLE, JAMES	2,996,472	TSURUSHITA, NAOYA	3,004,743	UNIVERSITE DE BORDEAUX	3,004,183
TIVADAR, SILVANA	2,996,436	TU, YONG	2,991,464	UNIVERSITE DE LILLE 2 DROIT ET SANTE	2,985,559
TIVITMAHAISOON, PARCHAREE	3,004,623	TU, YONG	2,995,099	UNIVERSITE DE	
TOBOLKA, PETER	2,996,474	TU, YONG	2,995,790	UNIVERSITE DE	
TOCCHIO, ALESSANDRO	2,997,384	TUAILLON, EDOUARD	2,988,781	UNIVERSITE DE	
TOHOKU UNIVERSITY	3,000,121	TUCHSCHERER, FRED	3,004,841	UNIVERSITE DE	
TOLKIN, BRIAN	3,004,098	TUFFILE, CHARLES D.	3,003,905	UNIVERSITE DE	
TOMAZETICH, MARIO	2,994,021	TUFTS MEDICAL CENTER	3,003,465	UNIVERSITE DE	
TOME, WOLFGANG	3,004,458	TUFTS UNIVERSITY	3,003,465	UNIVERSITE DE	
TOMMASI, LUCA	3,004,852	TULL, GRAHAM	2,992,510	UNIVERSITE DE	
TONKIN, TREVOR GRAHAM	3,004,112	TULL, GRAHAM	2,992,512	UNIVERSITE DE	
TOPORIK, AMIR	2,991,980	TUNABLE INFRARED TECHNOLOGIES AS	3,004,523	UNIVERSITE DE	
TORAL MARTIN, CRISTIAN	2,993,410	TURNER, CURT	3,004,311	UNIVERSITE DE	
TORAY INDUSTRIES, INC.	2,998,724	TUTON, JOHN	3,001,098	UNIVERSITE DE	
TORAY INDUSTRIES, INC.	3,004,257	TUZIKOV, ALEXANDER BORISOVICH	3,004,107	UNIVERSITE DE	
TORELLI, STEPHANIE	2,997,602	TWINCORE, ZENTRUM FUR EXPERIMENTELLE UND KLINISCHE INFEKTIONSFORSCHUNG	3,004,805	UNIVERSITE DE	
TORGUE, JULIEN	3,004,689	TWINWALL ICF LIMITED	3,000,896	UNIVERSITE DE	
TORRE AMIONE, GUILLERMO	2,998,291	TWO BLADES FOUNDATION	3,003,903	UNIVERSITE DE	
TORRENT PHARMACEUTICALS LIMITED	2,997,364	TYSTAD, CRAIG	3,004,175	UNIVERSITE DE	
TORRENT PHARMACEUTICALS LIMITED	2,997,463	TYULYAEVA, EKATERINA	2,994,508	UNIVERSITE DE	
TORRES, VLADIMIR	2,993,137	TYULYAEVA, EKATERINA	2,994,511	UNIVERSITE DE	
TORTILLARD, DAVID	2,994,047	TZUR, ITAI	2,986,370	UNIVERSITE DE	
TOSADO, NEFTALI	3,004,302	U.R, ANOOP	2,994,251	UNIVERSITE DE	
TOTAL MARKETING SERVICES	2,997,494	UBANI, ENRIQUE ZUDAIRE	3,004,117	UNIVERSITE DE	
		UBANI, ENRIQUE ZUDAIRE	3,004,134	UNIVERSITE DE	
		UBANI, ENRIQUE ZUDAIRE	3,004,138	UNIVERSITE DE	
		UBER TECHNOLOGIES, INC.	3,004,098	UNIVERSITE DE	
		UBER TECHNOLOGIES, INC.	3,004,452	UNIVERSITE DE	
		UCHIDA, RYO	3,004,539	UNIVERSITE DE	
		UCHIYAMA, HIROMASA	3,004,588	UNIVERSITE DE	
		UDP GOLLER	3,004,809	UNIVERSITE DE	
		UGLANE, VIDAR THUNE	3,004,157	UNIVERSITE DE	
				UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED	3,003,965
				UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	2,989,271



## Index des demandes PCT entrant en phase nationale

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	3,004,829	VALEMBOIS, GUY VALERO, REMI VALLEE, FREDERIC VALLOIR, NICOLAS	2,995,164 2,992,025 2,988,680 2,993,488	VAN VLASSENRODE, KRISTOF VANADIS DIAGNOSTICS VANDENBROECK, JAN	2,996,024 2,993,914 3,004,784 3,003,405
UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS	2,985,139	VALLOUREC OIL AND GAS FRANCE VALLVE, NIL VALMET AB	3,003,958 2,993,410 3,003,581 3,004,247	VANDERBILT UNIVERSITY VANDERSTRAETEN, ERWIN VANNEY, MARIE-CHRISTINE VANKEMMELBEKE, MIREILLE	3,004,779 2,988,499 2,996,436 3,004,370
UNIVERSITY MEDICAL CENTER HAMBURG - EPPENDORF	3,004,792	VAMSI KRISHNA, BANDI VAN ADRICHEM, PAULUS JACOBUS MARIA	2,995,662 2,994,686 2,996,261	VANLUE, DUKE VANNEMAN, MATTHEW VARDHAN, ANURAG VARGAS, RICHARD M.	3,004,148 3,004,485 3,004,292 3,004,489
UNIVERSITY OF DUNDEE UNIVERSITY OF DUNDEE UNIVERSITY OF DUNDEE UNIVERSITY OF LEICESTER	3,000,601 3,002,315 3,002,318 3,004,753	VAN ADRICHEM, PAULUS JACOBUS MARIA VAN ADRICHEM, PAULUS JACOBUS MARIA	2,996,262 2,996,264 2,996,265 2,993,129	VASKO, ROBERT VASLIN-CHESEX, ANNE VASQUES, RICARDO REVES VASU, MADHU	2,991,846 3,004,803 3,003,917 3,004,328
UNIVERSITY OF MARIBOR UNIVERSITY OF RIJEKA FACULTY OF MEDICINE	2,997,124 2,997,130 2,997,377	VAN ADRICHEM, PAULUS JACOBUS MARIA VAN ADRICHEM, PAULUS JACOBUS MARIA	2,996,264 2,996,265 2,994,686 2,996,261	VASU, MADHU VAUGHN, ROGER VAZQUEZ, DANIEL CRESPO VAZQUEZ, JOSE H.	3,004,328 2,985,959 2,996,388 3,004,641
UNIVERSITY OF TASMANIA UNIVERSITY OF ULSTER UNIVERSITY OF VIRGINIA PATENT FOUNDATION	3,004,643 2,993,759 3,004,745 3,004,745	VAN DEN BERG, EDUARDO ALEXANDER VAN DEN BERG, KAREL VAN DEN BERG, KAREL	2,993,129 2,994,686 2,996,261 2,996,262	VAZQUEZ, MANUEL PEREZ VAZQUEZ, MANUEL PEREZ VEAL, JAMES MARVIN VECCHIO, CHRISTOPHER J.	3,004,714 3,004,300 3,004,627 2,995,021
UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY	2,998,841 2,998,877	VAN DEN BERG, KAREL VAN DEN BERG, KAREL VAN DEN BERG, KAREL VAN DER WAAL, JAN CORNELIS	2,996,264 2,996,265 2,995,560 2,999,428	VEIGA CHACON, ESTEBAN VELAGAPUDI, PRASANNA VELEZ, MARIO FRANCISCO VENKAT NARSIMHA REDDY, ADULLA	3,004,711 3,004,764 2,995,662 2,995,662
UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNG HEE UNIVERSITY	2,998,877	VAN DER ZEE, ATE GERARD JAN VAN DIJK, PETER JOHANNES VAN DOORN, JOHANNES	2,996,806 2,989,540 2,991,870 2,997,900	VENKATARAMAN, SASHIKUMAR VENKATARAMANNA, M.V. VENKATESHAPPA, CHANDREGOWDA	3,004,281 2,993,922 2,998,705 2,995,568
UNIWERSYTET JAGIELLONSKI UNIWERSYTET WARSZAWSKI	2,992,705 2,998,293	VAN DOORN, JOHANNES ELISABERT VAN DRIEL, CHRISTOFFEL ADRIANUS	2,991,870 2,997,900 3,004,165 3,004,169	VENNER MEDICAL TECHNOLOGIES SA VENTANA MEDICAL SYSTEMS, INC.	2,995,568 3,004,504 2,994,660 3,004,188
UOP LLC UOP LLC UOP LLC UOP LLC UOP LLC	3,004,459 3,004,603 3,004,607 3,004,611 3,004,625	VAN DRIEL, CHRISTOFFEL ADRIANUS VAN DUN, CORNELIS MARIA PETRUS VAN DUN, CORNELIS MARIA PETRUS	2,997,900 3,004,165 3,004,169 3,003,962 3,003,998	VENTORA TECHNOLOGIES AG VENZMER, JOACHIM VEPSALAINEN, JOUKO VERBEEK, JOOST	3,004,504 2,994,660 3,004,188 2,996,811 3,003,962
URADE, VIKRANT NANASAHEB URBAN, FRANTISEK URBANSKI, JOHN PAUL	3,004,679 3,002,593 2,995,553 3,004,157	VAN GOOL, MICHIEL LUC MARIA VAN GOOL, MICHIEL LUC MARIA	3,003,962 3,003,998 2,996,635 2,989,551	VERBEEK, JOOST VERDIER, ANTOINE VERES, BENJAMIN VERESS, MATE VERHEEZEN, JACOBUS JOHANNES ADRIANA MARIA	3,003,998 2,998,061 3,004,841 2,994,903 2,989,390 2,989,390
USA INDUSTRIES, INC. USMIMA, S.L. USTAV MATERIALOV A MECHANIKY STROJOV SAV	3,004,787 2,997,665 2,996,474	VAN HEEKE, GINO ANSELMUS VAN HELDEN, PAULA MARIA WILHELMINA	2,996,635 2,989,551 3,004,086 2,991,880	VERHOEST, PATRICK ROBERT VERHOEVEN, EDWIN GERT JAN	2,994,903 2,994,903 2,989,456 2,995,802
UWI TECHNOLOGY LIMITED V. MANE FILS V. MANE FILS VACCA, JOSEPH VACCA, JOSEPH	3,004,816 2,992,522 2,992,699 2,994,644 3,004,095	VAN HOYWEGHEN, DANNY VAN LOO, PIETER FOKKO VAN LOON, ACHIEL J.M. VAN LOON, JOHANNES JOZEPHUS GERARDUS	3,004,086 2,995,802 3,004,090 3,004,624 3,004,062	VERHOEST, PATRICK ROBERT VERHOEVEN, EDWIN GERT JAN VERMA, KAVITA	2,989,456 2,995,802 2,994,251 2,995,323 2,995,323
VADERSTAD HOLDING AB VADIVELU, SARAVANAN VAILLANCOURT, LOUIS VAIQUE, EMILIE	2,997,033 2,997,531 2,988,680 2,993,488	VAN RYN, EMMA CHRISTINA VAN THOURNOUT, MICHEL VAN TOL, ERIC A.F. VAN TOL, ERIC A.F.	3,004,090 3,004,624 3,004,062 3,004,722	VERNON, FREDRICK MICHAEL JOSEPH VERNON, PAUL JOHN EDWARD	2,995,323 2,995,323 3,004,483 3,004,117
VAKNIN, ILAN VALADE, DAVID VALADE, FREDERIC VALBERG, STEFAN	2,991,980 2,997,519 3,004,342 2,997,033	VAN TOL, ERIC A.F. VAN TOL, ERIC A.F. VAN TUNEN, ADRIANUS JOHANNES VAN VELZEN, TOM	3,004,737 3,004,740 2,996,806 3,004,194	VERONA, RALUCA VERONA, RALUCA VERRENCY HOLDINGS LIMITED	3,004,134 3,004,138 2,998,295 2,998,295

## Index of PCT Applications Entering the National Phase

VERTEX PHARMACEUTICALS INCORPORATED	2,988,680	VOZIYAN, PAUL	3,003,405	WANG, TAO	2,995,087
VESTAS WIND SYSTEMS A/S	2,997,643	VSH FITTINGS B.V.	2,996,837	WANG, TINGTING	2,998,871
VETTER, INGO	2,996,918	VTS SPOLKA Z OGRANICZONA		WANG, XIANPING	3,004,367
VIAUX, IVAN	3,004,454	ODPOWIEDZIALNOSCIA	2,992,549	WANG, XIAOBEI	3,004,444
VIB VZW	3,003,969	VULTO, PAUL	2,991,876	WANG, XIAOCHUAN	2,993,502
VIIV HEALTHCARE UK (NO.5) LIMITED	2,990,575	W. L. GORE & ASSOCIATES, INC.	3,004,146	WANG, XIAOFEI	3,004,147
VIIV HEALTHCARE UK (NO.5) LIMITED	2,991,268	W. L. GORE & ASSOCIATES, INC.	3,004,627	WANG, XIAOLIN	3,004,649
VIIV HEALTHCARE UK (NO.5) LIMITED	2,991,464	WAARA, ERIK ROLLMAN	2,991,856	WANG, XINGXING	3,004,147
VIIV HEALTHCARE UK (NO.5) LIMITED	2,991,467	WACKER, MATTHIAS	3,004,363	WANG, XIULI	3,004,299
VIIV HEALTHCARE UK (NO.5) LIMITED	2,994,512	WADSWORTH, SIMON	2,997,521	WANG, XUEHAI	3,004,372
VIIV HEALTHCARE UK (NO.5) LIMITED	2,994,517	WAGENAAR, BERTUS MICHIEL	2,990,159	WANG, XUEQING	2,991,273
VIIV HEALTHCARE UK (NO.5) LIMITED	2,994,791	WAGER, TRAVIS T.	2,989,456	WANG, YI-LAN	3,004,272
VIIV HEALTHCARE UK (NO.5) LIMITED	2,995,042	WAGNER, THOMAS	3,004,711	WANG, YONG	2,992,397
VIIV HEALTHCARE UK (NO.5) LIMITED	2,995,087	WAKAMIYA, STANLEY KATSUYOSHI	3,004,084	WANG, YONGCAI	3,004,492
VIIV HEALTHCARE UK (NO.5) LIMITED	2,995,099	WAKAMIYA, STANLEY KATSUYOSHI	3,004,335	WANG, YONGQIANG	2,995,795
VIIV HEALTHCARE UK (NO.5) LIMITED	2,995,790	WAKAMIYA, STANLEY KATSUYOSHI	3,004,337	WANG, YUAN	3,004,775
VIJAY, SAMEER	3,004,181	WALDOWSKI, TIMOTHY JAMES	3,004,511	WANG, ZHENG	3,004,147
VIJAY, SAMEER	3,004,662	WALDRAFF, CHRISTIAN	3,004,360	WANG, ZHENG	3,004,459
VILLARD, LOIC	2,997,939	WALK, ERIC	3,004,504	WANG, ZHONGYU	2,994,517
VILLERT, SEBASTIEN	3,003,958	WALKE, DEEPAK SAHEBRAO	2,996,263	WANGLIN, YU	3,004,207
VILLEY, ISABELLE	3,004,366	WALKER, STEVEN	2,989,388	WARBURTON TECHNOLOGY LIMITED	3,001,104
VINCENT, PAUL R.	3,004,834	WALKER, STEVEN	2,993,142	WARDLEY, MICHAEL	2,996,785
VIRDEE, SATPAL	3,000,601	WALL, EMMA	3,004,836	WARNER, AMELIA WALL	3,003,885
VIRILITY MEDICAL LTD.	3,004,513	WALLACE, DAVID MARK	3,004,297	WARNER, AMELIA WALL	3,004,479
VISA EUROPE LIMITED	3,004,396	WALLACE, DAVID MARK	3,004,506	WARREN, WESLEY JOHN	3,004,709
VISA INTERNATIONAL SERVICE ASSOCIATION	3,003,897	WALLACE, WILLIAM ANGUS	2,992,517	WASHINGTON, GEORG	3,004,484
VISA INTERNATIONAL SERVICE ASSOCIATION	3,003,917	WALMART APOLLO, LLC	3,004,139	WASHINGTON, GEORG	3,004,490
VISHWAKARMA, RAM	3,004,534	WALMART APOLLO, LLC	3,004,179	WATSON-MARLOW LIMITED	2,997,865
VISTERRA, INC.	3,004,790	WALMART APOLLO, LLC	3,004,283	WAUGAMAN, CHARLES	3,004,289
VISWANATHAN, KARTHIK	3,004,790	WALMART APOLLO, LLC	3,004,294	WAWORUNTU, ROSALINE	3,004,062
VIT, STEFANO	2,994,913	WALMART APOLLO, LLC	3,004,470	WAYMAN, MALCOLM	2,991,960
VITA CHOCO KFT.	2,990,351	WALSH, ALLAN	3,004,771	WEATHERFORD U.K. LIMITED	2,994,902
VIVARAIL LTD	2,995,150	WALSH, MARIA	3,004,522	WEBER, PATRICK	3,004,664
VIVIANI ANSELMINI, CHIARA	3,004,378	WALSH, TIMOTHY SIMON	3,003,955	WEBER, PAUL	3,000,091
VLASAK, PAVEL	2,997,633	WALSH, TIMOTHY SIMON	3,003,964	WEICHERT, JAMEY	3,004,458
VOGEL, VITALI	3,004,363	WAMAN, YOGESH	2,993,312	WEIGL, MARKUS	2,994,734
VOGO	2,998,865	WANDLER, KLAUS	3,003,928	WEIGL, MARKUS	2,994,764
VOIGHT, ERIC	2,991,273	WANDSCHNEIDER, GUIDO	2,994,025	WEIGUNY, SABINE	3,004,795
VOLEK, ROBERT	3,004,620	WANG, BINGYANG	2,990,547	WEIGUNY, SABINE	3,004,802
VOLFONI R&D EURL	2,990,541	WANG, CE	3,004,592	WEILAND, ANDREA	3,004,362
VOLTRICS LTD	2,992,026	WANG, CHENGZHI	3,004,650	WEISS, PIERRE	3,004,192
VON DER OHE, THOMAS	3,004,532	WANG, DONG	3,004,444	WEITZ, DAVID A.	3,004,347
VON HARBOU, ERIK	3,004,503	WANG, EVELYN	3,003,422	WELLGUARD AS	2,997,901
VON SCHUCKMANN, ALFRED	3,004,785	WANG, GANG	3,004,282	WELLTEC A/S	3,004,803
VON WEGERER, JORG	2,990,298	WANG, HAIBING	2,990,547	WEN, JERROLD	3,004,657
VOORDEN, BERT-TEN	3,004,511	WANG, JE-WON	2,994,523	WENDA OY	2,996,089
VORMANN, MARIANNE KATHARINA	2,991,876	WANG, JINXIN	3,004,797	WENTWORTH, RICHARD	2,990,171
VOSELER, JULIAN	3,004,128	WANG, JOHN	3,004,623	WERT, DAVID C.	2,996,256
VOTOLATO, EARL J.	3,004,265	WANG, JOHN	3,004,623	WESTMAN, ANDERS	3,003,910
		WANG, KUAN HSUN	2,994,217	WHALE, ANDREW DAVID	2,995,898
		WANG, LAURENE	3,004,331	WHALE, ANDREW DAVID	2,995,991
		WANG, LICHUN	2,995,795	WHALLEY, BENJAMIN	2,992,802
		WANG, SHUDONG	2,994,023	WHEATLEY, BARRY L.	2,989,278
		WANG, TAO	2,990,575	WHEATLEY, CHARLES EDWARD	3,003,882
		WANG, TAO	2,991,467	WHILDING, LYNSEY MAY	2,993,746
		WANG, TAO	2,994,791	WHISPERSOM CORPORATION	3,004,536
		WANG, TAO	2,995,042	WHITE, BRANDON DOUGLAS	3,004,591
				WHITE, MICAELA	3,004,141
				WHITE, ROBERT	2,996,758
				WHITEHEAD, DAVID	2,997,413
				WHITELOCK, STEVE	2,994,103

## Index des demandes PCT entrant en phase nationale

WHITELOCK, STEVE	2,994,109	WITTY, CHRISTOPHER	2,997,174	XIAO, QIANG	3,004,372
WHITTAKER, PAUL	3,003,976	WITTY, CHRISTOPHER	2,997,207	XIAO, YUNQIU	3,004,592
WHITTINGTON, CHARLES	3,004,254	WITTY, CHRISTOPHER	2,998,722	XIE, LI	3,004,363
WHITWORTH, DAVID	2,982,431	WM. WRIGLEY JR. COMPANY	3,004,476	XIE, XINMIN	3,004,448
WHITWORTH, DAVID	2,984,465	WOBLEN PROPERTIES GMBH	3,004,184	XIE, ZIHAO	2,990,547
WIEGEL, AARON J.	3,004,289	WOBLEN PROPERTIES GMBH	3,004,600	XIONG, HANQING	3,004,374
WIEGEL, AARON J.	3,004,608	WODLINGER, BRIAN	3,004,657	XIROS LIMITED	2,992,517
WIEHAGEN, KARLA R.	3,004,117	WOERDENBAG, HERMAN		XU, DONGCHUN	2,999,904
WIEHAGEN, KARLA R.	3,004,134	JOHAN	3,001,981	XU, FANGMIN	2,994,516
WIEHAGEN, KARLA R.	3,004,138	WOHLFAHRT, GERD	2,989,265	XU, FANGMIN	2,995,795
WIEMANN, HENNING	2,995,565	WOLLACOTT, ANDREW M.	3,004,790	XU, HUAWEN	2,990,547
WIERZYNSKI, CASIMIR		WOLTER, MIRCO	2,994,584	XU, JIN	3,000,142
MATTHEW	3,004,262	WONG, JOSHUA	3,004,649	XU, SHAOYU	3,004,804
WILDE, ZACHARY	3,004,178	WONG, KIAN-MING	3,004,736	XU, TIAN	3,004,636
WILEMAN, RICHARD	2,994,776	WOOD, KURT ARTHUR	3,004,844	XU, WEI	3,004,488
WILHELMI, MATTHEW	3,004,440	WOOD, MICHAEL FRANK		XU, XIAODONG	3,004,592
WILHELMS, MARKUS	2,997,665	GUNTER	3,004,167	XU, YILING	3,004,644
WILLEMS, HENDRIKA MARIA		WOOLFORD, ALISON JO-		XU, YILING	3,004,650
GERARDA	2,988,373	ANNE	2,988,373	XU, YONG	3,004,372
WILLIAMS, DREW	3,004,346	WOOLFORD, ALISON JO-		YAKHEL, VADIM	2,986,527
WILLIAMS, IAN ROSS	2,993,411	ANNE	2,988,374	YAKHEL, VADIM	2,987,198
WILLIAMS, ROBIN	2,992,802	WOOLLEY, SIMON	2,997,174	YAMADA, MASAMI	2,988,572
WILLIAMSON, RANDAL		WOOLLEY, SIMON	2,998,722	YAMAOKA, IPPEI	3,004,153
SCOTT	3,004,180	WORLDVU SATELLITES		YAN, HONGXING	2,988,373
WILLOUGHBY, ALASTAIR	2,997,514	LIMITED	2,993,628	YAN, HONGXING	2,988,374
WILLS-GUY, DEANN	3,004,311	WORLDVU SATELLITES		YANAMANDRA, NIRANJAN	2,994,635
WILM, PATRICK	3,004,781	LIMITED	2,994,364	YANAMANDRA, NIRANJAN	2,994,910
WILMINGTON, GUY	3,004,758	WORMANN, PHILIPP	3,004,377	YANG, FEIFEI	3,004,147
WILSON, ANDERS	2,992,973	WORTMANN, JUERGEN	3,004,802	YANG, GAOQIANG	3,004,641
WILSON, DANIEL J.	2,992,949	WORTMANN, JURGEN	3,004,795	YANG, GAOQIANG	3,004,714
WILSON, DAVID SCOTT	2,998,066	WOUGAMON, JAKE	3,004,268	YANG, HEE KYUNG	3,004,656
WILSON, DOUGLAS	2,984,086	WOZENCROFT, ROBERT	3,004,404	YANG, HYUN-KOO	2,997,027
WILSON, DOUGLAS	3,003,721	WOZENCROFT, ROBERT	3,004,406	YANG, HYUNMO	2,993,929
WILSON, KEVIN J.	3,003,721	WOZENCROFT, ROBERT	3,004,409	YANG, LING	3,004,173
WILSON, MATTHEW SHAWN	3,004,189	WR SYSTEM CO., LTD	2,989,998	YANG, SEOK WOO	2,996,937
WILSON, ROBERT SAMUEL	2,997,679	WRACK, PHIL	2,981,241	YANG, YOUNG LYEOL	2,990,376
WILSON, SCOTT	3,004,481	WRH WALTER REIST		YANG, YOUNG LYEOL	2,992,970
WILSON, TROY DOUGLAS	3,004,749	HOLDING AG	3,003,942	YANG, ZHENGYI	2,985,139
WINDHAB, ERICH	3,004,382	WRIGHT MEDICAL		YANG, ZHIGUO	2,990,647
WINDLE, JESSE	3,004,350	TECHNOLOGY, INC.	3,004,736	YANG, ZHONGWEN	3,004,372
WING SING TSANG, RICKY	3,004,191	WRIGHT, STEPHEN	2,989,779	YAO, CHUNHUA	3,004,525
WINN, ALEXANDER LEE	3,004,049	WRIGHT, STEPHEN	2,995,927	YAO, HAIQING	3,004,058
WINSTANLEY, CRAIG	2,990,743	WRIGHT, STEPHEN WAYNE	2,996,389	YAP COMPANY	2,997,272
WINTER, NATALIE ADELE	2,995,424	WU, CHIA-YUNG	3,004,491	YAZICI, YUSUF	3,004,297
WIRDNAM, CORINA		WU, DANQING	2,995,795	YAZICI, YUSUF	3,004,506
DANIELA	2,996,025	WU, HAO	3,004,173	YEDA RESEARCH AND	
WIRDNAM, CORINA		WU, LIFANG	3,004,173	DEVELOPMENT CO. LTD.	2,992,419
DANIELA	2,996,028	WU, QILONG	2,995,795	YEDITEPE UNIVERSITESI	2,995,924
WISCONSIN ALUMNI		WU, SAREINA CHIUNG-YUAN	3,004,665	YELESWARAM,	
RESEARCH		WU, SHENG-JIUN	3,004,117	KRISHNASWAMY	3,004,083
FOUNDATION	3,004,458	WU, SHENG-JIUN	3,004,134	YEOH, IVAN L.	3,004,271
WISER, OFER	2,993,912	WU, SHENG-JIUN	3,004,138	YEOH, IVAN L.	3,004,278
WISMAN, GIJSBERTHA		WUEEST, THOMAS	3,003,969	YEUNG, MING C.	2,991,273
BARENDINA ALIDA	2,999,428	WUERKER, SASCHA	2,996,537	YI, YIL WOONG	2,993,920
WISNIEWSKI, PAWEL	3,004,806	WUERTHNER, JENS	2,991,715	YI, YIL WOONG	2,993,923
WISSE, DIK-JAN	2,994,686	WUPATEC	2,986,053	YI, YIL WOONG	2,993,925
WISSE, DIK-JAN	2,996,261	WURM, JOHANN	3,004,666	YI, YIL WOONG	2,993,928
WISSE, DIK-JAN	2,996,262	WURNITSCH, CHRISTOF	3,004,181	YIN, ZHIWEI	2,990,575
WISSE, DIK-JAN	2,996,264	WURNITSCH, CHRISTOF	3,004,662	YIN, ZHIWEI	2,994,791
WISSE, DIK-JAN	2,996,265	WYLER, GREGORY	2,993,628	YIN, ZHIWEI	2,995,042
WITHEY, GARY	3,004,310	WYLIE, BENJAMIN	2,997,677	YIN, ZHIWEI	2,995,087
WITT, JOHN	2,981,760	WYTHES, MARTIN	2,994,917		
WITTMANN, JOHANNES	2,990,573	XEROS LIMITED	2,993,408		
WITTY, CHRISTOPHER	2,995,800	XIA, HANGUI	3,004,372		

## Index of PCT Applications Entering the National Phase

YISSUM RESEARCH		ZAKEN, ROI	3,003,979	ZITTING, SAMULI	3,004,662
DEVELOPMENT		ZAMBAD, SHITAL KUMAR	2,997,364	ZIV, ILAN	2,995,663
COMPANY OF THE		ZAMBAD, SHITAL KUMAR	2,997,463	ZOLGHADR, KOUROSH	3,004,671
HEBREW UNIVERSITY OF		ZAMIR, DANI	2,989,991	ZOPPAS, MATTEO	3,004,168
JERUSALEM LTD.	2,989,991	ZANG, MARCUS	2,997,308	ZSELLER, VIKTOR	3,004,325
YISSUM RESEARCH		ZAPF, CHRISTOPH		ZULZER, PETER	3,004,806
DEVELOPMENT		WOLFGANG	2,996,389	ZUO, CHENGJIE	3,004,764
COMPANY OF THE		ZAPF, THOMAS	2,996,373	ZWILLINGER, DANIEL	3,004,452
HEBREW UNIVERSITY OF		ZAPOTOCZNY, SZCZEPAN	2,992,705	□ PANIELKA, JAN	2,996,474
JERUSALEM LTD.	2,994,644	ZEBREGS, MARTIJN	2,997,900		
YISSUM RESEARCH		ZELEKE, SOLOMON TADESSE	2,994,023		
DEVELOPMENT		ZEMACH, ITAY	2,989,991		
COMPANY OF THE		ZENG, SHAOQUN	3,004,374		
HEBREW UNIVERSITY OF		ZENITH OILFIELD			
JERUSALEM LTD.	2,997,130	TECHNOLOGY LIMITED	3,004,149		
YOGEV, RONEN	2,986,370	ZHANG, BIN	3,004,594		
YOGEV, RONEN	2,986,518	ZHANG, GUOPENG	3,001,046		
YOKOYAMA, ITARU	3,004,042	ZHANG, HAIYAN HENRY	3,004,783		
YONEMORI, JINICHI	2,988,572	ZHANG, HUIQUAN	3,004,361		
YOO YOUNG PHARM		ZHANG, JINGYUAN	3,004,797		
CO.,LTD.	2,992,404	ZHANG, JIYAO	3,003,906		
YOO YOUNG PHARM.		ZHANG, LIANGHUI	3,004,644		
CO.,LTD.	2,994,797	ZHANG, LIANSHAN	3,004,804		
YOO, HYUK	2,993,430	ZHANG, SHIYU	3,003,937		
YOO, IN HWA	2,998,312	ZHANG, SHIYU	3,004,187		
YOO, MOON-SOO	2,993,430	ZHANG, WANQIN	2,984,569		
YOON, JEEN MOK	2,999,013	ZHANG, WEI	3,004,415		
YOON, JONG MIN	2,992,829	ZHANG, WENJUN	3,004,644		
YOON, TAEYOUNG	2,995,675	ZHANG, WENJUN	3,004,650		
YOON, YOO JEONG	2,993,923	ZHANG, XI	3,004,058		
YOON, YOO JEONG	2,993,925	ZHANG, XIAOLIN	3,004,372		
YOON, YOO JEONG	2,993,928	ZHANG, YANSHI	3,004,729		
YORK INSTRUMENTS		ZHANG, YI	3,004,592		
LIMITED	2,993,345	ZHANG, ZHONGXING	2,991,467		
YOSHIKAWA, MASATO	2,992,700	ZHANG, ZHONGXING	2,994,791		
YOSHINO GYPSUM CO., LTD.	3,004,042	ZHANG, ZHONGXING	2,995,042		
YOSHINO, HIDEKI	3,000,121	ZHANG, ZHONGXING	2,995,087		
YOUNG, BENJAMIN JOHN	2,992,517	ZHAO, DE	3,004,797		
YOUNG, PETER JEFFREY	2,995,568	ZHAO, HUAN	3,004,143		
YOWE, DAVID LANGDON	2,994,516	ZHAO, JIE	2,984,569		
YRFREE TECHNOLOGIES LTD	3,002,735	ZHAO, KUIBING	2,981,869		
YU, KAIBEN	2,990,647	ZHAO, PENG	3,003,897		
YU, KAREN	3,003,422	ZHENG, GUO ZHU	3,004,623		
YU, LIHUA	3,004,623	ZHENG, PU	2,998,687		
YU, LINGFENG	2,989,094	ZHONG, YAN	3,004,062		
YU, LINGFENG	2,993,416	ZHOU, KAI	3,004,147		
YU, LINGFENG	2,993,417	ZHOU, MIN	3,004,469		
YU, LINGFENG	3,004,232	ZHOU, WENSHENG	3,004,525		
YU, LINGFENG	3,004,517	ZHU, FENQIN	3,004,775		
YU, MINGFENG	2,994,023	ZHU, HONGZHI	2,989,711		
YU, SIMON SIU-CHI	2,983,241	ZHU, WENJIE	3,004,644		
YUAN, FANG	3,004,444	ZHU, YANFANG	2,989,711		
YUDS, DAVID	3,004,461	ZHU, ZHENGLUN	3,003,877		
YUE, YANG	3,004,372	ZHU, ZHONGYU	3,004,438		
YUI, HAJIME	3,004,691	ZIEGENBEIN, TIMO	3,004,806		
YUI, HAJIME	3,004,850	ZIEMS, BERND	3,004,806		
YUN, CHANGHAN HOBIE	3,004,764	ZIESKE, LYNN R.	2,994,518		
YURLOVA, LARISA	3,004,671	ZIEVERINK, MARTINUS			
ZACHA, JAMES	3,004,443	MATHILDA PIETER	2,988,392		
ZACHA, JAMES	3,004,447	ZIGELBOIM, OR	3,004,821		
ZACHARA, CHRISTOPHER	3,004,172	ZIMMERLI, PHILIPP	3,004,628		
ZAIKOV, VADIM G.	3,004,264	ZIMMERMANN, DIETRICH	3,004,119		
ZAJACZKOWSI, PETER	3,004,619	ZIOLOWICZ, ANNA	3,000,156		
ZAK, JOSEF	2,989,673	ZITTING, SAMULI	3,004,181		

## Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

### Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

ADAMS, THOMAS A., II	2,982,472	FLASINSKI, STANISLAW	3,004,030	MONSANTO TECHNOLOGY	
AIKALA, LARS	3,003,994	FLASINSKI, STANISLAW	3,004,039	LLC	3,004,030
ALLERGAN, INC.	2,967,401	FORREST, EARL DAVID	2,985,008	MONSANTO TECHNOLOGY	
ALLERS, BRIAN S.	2,984,298	FORSELL, PETER	3,004,075	LLC	3,004,039
ALLIANCE		FORSELL, PETER	3,004,121	MORRISON, BILLY	2,984,223
MANUFACTURING, INC.	2,971,029	GALLOP, CHARLES C.	2,984,208	MORRISS, JOHN H.	3,002,994
AMIDON, KEITH ERIC	3,002,975	GARBARINO, GWENDOLYN		MORTON, EDWARD JAMES	3,002,818
ARRIAGA, JORGE ALBERTO	3,004,012	MARY	3,004,025	MOTIVE DRILLING	
ARRIAGA, JORGE ALBERTO	3,004,018	GENPAK, LLC	2,984,298	TECHNOLOGIES, INC.	3,004,093
ARRIAGA, JORGE ALBERTO	3,004,040	GOLDFARB, ERIC	3,002,994	NANOSPHERE HEALTH	
ATC TRANSPORTATION LLC	3,004,069	GROSS, JESSE E., IV	3,002,975	SCIENCES, LLC	3,002,989
ATOMIC ENERGY OF		GROWERS EXPRESS, LLC	2,977,366	NH REAL ESTATE HOLDINGS	
CANADA LIMITED		GUNDERSON, KEVIN L.	3,003,082	LTD.	2,984,223
(AECL)	3,004,276	HERSAK, GREG	3,004,276	NICIRA, INC.	3,002,975
BACIGALUPO, MARIA		ICM, INC.	2,984,208	NINGBO DAVID MEDICAL	
CANDELARIA ROBERT	3,003,082	ILLUMINA, INC.	3,003,082	DEVICE CO., LTD.	3,004,061
BALLAND, PETER J., III	3,002,975	INGRAM, PAUL S.	3,002,975	NOVA CHEMICALS	
BALLINGER, SARAH	2,982,472	JOHNSON, DONALD	2,995,467	CORPORATION	2,977,513
BAXTER, L. REX	2,977,886	JOHNSON, KENNETH DAVID	3,002,446	NTT DOCOMO, INC.	3,002,931
BEASLEY, BRYAN	2,977,886	JUNG, HAE-KYUNG	3,003,797	OBEROI, HARINDER	3,004,012
BEDNARCZYK, ANDREA	2,984,223	KARR, GARY L.	2,977,886	OBEROI, HARINDER	3,004,018
BEIERLE, JOHN M.	3,003,082	KAUFMAN, RICHARD CLARK	3,002,989	OBEROI, HARINDER	3,004,040
BENSON, TODD W.	3,004,093	KIKUIRI, KEI	3,002,931	ODELL, ALBERT C.II	3,004,101
BERTI, LORENZO	3,003,082	KIM, IL-KOO	3,003,797	OSHINS, JACOB	3,003,789
BIENIARZ, CHRISTOPHER	2,995,467	KING, JAMES MITCH	3,004,276	PALMER, WENDELL	2,984,526
BINK, JEROEN	3,004,061	KNOWLES, JAMES H.	3,002,446	PARK, SANG RYUL	3,003,082
BLITON, RICHARD	2,977,774	KOPONEN, TEEMU	3,002,975	PEDERO PIPE SUPPORT	
BOURGEOIS, JEAN-		KOSMEDER, JERRY W.	2,995,467	SYSTEMS USA, LP	2,984,281
RAYMOND	3,000,321	KRATZER, JEFF A.	2,977,886	PETTIT, JUSTIN	3,002,975
BOWEN, M. SHANE	3,003,082	LE, TUONG THANH	3,004,101	PFAFF, BENJAMIN LEVY	3,002,975
BRUNDAGE, DAVID J.	2,984,219	LEE, SUN-IL	3,003,797	PHILLIPS, WILLIAM OSCAR	2,977,774
CARROLL, WILLIAM	2,977,774	LEFEVER, MARK	2,995,467	PLY GEM INDUSTRIES, INC.	2,977,886
CASADO, MARTIN	3,002,975	LIBERTY HARDWARE MFG.		POLLOCK, JACOB F.	2,967,401
CCI THERMAL		CORP.	2,985,008	PRECISION FABRICS GROUP,	
TECHNOLOGIES INC.	2,984,748	LIN, SHENGRONG	3,003,082	INC.	2,977,774
CHANG, GORDON	3,002,446	LIN, TZONG-FU	3,004,026	RAPISCAN SYSTEMS, INC.	3,002,818
CHANG, JOHN Y.	3,002,994	LIU, GREGORY	3,002,994	RATCLIFFE, BRANDON	2,977,774
CHEN, TEDDY C.	3,004,093	MABU, HIROTOSHI	2,984,054	REBMANN, CHAD	2,984,219
CHEON, MIN-SU	3,003,797	MACK, JORY B.	2,984,219	RECOVER ENERGY SERVICES	
CLARE, ROBERT HUGH	2,977,513	MAH, KOR ZHENG	2,984,748	INC.	2,984,526
CLIFFORD, ANTON G.	3,002,994	MAKOWER, JOSHUA	3,002,994	RICHART, OLIVIER	2,995,547
COVIDIEN LP	3,003,793	MALCOLM, CHIRSTIAN		ROMEU GUARDIA, GENER	2,984,004
DELBUSSO, MARCO	2,984,223	DAMIAN	2,977,887	ROSS, STAN	2,984,526
DIRECT PACK, INC.	2,977,887	MALDONADO, ALEJANDRO	2,984,748	ROTECNA, S.A.	2,984,004
DOUGLASS, NELSON	2,977,774	MANESIS, NICHOLAS J.	2,967,401	ROVI GUIDES, INC.	3,002,446
DRAPER, ALAN S.	3,004,012	MARTIN, RYAN	2,985,008	SAMSUNG ELECTRONICS	
DRAPER, ALAN S.	3,004,018	MCDADE, CLINTON		CO., LTD.	3,003,797
DRAPER, ALAN S.	3,004,040	LAWRENCE	2,977,243	SARH, BRANKO	3,004,012
ELLIS, PETER	2,984,281	MCMaster UNIVERSITY	2,982,472	SARH, BRANKO	3,004,018
FACTEAU, WILLIAM M.	3,002,994	MEDICALTREE PATENT LTD.	3,004,075	SARH, BRANKO	3,004,040
FARRELL, MICHAEL	2,995,467	MEDICALTREE PATENT LTD.	3,004,121	SCHAEFER SYSTEMS	
FEASEY, GUY F.	3,004,101	MICROSOFT TECHNOLOGY		INTERNATIONAL, INC.	2,977,243
FINDLAY, MELISSA ANN	3,004,012	LICENSING, LLC	3,003,789	SCHUETTENBERG, DONALD	
FINDLAY, MELISSA ANN	3,004,018	MIN, JUNG-HYE	3,003,797	W.	3,004,069
FINDLAY, MELISSA ANN	3,004,040	MITSUI HIGH-TEC, INC.	2,984,054	SCIRICA, PAUL A.	3,003,793

**Index of Canadian Divisional and Previously Unavailable  
Applications Open to Public Inspection**

SELENIUM MEDICAL	2,995,547
SHAHOIAN, ERIK JAMES	3,002,994
SILVER PLUME, LLC	3,004,025
STEPIEN, BRIAN	2,977,366
SZYNKARCZUK, JAREK	2,984,748
THE BOEING COMPANY	3,004,012
THE BOEING COMPANY	3,004,018
THE BOEING COMPANY	3,004,040
TREVINO, JOSE A.	3,004,101
TSAY, JAMES	3,003,082
TSUTSUMI, KIMITAKA	3,002,931
TUSKER MEDICAL, INC.	3,002,994
TWARDOWSKI, ERIC M.	3,004,101
VALOYA OY	3,003,994
VAN DENHOUT, JEROEN	3,004,061
VAN DIJK, OSKAR	3,004,061
VAN ZON, DAVID N.	2,971,029
VEACH, RICHARD R.	2,977,886
VENKATESAN, BALA MURALI	3,003,082
VENTANA MEDICAL SYSTEMS, INC.	2,995,467
VENTURI, JOHN-PHILIP	2,984,223
VIJAYAN, KANDASWAMY	3,003,082
WARNER, MICHAEL V.	2,984,298
WEATHERFORD TECHNOLOGY HOLDINGS, LLC	3,004,101
WENDLANDT, DANIEL J.	3,002,975
WERAN, LORNE	2,984,748
WESTBY, BERNARD	2,984,281
WESTROCK SHARED SERVICES, LLC	2,984,219
WHOLE SPACE INDUSTRIES LTD.	3,004,026
WILLEMSSEN, HELEEN	3,004,061
WRAY, RICHARD	3,004,276
WU, YIR-SHYUAN	3,003,082
XU, WEI JAKE	3,004,101
YAMAGUCHI, ATSUSHI	3,002,931
YU, XIAOJIE	2,967,401
ZHILINA, ZHANNA	2,995,467