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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.

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## Notices

## Avis

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

#### Dates

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

#### Code Numerals

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

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

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

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

#### Dates

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

#### Chiffres de code

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

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

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

## 2. Country Code

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

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

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

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

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

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

## 2. Code des pays

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

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

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

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

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

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

## 5. Advice on Making a Patent Application

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

## 6. Licensing of Patents

### Voluntary Licences

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

### Compulsory Licences

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

## 7. Patents Available for Licence or Sale

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

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

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

None

## 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 :

Aucun

## 9. Applications Open to Public Inspection

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

## 10. Language of Published Documents

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

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

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

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

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

## 9. Demandes mises à la disponibilité du public

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

## 10. Langue du document publié

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

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

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

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

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

## Notices

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

### 4. Late payment fee

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

### Preliminary Examination

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

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

\* International fees will be reduced by:

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

## 12. PCT Notices

### Patent Cooperation Treaty (PCT)

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

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

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

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

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

### 4. Taxe pour paiement tardif

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

### Examen préliminaire

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

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

\* Les frais seront réduits de:

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

## 12. Avis PCT

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

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

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

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

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

### 13. Practice Notice

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

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

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

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

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

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

### 13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

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.

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).

## 14. Correspondence Procedures

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

Web Link for MOPOP:

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

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

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

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

Publication date: May 10, 2017

Amendment date: June 17, 2019

### On this page:

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

(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.

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*.

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. Procédures de correspondance

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

Lien Web pour le RPBB :

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

## Notices

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

Download the [Fee Payment Form](#).

### 1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

### 1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

- 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,  
except statutory holidays

- 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,  
except statutory holidays

l'exception des jours fériés

- 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, à  
l'exception des jours fériés

- 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, à  
l'exception des jours fériés

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

### 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

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

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

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

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

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

### 2. Electronic Correspondence

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

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

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

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

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

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

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

### 2. Correspondance électronique

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

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

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

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

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

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open for business.

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

### 2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

### 2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

## Notices

### Patents

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

### 2.2 Online

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

### Patents

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

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

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

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

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

### Trademarks

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

### Brevets

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

### 2.2 En ligne

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

### Brevets

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

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

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

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

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

### Marques de commerce

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

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accessing the following pages:

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

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

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

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

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

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

## Copyright

:

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

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

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

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

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

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

## Droits d'auteur

## Notices

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

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

## Industrial Designs

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

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

## Integrated Circuit Topographies

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

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

### 2.3 Electronic medium

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

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

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

## Dessins industriels

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

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

## Topographies de circuits intégrés

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

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

### 2.3 Supports électroniques

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

## Brevets

## Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Notices

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

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

### Electronic Media accepted by the Patent Office

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

### Trademarks and Industrial Design

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

## 3. Details Concerning the Electronic Formats Accepted

### Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

### Supports électroniques acceptés par le Bureau des brevets

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

### Marques de commerce et dessins industriels

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

## 3. Précisions concernant les formats électroniques acceptés

### Brevets

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

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

## Avis

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

TIFF Format:

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

PDF Format:

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

ASCII

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

## Trademarks

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

## Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

## Marques de commerce

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

## Dessins industriels

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

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

## Notices

### 4. General Information

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

### 5. Time Period Extensions

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

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

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

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

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

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

### 4. Renseignements généraux

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

### 5. Prorogation des délais

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

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

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

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

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

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

## Avis

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Notices

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

### Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Notices

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

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

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

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

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

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

#### Trademarks

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

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

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

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

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

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

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

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

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

#### Marques de commerce

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

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

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

## Avis

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

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

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

The *Canadian Patent Office Record* of March 31, 2020 contains applications open to public inspection from March 15, 2020 to March 21, 2020.

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

La *Gazette du bureau des brevets* du 31 mars 2020 contient les demandes disponibles au public pour consultation pour la période du 15 mars 2020 au 21 mars 2020.

# Canadian Patents Issued

March 31, 2020

## Brevets canadiens délivrés

31 mars 2020

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[11] **2,550,853**  
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR PLACING ADVERTISEMENTS BASED ON SELECTION OF LINKS THAT ARE NOT PROMINENTLY DISPLAYED**

[54] **PROCEDE ET SYSTEME DE PLACEMENT DE PUBLICITES SUR LA BASE DE LA SELECTION DE LIENS N'ETANT PAS AFFICHES DE FACON CLAIRE**

[72] SCHOLL, NATHANIEL BLAKE, US  
[72] POWER, JOANNA, US  
[72] DENEUI, ALEXANDER W., US  
[73] AMAZON TECHNOLOGIES, INC.,  
[85] 2006-06-21  
[86] 2004-12-29 (PCT/US2004/044021)  
[87] (WO2005/065400)  
[30] US (10/748,759) 2003-12-30  
[30] US (10/748,694) 2003-12-30

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[11] **2,579,151**  
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR FACILITATING TRADING OF MULTIPLE TRADEABLE OBJECTS IN AN ELECTRONIC TRADING ENVIRONMENT**

[54] **SYSTEME ET PROCEDE FACILITANT LE COMMERCE DE PLUSIEURS OBJETS COMMERCIALISABLES DANS UN ENVIRONNEMENT DE COMMERCE ELECTRONIQUE**

[72] BURNS, MICHAEL J., US  
[72] WEST, ROBERT A., US  
[72] O'CONNOR, GERALD J., US  
[72] MURPHY, STEPHEN J., US  
[73] TRADING TECHNOLOGIES INTERNATIONAL, INC.,  
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[86] 2005-09-22 (PCT/US2005/033991)  
[87] (WO2006/044103)  
[30] US (10/954,682) 2004-09-30

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[11] **2,616,857**  
[13] C

[51] **Int.Cl. H02S 10/00 (2014.01) H02J 50/10 (2016.01) B60L 8/00 (2006.01) H02J 15/00 (2006.01)**

[25] EN  
[54] **MULTIPLE LAYER SOLAR ENERGY HARVESTING COMPOSITION AND METHOD, SOLAR ENERGY HARVESTING BUCKYBALL, INDUCTIVE COUPLING DEVICE; VEHICLE CHASSIS; ATMOSPHERIC INTAKE HYDROGEN MOTOR; ELECTRICAL ENERGY GENERATING TIRE; AND MECHANICAL ENERGY HARVESTING DEVICE**

[54] **COMPOSITION ET PROCEDE D'ACCUMULATION D'ENERGIE SOLAIRE A MULTIPLES COUCHES, BUCKMINSTERFULLERENE D'ACCUMULATION D'ENERGIE SOLAIRE, DISPOSITIF DE COUPLAGE INDUCTIF ; CHASSIS DE VEHICULE ; MOTEUR HYDROGENE A ADMISSION ATMOSPHERIQUE ; PNEU GENERANT DE L'ENERGIE ELECTRIQUE ; ET DISPOSITIF D'ACCUMULATION D'ENERGIE MECANIQUE**

[72] RETTI, KAHRL, US  
[73] RETTI, KAHRL,  
[85] 2008-01-25  
[86] 2006-08-04 (PCT/US2006/030457)  
[87] (WO2008/010814)  
[30] US (60/705,484) 2005-08-05  
[30] US (60/810,162) 2006-06-02

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[11] **2,630,713**  
[13] C

[51] **Int.Cl. A61F 13/511 (2006.01) A61F 13/513 (2006.01)**

[25] EN  
[54] **SANITARY NAPKIN INCLUDING BODY-FACING PROTRUSIONS FOR PREVENTING SIDE LEAKAGE AND OBLIQUELY ARRANGED EMBOSSED CHANNELS**

[54] **SERVIETTE SANITAIRE AVEC SAILLIES ANTIFUITES ET MOTIFS GAUFRES OBLIQUES SUR LA FACE INTERNE**

[72] MARCELO, ANA MARIA ELENA R., PH  
[72] MEDINA, MARIA SOCORRO F., PH  
[73] EDGEWELL PERSONAL CARE BRANDS, LLC,  
[86] (2630713)  
[87] (2630713)  
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[11] **2,658,188**  
[13] C

[51] **Int.Cl. G09B 5/00 (2006.01) G06F 21/62 (2013.01) G09B 19/00 (2006.01) H04L 12/16 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR PROVIDING SOCIAL ELECTRONIC LEARNING**

[54] **SYSTEMES ET METHODES DE TELE-ENSEIGNEMENT**

[72] BAKER, JOHN ALLAN, CA  
[72] AUGER, JEREMY JASON, CA  
[72] CEPURAN, BRIAN JOHN, CA  
[72] CHAPMAN, KENNETH JAMES, CA  
[73] D2L CORPORATION,  
[86] (2658188)  
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**Brevets canadiens délivrés  
31 mars 2020**

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[11] **2,669,464**  
[13] C

[51] **Int.Cl. H04H 60/29 (2009.01) H04L 12/26 (2006.01) H04N 17/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MONITORING AND CONTROLLING A VIDEO SIGNAL NETWORK**

[54] **METHODE ET SYSTEME DE SURVEILLANCE ET DE CONTROLE D'UN RESEAU DE SIGNAL VIDEO**

[72] PATEL, RAKESH, CA  
[72] PATEL, ALPESH, CA  
[72] NIKOLIC, VOJIN, CA  
[73] EVERTZ MICROSYSTEMS LTD.,  
[86] (2669464)  
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[22] 2009-04-14  
[30] US (61/044,693) 2008-04-14

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[11] **2,715,663**  
[13] C

[51] **Int.Cl. H04B 11/00 (2006.01) H04L 27/144 (2006.01) H04L 27/156 (2006.01)**

[25] EN

[54] **ULTRASOUND DETECTORS**

[54] **DETECTEURS A ULTRASON**

[72] BOOIJ, WILFRED EDWIN, NO  
[72] WELLE, KNUT OSVALD, NO  
[73] SONITOR TECHNOLOGIES AS,  
[85] 2010-02-22  
[86] 2008-08-20 (PCT/GB2008/002824)  
[87] (WO2009/024784)  
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[11] **2,720,976**  
[13] C

[51] **Int.Cl. A61M 16/00 (2006.01) A63B 23/18 (2006.01)**

[25] EN

[54] **BROAD-BAND, LOW FREQUENCY, HIGH-AMPLITUDE, LONG TIME DURATION, OSCILLATING AIRWAY PRESSURE BREATHING APPARATUS AND METHOD UTILIZING BUBBLES**

[54] **APPAREIL RESPIRATOIRE A PRESSION DE VOIES RESPIRATOIRES OSCILLANTE, A LONGUE DUREE DE VIE, A GRANDE AMPLITUDE, A FAIBLE FREQUENCE, A LARGE BANDE ET PROCEDE UTILISANT DES BULLES**

[72] DIBLASI, ROBERT M., US  
[72] ZIGNEGO, JAY C., US  
[72] HANSEN, THOMAS N., US  
[72] SMITH, CHARLES V., US  
[72] RICHARDSON, PETER, US  
[73] SEATTLE CHILDREN'S HOSPITAL D/B/A/ SEATTLE CHILDREN'S RESEARCH INSTITU,  
[85] 2010-10-07  
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[30] US (61/150,670) 2009-02-06  
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[11] **2,722,278**  
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) C07K 14/415 (2006.01) C12N 13/00 (2006.01) C12N 15/00 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS AND COMPOSITIONS FOR OPTICAL STIMULATION OF TARGET CELLS**

[54] **SYSTEMES, PROCEDES ET COMPOSITIONS PERMETTANT LA STIMULATION OPTIQUE DE CELLULES CIBLES**

[72] ZHANG, FENG, US  
[72] DEISSEROTH, KARL, US  
[72] GRADINARU, VIVIANA, US  
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY,  
[85] 2010-10-22  
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[87] (WO2009/131837)  
[30] US (61/047,219) 2008-04-23

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[11] **2,723,186**  
[13] C

[51] **Int.Cl. G08B 13/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CONFIGURING AN ACCESS CONTROL SYSTEM**

[54] **PROCEDE ET APPAREIL DE CONFIGURATION D'UN SYSTEME DE CONTROLE D'ACCES**

[72] KUMAR, ANEESH R., IN  
[72] SUNDARARAMAN, ARUNACHALAM K., IN  
[72] GOVINDARAJ, NITHYANANDHAN G., IN  
[72] VENKATESH, VINAY V., IN  
[73] HONEYWELL INTERNATIONAL, INC.,  
[86] (2723186)  
[87] (2723186)  
[22] 2010-11-30  
[30] US (12/630,082) 2009-12-03

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[11] **2,724,071**  
[13] C

[51] **Int.Cl. C12N 5/0784 (2010.01) C12N 5/078 (2010.01) A61K 35/15 (2015.01) A61K 39/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**

[25] FR

[54] **PLASMACYTOID DENDRITIC CELL LINE USED IN ACTIVE OR ADOPTIVE CELL THERAPY**

[54] **LIGNEE DE CELLULES DENDRITIQUES PLASMACYTOIDES UTILISEE EN THERAPIE CELLULAIRE ACTIVE OU ADOPTIVE**

[72] PLUMAS, JOEL, FR  
[72] ASPORD, CAROLINE, FR  
[72] CHAPEROT-DUBONNET, LAURENCE, FR  
[73] ETABLISSEMENT FRANCAIS DU SANG,  
[85] 2010-11-10  
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[30] FR (08/02659) 2008-05-16

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[11] **2,726,406**  
[13] C

[51] **Int.Cl. C10J 3/14 (2006.01) B65G 53/00 (2006.01) C10J 3/80 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS TO TRANSPORT SOLIDS**  
[54] **PROCEDE ET APPAREIL POUR LE TRANSPORT DE MATIERES SOLIDES**  
[72] MISHRA, SUNIL RAMABHILAKH, US  
[72] THACKER, PRADEEP S., US  
[72] MAZUMDAR, ANINDRA, US  
[72] VENKATRAMAN, VIGNESH, US  
[73] AIR PRODUCTS AND CHEMICALS, INC.,  
[86] (2726406)  
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[22] 2010-12-23  
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[11] **2,735,097**  
[13] C

[51] **Int.Cl. C02F 1/04 (2006.01) E21B 43/24 (2006.01)**  
[25] EN  
[54] **A CONTAMINANT CONTROL SYSTEM IN AN EVAPORATIVE WATER TREATING SYSTEM**  
[54] **SYSTEME D'ELIMINATION DES CONTAMINANTS D'UN SYSTEME DE TRAITEMENT DE L'EAU PAR EVAPORATION**  
[72] JAMES, KENNETH, CA  
[73] PRIVATE EQUITY OAK LP,  
[86] (2735097)  
[87] (2735097)  
[22] 2011-03-29  
[30] US (61/376,301) 2010-08-24

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[11] **2,737,200**  
[13] C

[51] **Int.Cl. C12N 15/10 (2006.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **PROCESSES AND COMPOSITIONS FOR METHYLATION-BASED ENRICHMENT OF FETAL NUCLEIC ACID FROM A MATERNAL SAMPLE USEFUL FOR NON-INVASIVE PRENATAL DIAGNOSES**  
[54] **PROCEDES ET COMPOSITIONS POUR ENRICHISSEMENT BASE SUR LA METHYLATION EN ACIDE NUCLEIQUE FOETAL DANS UN ECHANTILLON MATERNEL, UTILES POUR LES DIAGNOSTICS PRENATALS NON INVASIFS**  
[72] EHRICH, MATHIAS, US  
[72] NYGREN, ANDERS OLOF HERMAN, US  
[73] SEQUENOM CENTER FOR MOLECULAR MEDICINE,  
[73] SEQUENOM, INC.,  
[85] 2011-03-11  
[86] 2009-09-16 (PCT/US2009/057215)  
[87] (WO2010/033639)  
[30] US (61/192,264) 2008-09-16

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[11] **2,739,464**  
[13] C

[51] **Int.Cl. C12N 15/63 (2006.01) A61K 48/00 (2006.01) C12N 15/11 (2006.01) C12N 15/12 (2006.01)**  
[25] EN  
[54] **TREATMENT OF APOLIPOPROTEIN-A1 RELATED DISEASES BY INHIBITION OF NATURAL ANTISENSE TRANSCRIPT TO APOLIPOPROTEIN-A1**  
[54] **TRAITEMENT DE MALADIES LIEES A L'APOLIPOPROTEINE A1 PAR L'INHIBITION D'UN PRODUIT DE LA TRANSCRIPTION ANTISENS NATUREL DE L'APOLIPOPROTEINE A1**  
[72] COLLARD, JOSEPH, US  
[72] KHORKOVA, OLGA, US  
[73] CURNA, INC.,  
[85] 2011-04-01  
[86] 2009-10-02 (PCT/US2009/059457)  
[87] (WO2010/040112)  
[30] US (61/102,681) 2008-10-03  
[30] US (61/152,236) 2009-02-12  
[30] US (61/176,267) 2009-05-07

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[11] **2,740,074**  
[13] C

[51] **Int.Cl. B01J 31/06 (2006.01) B01J 37/00 (2006.01) B01J 38/48 (2006.01)**  
[25] EN  
[54] **POLYMER BOUND SOLID METAL COMPLEX CATALYST FOR HYDROGEN REFORMING FROM FORMIC ACID**  
[54] **CATALYSEUR RENFERMANT UN COMPLEXE METALLIQUE LIE A UN POLYMERE POUR LE REFORMAGE DE L'HYDROGENE A PARTIR D'ACIDE FORMIQUE**  
[72] WIMALARATNE, PRIYANTHA, CA  
[72] LI, HE, CA  
[73] NEAH POWER SYSTEMS, INC.,  
[86] (2740074)  
[87] (2740074)  
[22] 2011-05-10

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[11] **2,742,678**  
[13] C

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01)**  
[25] EN  
[54] **LATERAL FLOW STRIP ASSAY WITH IMMOBILIZED CONJUGATE**  
[54] **DOSAGE A BANDE D'ECOULEMENT LATERAL AVEC UN CONJUGUE IMMOBILISE**  
[72] MEHRA, RAJESH K., US  
[72] ARON, KENNETH P., US  
[73] ABAXIS, INC.,  
[85] 2011-05-03  
[86] 2009-12-03 (PCT/US2009/066648)  
[87] (WO2010/065781)  
[30] US (61/119,612) 2008-12-03

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[11] **2,746,001**  
[13] C

[51] **Int.Cl. C12N 15/63 (2006.01) A61K 31/712 (2006.01) C07H 19/00 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **TREATMENT OF SIRTUIN 1 (SIRT1) RELATED DISEASES BY INHIBITION OF NATURAL ANTISENSE TRANSCRIPT TO SIRTUIN 1**

[54] **TRAITEMENT DE MALADIES LIEES A SIRTUINE 1 (SIRT1) PAR INHIBITION D'UN TRANSCRIT ANTISENS NATUREL DE SIRTUINE 1**

[72] COLLARD, JOSEPH, US  
[72] KHORKOVA SHERMAN, OLGA, US  
[72] COITO, CARLOS, US  
[72] DE LEON, BELINDA, US  
[73] CURNA, INC.,  
[85] 2011-06-03  
[86] 2009-12-02 (PCT/US2009/066445)  
[87] (WO2010/065662)  
[30] US (61/119,965) 2008-12-04  
[30] US (61/157,255) 2009-03-04  
[30] US (61/259,072) 2009-11-06

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[11] **2,746,003**  
[13] C

[51] **Int.Cl. C12N 15/63 (2006.01) A61K 31/712 (2006.01) A61P 9/00 (2006.01) C07H 19/00 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **TREATMENT OF VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) RELATED DISEASES BY INHIBITION OF NATURAL ANTISENSE TRANSCRIPT TO VEGF**

[54] **TRAITEMENT DE MALADIES APPARENTES AU FACTEUR DE CROISSANCE DE L'ENDOTHELIUM VASCULAIRE (VEGF) PAR INHIBITION DE LA TRANSCRIPTION ANTISENS NATURELLE EN VEGF**

[72] COLLARD, JOSEPH, US  
[72] KHORKOVA SHERMAN, OLGA, US  
[73] CURNA, INC.,  
[85] 2011-06-03  
[86] 2009-12-02 (PCT/US2009/066455)  
[87] (WO2010/065671)  
[30] US (61/119,957) 2008-12-04

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[11] **2,750,165**  
[13] C

[51] **Int.Cl. B41C 1/00 (2006.01)**

[25] EN

[54] **DOOR MANUFACTURING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FABRICATION DE PORTE**

[72] MAHER, KENNETH BRELSFORD, US  
[73] FRENCHPORTE IP, L.L.C.,  
[85] 2011-06-28  
[86] 2010-02-24 (PCT/US2010/025228)  
[87] (WO2010/099197)  
[30] US (61/202,438) 2009-02-27  
[30] US (12/560,854) 2009-09-16

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[11] **2,751,915**  
[13] C

[51] **Int.Cl. H02M 1/00 (2007.10) H02M 3/00 (2006.01) H02M 3/155 (2006.01)**

[25] EN

[54] **METHODS AND CIRCUITS FOR IMPROVING THE DYNAMIC RESPONSE OF A DC-DC CONVERTER**

[54] **METHODES ET CIRCUITS POUR AMELIORER LA REPONSE D'UN CONVERTISSEUR CC-CC**

[72] JIA, LIANG, CA  
[72] LIU, YAN-FEI, CA  
[73] GANPOWER SEMICONDUCTOR (FOSHAN) LTD.,  
[86] (2751915)  
[87] (2751915)  
[22] 2011-09-09

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[11] **2,753,834**  
[13] C

[51] **Int.Cl. G06Q 40/00 (2012.01)**

[25] EN

[54] **COLLATERAL MANAGEMENT SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE GESTION DES GARANTIES**

[72] MATHIESON, KELLY, US  
[72] RIVETT, JOHN, GB  
[72] MANGAN, EMMA, GB  
[73] JPMORGAN CHASE BANK, N.A.,  
[85] 2011-08-26  
[86] 2010-03-02 (PCT/US2010/025903)  
[87] (WO2010/101906)  
[30] US (61/157,962) 2009-03-06

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[11] **2,756,292**  
[13] C

[51] **Int.Cl. C08J 9/14 (2006.01)**

[25] EN

[54] **MIXTURES CONTAINING 1,1,1,4,4,4-HEXAFLUOROBUTENE AND 1-CHLORO-3,3,3-TRIFLUOROPROPENE**

[54] **MELANGES RENFERMANT DU 1,1,1,4,4,4-HEXAFLUOROBUTENE ET DU 1-CHLORO-3,3,3-TRIFLUOROPROPENE**

[72] BOGDAN, MARY C., US  
[72] GITTERE, CLIFFORD P., US  
[72] BOWMAN, JAMES M., US  
[72] LING, YIU KEUNG, US  
[72] WILLIAMS, DAVID J., US  
[73] HONEYWELL INTERNATIONAL INC.,  
[86] (2756292)  
[87] (2756292)  
[22] 2011-10-25  
[30] US (61/407,708) 2010-10-28  
[30] US (13/276,369) 2011-10-19

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[11] **2,763,284**  
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/30 (2014.01) A63F 3/06 (2006.01)**

[25] EN

[54] **LOTTERIZED ONLINE GAMING WITH MULTIPLE VIRTUAL CURRENCIES**

[54] **JEU EN LIGNE A ELEMENTS DE TYPE LOTERIE A MULTIPLES DEVICES VIRTUELLES**

[72] ADAMS, CAMERON, CA  
[72] RASSIAS, GEORGE, CA  
[72] ROY, ERIC, CA  
[72] LAM, JASON, CA  
[72] SCHULZKE, KEN, CA  
[72] LUSSIER, LOUIS-PHILIPPE, CA  
[72] ROY, SERGE, CA  
[72] HEINTZ, TODD, CA  
[73] INTERPROVINCIAL LOTTERY CORPORATION,  
[86] (2763284)  
[87] (2763284)  
[22] 2012-01-09  
[30] US (61/492,644) 2011-06-02  
[30] US (61/492,702) 2011-06-02  
[30] US (61/430,889) 2011-01-07

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[11] **2,763,541**  
[13] C

[51] **Int.Cl. A61K 31/403 (2006.01) A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 9/50 (2006.01)**

[25] FR

[54] **METHOD FOR PREPARING HOLLOW PARTICLES, AND USES THEREOF**

[54] **PROCEDE DE PREPARATION DE PARTICULES CREUSES ET LEURS APPLICATIONS**

[72] CASTAN, CATHERINE, FR

[72] CAISSE, PHILIPPE, FR

[73] FLAMEL IRELAND LIMITED,

[85] 2011-11-25

[86] 2010-05-28 (PCT/FR2010/051039)

[87] (WO2010/136740)

[30] FR (09/53607) 2009-05-29

[30] US (61/182,533) 2009-05-29

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[11] **2,768,585**  
[13] C

[51] **Int.Cl. A62B 35/00 (2006.01) A63B 9/00 (2006.01) A63B 27/00 (2006.01)**

[25] EN

[54] **FALL PROTECTION DEVICE FOR USE IN CLIMBING POLES**

[54] **DISPOSITIF DE PROTECTION CONTRE LES CHUTES CONCU POUR GRIMPER A UN POTEAU**

[72] PATEL, PARUL, US

[72] SEMAN, MICHAEL R., US

[72] ANDERSON, PRESTON L., US

[73] HONEYWELL INTERNATIONAL INC.,

[86] (2768585)

[87] (2768585)

[22] 2012-02-14

[30] US (61/443,068) 2011-02-15

[30] US (13/372,006) 2012-02-13

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[11] **2,770,275**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/689 (2018.01) C07H 21/04 (2006.01)**

[25] EN

[54] **AN ASSAY FOR DETERMINING A MOLECULAR RISK ASSESSMENT OF A COMPLEX POLYMICROBIAL SAMPLE SUSPECTED TO CONTAIN AN EHEC**

[54] **DOSAGE POUR REALISER UNE EVALUATION DE RISQUE MOLECULAIRE D'UN ECHANTILLON POLYMICROBIEN COMPLEXE SUSPECTE DE CONTENIR UN ECEH**

[72] FACH, PATRICK, FR

[72] BUGAREL, MARIE, FR

[72] BEUTIN, LOTHAR, DE

[73] AGENCE NATIONALE DE SECURITE SANITAIRE DE L'ALIMENTATION, DE L'ENVIRONNEMENT ET DU TRAVAIL,

[85] 2012-02-03

[86] 2010-08-11 (PCT/IB2010/053631)

[87] (WO2011/018762)

[30] EP (09290621.3) 2009-08-11

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[11] **2,771,287**  
[13] C

[51] **Int.Cl. C09K 11/02 (2006.01) G09F 13/20 (2006.01)**

[25] EN

[54] **PHOTOLUMINESCENT DEVICE**

[54] **DISPOSITIF PHOTOLUMINESCENT**

[72] MARTIN, RICHARD JAMES, US

[72] BENDER, GREGORY LOUIS, US

[72] BRIGNALL, THOMAS WELLS, JR., US

[72] JONES, HERBERT GEORGE, US

[73] AFTERGLOW, L.L.C.,

[86] (2771287)

[87] (2771287)

[22] 2012-03-13

[30] US (61/452,326) 2011-03-14

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[11] **2,771,741**  
[13] C

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/00 (2006.01) E21B 33/10 (2006.01) E21B 43/26 (2006.01) F16K 3/24 (2006.01) F16K 31/46 (2006.01)**

[25] EN

[54] **DOWNHOLE SYSTEM AND APPARATUS INCORPORATING VALVE ASSEMBLY WITH RESILIENT DEFORMABLE ENGAGING ELEMENT**

[54] **SYSTEME DE FOND DE TROU ET APPAREIL COMPORTANT UN ASSEMBLAGE SOUPE DE VAPEUR MUNI D'UN ELEMENT D'ENTRAINEMENT SOUPLE ET DEFORMABLE**

[72] HOFMAN, RAYMOND, US

[72] FITZHUGH, BRYAN, US

[72] MUSCROFT, WILLIAM SLOANE, US

[73] PEAK COMPLETION TECHNOLOGIES, INC.,

[86] (2771741)

[87] (2771741)

[22] 2012-03-16

[30] US (61/453,281) 2011-03-16

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[11] **2,775,314**  
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01) H03M 99/00 (2006.01)**

[25] EN

[54] **SIGNAL PROCESSING APPARATUS AND METHOD, AND PROGRAM**

[54] **APPAREIL ET PROCEDE DE TRAITEMENT DE SIGNAL, ET PROGRAMME ASSOCIE**

[72] YAMAMOTO, YUKI, JP

[72] CHINEN, TORU, JP

[72] HATANAKA, MITSUYUKI, JP

[73] SONY CORPORATION,

[85] 2012-03-23

[86] 2011-07-27 (PCT/JP2011/004260)

[87] (WO2012/017621)

[30] JP (2010-174758) 2010-08-03

**Brevets canadiens délivrés  
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[11] **2,778,079**  
[13] C

[51] **Int.Cl. A61K 8/96 (2006.01) A46B 11/00 (2006.01) A61K 8/02 (2006.01) A61Q 11/00 (2006.01) B65D 35/00 (2006.01) B65D 35/22 (2006.01) B65D 35/28 (2006.01) B65D 35/38 (2006.01) B65D 47/06 (2006.01)**

[25] EN  
[54] **TOOTHPASTE DELIVERY SYSTEM**  
[54] **SYSTEME DE DISTRIBUTION DE DENTIFRICE**

[72] PETERSEN, CHRISTINA M., US  
[72] FREEMAN, MARCY E., US  
[73] SUNSTAR AMERICAS, INC.,  
[86] (2778079)  
[87] (2778079)  
[22] 2012-05-24  
[30] US (61/489,596) 2011-05-24

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[11] **2,779,479**  
[13] C

[51] **Int.Cl. G01N 33/66 (2006.01) A61B 5/145 (2006.01)**

[25] EN  
[54] **APPARATUS AND METHODS FOR TAKING BLOOD GLUCOSE MEASUREMENTS AND RECOMMENDING INSULIN DOSES**  
[54] **APPAREIL ET PROCÉDES POUR PRENDRE DES MESURES DE GLYCEMIE ET RECOMMANDER DES DOSES D'INSULINE**

[72] BIELAWA, HOLLY, US  
[72] DEMETRIS, CARISSA, US  
[72] GOEBEL, JAMES, US  
[72] MORTON, CAROL TREAT, US  
[72] POMORSKI, MICHELLE, US  
[72] PURICELLI, THOMAS, US  
[72] RODGERS, JIM, US  
[72] BASHAN, ERAN, US  
[72] ISRAEL, HODISH, US  
[72] HINDINGER, JOHN R., US  
[73] HYGIEIA INC.,  
[85] 2012-04-30  
[86] 2010-11-03 (PCT/US2010/055246)  
[87] (WO2011/056839)  
[30] US (61/257,886) 2009-11-04

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[11] **2,780,976**  
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01)**

[25] EN  
[54] **DETECTION OF INTRAAMNIOTIC INFECTION**  
[54] **DETECTION D'UNE INFECTION INTRA-AMNIOTIQUE**

[72] LADERMAN, ELIZABETH INMAN, US  
[72] GROVE, THOMAS H., US  
[73] HOLOGIC, INC.,  
[85] 2012-05-15  
[86] 2010-11-22 (PCT/US2010/003052)  
[87] (WO2011/065976)  
[30] US (61/264,633) 2009-11-25  
[30] US (61/362,192) 2010-07-07

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[11] **2,783,347**  
[13] C

[51] **Int.Cl. B23K 23/00 (2006.01) B22D 19/04 (2006.01) B23K 37/00 (2006.01)**

[25] EN  
[54] **ALTERNATIVE IGNITION SOURCE SYSTEM FOR AN EXOTHERMIC REACTION MOLD DEVICE**  
[54] **SYSTEME DE SOURCE D'ALLUMAGE ALTERNATIVE POUR UN DISPOSITIF DE MOULE A REACTION EXOTHERMIQUE**

[72] LOFTON, DAVID LEWIS, US  
[73] HUBBELL INCORPORATED,  
[85] 2012-06-06  
[86] 2010-06-25 (PCT/US2010/039895)  
[87] (WO2011/071561)  
[30] US (12/632,417) 2009-12-07

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[11] **2,785,161**  
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 1/19 (2006.01) C12N 15/53 (2006.01) C12N 15/79 (2006.01) C12N 15/81 (2006.01) C12P 21/02 (2006.01) C12N 9/04 (2006.01)**

[25] EN  
[54] **MUTANT AOX1 PROMOTERS**  
[54] **PROMOTEURS DE AOX1 MUTANTS**

[72] HARTNER, FRANZ, AT  
[72] GLIEDER, ANTON, AT  
[73] BOEHRINGER INGELHEIM RCV GMBH & CO KG,  
[73] VALIDOGEN GMBH,  
[86] (2785161)  
[87] (2785161)  
[22] 2006-02-23  
[62] 2,598,514  
[30] AT (A 304/2005) 2005-02-23

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[11] **2,786,012**  
[13] C

[51] **Int.Cl. H01M 4/133 (2010.01) H01M 10/052 (2010.01)**

[25] EN  
[54] **ELECTRODE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY**  
[54] **ELECTRODE POUR PILE SECONDAIRE AU LITHIUM ET PILE SECONDAIRE AU LITHIUM**

[72] SAWAI, TAKEHIKO, JP  
[72] SAITO, SHINJI, JP  
[72] URAO, KAZUNORI, JP  
[72] KAWASAKI, TAKASHI, JP  
[73] SEI CORPORATION,  
[73] DENKI KAGAKU KOGYO KABUSHIKI KAISHA,  
[85] 2012-08-17  
[86] 2011-07-07 (PCT/JP2011/065590)  
[87] (WO2012/140790)  
[30] JP (2011-089544) 2011-04-13

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[11] **2,787,412**  
[13] C

[51] **Int.Cl. G06F 1/26 (2006.01) G06F 1/28 (2006.01)**

[25] EN  
[54] **METHOD AND SYSTEM FOR PROGRAMMABLE POWER STATE CHANGE IN A SYSTEM-ON-A-CHIP DEVICE**  
[54] **METHODE ET SYSTEME DE CHANGEMENT D'ETAT D'ALIMENTATION PROGRAMMABLE DANS UN DISPOSITIF DE PUCE-SYSTEME**

[72] MADDIGAN, STEVEN WILLIAM, CA  
[73] PSION INC.,  
[86] (2787412)  
[87] (2787412)  
[22] 2012-08-21  
[30] US (13/276,596) 2011-10-19

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[11] **2,788,736**  
[13] C

[51] **Int.Cl. A61K 49/00 (2006.01) A61K 31/765 (2006.01)**  
[25] EN  
[54] **POLYANIONIC MULTIVALENT MACROMOLECULES FOR INTRACELLULAR TARGETING OF PROLIFERATION AND PROTEIN SYNTHESIS**  
[54] **MACROMOLECULES MULTIVALENTES POLYANIONIQUES POUR LE CIBLAGE INTRACELLULAIRE DE LA PROLIFERATION ET DE LA SYNTHESE DE PROTEINES**  
[72] LICHA, KAI, DE  
[72] SCHIRNER, MICHAEL, DE  
[72] WELKER, PIA, DE  
[72] HAAG, RAINER, DE  
[72] WEINHART, MARIE, DE  
[72] PAULUS, FLORIAN, DE  
[73] NANOPET PHARMA GMBH,  
[85] 2012-07-31  
[86] 2011-01-31 (PCT/EP2011/000425)  
[87] (WO2011/095311)  
[30] EP (10001104.8) 2010-02-03  
[30] EP (10001655.9) 2010-02-18  
[30] EP (10002121.1) 2010-03-02

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[11] **2,793,245**  
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01) H04L 12/26 (2006.01)**  
[25] EN  
[54] **DYNAMIC RESOURCE ALLOCATION IN RECOVER TO CLOUD SANDBOX**  
[54] **ALLOCATION DE RESSOURCE DYNAMIQUE POUR BAC A SABLE DE RECUPERATION SUR UN NUAGE**  
[72] REDDY, CHANDRA, US  
[72] LI, ENYOU, US  
[73] SUNGARD AVAILABILITY SERVICES, LP,  
[86] (2793245)  
[87] (2793245)  
[22] 2012-10-25  
[30] US (13/283,173) 2011-10-27

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[11] **2,793,860**  
[13] C

[51] **Int.Cl. A01J 5/01 (2006.01)**  
[25] EN  
[54] **METHOD OF DETECTING A FLOW, DETECTION DEVICE, AUTOMATIC MILKING DEVICE AND COMPUTER PROGRAM**  
[54] **PROCEDE DE DETECTION D'UN ECOULEMENT, DISPOSITIF DE DETECTION, DISPOSITIF DE TRAITE AUTOMATIQUE ET PROGRAMME D'ORDINATEUR**  
[72] DE GROOT, PIETER GERLOF, NL  
[73] LELY PATENT N.V.,  
[85] 2012-09-19  
[86] 2011-03-03 (PCT/NL2011/000014)  
[87] (WO2011/122938)  
[30] NL (1037835) 2010-03-29

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[11] **2,794,174**  
[13] C

[51] **Int.Cl. C25B 11/02 (2006.01) C25B 1/06 (2006.01) C25B 9/02 (2006.01) C25B 9/04 (2006.01) F02M 25/12 (2006.01)**  
[25] EN  
[54] **HYDROGEN AND OXYGEN GENERATOR**  
[54] **GENERATEUR D'HYDROGENE ET D'OXYGENE**  
[72] PAVLOVIC, DEJAN, CA  
[72] PAVLOVIC, NENAD, CA  
[73] PAVLOVIC, DEJAN,  
[73] PAVLOVIC, NENAD,  
[86] (2794174)  
[87] (2794174)  
[22] 2012-10-31  
[30] US (61/628,411) 2011-10-31

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[11] **2,794,803**  
[13] C

[51] **Int.Cl. B29C 49/28 (2006.01) B29C 49/02 (2006.01) B29C 55/28 (2006.01) B29D 22/00 (2006.01)**  
[25] EN  
[54] **MACHINE FOR THE BLOWING OR STRETCH BLOW MOULDING OF BOTTLES IN POLYMERIC MATERIAL**  
[54] **MACHINE POUR LE SOUFFLAGE OU LE SOUFFLAGE-ETIRAGE DE BOUTEILLES EN MATIERE POLYMERE**  
[72] ZACCHE', VANNI, IT  
[73] SMI S.P.A.,  
[86] (2794803)  
[87] (2794803)  
[22] 2012-11-06  
[30] IT (MI2011A002033) 2011-11-09

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[11] **2,795,495**  
[13] C

[51] **Int.Cl. A61J 1/14 (2006.01) A61M 39/20 (2006.01)**  
[25] EN  
[54] **CONNECTOR SYSTEM FOR MEDICAL FLUID ADMINISTRATION**  
[54] **SYSTEME DE RACCORDEMENT POUR ADMINISTRATION DE FLUIDE MEDICAL**  
[72] PAZIK, KAROL, GB  
[73] THE ENTERPRISE CRADLE LIMITED,  
[85] 2012-10-04  
[86] 2011-04-07 (PCT/GB2011/000544)  
[87] (WO2011/124891)  
[30] GB (1005812.1) 2010-04-07

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[11] **2,796,259**  
[13] C

[51] **Int.Cl. C09K 3/10 (2006.01) C08J 3/24 (2006.01) C08K 5/3415 (2006.01) C08L 81/04 (2006.01)**

[25] FR

[54] **LIQUID COMPOUND ON-DEMAND CROSS-LINKED SEALANT, PREPARATION PROCESS AND APPLICATIONS THEREOF**

[54] **COMPOSITION LIQUIDE D'ETANCHEITE RETICULABLE A LA DEMANDE, SON PROCEDE DE PREPARATION ET SES APPLICATIONS**

[72] LABORBE, ELISE, FR  
[72] LE ROSSIGNOL, BENOIT, FR  
[72] FROIDEVAUX, VINCENT, FR  
[72] BOUTEVIN, BERNARD, FR  
[72] AUVERGNE, REMI, FR  
[73] SEALANTS EUROPE SAS,  
[86] (2796259)  
[87] (2796259)  
[22] 2012-11-13  
[30] FR (11 60 969) 2011-11-30

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[11] **2,796,339**  
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01)**

[25] EN

[54] **AMYLOID-BETA BINDING PROTEINS**

[54] **PROTEINES DE LIAISON A LA BETA AMYLOIDE**

[72] BARGHORN, STEFAN, DE  
[72] HILLEN, HEINZ, DE  
[72] STRIEBINGER, ANDREAS, DE  
[72] GIAISI, SIMONE, DE  
[72] EBERT, ULRICH, DE  
[72] BENATUIL, LORENZO, US  
[73] ABBVIE INC.,  
[73] ABBVIE DEUTSCHLAND GMBH & CO KG,  
[85] 2012-10-12  
[86] 2011-04-13 (PCT/US2011/032269)  
[87] (WO2011/130377)  
[30] US (61/324,386) 2010-04-15  
[30] US (61/373,825) 2010-08-14  
[30] US (61/446,624) 2011-02-25

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[11] **2,796,484**  
[13] C

[51] **Int.Cl. F04C 2/344 (2006.01) F04C 18/344 (2006.01) F04C 27/00 (2006.01)**

[25] EN

[54] **OVAL CHAMBER CIRCULAR RACEWAY PUMP**

[54] **POMPE A CHEMIN DE ROULEMENT CIRCULAIRE A CAVITE OVALE**

[72] PATTERSON, DAN, CA  
[72] MASSE, ANDREW, CA  
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[72] JANJIC, NEBOJSA, US  
[72] CARTER, JEFFREY D., US  
[72] FOWLER, CATHERINE, US  
[73] SOMALOGIC, INC.,  
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[54] **ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES, AND METHODS OF USING SAME FOR INCREASING PLANT YIELD AND/OR AGRICULTURAL CHARACTERISTICS**

[54] **POLYNUCLEOTIDES ET POLYPEPTIDES ISOLEES ET PROCEDES D'UTILISATION DE CEUX-CI POUR L'AUGMENTATION DU RENDEMENT VEGETAL ET/OU DES CARACTERISTIQUES AGRICOLES**

[72] EMMANUEL, EYAL, IL  
[72] KARCHI, HAGAI, IL  
[73] EVOGENE LTD.,  
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[54] **GLP-1 RECEPTOR AGONIST AND DPP-4 INHIBITOR COMBINATION THERAPY**

[54] **THERAPIE DE COMBINAISON DE L'AGONISTE DU RECEPTEUR GLP-1 ET DE L'INHIBITEUR DPP-4**

[72] KLEIN, THOMAS, DE  
[72] GREMPLE, ROLF, DE  
[72] MARK, MICHAEL, DE  
[73] BOEHRINGER INGELHEIM INTERNATIONAL GMBH,  
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[54] **PIED DESTINE A UN MEUBLE EN PLASTIQUE MOULE**  
[72] ADAMS, WILLIAM E., IV, US  
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[73] ADAMS MFG. CORP.,  
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[54] **PROCEDES D'INSPECTION DE DEGAZAGE DE CUVE**  
[72] FELTS, JOHN T., US  
[72] FISK, THOMAS E., US  
[72] FERGUSON, JOHN, US  
[72] FREEDMAN, JONATHAN R., US  
[72] PANGBORN, ROBERT J., US  
[72] SAGONA, PETER J., US  
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[54] **METHODS AND APPARATUSES FACILITATING SYNCHRONIZATION OF SECURITY CONFIGURATIONS**  
[54] **PROCEDES ET APPAREILS FACILITANT LA SYNCHRONISATION DE CONFIGURATIONS DE SECURITE**  
[72] PATIL, KIRAN KISHANRAO, US  
[72] SANKA, SURESH, US  
[72] HSU, LIANGCHI, US  
[72] GHOLMIEH, AZIZ, US  
[73] QUALCOMM INCORPORATED,  
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[54] **FORMULATION TOPIQUE POUR INHIBITEUR DE JAK**  
[72] PARIKH, BHAVNISH, US  
[72] SHAH, BHAVESH, US  
[72] YELESWARAM, KRISHNASWAMY, US  
[73] INCYTE HOLDINGS CORPORATION,  
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[54] **SYSTEME DE JOINT CLASSE RESISTANT AU FEU**  
[72] PILZ, DON A., US  
[72] POLIQUIN, RAYMOND E., US  
[72] PORTER, THOMAS, US  
[73] CALIFORNIA EXPANDED METAL PRODUCTS COMPANY,  
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[54] **A PACKET RETRANSMISSION METHOD IN A WIRELESS TRANSMITTER**  
[54] **PROCEDE DE RETRANSMISSION DE PAQUETS DANS UN EMETTEUR-RECEPTEUR SANS FIL**  
[72] VERWAEST, FREDERIK, BE  
[73] INTERDIGITAL CE PATENT HOLDINGS, SAS,  
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[54] **VEHICLE NOISE  
DETECTABILITY CALCULATOR**  
[54] **CALCULATEUR DE  
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[72] FAIRBROTHER, BLAINE, CA  
[72] GIESBRECHT, JARED, CA  
[73] HER MAJESTY THE QUEEN IN  
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[25] EN  
[54] **MAGNETIC TORQUE SENSOR  
FOR TRANSMISSION  
CONVERTER DRIVE PLATE**  
[54] **DETECTEUR DE COUPLE  
MAGNETIQUE POUR PLAQUE  
D'ENTRAINEMENT DE  
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[72] LEE, SEONG-JAE, US  
[73] METHODE ELECTRONICS, INC.,  
[86] (2804701)  
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[25] EN  
[54] **METHOD AND APPARATUS FOR  
REMOVING AND PREVENTING  
LENS SURFACE  
CONTAMINATION ON A  
VEHICLE LENS**  
[54] **PROCEDE ET APPAREIL POUR  
ELIMINER ET PREVENIR LA  
CONTAMINATION DE LA  
SURFACE DE LA LENTILLE  
D'UNE LENTILLE DE VEHICULE**  
[72] FIELD, MICHAEL, US  
[72] MCCABE, PAUL P., US  
[73] THE RAYMOND CORPORATION,  
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[25] EN  
[54] **SYSTEM AND METHOD FOR  
PROVIDING TIME TO LEAVE  
NOTIFICATIONS**  
[54] **SYSTEME ET METHODE DE  
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DEPART**  
[72] MORI, ROBERT FELICE, US  
[72] YURKONIS, PHILIP GABRIEL, US  
[72] FUKUMOTO, SCOTT, US  
[73] BLACKBERRY LIMITED,  
[86] (2806902)  
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[54] **MULTI-LAYERED SHINGLE**  
[54] **BARDEAU MULTICOUCHE**  
[72] RAY, BRIAN R., US  
[72] GRUBKA, LAWRENCE J., US  
[73] OWENS CORNING INTELLECTUAL  
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[86] (2808766)  
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[25] EN  
[54] **METHODS FOR ENRICHING  
PLURIPOTENT STEM CELL-  
DERIVED CARDIOMYOCYTE  
PROGENITOR CELLS AND  
CARDIOMYOCYTE CELLS  
BASED ON SIRPA EXPRESSION**  
[54] **PROCEDE D'ENRICHISSEMENT  
DE CELLULES PROGENITRICES  
DE CARDIOMYOCITES  
DERIVEES DE CELLULES  
SOUCHEES PLURIPOTENTES ET  
CELLULES CARDIOMYOCITES  
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SIRPA**  
[72] KELLER, GORDON, CA  
[72] CRAFT, APRIL M., CA  
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[54] **ANODE POUR LE DEGAGEMENT  
ELECTROLYTIQUE DE CHLORE**  
[72] URGEGHE, CHRISTIAN, IT  
[72] PEZZONI, CHIARA, IT  
[72] ANTOZZI, ANTONIO LORENZO, IT  
[73] INDUSTRIE DE NORA S.P.A.,  
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[54] **AZIDO NUCLEOSIDES ET ANALOGUES NUCLEOTIDIQUES**

[72] BEIGELMAN, LEONID, US

[72] DEVAL, JEROME, US

[72] SMITH, DAVID BERNARD, US

[72] WANG, GUANGYI, US

[72] RAJWANSHI, VIVEK KUMAR, US

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[54] **PORTABLE BARRIER INSTALLATION SYSTEM AND RELEASE MECHANISM**

[54] **SYSTEME D'INSTALLATION DE BARRIERE PORTATIVE ET MECANISME DE LIBERATION**

[72] STAMPS, TIMOTHY CHARLES, US

[72] DANIEL, BARTON WADE, US

[73] LANDMARK EARTH SOLUTIONS, INC.,

[86] (2813273)

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[54] **IMPROVED SCAVENGE GEAR PUMP**

[54] **POMPE A ENGRENAGES DE RECUPERATION AMELIOREE**

[72] ALECU, DANIEL, CA

[72] GAUVIN, PIERRE, CA

[72] DOMINGO, RITCHIE, CA

[73] PRATT & WHITNEY CANADA CORP.,

[86] (2813856)

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[51] **Int.Cl. G02B 27/02 (2006.01) H04N 1/00 (2006.01)**

[25] EN

[54] **ELECTRONIC MAGNIFICATION DEVICE**

[54] **LOUPE ELECTRONIQUE**

[72] GOLDENBERG, MICHAEL, US

[72] DAVIS, BRADLEY S., US

[72] HAMILTON, LEE, US

[72] RODRIGUEZ, CARLOS, US

[72] MURPHY, PATRICK, US

[72] TUNKIS, WALDEMAR, US

[73] FREEDOM SCIENTIFIC, INC.,

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[54] **DOUBLE HUNG OPERATION HARDWARE**

[54] **QUINCAILLERIE DE FONCTIONNEMENT DE FENETRE A GUILLOTINE**

[72] DEBOER, NATHAN H., US

[72] SALENTINE, ERIC, US

[72] HOLLERMANN, ROSS MICHAEL, US

[73] MARVIN LUMBER AND CEDAR COMPANY, D/B/A/ MARVIN WINDOWS AND DOORS,

[86] (2814416)

[87] (2814416)

[22] 2013-04-30

[30] US (61/640,525) 2012-04-30

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[54] **REFLECTORS AND REFLECTOR ORIENTATION FEATURE TO PREVENT NON-QUALIFIED TRIM**

[54] **REFLECTEURS ET CARACTERISTIQUE D'ORIENTATION DES REFLECTEURS POUR EVITER TOUTE GARNITURE NON ADMISSIBLE**

[72] KATHAWATE, JYOTI GURURAJ, US

[72] THOMPSON, EVANS EDWARD, III, US

[72] GREEN, RUSSELL BRYANT, US

[72] HARPENAU, KEVIN ROY, US

[73] EATON INTELLIGENT POWER LIMITED,

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[54] **TECHNIQUES DE LEVE SISMIQUE AVEC ZONES D'ECLAIRAGE IDENTIFIABLES A PARTIR DE REFLEXIONS PRIMAIRES ET D'ORDRE PLUS ELEVE**  
[72] WIDMAIER, MARTIN, NO  
[72] SOLLNER, WALTER, NO  
[72] HEGNA, STIAN, NO  
[72] BISHOP, STEVE, GB  
[73] PGS GEOPHYSICAL AS,  
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[72] HUYBRECKX, MICHEL JOZEF RENE LAMBERT, NL  
[73] KOTI ONROEREND GOED B.V.,  
[86] (2815740)  
[87] (2815740)  
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[54] **FILTRE A AIR AVEC BOITIER ET FENTE DECALEE ET METHODE DE FABRICATION**  
[72] LISE, JONATHAN M., US  
[72] SANOCKI, STEPHEN M., US  
[72] GLASS, DENNIS M., US  
[73] 3M INNOVATIVE PROPERTIES COMPANY,  
[86] (2816256)  
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[25] EN  
[54] **CBP/CATENIN ANTAGONISTS FOR ENHANCING ASYMMETRIC DIVISION OF SOMATIC STEM CELLS**  
[54] **ANTAGONISTES DU SYSTEME CBP/CATENINE DESTINES A PROMOUVOIR LA DIVISION ASYMETRIQUE DES CELLULES SOUCHES SOMATIQUES**  
[72] KAHN, MICHAEL, US  
[72] TEO, JIA-LING, US  
[72] MCMILLAN, MICHAEL, US  
[72] ZHAO, YI, US  
[72] WU, YONGFENG, US  
[73] UNIVERSITY OF SOUTHERN CALIFORNIA,  
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[86] 2011-11-16 (PCT/US2011/061062)  
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[25] EN  
[54] **PLASMODIOPHORA BRASSICAE-RESISTANT BRASSICA PLANT, SEEDS AND PLANT PARTS THEREOF AND METHODS FOR OBTAINING THE SAME**  
[54] **PLANTE, GRAINES ET PARTIES VEGETALES DE BRASSICA RESISTANTES A PLASMODIOPHORA BRASSICAE, ET LEURS PROCEDES D'OBTENTION**  
[72] KROON, LAURENTIUS PETRUS NICOLAAS MARTINUS, NL  
[72] SCHRIJVER, ALBERTUS JOHANNES MARIA, NL  
[72] VEENSTRA, ROELOF MARINUS, NL  
[72] BIERSTEKER, KLAAS, NL  
[73] BEJO ZADEN B.V.,  
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[86] 2011-11-28 (PCT/EP2011/071190)  
[87] (WO2012/072584)  
[30] NL (2005777) 2010-11-29

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[13] C

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2019.01) A61P 35/00 (2006.01) C07K 7/02 (2006.01) C40B 30/04 (2006.01) C40B 40/04 (2006.01) C40B 50/14 (2006.01) G01N 33/53 (2006.01)**  
[25] EN  
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[54] **BIBLIOTHEQUES CYCLIQUES HYBRIDES ET ECRANS DE CES BIBLIOTHEQUES**  
[72] LIU, JUN O., US  
[72] GUO, ZUFENG, US  
[72] BHAT, SHRIDHAR, US  
[72] WANG, JINGXIN, US  
[72] DAS, MANISHA, US  
[72] LI, WEI, US  
[73] THE JOHNS HOPKINS UNIVERSITY,  
[85] 2013-05-30  
[86] 2011-11-29 (PCT/US2011/062471)  
[87] (WO2012/075048)  
[30] US (61/418,038) 2010-11-30

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[11] **2,819,505**  
[13] C

[51] **Int.Cl. G02B 23/18 (2006.01) G02B 3/14 (2006.01)**  
[25] EN  
[54] **VARIABLE BINOCULAR LOUPE UTILIZING FLUID FILLED LENS TECHNOLOGY**  
[54] **LOUPE BINOCULAIRE VARIABLE UTILISANT UNE TECHNOLOGIE DE LENTILLES REMPLIES DE FLUIDE**  
[72] SCHNELL, URBAN, CH  
[72] SAUVET, JULIEN, CH  
[72] EGAN, WILLIAM, US  
[73] ADLENS BEACON, INC.,  
[85] 2013-05-30  
[86] 2011-12-01 (PCT/US2011/062768)  
[87] (WO2012/075218)  
[30] US (61/418,440) 2010-12-01

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[11] **2,819,608**  
[13] C

[51] **Int.Cl. C07K 7/64 (2006.01) A61K 38/13 (2006.01) A61P 31/14 (2006.01) A61P 31/18 (2006.01)**  
[25] EN  
[54] **NOVEL CYCLOSPORIN DERIVATIVES FOR THE TREATMENT AND PREVENTION OF A VIRAL INFECTION**  
[54] **NOUVEAUX DERIVES DE CICLOSPORINE DESTINES AU TRAITEMENT ET A LA PREVENTION D'UNE INFECTION VIRALE**  
[72] SU, ZHUANG, US  
[72] LONG, ZHENGYU, US  
[72] HUANG, ZHENNIAN, US  
[72] YANG, SUIZHOU, US  
[73] S&T GLOBAL INC.,  
[85] 2013-05-31  
[86] 2011-12-05 (PCT/US2011/063295)  
[87] (WO2012/075494)  
[30] US (61/419,326) 2010-12-03

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[11] **2,820,715**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/686 (2018.01) C12P 19/34 (2006.01)**  
[25] EN  
[54] **UNIVERSAL REFERENCE DYE FOR QUANTITATIVE AMPLIFICATION**  
[54] **COLORANT UNIVERSEL DE REFERENCE POUR AMPLIFICATION QUANTITATIVE**  
[72] WANG, YAN, US  
[73] BIO-RAD LABORATORIES, INC.,  
[85] 2013-06-06  
[86] 2011-12-16 (PCT/US2011/065617)  
[87] (WO2012/083235)  
[30] US (61/423,932) 2010-12-16  
[30] US (61/435,209) 2011-01-21  
[30] US (61/508,453) 2011-07-15

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[11] **2,821,198**  
[13] C

[51] **Int.Cl. H04W 52/18 (2009.01) H04W 72/10 (2009.01) H04W 88/08 (2009.01)**  
[25] EN  
[54] **WIRELESS OPERATION IN VERY HIGH DENSITY ENVIRONMENTS**  
[54] **FONCTIONNEMENT SANS FIL DANS DES ENVIRONNEMENTS DE TRES HAUTE DENSITE**  
[72] LO, WAICHI, CA  
[72] RAYMENT, STEPHEN, CA  
[72] RUSSELL, MICHAEL, CA  
[72] SMITH, ROLAND, CA  
[72] WILLIAMS, CHRIS, CA  
[73] ERICSSON WIFI INC.,  
[85] 2013-06-11  
[86] 2010-12-30 (PCT/CA2010/002065)  
[87] (WO2012/088579)

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[11] **2,821,459**  
[13] C

[51] **Int.Cl. B05C 17/015 (2006.01) A61B 17/00 (2006.01)**  
[25] EN  
[54] **PNEUMATIC ACTUATION ASSEMBLY**  
[54] **ENSEMBLE D'ACTIONNEMENT PNEUMATIQUE**  
[72] HULL, LES, US  
[73] CONFLUENT SURGICAL, INC.,  
[86] (2821459)  
[87] (2821459)  
[22] 2013-07-22  
[30] US (61/681,706) 2012-08-10  
[30] US (13/922,640) 2013-06-20

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[11] **2,821,686**  
[13] C

[51] **Int.Cl. B60R 9/00 (2006.01)**  
[25] EN  
[54] **REMOVABLE BLOCKING DEVICE FOR AN UPRIGHT LEG OF A LOAD CARRIER RACK**  
[54] **DISPOSITIF DE BLOCAGE AMOVIBLE POUR UNE PATTE DROITE D'UN SUPPORT DE CHARGES**  
[72] PERRY, STEVEN R., US  
[73] THULE SWEDEN AB,  
[86] (2821686)  
[87] (2821686)  
[22] 2013-07-23  
[30] US (61/678,085) 2012-07-31  
[30] US (13/946,149) 2013-07-19

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[11] **2,822,243**  
[13] C

[51] **Int.Cl. B60R 9/00 (2006.01)**  
[25] EN  
[54] **VEHICULAR LOAD CARRIER RACK WITH LOCKING COVER**  
[54] **SUPPORT DE CHARGES DE VEHICULE AVEC COUVERCLE VERROUILLABLE**  
[72] LAVERACK, JOHN R., US  
[72] PERRY, STEVEN R., US  
[73] THULE SWEDEN AB,  
[86] (2822243)  
[87] (2822243)  
[22] 2013-07-29  
[30] US (61/678,081) 2012-07-31

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[11] **2,822,490**  
[13] C

[51] **Int.Cl. A23L 33/13 (2016.01) A23L 33/00 (2016.01) A23L 33/125 (2016.01) A61K 31/7012 (2006.01) A61K 31/702 (2006.01) A61K 31/7064 (2006.01) A61P 1/00 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **NUTRITIONAL COMPOSITIONS COMPRISING HUMAN MILK OLIGOSACCHARIDES AND NUCLEOTIDES AND USES THEREOF FOR TREATING AND/OR PREVENTING ENTERIC VIRAL INFECTION**

[54] **COMPOSITIONS NUTRITIONNELLES CONTENANT DES OLIGOSACCHARIDES ET DES NUCLEOTIDES DE LAIT HUMAIN ET LEURS UTILISATIONS POUR LE TRAITEMENT ET/OU LA PREVENTION D'UNE INFECTION VIRALE ENTERIQUE**

[72] BUCK, RACHAEL, US  
[72] THOMAS, DEBRA L., US  
[72] SCHALLER, JOSEPH P., US  
[73] ABBOTT LABORATORIES,  
[85] 2013-06-19  
[86] 2011-12-22 (PCT/US2011/067004)  
[87] (WO2012/092153)  
[30] US (61/428,866) 2010-12-31  
[30] US (61/551,758) 2011-10-26

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[11] **2,822,791**  
[13] C

[51] **Int.Cl. B65D 81/34 (2006.01) A47J 31/06 (2006.01) B65D 85/816 (2006.01)**

[25] EN

[54] **BEVERAGE CARTRIDGE WITH SEPARATING ELEMENTS**

[54] **CARTOUCHE DE BOISSON COMPORTANT DES ELEMENTS SEPARES**

[72] CARDOSO, DANIEL GONCALVES, CA  
[73] 1675119 ONTARIO INC.,  
[86] (2822791)  
[87] (2822791)  
[22] 2013-08-02  
[30] US (61/679,148) 2012-08-03

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[11] **2,822,850**  
[13] C

[51] **Int.Cl. E06B 9/78 (2006.01) E06B 9/42 (2006.01)**

[25] EN

[54] **PULL CLIP FOR BOTTOM BAR OF A WINDOW SHADE**

[54] **PINCE A TRACTION POUR BARRE INFERIEURE D'UN STORE DE FENETRE**

[72] NG, PHILIP, CA  
[73] NG, PHILIP,  
[86] (2822850)  
[87] (2822850)  
[22] 2013-08-02  
[30] US (13/588,120) 2012-08-17

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[11] **2,823,744**  
[13] C

[51] **Int.Cl. H01R 13/52 (2006.01) H01R 13/533 (2006.01) H05K 5/06 (2006.01)**

[25] EN

[54] **HERMETIC HOUSING ARRANGEMENT**

[54] **ENSEMBLE CARTER HERMETIQUE**

[72] MATUSCHEK, DANIEL, DE  
[72] GRAU, HUBERT, DE  
[73] LIEBHERR-ELEKTRONIK GMBH,  
[86] (2823744)  
[87] (2823744)  
[22] 2013-08-15  
[30] DE (10 2012 017 357.1) 2012-08-31

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[11] **2,824,355**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) B82Y 15/00 (2011.01) C12Q 1/6813 (2018.01) C12Q 1/6816 (2018.01) G01N 33/53 (2006.01)**

[25] EN

[54] **APPLICATION OF QUANTUM DOTS FOR NUCLEAR STAINING**

[54] **UTILISATION DE POINTS QUANTIQUES POUR LA COLORATION DE NOYAUX**

[72] YUN, CHOL S., US  
[72] KELLY, BRIAN D., US  
[72] ASHWORTH-SHARPE, JULIA, US  
[72] BIENIARZ, CHRISTOPHER, US  
[72] BAMFORD, PASCAL, US  
[72] MURILLO, ADRIAN E., US  
[73] VENTANA MEDICAL SYSTEMS, INC.,  
[85] 2013-07-10  
[86] 2012-02-27 (PCT/EP2012/053255)  
[87] (WO2012/116949)  
[30] US (61/464,217) 2011-02-28

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[11] **2,824,898**  
[13] C

[51] **Int.Cl. E06B 9/42 (2006.01)**

[25] EN

[54] **SLIP CLUTCH FOR ROLLER SHADE**

[54] **ACCOUPLLEMENT A GLISSEMENT POUR STORE A ENROULEMENT AUTOMATIQUE**

[72] NG, PHILIP, CA  
[73] ZMC METAL COATING INC.,  
[86] (2824898)  
[87] (2824898)  
[22] 2013-08-28  
[30] US (13/654,872) 2012-10-18  
[30] US (13/951,692) 2013-07-26

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[11] **2,825,298**  
[13] C

[51] **Int.Cl. C07D 487/18 (2006.01) A61K 31/55 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREPARING NORIBOGAINE FROM VOACANGINE**

[54] **PROCEDES ET COMPOSITIONS POUR PREPARER UNE NORIBOGAINE A PARTIR DE VOACANGINE**

[72] MASH, DEBORAH C., US  
[72] MORIARTY, ROBERT M., US  
[72] GLESS, RICHARD D., US  
[73] DEMERX, INC.,  
[85] 2013-07-19  
[86] 2012-01-23 (PCT/US2012/022255)  
[87] (WO2012/103028)  
[30] US (61/436,511) 2011-01-26  
[30] US (61/453,884) 2011-03-17  
[30] US (61/454,904) 2011-03-21

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[11] **2,826,372**  
[13] C

[51] **Int.Cl. G02B 7/08 (2006.01) G02B 21/24 (2006.01)**

[25] EN

[54] **FAST AUTO-FOCUS IN MICROSCOPIC IMAGING**

[54] **MISE AU POINT AUTOMATIQUE RAPIDE POUR L'IMAGERIE MICROSCOPIQUE**

[72] ZAHNISER, MICHAEL, US  
[73] ROCHE DIAGNOSTICS HEMATOLOGY, INC.,  
[85] 2013-08-01  
[86] 2011-02-01 (PCT/US2011/023374)  
[87] (WO2012/105966)

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[11] **2,827,987**  
[13] C

[51] **Int.Cl. A61F 13/20 (2006.01)**  
[25] EN  
[54] **TAMPON WITH EXTENDED GROOVE FORMS**  
[54] **TAMPON AVEC FORMES DE RAINURE ALLONGEES**  
[72] KIMBALL, DAVID L., US  
[72] NG, TONY C., US  
[72] ZEDAYKO, TARA, US  
[73] JOHNSON & JOHNSON GMBH,  
[86] (2827987)  
[87] (2827987)  
[22] 2013-09-23  
[30] US (61/706,351) 2012-09-27  
[30] US (13/717,943) 2012-12-18

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[11] **2,828,110**  
[13] C

[51] **Int.Cl. C12M 3/02 (2006.01) C12N 5/071 (2010.01) C12N 1/14 (2006.01) C12N 1/20 (2006.01)**  
[25] EN  
[54] **CELL CULTURE SYSTEM**  
[54] **SYSTEME DE CULTURE CELLULAIRE**  
[72] INGBER, DONALD E., US  
[72] KIM, HYUN JUNG, US  
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE,  
[85] 2013-08-22  
[86] 2012-02-28 (PCT/US2012/026934)  
[87] (WO2012/118799)  
[30] US (61/447,540) 2011-02-28

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[11] **2,828,421**  
[13] C

[51] **Int.Cl. E06B 9/322 (2006.01) E06B 9/24 (2006.01) E06B 9/262 (2006.01)**  
[25] EN  
[54] **CONTROL FOR MOVABLE RAIL**  
[54] **COMMANDE DESTINEE A UN RAIL MOBILE**  
[72] ANDERSON, RICHARD N., US  
[72] THOMPSON, EUGENE W., US  
[72] HAARER, STEVEN R., US  
[73] HUNTER DOUGLAS INC.,  
[85] 2013-08-27  
[86] 2012-03-06 (PCT/US2012/027809)  
[87] (WO2012/122140)  
[30] US (61/449,877) 2011-03-07  
[30] US (13/404,874) 2012-02-24

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[11] **2,828,460**  
[13] C

[51] **Int.Cl. H01M 8/249 (2016.01) H01M 8/0256 (2016.01)**  
[25] EN  
[54] **FUEL CELL COMPRISING AT LEAST TWO STACKED PRINTED CIRCUIT BOARDS WITH A PLURALITY OF INTERCONNECTED FUEL CELL UNITS**  
[54] **PILE A COMBUSTIBLE COMPRENANT AU MOINS DEUX CARTES DE CIRCUITS IMPRIMES EMPILEES PRESENTANT UNE PLURALITE D'UNITES DE PILES A COMBUSTIBLE INTERCONNECTEES**  
[72] BRETT, DANIEL JOHN LESLIE, GB  
[72] KUCERNAK, ANTHONY ROBERT JOHN, GB  
[73] IMPERIAL INNOVATIONS LIMITED,  
[73] UCL BUSINESS PLC,  
[85] 2013-08-28  
[86] 2012-02-29 (PCT/EP2012/053479)  
[87] (WO2012/117035)  
[30] GB (1103590.4) 2011-03-01

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[11] **2,828,789**  
[13] C

[51] **Int.Cl. A61K 38/36 (2006.01) A61P 7/04 (2006.01) C07K 14/745 (2006.01)**  
[25] FR  
[54] **GLA-DOMAINLESS FACTOR XA FOR TREATING HAEMOPHILIA A OR B WITH OR WITHOUT INHIBITOR**  
[54] **FACTEUR XA DEPOURVU DE DOMAINE GLA POUR LE TRAITEMENT DES HEMOPHILIES A OU B AVEC OU SANS INHIBITEUR**  
[72] POLACK, BENOIT, FR  
[72] THOMAS, ALINE, FR  
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE,  
[73] UNIVERSITE GRENOBLE ALPES,  
[85] 2013-08-30  
[86] 2012-02-29 (PCT/FR2012/050425)  
[87] (WO2012/117203)  
[30] FR (1151637) 2011-03-01

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[11] **2,829,069**  
[13] C

[51] **Int.Cl. F15B 1/027 (2006.01) F15B 1/033 (2006.01)**  
[25] FR  
[54] **EQUIPMENT COMPRISING AT LEAST ONE HYDROPNEUMATIC ACCUMULATOR WITH AUTOMATED MAINTENANCE**  
[54] **INSTALLATION COMPORTANT AU MOINS UN ACCUMULATEUR HYDROPNEUMATIQUE A ENTRETIEN AUTOMATISE**  
[72] HUGHES, THOMAS, IE  
[72] HOUSSAIS, ALAIN, FR  
[72] GRANSEIGNE, LAURENT, FR  
[73] OLAER INDUSTRIES,  
[85] 2013-09-04  
[86] 2012-03-07 (PCT/FR2012/050477)  
[87] (WO2012/146837)  
[30] FR (1151934) 2011-03-09

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[11] **2,829,164**  
[13] C

[51] **Int.Cl. A61K 47/06 (2006.01) A61K 9/00 (2006.01) A61K 31/573 (2006.01) A61K 31/59 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61P 27/02 (2006.01)**  
[25] EN  
[54] **AN OPHTHALMIC COMPOSITION COMPRISING A POLYAPHRON DISPERSION**  
[54] **UNE COMPOSITION OPHTALMIQUE COMPORTANT UNE DISPERSION DE POLYAPRHONS**  
[72] STEELE, FRASER, GB  
[73] DRUG DELIVERY SOLUTIONS LIMITED,  
[85] 2013-09-05  
[86] 2012-03-14 (PCT/EP2012/054498)  
[87] (WO2012/123515)  
[30] EP (11158099.9) 2011-03-14

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[11] **2,829,475**  
[13] C

[51] **Int.Cl. E04F 15/20 (2006.01)**  
[25] EN  
[54] **SOUND CONTROL MAT**  
[54] **TAPIS DE COMMANDE DE SON**  
[72] WINGFIELD, ALLAN, US  
[72] DENTON, JEFFREY SCOTT, US  
[72] GILES, PATRICK HENRY, US  
[73] MAXXON CORPORATION,  
[73] LOW & BONAR INC.,  
[86] (2829475)  
[87] (2829475)  
[22] 2013-10-03  
[30] US (61/710,166) 2012-10-05

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[11] **2,829,882**  
[13] C

[51] **Int.Cl. A61B 17/70 (2006.01) A61B 17/34 (2006.01) A61B 17/88 (2006.01) A61F 2/44 (2006.01) A61F 2/46 (2006.01)**  
[25] EN  
[54] **RELIEVING BACK PAIN AND REBUILDING INTERVERTEBRAL DISCS THROUGH A NEEDLE**  
[54] **SOULAGEMENT DES DOULEURS DORSALES ET REPARATION DES DISQUES INTERVERTEBRAUX A TRAVERS UNE AIGUILLE**  
[72] YEUNG, JEFFREY E., US  
[72] YEUNG, TERESA T., US  
[73] YEUNG, JEFFREY E.,  
[73] YEUNG, TERESA T.,  
[85] 2013-09-11  
[86] 2012-03-23 (PCT/US2012/000158)  
[87] (WO2012/128829)  
[30] US (61/465,804) 2011-03-23  
[30] US (61/518,489) 2011-05-07  
[30] US (61/572,820) 2011-07-21

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[11] **2,830,309**  
[13] C

[51] **Int.Cl. B65D 1/26 (2006.01) A23C 9/12 (2006.01) B65D 25/10 (2006.01)**  
[25] EN  
[54] **SET FERMENTED DAIRY COMPOSITION IN A CIRCULAR CONTAINER**  
[54] **COMPOSITION LAITIERE FERMENTEE FIGEE DANS UN RECIPIENT CIRCULAIRE**  
[72] BOADAS, MICHELLE, ES  
[72] BOVE BONET, FRANCISCO, ES  
[73] DANONE S.A.,  
[85] 2013-09-16  
[86] 2012-04-04 (PCT/EP2012/056126)  
[87] (WO2012/136687)  
[30] US (61/473,060) 2011-04-07

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[11] **2,830,593**  
[13] C

[51] **Int.Cl. C08F 2/20 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PREPARING AN AQUEOUS POLYMER DISPERSION UNDER VACUUM, AND USES THEREOF**  
[54] **PROCEDE DE PREPARATION D'UNE DISPERSION AQUEUSE DE POLYMERES SOUS VIDE ET SES UTILISATIONS**  
[72] COCCOLO, SEBASTIEN, FR  
[72] TAVERNIER, BRUNO, FR  
[73] S.P.C.M. SA,  
[86] (2830593)  
[87] (2830593)  
[22] 2013-10-22  
[30] FR (1350180) 2013-01-09

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[11] **2,830,791**  
[13] C

[51] **Int.Cl. G01N 33/50 (2006.01)**  
[25] EN  
[54] **METHODS FOR SCREENING INHIBITORS OF TUMOUR ASSOCIATED PROTEIN AGGREGATION**  
[54] **PROCEDES DE CRIBLAGE POUR IDENTIFIER DES INHIBITEURS D'AGREGATION DE PROTEINES ASSOCIEE A DES TUMEURS**  
[72] SCHYMKOWITZ, JOOST, BE  
[72] ROUSSEAU, FREDERIC, BE  
[72] XU, JIE, CN  
[72] DE SMET, FREDERIK, BE  
[73] VIB VZW,  
[73] VRIJE UNIVERSITEIT BRUSSEL,  
[73] KATHOLIEKE UNIVERSITEIT LEUVEN, K.U.LEUVEN R&D,  
[85] 2013-09-19  
[86] 2012-03-26 (PCT/EP2012/055291)  
[87] (WO2012/130785)  
[30] US (61/465,892) 2011-03-25

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[11] **2,830,899**  
[13] C

[51] **Int.Cl. B01J 19/12 (2006.01) G05D 21/00 (2006.01)**  
[25] EN  
[54] **METHODS AND APPARATUS TO CONTROL REACTION RATES OF CHEMICAL REACTIONS BY APPLYING A MAGNETIC FIELD**  
[54] **PROCEDES ET APPAREIL POUR REGULER DES VITESSES DE REACTION DE REACTIONS CHIMIQUES PAR L'APPLICATION D'UN CHAMP MAGNETIQUE**  
[72] LITTLE, REGINALD B., US  
[72] MITCHELL, JAMES W., US  
[73] HOWARD UNIVERSITY,  
[85] 2013-09-20  
[86] 2012-03-22 (PCT/US2012/030141)  
[87] (WO2012/134954)  
[30] US (61/467,708) 2011-03-25

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[11] **2,832,921**  
[13] C

[51] **Int.Cl. C21D 6/00 (2006.01) C22C 38/02 (2006.01) C22C 38/58 (2006.01)**  
[25] EN  
[54] **METHOD FOR MANUFACTURING AND UTILIZING FERRITIC-AUSTENITIC STAINLESS STEEL**  
[54] **PROCEDE DE FABRICATION ET D'UTILISATION D'ACIER INOXYDABLE FERRITIQUE-AUSTENITIQUE**  
[72] OLIVER, JAMES, SE  
[72] JONSSON, JAN Y., SE  
[72] TALONEN, JUHO, FI  
[72] PETERSSON, RACHEL, SE  
[72] ANDERSSON, JAN-OLOF, SE  
[73] OUTOKUMPU OYJ,  
[85] 2013-10-10  
[86] 2012-04-18 (PCT/FI2012/050379)  
[87] (WO2012/143610)  
[30] FI (PCT/FI2011/050345) 2011-04-18  
[30] FI (FI20110375) 2011-10-28

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[11] **2,834,281**  
[13] C

[51] **Int.Cl. C02F 1/00 (2006.01) B01D 24/14 (2006.01) B01D 61/14 (2006.01) B01D 63/02 (2006.01)**

[25] EN

[54] **GRAVITY DRIVEN PORTABLE WATER PURIFICATION DEVICE**

[54] **DISPOSITIF DE PURIFICATION D'EAU PORTATIF ENTRAINE PAR GRAVITE**

[72] VESTERGAARD FRANDSEN, MIKKEL, CH

[72] FRAUCHIGER, DANIEL, CH

[72] MADIER DE CHAMPVERMEIL, JEAN-LUC, FR

[72] PASCAL, JEAN-MARC, FR

[72] STOOPS, LUC, NL

[73] VESTERGAARD SA,

[85] 2013-10-25

[86] 2011-04-27 (PCT/DK2011/050132)

[87] (WO2012/146243)

[11] **2,835,888**  
[13] C

[51] **Int.Cl. C07C 17/42 (2006.01) B01F 1/00 (2006.01) C08J 9/14 (2006.01) C09K 3/30 (2006.01) C09K 5/04 (2006.01) C07C 21/18 (2006.01)**

[25] EN

[54] **NON-FLAMMABLE COMPOSITIONS OF CHLORO-TRIFLUOROPROPENE**

[54] **COMPOSITIONS NON INFLAMMABLES DE CHLOROTRIFLUOROPROPENE**

[72] KENNOY, DEBRA H., US

[72] VAN HORN, BRETT L., US

[72] CHEN, BENJAMIN BIN, US

[72] BONNET, PHILIPPE, FR

[73] ARKEMA INC.,

[85] 2013-11-12

[86] 2012-05-17 (PCT/US2012/038264)

[87] (WO2012/158870)

[30] US (61/487,790) 2011-05-19

[11] **2,836,810**  
[13] C

[51] **Int.Cl. E02F 9/28 (2006.01)**

[25] EN

[54] **GROUND ENGAGING WEAR MEMBER AND MEANS OF MECHANICAL ATTACHMENT**

[54] **ELEMENT D'USURE ENTRANT EN PRISE AVEC LE SOL ET MOYENS DE FIXATION MECANIQUE**

[72] KARLSSON, BJORN MARTEN, AU

[72] DALLARD, BRADLEY JOHN, AU

[72] ONG, WEI CHENG, AU

[72] FOO, DANIEL TUAN YONG, AU

[73] SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD,

[85] 2013-11-20

[86] 2012-05-21 (PCT/AU2012/000564)

[87] (WO2012/159155)

[30] AU (2011901961) 2011-05-20

[11] **2,834,335**  
[13] C

[51] **Int.Cl. F16K 3/314 (2006.01) E03C 1/04 (2006.01) F16K 3/08 (2006.01)**

[25] EN

[54] **FAUCET VALVE CARTRIDGE**

[54] **CARTOUCHE POUR SOUPAPE DE DECHARGE**

[72] PITSCH, WALTER, US

[72] XIAN, GUANG YI, CN

[73] AS AMERICA, INC.,

[85] 2013-10-25

[86] 2012-04-24 (PCT/US2012/034754)

[87] (WO2012/148888)

[30] US (61/479,392) 2011-04-26

[30] US (13/449,582) 2012-04-18

[11] **2,836,421**  
[13] C

[51] **Int.Cl. G01D 3/032 (2006.01) G06F 17/00 (2019.01) G06F 17/10 (2006.01)**

[25] FR

[54] **DYNAMIC CLUSTERING OF TRANSIENT SIGNALS**

[54] **REGROUPEMENT DYNAMIQUE DE SIGNAUX TRANSITOIRES**

[72] LEONARD, FRANCOIS, CA

[73] HYDRO-QUEBEC,

[85] 2013-11-14

[86] 2012-05-25 (PCT/CA2012/050343)

[87] (WO2012/162825)

[30] CA (2,741,202) 2011-05-27

[11] **2,836,895**  
[13] C

[51] **Int.Cl. D21C 9/147 (2006.01) D21H 11/04 (2006.01)**

[25] EN

[54] **SOFTWOOD KRAFT FIBER HAVING IMPROVED WHITENESS AND BRIGHTNESS AND METHODS OF MAKING AND USING THE SAME**

[54] **FIBRE KRAFT DE BOIS DE CONIFERES AYANT UNE BLANCHEUR ET UN ECLAT AMELIORES ET PROCEDES DE FABRICATION ET UTILISATION DE CELLE-CI**

[72] NONNI, ARTHUR J., US

[72] COURCHENE, CHARLES E., US

[72] CAMPBELL, PHILIP R., US

[72] DOWDLE, STEVEN C., US

[72] ENGLE, JOEL M., US

[72] SLONE, CHRISTOPHER M., US

[73] GP CELLULOSE GMBH,

[85] 2013-11-20

[86] 2012-05-18 (PCT/US2012/038685)

[87] (WO2012/170183)

[30] US (61/489,245) 2011-05-23

[30] US (61/489,594) 2011-05-24

[11] **2,835,139**  
[13] C

[51] **Int.Cl. E04H 12/20 (2006.01) F03D 13/20 (2016.01) E02D 5/80 (2006.01) E04B 1/38 (2006.01) E04H 12/00 (2006.01)**

[25] EN

[54] **STAY CABLE FOR STRUCTURES**

[54] **CABLE DE HAUBANAGE POUR STRUCTURES**

[72] LAMBERT, WALTER L., US

[73] LAMBERT, WALTER L.,

[85] 2013-11-04

[86] 2012-06-22 (PCT/US2012/043901)

[87] (WO2013/009454)

[30] US (13/181,551) 2011-07-13

[11] **2,836,464**  
[13] C

[51] **Int.Cl. E04H 1/02 (2006.01) E04B 1/00 (2006.01) E04B 1/343 (2006.01) E04H 1/12 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR BUILDING A STRUCTURE**

[54] **PROCEDE ET APPAREIL POUR LA CONSTRUCTION D'UNE STRUCTURE**

[72] MILO, THOMAS KEVIN, US

[72] MILO, ANGELINA LUCIA, US

[73] INTERNATIONAL SHELTER SOLUTIONS LLC,

[85] 2013-11-15

[86] 2012-05-17 (PCT/US2012/038352)

[87] (WO2012/158918)

[30] US (61/486,971) 2011-05-17

[72] NONNI, ARTHUR J., US

[72] COURCHENE, CHARLES E., US

[72] CAMPBELL, PHILIP R., US

[72] DOWDLE, STEVEN C., US

[72] ENGLE, JOEL M., US

[72] SLONE, CHRISTOPHER M., US

[73] GP CELLULOSE GMBH,

[85] 2013-11-20

[86] 2012-05-18 (PCT/US2012/038685)

[87] (WO2012/170183)

[30] US (61/489,245) 2011-05-23

[30] US (61/489,594) 2011-05-24

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[11] **2,837,247**  
[13] C

[51] **Int.Cl. C07D 285/08 (2006.01) A61K 31/433 (2006.01) A61P 25/28 (2006.01) C07D 417/04 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **1, 2, 4 -THIADIAZOL- 5 - YLPIPERAZINE DERIVATIVES USEFUL IN THE TREATMENT NEURODEGENERATIVE DISEASES**

[54] **DERIVES DE 1, 2, 4 - THIADIAZOL- 5 -YLPPIPERAZINE UTILES DANS LE TRAITEMENT DE MALADIES NEURODEGENERATIVES**

[72] GRIFFIOEN, GERARD, BE  
[72] NETTEKOVEN, MATTHIAS, DE  
[72] PRINCEN, KATRIEN, BE  
[72] RATNI, HASANE, FR  
[72] VIFIAN, WALTER, CH  
[73] REMYND NV,  
[85] 2013-11-25  
[86] 2012-06-29 (PCT/EP2012/062778)  
[87] (WO2013/004642)  
[30] EP (11172324.3) 2011-07-01

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[11] **2,837,523**  
[13] C

[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/06 (2012.01)**

[25] FR

[54] **SYSTEM FOR RECOMMENDING HELICOPTER ENGINE MAINTENANCE**

[54] **SYSTEME DE PRESCRIPTION DE MAINTENANCE D'UN MOTEUR D'HELICOPTERE**

[72] KAMENKA, ALEXANDRE, FR  
[72] MAILLE, SERGE, FR  
[72] PRAT, FRANCOIS, FR  
[72] BOUCON, JEAN-LOUIS, FR  
[72] DEBBOUZ, NADIR, FR  
[72] VIGNES, JEAN-STEPHANE, FR  
[72] DUMEZ-VINIT, MARIE-CAROLINE, FR  
[72] FAUPIN, FRANCOIS, FR  
[72] BLAY, ANTOINE, FR  
[72] VIEILLARD-BARON, DIDIER, FR  
[72] BOUTIN, LUDOVIC, FR  
[72] BOUREAU, PHILIPPE, FR  
[72] GAULTIER, CHRISTOPHE, FR  
[72] MESTDAGH, HELENE, FR  
[72] NUFFER, NICOLAS, FR  
[72] LAMAZERE, FABIEN, FR  
[73] TURBOMECA,  
[85] 2013-11-26  
[86] 2012-06-19 (PCT/EP2012/061754)  
[87] (WO2012/175521)  
[30] EP (11305774.9) 2011-06-20

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[11] **2,839,224**  
[13] C

[51] **Int.Cl. B25H 7/00 (2006.01) B43L 13/00 (2006.01)**

[25] EN

[54] **MECHANISM FOR TOOL, METHOD AND MARKING SYSTEM**

[54] **OUTIL, PROCEDE ET SYSTEME DE MARQUAGE**

[72] STOKLOSA, ANNA A. S., CA  
[72] STOKLOSA, FRANCISZEK F. S., CA  
[73] STOKLOSA, ANNA A. S.,  
[73] STOKLOSA, FRANCISZEK F. S.,  
[86] (2839224)  
[87] (2839224)  
[22] 2014-01-16

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[11] **2,840,077**  
[13] C

[51] **Int.Cl. F41H 5/04 (2006.01) B32B 15/06 (2006.01)**

[25] EN

[54] **BLAST AND FRAGMENT RESISTANT WALL SECTIONS USED INSIDE STRUCTURES LIKE SHIPS**

[54] **SECTIONS DE PAROI RESISTANT AUX EXPLOSIONS ET AUX FRAGMENTS UTILISEES A L'INTERIEUR DE STRUCTURES TELLES QUE DES BATEAUX**

[72] ROEBROEKS, GEERT, NL  
[72] CARTON, ERIK PETER, NL  
[72] VAN ERKEL, ANDRE, NL  
[72] VAN DER WAL, ROGIER, NL  
[73] NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOETNO,  
[85] 2013-12-19  
[86] 2012-06-25 (PCT/NL2012/050448)  
[87] (WO2012/177140)  
[30] EP (11171207.1) 2011-06-23

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[11] **2,840,385**  
[13] C

[51] **Int.Cl. B01J 27/19 (2006.01) B01J 23/85 (2006.01) B01J 31/02 (2006.01) B01J 37/02 (2006.01) B01J 37/18 (2006.01) B01J 37/20 (2006.01) C10G 45/04 (2006.01) C10G 45/08 (2006.01)**

[25] EN

[54] **SUPPORTED HYDROPROCESSING CATALYSTS COMPRISING METAL, AMINE, AND NON-AMINE POLAR ADDITIVES**

[54] **CATALYSEURS D'HYDROTRAITEMENT SUPPORTES RENFERMANT UN METAL, UN AMINE ETDES ADDITIFS POLAIRES NON AMINES**

[72] GILLESPIE, WILLIAM DOUGLAS, US  
[72] GABRIELOV, ALEXEI GRIGORIEVICH, US  
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.,  
[85] 2013-12-23  
[86] 2012-06-26 (PCT/US2012/044155)  
[87] (WO2013/003321)  
[30] US (61/501,871) 2011-06-28

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[11] **2,841,037**  
[13] C

[51] **Int.Cl. C07D 285/08 (2006.01) A61K 31/433 (2006.01) A61P 25/28 (2006.01) C07D 417/04 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **PIPERAZINE THIAZOLE DERIVATIVES USEFUL IN THE TREATMENT OF TAUOPATHIES SUCH AS ALZHEIMER'S DISEASE**

[54] **DERIVES DE PIPERAZINE THIAZOLE UTILES DANS LE TRAITEMENT DES TAUOPATHIES TELLES QUE LA MALADIE D'ALZHEIMER**

[72] GRIFFIOEN, GERARD, BE  
[72] CECERE, GIUSEPPE, CH  
[72] NETTEKOVEN, MATTHIAS, DE  
[72] PRINCEN, KATRIEN, BE  
[72] RATNI, HASANE, FR  
[72] ROGERS-EVANS, MARK, CH  
[72] VIFIAN, WALTER, CH  
[73] REMYND NV,  
[85] 2014-01-06  
[86] 2012-08-17 (PCT/EP2012/066136)  
[87] (WO2013/024168)  
[30] EP (11177742.1) 2011-08-17

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[11] **2,842,466**  
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 5/14 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **INFUSION CATHETER ASSEMBLY WITH INFINITELY VARIABLE RANGE OF EFFECTIVE INFUSION LENGTHS**

[54] **ENSEMBLE DE CATHETER DE PERFUSION AVEC PLAGE VARIABLE INFINIMENT DE LONGUEURS DE PERFUSION EFFICACES**

[72] COMEROTA, ANTHONY J., US  
[72] FOGARTY, THOMAS J., US  
[72] OLSON, JONATHAN M., US  
[72] LOTTI, RICHARD A., US  
[73] VENOUS THERAPY INC.,  
[85] 2014-01-20  
[86] 2012-08-02 (PCT/US2012/049322)  
[87] (WO2013/019947)  
[30] US (61/514,728) 2011-08-03

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[11] **2,844,474**  
[13] C

[51] **Int.Cl. A23L 33/135 (2016.01) A23C 9/12 (2006.01) A23L 2/52 (2006.01) A61K 47/00 (2006.01) A61P 1/14 (2006.01) A61K 9/16 (2006.01) C12N 1/20 (2006.01) C12N 11/04 (2006.01)**

[25] EN

[54] **PROBIOTIC LIQUID FOOD PRODUCTS**

[54] **PRODUITS ALIMENTAIRES LIQUIDES PROBIOTIQUES**

[72] PENHASI, ADEL, IL  
[73] DEGAMA SMART LTD.,  
[85] 2014-02-06  
[86] 2011-08-08 (PCT/IL2011/000640)  
[87] (WO2012/020403)  
[30] US (61/371,796) 2010-08-09

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[11] **2,844,645**  
[13] C

[51] **Int.Cl. C08J 9/00 (2006.01) C03B 37/01 (2006.01)**

[25] EN

[54] **FOAMABLE COMPOSITION, FOAM COMPOSITE, METHOD OF MAKING FOAM COMPOSITE AND USE OF FOAM COMPOSITE**

[54] **COMPOSITION MOUSSABLE, COMPOSITE DE MOUSSE, PROCEDE DE FABRICATION D'UN COMPOSITE DE MOUSSE ET UTILISATION DU COMPOSITE DE MOUSSE**

[72] NIELSEN, DAG, DK  
[72] JOHANSSON, DORTE BARTNIK, DK  
[73] ROCKWOOL INTERNATIONAL A/S,  
[85] 2014-02-07  
[86] 2012-08-20 (PCT/EP2012/066196)  
[87] (WO2013/024176)  
[30] EP (11177971.6) 2011-08-18

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[11] **2,845,728**  
[13] C

[51] **Int.Cl. D21H 27/00 (2006.01) D06P 5/00 (2006.01)**

[25] EN

[54] **CASTING PAPERS AND THEIR METHODS OF FORMATION AND USE**

[54] **PAPIERS DE MOULAGE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] KRONZER, FRANK, J., US  
[72] LAPIN, STEPHEN, C., US  
[72] ROSENBERG, STEVEN, E., US  
[72] PUGLIANO, JOHN, A., US  
[73] NEENAH PAPER, INC.,  
[85] 2014-02-18  
[86] 2012-08-02 (PCT/US2012/049252)  
[87] (WO2013/028327)  
[30] US (13/213,160) 2011-08-19

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[11] **2,845,743**  
[13] C

[51] **Int.Cl. G06F 16/90 (2019.01) G06F 16/906 (2019.01) G06N 20/00 (2019.01) G06Q 20/00 (2012.01)**

[25] EN

[54] **RESOLVING SIMILAR ENTITIES FROM A TRANSACTION DATABASE**

[54] **RESOLUTION D'ENTITES SIMILAIRES A PARTIR D'UNE BASE DE DONNEES DE TRANSACTION**

[72] ERENDRICH, DANIEL, US  
[73] PALANTIR TECHNOLOGIES, INC.,  
[86] (2845743)  
[87] (2845743)  
[22] 2014-03-12  
[30] US (13/827,491) 2013-03-14

**Brevets canadiens délivrés  
31 mars 2020**

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[11] **2,846,025**  
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) H04L 12/16 (2006.01)**  
[25] EN  
[54] **RECOMMENDATIONS BASED UPON EXPLICIT USER SIMILARITY**  
[54] **RECOMMANDATIONS BASEES SUR UNE SIMILITUDE D'UTILISATEURS EXPLICITE**  
[72] EGOZI, OFER, IL  
[72] MORAN, AMIT, IL  
[72] SHAMIR, OREN, IL  
[73] TRANSFORM SR BRANDS, LLC,  
[86] (2846025)  
[87] (2846025)  
[22] 2014-03-13  
[30] US (61/802,338) 2013-03-15

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[11] **2,847,969**  
[13] C

[51] **Int.Cl. H04B 1/00 (2006.01) H04W 16/14 (2009.01) H03D 9/00 (2006.01) H04B 1/50 (2006.01) H04B 7/14 (2006.01) H04L 27/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PERFORMING DEMODULATION AND MODULATION ON SOFTWARE DEFINED RADIOS**  
[54] **SYSTEMES ET PROCEDES DE DEMODULATION ET DE MODULATION SUR DES RADIOS DEFINIES PAR LOGICIEL**  
[72] WOLLESEN, VICTOR, CA  
[72] YAO, YI, CA  
[73] PER VICES CORPORATION,  
[85] 2014-03-06  
[86] 2012-09-04 (PCT/CA2012/050608)  
[87] (WO2013/033840)  
[30] US (61/532,685) 2011-09-09  
[30] CA (PCT/CA2012/000314) 2012-03-26

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[11] **2,849,874**  
[13] C

[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/10 (2006.01) A24F 47/00 (2020.01) A61M 15/06 (2006.01)**  
[25] EN  
[54] **SMOKING ARTICLE COMPRISING A COMBUSTIBLE HEAT SOURCE WITH A REAR BARRIER COATING**  
[54] **ARTICLE A FUMER COMPRENANT UNE SOURCE DE CHALEUR COMBUSTIBLE COMPRENANT UN REVETEMENT BARRIERE ARRIERE**  
[72] STOLZ, STEFFEN, CH  
[72] DEGOUMOIS, YVAN, CH  
[72] LAVANCHY, FREDERIC, CH  
[73] PHILIP MORRIS PRODUCTS S.A.,  
[85] 2014-03-24  
[86] 2012-11-14 (PCT/EP2012/072557)  
[87] (WO2013/072336)  
[30] EP (11250893.2) 2011-11-15

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[11] **2,849,917**  
[13] C

[51] **Int.Cl. G01N 35/10 (2006.01) B01L 3/00 (2006.01) B01L 9/00 (2006.01)**  
[25] EN  
[54] **UNITIZED REAGENT STRIP**  
[54] **BANDELETTE REACTIVE UNITISEE**  
[72] LENTZ, AMMON DAVID, US  
[72] LIVINGSTON, DWIGHT, US  
[72] STEEL, ADAM BRUCE, US  
[72] ST. PIERRE, RICHARD, CA  
[73] BECTON, DICKINSON AND COMPANY,  
[85] 2014-03-24  
[86] 2012-09-28 (PCT/US2012/058102)  
[87] (WO2013/049706)  
[30] US (61/541,991) 2011-09-30

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[11] **2,851,322**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 19/02 (2006.01)**  
[25] EN  
[54] **TREATMENT FOR RHEUMATOID ARTHRITIS WITH GM CSFR ALPHA ANTIBODIES**  
[54] **TRAITEMENT DE L'ARTHRITE RHUMATOIDE AU MOYEN D'ANTICORPS GM CSFR ALPHA**  
[72] GODWOOD, ALEX, GB  
[72] MAGRINI, FABIO, US  
[73] MEDIMMUNE LIMITED,  
[85] 2014-04-07  
[86] 2012-10-10 (PCT/EP2012/070074)  
[87] (WO2013/053767)  
[30] US (61/545,359) 2011-10-10  
[30] US (61/556,974) 2011-11-08

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[11] **2,851,621**  
[13] C

[51] **Int.Cl. A23K 10/30 (2016.01) A23K 20/10 (2016.01) A23K 40/00 (2016.01) A23K 40/20 (2016.01) A23K 50/40 (2016.01) A61K 8/9711 (2017.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01) B29C 45/00 (2006.01)**  
[25] EN  
[54] **ASCOPHYLLUM NODOSUM ANIMAL CHEWS**  
[54] **PRODUIT A MACHER POUR ANIMAUX A L'ASCOPHYLLE NOUEUSE**  
[72] AXELROD, GLEN S., US  
[72] GAJRIA, AJAY, IN  
[73] T.F.H. PUBLICATIONS, INC.,  
[85] 2014-04-09  
[86] 2012-10-12 (PCT/US2012/059897)  
[87] (WO2013/062790)  
[30] US (13/280,862) 2011-10-25

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[11] **2,851,673**  
[13] C  
[51] **Int.Cl. B29C 70/32 (2006.01) B29C 53/56 (2006.01) B29C 53/80 (2006.01) B29C 70/54 (2006.01)**  
[25] FR  
[54] **DEVICE FOR HOLDING A FIBROUS TEXTURE ON AN IMPREGNATION FORMER OF A WINDING MACHINE**  
[54] **DISPOSITIF DE MAINTIEN D'UNE TEXTURE FIBREUSE SUR UN MANDRIN D'IMPREGNATION D'UNE MACHINE D'ENROULEMENT**  
[72] MATHON, RICHARD, US  
[72] PATRIGEON, OLIVIER, FR  
[72] GUMMEL, MICAH, US  
[73] SNECMA,  
[85] 2014-04-10  
[86] 2012-10-23 (PCT/FR2012/052423)  
[87] (WO2013/060978)  
[30] FR (1159713) 2011-10-26

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[11] **2,851,874**  
[13] C  
[51] **Int.Cl. E21B 47/06 (2012.01) E02D 1/00 (2006.01) E02D 33/00 (2006.01) E21B 49/00 (2006.01)**  
[25] EN  
[54] **FORMATION PRESSURE SENSING SYSTEM**  
[54] **SYSTEME DE DETECTION DE PRESSION DE FORMATION GEOLOGIQUE**  
[72] GRAY, IAN, AU  
[73] GRAY, IAN,  
[85] 2014-04-11  
[86] 2012-10-10 (PCT/AU2012/001221)  
[87] (WO2013/052996)  
[30] AU (2011904211) 2011-10-11

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[11] **2,851,888**  
[13] C  
[51] **Int.Cl. H04N 21/435 (2011.01) H04N 21/472 (2011.01) H04N 21/488 (2011.01) H04N 21/643 (2011.01)**  
[25] EN  
[54] **METHOD OF PROCESSING NON-REAL TIME SERVICE AND BROADCAST RECEIVER**  
[54] **PROCEDE DE TRAITEMENT DE SERVICE SANS CONTRAINTE TEMPS REEL ET RECEPTEUR DE DIFFUSION**  
[72] SUH, JONG YEUL, KR  
[73] LG ELECTRONICS INC.,  
[86] (2851888)  
[87] (2851888)  
[22] 2011-03-29  
[62] 2,794,399  
[30] US (61/318,385) 2010-03-29  
[30] US (61/334,590) 2010-05-14

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[11] **2,852,309**  
[13] C  
[51] **Int.Cl. C10L 1/02 (2006.01) C10L 1/185 (2006.01)**  
[25] EN  
[54] **DISTILLATE FUEL WITH IMPROVED SEAL SWELL PROPERTIES**  
[54] **MAZOUT LEGER AYANT DES PROPRIETES AMELIOREES DE CONFLEMENT DES JOINTS**  
[72] WOOLARD, CHRISTOPHER, ZA  
[73] SASOL TECHNOLOGY (PTY) LTD,  
[85] 2014-04-14  
[86] 2012-10-17 (PCT/ZA2012/000071)  
[87] (WO2013/059842)  
[30] ZA (2011/07576) 2011-10-17

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[11] **2,852,575**  
[13] C  
[51] **Int.Cl. A01D 57/02 (2006.01)**  
[25] EN  
[54] **HARVESTING CAM REEL WITH CONVERTIBLE TRANSPORT MODE**  
[54] **BOBINE DE CAME DE RECOLTE COMPORTANT UN MODE DE TRANSPORT CONVERTIBLE**  
[72] HONEY, GREGORY, CA  
[72] HONEY, GLENN, CA  
[73] HONEY BEE MANUFACTURING LTD.,  
[86] (2852575)  
[87] (2852575)  
[22] 2014-05-21

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[11] **2,852,817**  
[13] C  
[51] **Int.Cl. B01D 53/86 (2006.01) B01J 21/18 (2006.01)**  
[25] EN  
[54] **METHOD FOR THE CATALYTIC REMOVAL OF CARBON DIOXIDE AND NOX FROM WASTE GASES**  
[54] **PROCEDE POUR L'ELIMINATION CATALYTIQUE DE DIOXYDE DE CARBONE ET DE NOX DE D'EFFLUENTS GAZEUX**  
[72] STRICKROTH, ALAIN, LU  
[73] CPPE CARBON PROCESS & PLANT ENGINEERING S.A.,  
[85] 2014-04-17  
[86] 2012-11-09 (PCT/EP2012/072286)  
[87] (WO2013/072257)  
[30] LU (91 900) 2011-11-14

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[11] **2,853,327**  
[13] C  
[51] **Int.Cl. A61C 8/00 (2006.01)**  
[25] EN  
[54] **DENTAL REPLACEMENT MOUNTING SYSTEMS**  
[54] **SYSTEME DE MONTAGE D'UN REMPLACEMENT DENTAIRE**  
[72] SIEGMUND, ERIK, CA  
[73] PREFERRED DENTAL IMPLANT CORP.,  
[85] 2014-04-24  
[86] 2012-10-25 (PCT/CA2012/050760)  
[87] (WO2013/059939)  
[30] US (61/551,635) 2011-10-26

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[11] **2,853,474**  
[13] C  
[51] **Int.Cl. H04R 1/10 (2006.01) H02G 11/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR THE PROTECTION AND STORAGE OF SMALL ELECTRONIC COMPONENTS**  
[54] **SYSTEME ET PROCEDE DE PROTECTION ET DE STOCKAGE DE PETITS COMPOSANTS ELECTRONIQUES**  
[72] ABFALL, TONY, US  
[72] ABFALL, ELISABETH, US  
[72] ANDERSON, COLLIN, US  
[73] DIGITAL INNOVATIONS, LLC,  
[85] 2014-04-24  
[86] 2012-10-22 (PCT/US2012/061358)  
[87] (WO2013/062917)  
[30] US (61/550,963) 2011-10-25

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[11] **2,854,610**  
[13] C

[51] **Int.Cl. B01J 37/16 (2006.01) B01J 27/24 (2006.01) B01J 29/08 (2006.01) B01J 37/04 (2006.01)**

[25] EN

[54] **PHOSPHORUS MODIFIED CRACKING CATALYSTS WITH ENHANCED ACTIVITY AND HYDROTHERMAL STABILITY**

[54] **CATALYSEURS DE CRAQUAGE MODIFIES PAR DU PHOSPHORE AYANT UNE ACTIVITE ET UNE STABILITE HYDROTHERMIQUE AMELIOREES**

[72] KELKAR, CHANDRASHEKHAR PANDURANG, US

[72] FU, QI, US

[72] SMITH, GARY, US

[72] YILMAZ, BILGE, US

[73] BASF CORPORATION,

[85] 2014-05-05

[86] 2012-11-05 (PCT/US2012/063526)

[87] (WO2013/067481)

[30] US (61/555,637) 2011-11-04

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[11] **2,855,259**  
[13] C

[51] **Int.Cl. A61J 1/20 (2006.01)**

[25] FR

[54] **DEVICE FOR INTERFACING A FLUID INJECTION INSTRUMENT WITH A PUNCTURABLE FLASK AND METHOD FOR USE THEREOF**

[54] **DISPOSITIF D'INTERFACAGE D'UN INSTRUMENT D'INJECTION DE FLUIDE ET D'UN FLACON A PERFORER ET PROCEDE D'UTILISATION ASSOCIE**

[72] ALGRAIN, ISABELLE, FR

[72] CARREZ, JEAN-LUC, FR

[72] COUSSEGAL, JEAN-LOUIS, FR

[72] GUYOMARC'H, PIERRICK, FR

[72] PECH, MARIE-HELENE, FR

[72] LESTOQUOY, PATRICK, FR

[73] VYGON,

[85] 2014-05-08

[86] 2012-11-15 (PCT/EP2012/072743)

[87] (WO2013/072421)

[30] FR (1160397) 2011-11-15

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[11] **2,855,360**  
[13] C

[51] **Int.Cl. H01M 10/42 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **BATTERY CAPABLE OF WITHSTANDING THE EFFECTS OF LIQUID SUBMERSION**

[54] **BATTERIE CAPABLE DE SUPPORTER LES EFFETS DE L'IMMERSION DANS UN LIQUIDE**

[72] WOODS, PHILIP R., US

[73] STRYKER CORPORATION,

[85] 2014-05-09

[86] 2012-11-13 (PCT/US2012/064764)

[87] (WO2013/074485)

[30] US (61/561,126) 2011-11-17

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[11] **2,855,819**  
[13] C

[51] **Int.Cl. G06T 1/20 (2006.01)**

[25] EN

[54] **GRAPHICS PROCESSING APPARATUS, DISPLAY APPARATUS FOR AN AIRCRAFT COCKPIT, AND METHOD FOR DISPLAYING GRAPHICAL DATA**

[54] **DISPOSITIF DE TRAITEMENT GRAPHIQUE, DISPOSITIF D'AFFICHAGE POUR UN COCKPIT D'AVION, AINSI QUE PROCEDE D'AFFICHAGE DE DONNEES GRAPHIQUES**

[72] RETTIG, SVEN, DE

[72] HOSEMANN, THOMAS, DE

[73] DIEHL AEROSPACE GMBH,

[85] 2014-05-13

[86] 2012-11-06 (PCT/EP2012/004620)

[87] (WO2013/072027)

[30] DE (10 2011 119 004.3) 2011-11-19

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[11] **2,855,854**  
[13] C

[51] **Int.Cl. A61K 31/195 (2006.01) A61K 31/13 (2006.01) A61K 31/19 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **L-SERINE COMPOSITIONS, METHODS AND USES FOR TREATING NEURODEGENERATIVE DISEASES AND DISORDERS**

[54] **COMPOSITIONS DE L-SERINE, METHODES ET UTILISATIONS POUR LE TRAITEMENT DE MALADIES ET DE TROUBLES NEURODEGENERATIFS**

[72] RODGERS, KENNETH, AU

[72] DUNLOP, RACHAEL, AU

[72] COX, PAUL A., US

[73] THE INSTITUTE FOR ETHNOMEDICINE,

[85] 2014-05-13

[86] 2012-11-21 (PCT/US2012/066373)

[87] (WO2013/078395)

[30] US (61/562,194) 2011-11-21

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[11] **2,855,866**  
[13] C

[51] **Int.Cl. A47B 96/02 (2006.01) A47B 45/00 (2006.01) A47F 5/00 (2006.01)**

[25] EN

[54] **SHELF EXTENDER**

[54] **PROLONGATEUR D'ETAGERE**

[72] MISENER, AARON, US

[72] TAYLOR, CURTIS, US

[73] SOCIETE DES PRODUITS NESTLE S.A.,

[86] (2855866)

[87] (2855866)

[22] 2014-07-03

[30] US (61/843,587) 2013-07-08

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[11] **2,855,876**  
[13] C

[51] **Int.Cl. C08L 23/04 (2006.01)**  
[25] EN  
[54] **LOW DENSITY POLYETHYLENE AND METALLOCENE-CATALYZED LINEAR LOW DENSITY POLYETHYLENE BLEND**  
[54] **POLYETHYLENE FAIBLE DENSITE ET MELANGE DE POLYETHYLENE FAIBLE DENSITE LINEAIRE CATALYSE PAR METALLOCENE**  
[72] LANDRY, DARRELL W., JR., US  
[72] FREY, KELLY R., US  
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP,  
[85] 2014-05-14  
[86] 2012-10-30 (PCT/US2012/062588)  
[87] (WO2013/074287)  
[30] US (61/560,519) 2011-11-16

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[11] **2,856,654**  
[13] C

[51] **Int.Cl. C07D 307/52 (2006.01) A61K 31/4178 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61P 25/08 (2006.01) A61P 25/18 (2006.01) A61P 27/16 (2006.01) A61P 43/00 (2006.01) C07D 307/79 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01)**  
[25] EN  
[54] **HYDANTOIN DERIVATIVES USEFUL AS KV3 INHIBITORS**  
[54] **DERIVES D'HYDANTOINE UTILES COMME INHIBITEURS DE KV3**  
[72] ALVARO, GIUSEPPE, IT  
[72] MARASCO, AGOSTINO, IT  
[73] AUTIFONY THERAPEUTICS LIMITED,  
[85] 2014-05-22  
[86] 2012-12-06 (PCT/GB2012/053045)  
[87] (WO2013/083994)  
[30] GB (PCT/GB2011/052414) 2011-12-06

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[11] **2,856,786**  
[13] C

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 43/40 (2006.01) A01N 43/56 (2006.01)**  
[25] EN  
[54] **EMULSIFIABLE CONCENTRATE COMPRISING A PESTICIDE, AN AMIDE, A CARBONATE, A HYDROCARBON SOLVENT AND A NONIONIC SURFACTANT**  
[54] **CONCENTRE EMULSIFIABLE RENFERMANT UN PESTICIDE, UN AMIDE, UN CARBONATE, UN SOLVANT D'HYDROCARBURE ET UN SURFACTANT NONIONIQUE**  
[72] DIELEMAN, CEDRIC, FR  
[72] MAYER, WINFRIED, DE  
[72] JAKOB, JURGEN, DE  
[72] RIEDIGER, NADINE, DE  
[73] BASF SE,  
[85] 2014-05-23  
[86] 2012-11-29 (PCT/EP2012/073935)  
[87] (WO2013/087416)  
[30] US (61/570320) 2011-12-14  
[30] EP (11193531.8) 2011-12-14  
[30] EP (12154847.3) 2012-02-10

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[11] **2,857,417**  
[13] C

[51] **Int.Cl. C09D 17/00 (2006.01)**  
[25] EN  
[54] **SOLVENTBORNE PIGMENT PASTES COMPRISING METALLIC PIGMENTS AND USE THEREOF FOR PRODUCING SOLVENTBORNE EFFECT COATING MATERIALS**  
[54] **PATES PIGMENTAIRES CONTENANT DES PIGMENTS METALLIQUES, EN MILIEU SOLVANT, ET LEUR UTILISATION POUR LA PRODUCTION DE SUBSTANCES DE REVETEMENT A EFFET EN MILIEU SOLVANT**  
[72] LAVALAYE, JORN, DE  
[72] KUNSZT, CARMEN, DE  
[72] LOW, NORBERT, DE  
[73] BASF COATINGS GMBH,  
[85] 2014-05-29  
[86] 2013-03-14 (PCT/EP2013/055269)  
[87] (WO2013/135831)  
[30] US (61/610,491) 2012-03-14  
[30] EP (12159408.9) 2012-03-14

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[11] **2,857,490**  
[13] C

[51] **Int.Cl. C07F 9/6561 (2006.01) A61K 31/675 (2006.01) A61K 31/683 (2006.01) A61K 31/685 (2006.01) A61K 31/688 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 35/04 (2006.01)**  
[25] EN  
[54] **GUANINE ANALOGS AS TELOMERASE SUBSTRATES AND TELOMERE LENGTH AFFECTORS**  
[54] **ANALOGUES DE GUANINE EN TANT QUE SUBSTRATS DE TELOMERASE ET AFFECTEURS DE LA LONGUEUR DE TELOMERES**  
[72] GRYAZNOV, SERGEI M., US  
[72] PRUZAN, RONALD A., US  
[72] PONGRACZ, KRISZTINA, US  
[73] GERON CORPORATION,  
[85] 2014-05-29  
[86] 2012-12-21 (PCT/US2012/000586)  
[87] (WO2013/095684)  
[30] US (61/579,575) 2011-12-22

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[11] **2,857,949**  
[13] C

[51] **Int.Cl. F03B 17/06 (2006.01) F03B 13/26 (2006.01)**  
[25] EN  
[54] **TETHER FOR SUBMERGED MOVING VEHICLE**  
[54] **AMARRE POUR VEHICULE IMMERGE EN MOUVEMENT**  
[72] QUAPPEN, ARNE, SE  
[72] MARZELIUS, OLOF, SE  
[73] MINESTO AB,  
[85] 2014-06-02  
[86] 2012-12-21 (PCT/SE2012/051473)  
[87] (WO2013/100849)  
[30] EP (11195789.0) 2011-12-27

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[11] **2,858,459**  
[13] C

[51] **Int.Cl. H01J 49/06 (2006.01) H01J 49/10 (2006.01)**  
[25] EN  
[54] **MASS SPECTROMETER VACUUM INTERFACE METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL POUR INTERFACE A VIDE DE SPECTROMETRE DE MASSE**  
[72] MAKAROV, ALEXANDER ALEKSEEVICH, DE  
[72] ROTTMANN, LOTHAR, DE  
[73] THERMO FISHER SCIENTIFIC (BREMEN) GMBH,  
[85] 2014-06-06  
[86] 2012-12-12 (PCT/EP2012/075302)  
[87] (WO2013/087732)  
[30] GB (1121291.7) 2011-12-12

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[11] **2,858,614**  
[13] C

[51] **Int.Cl. B65D 51/16 (2006.01)**  
[25] EN  
[54] **CONTAINER CLOSURE HAVING A VACUUM RELEASER**  
[54] **FERMETURE DE RECIPIENT AYANT UN DISPOSITIF DE LIBERATION DE VIDE**  
[72] GRANT, EDWARD A., US  
[73] OWENS-BROCKWAY GLASS CONTAINER INC.,  
[85] 2014-06-06  
[86] 2013-03-20 (PCT/US2013/033033)  
[87] (WO2013/172982)  
[30] US (13/471,715) 2012-05-15

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[11] **2,858,647**  
[13] C

[51] **Int.Cl. C07D 239/22 (2006.01) A61K 31/506 (2006.01) A61K 31/527 (2006.01) A61P 31/20 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 417/04 (2006.01) C07D 471/10 (2006.01) C07D 491/107 (2006.01)**  
[25] EN  
[54] **4,4-DISUBSTITUTED-1,4-DIHYDROPYRIMIDINES AND THE USE THEREOF AS MEDICAMENTS FOR THE TREATMENT OF HEPATITIS B.**  
[54] **1,4-DIHYDROPYRIMIDINES 4,4-DISUBSTITUEES ET LEUR UTILISATION EN TANT QUE MEDICAMENTS POUR LE TRAITEMENT DE L'HEPATITE B.**  
[72] VANDYCK, KOEN, BE  
[72] HACHE, GEERWIN YVONNE PAUL, BE

[72] ROMBOUTS, GEERT, BE  
[72] VERSCHUEREN, WIM GASTON, BE  
[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, BE  
[73] JANSSEN SCIENCES IRELAND UC,  
[85] 2014-06-09  
[86] 2013-01-04 (PCT/EP2013/050095)  
[87] (WO2013/102655)  
[30] EP (12150384.1) 2012-01-06  
[30] EP (12167065.7) 2012-05-08

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[11] **2,858,750**  
[13] C

[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/588 (2006.01)**  
[25] EN  
[54] **PROCESS FOR THE ENHANCED RECOVERY OF OIL BY INJECTION OF A POLYMER SOLUTION**  
[54] **PROCEDE POUR UNE MEILLEURE RECUPERATION DE PETROLE PAR INJECTION D'UNE SOLUTION POLYMERE**  
[72] FAVERO, CEDRICK, FR  
[72] DARRAS, SYLVAIN, FR  
[72] GIOVANNETTI, BRUNO, FR  
[73] S.P.C.M. SA,  
[85] 2014-06-09  
[86] 2013-01-14 (PCT/IB2013/050350)  
[87] (WO2013/108174)  
[30] FR (1250585) 2012-01-20

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[11] **2,858,928**  
[13] C

[51] **Int.Cl. B65D 83/20 (2006.01) B65D 83/22 (2006.01)**  
[25] EN  
[54] **SPRAYHEAD FOR A SPRAY DEVICE**  
[54] **TETE DE PULVERISATION POUR DISPOSITIF DE PULVERISATION**  
[72] ARORA, AMIT, GB  
[72] BETTS, KASSIE TERRA-LYNN, GB  
[72] BILTON, SIMON LEWIS, GB  
[72] BUTLER, JOSEPH, GB  
[72] JONES, CHRISTOPHER JOHN, GB  
[72] KOUYOUJIAN, GAREN, GB  
[73] NILEVER PLC,  
[85] 2014-06-11  
[86] 2012-12-06 (PCT/EP2012/074609)  
[87] (WO2013/092230)  
[30] EP (11195091.1) 2011-12-22  
[30] EP (12164862.0) 2012-04-20

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[11] **2,858,997**  
[13] C

[51] **Int.Cl. A61M 11/02 (2006.01) A61M 15/00 (2006.01) A61M 15/08 (2006.01) B05B 11/06 (2006.01)**  
[25] EN  
[54] **MEDICAMENT UNIT DOSE CARTRIDGE AND DELIVERY DEVICE**  
[54] **CARTOUCHE DE DOSE UNITAIRE DE MEDICAMENT ET DISPOSITIF D'ADMINISTRATION**  
[72] BOYES, ROBERT NICHOL, GB  
[72] BRAITHWAITE, PHILIP WILSON, GB  
[73] INDOSYS LIMITED,  
[85] 2014-06-11  
[86] 2012-12-14 (PCT/GB2012/000907)  
[87] (WO2013/088112)  
[30] GB (1121683.5) 2011-12-16  
[30] GB (1208854.8) 2012-05-18

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[11] **2,859,163**  
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01) H04L 9/00 (2006.01) H04L 12/28 (2006.01)**  
[25] EN  
[54] **CONTENT DELIVERY NETWORK**  
[54] **RESEAU DE DELIVRANCE DE CONTENU**  
[72] NEWTON, CHRISTOPHER, US  
[72] LIPSTONE, LAURENCE, US  
[72] CROWDER, WILLIAM, US  
[72] KOLLER, JEFFREY G., US  
[72] FULLAGAR, DAVID, US  
[72] YEV MENKIN, MAKSIM, US  
[73] LEVEL 3 COMMUNICATIONS, LLC,  
[85] 2014-06-12  
[86] 2012-12-14 (PCT/US2012/069712)  
[87] (WO2013/090699)  
[30] US (61/570,448) 2011-12-14  
[30] US (61/570,486) 2011-12-14

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[11] **2,859,525**  
[13] C

[51] **Int.Cl. G06F 9/44 (2018.01) G06F 9/451 (2018.01) G06F 3/14 (2006.01)**  
[25] EN  
[54] **METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR USING AN INTERMEDIATION FUNCTION**  
[54] **METHODE, SYSTEME ET PRODUIT DE PROGRAMME INFORMATIQUE DESTINES A L'UTILISATION D'UNE FONCTION INTERMEDIAIRE**  
[72] HOUDE, ANDRE, CA  
[73] DELOITTE IT INC.,  
[86] (2859525)  
[87] (2859525)  
[22] 2014-08-15

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[11] **2,859,586**  
[13] C

[51] **Int.Cl. C07C 311/21 (2006.01) A61K 31/24 (2006.01) A61K 31/343 (2006.01) A61K 31/381 (2006.01) A61K 31/4025 (2006.01) A61K 31/4178 (2006.01) A61K 31/433 (2006.01) A61K 31/44 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07C 311/13 (2006.01) C07C 311/27 (2006.01) C07C 311/29 (2006.01) C07C 311/39 (2006.01) C07C 311/46 (2006.01) C07D 213/70 (2006.01) C07D 307/64 (2006.01) C07D 307/82 (2006.01) C07D 333/34 (2006.01) C07D 333/62 (2006.01) C07D 409/10 (2006.01)**  
[25] EN  
[54] **BISARYLSULFONAMIDES USEFUL IN THE TREATMENT OF INFLAMMATION AND CANCER**  
[54] **BISARYLSULFONAMIDES UTILES DANS LE TRAITEMENT D'INFLAMMATIONS ET DE CANCER**  
[72] MARTINSSON, JESSICA, SE  
[72] FARNEGARDH, KATARINA, SE  
[72] JONSSON, MATTIAS, SE  
[72] RINGOM, RUNE, SE  
[73] KANCERA AB,  
[85] 2014-06-17  
[86] 2012-12-21 (PCT/EP2012/076836)  
[87] (WO2013/093095)  
[30] US (61/579,360) 2011-12-22  
[30] EP (11195456.6) 2011-12-22  
[30] EP (11195962.3) 2011-12-28

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[11] **2,861,878**  
[13] C

[51] **Int.Cl. H01R 13/70 (2006.01) G08B 5/22 (2006.01) G08B 21/00 (2006.01)**  
[25] EN  
[54] **TRACEABLE CABLES**  
[54] **CABLES IDENTIFIABLES**  
[72] SCHERER, CHRISTOPHER B., US  
[72] SHOLTIS, JON, US  
[73] MERTEK INDUSTRIES, LLC,  
[73] SCHERER, CHRISTOPHER B.,  
[73] SHOLTIS, JON,  
[85] 2014-07-17  
[86] 2012-10-25 (PCT/US2012/061967)  
[87] (WO2013/063300)  
[30] US (61/553,010) 2011-10-28

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[11] **2,861,965**  
[13] C

[51] **Int.Cl. H04L 12/46 (2006.01) H04L 12/751 (2013.01)**  
[25] EN  
[54] **IMPROVED SHORTEST PATH BRIDGING IN A MULTI-AREA NETWORK**  
[54] **« SHORTEST PATH BRIDGING » AMELIORE DANS UN RESEAU MULTIZONE**  
[72] ALLAN, DAVID IAN, US  
[72] FARKAS, JANOS, HU  
[72] SALTSIDIS, PANAGIOTIS, SE  
[72] JULIEN, MARTIN, SE  
[73] TELEFONAKTIEBOLAGET L M ERICSSON (PUBL),  
[85] 2014-07-18  
[86] 2013-01-10 (PCT/IB2013/050240)  
[87] (WO2013/114229)  
[30] US (61/592,388) 2012-01-30  
[30] US (13/442,139) 2012-04-09

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[11] **2,862,337**  
[13] C

[51] **Int.Cl. B01J 13/00 (2006.01)**  
[25] EN  
[54] **IMPROVED METHOD FOR PRODUCTION OF STABLE CERIUM OXIDE ORGANIC COLLOIDS**  
[54] **PROCEDE PERFECTIONNE POUR LA PRODUCTION DE COLLOIDES ORGANIQUES D'OXYDE DE CERIUM STABLES**  
[72] PROK, GARY ROBERT, US  
[72] WILLIAMS, STEPHEN CHARLES, US  
[73] CERION LLC,  
[85] 2014-07-22  
[86] 2013-01-30 (PCT/US2013/023790)  
[87] (WO2013/116300)  
[30] US (61/632,778) 2012-01-30

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[11] **2,862,868**  
[13] C

[51] **Int.Cl. G01B 21/28 (2006.01) G06Q 50/08 (2012.01) G01B 11/28 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ESTIMATION OF BUILDING FLOOR AREA**  
[54] **SYSTEMES ET PROCEDES D'ESTIMATION DE SURFACE D'ETAGE D'IMMEUBLE**  
[72] PERSHING, CHRIS, US  
[73] EAGLE VIEW TECHNOLOGIES, INC.,  
[85] 2014-07-25  
[86] 2013-02-01 (PCT/US2013/024522)  
[87] (WO2013/116793)  
[30] US (61/594,964) 2012-02-03  
[30] US (61/594,956) 2012-02-03  
[30] US (PCT/US2013/023503) 2013-01-28  
[30] US (PCT/US2013/023502) 2013-01-28

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[11] **2,862,978**  
[13] C

[51] **Int.Cl. F16B 45/02 (2006.01)**  
[25] EN  
[54] **SNAP HOOK**  
[54] **MOUSQUETON**  
[72] PERNER, JUDD J., US  
[73] D B INDUSTRIES, LLC,  
[85] 2014-07-25  
[86] 2013-02-28 (PCT/US2013/028142)  
[87] (WO2013/130697)  
[30] US (61/604,141) 2012-02-28  
[30] US (13/777,287) 2013-02-26

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[11] **2,863,057**  
[13] C

[51] **Int.Cl. C07C 213/04 (2006.01) C07C 215/40 (2006.01)**  
[25] EN  
[54] **PROCESS FOR PREPARING CHOLINE HYDROXIDE FROM TRIMETHYLAMINE AND ETHYLENE OXIDE**  
[54] **PROCEDE DE PREPARATION D'HYDROXYDE DE CHOLINE A PARTIR DE TRIMETHYLAMINE ET D'OXYDE D'ETHYLENE**  
[72] LI, RUOKANG, US  
[72] DIXIT, RAVINDRA S., US  
[72] PATEL, AVANI M., US  
[72] CHEN, XIAOYUN, US  
[72] PELL, RANDY J., US  
[72] PENDERGAST, JOHN G., US  
[73] DOW AGROSCIENCES LLC,  
[85] 2014-07-08  
[86] 2013-01-17 (PCT/US2013/021864)  
[87] (WO2013/109705)  
[30] US (61/588,234) 2012-01-19  
[30] US (61/720,711) 2012-10-31

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[11] **2,863,782**  
[13] C

[51] **Int.Cl. B60C 29/02 (2006.01) B60C 23/10 (2006.01) B60S 5/04 (2006.01)**  
[25] EN  
[54] **CENTRAL TIRE INFLATION SYSTEM ROTARY AIR UNION**  
[54] **RACCORD A AIR ROTATIF DE SYSTEME DE GONFLAGE DE PNEU CENTRAL**  
[72] NELSON, CHRISTOPHER A., US  
[72] LECLAIRE, JAMES, US  
[72] GOLD, MARK, US  
[73] PURSUIT LLP,  
[73] STEMCO PRODUCTS, INC.,  
[85] 2014-08-05  
[86] 2013-02-06 (PCT/US2013/024898)  
[87] (WO2013/119634)  
[30] US (61/595,581) 2012-02-06  
[30] US (13/759,758) 2013-02-05

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[11] **2,863,825**  
[13] C

[51] **Int.Cl. B67D 7/02 (2010.01) A23G 9/28 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DISPENSING FROZEN CONFECTIONS**  
[54] **PROCEDE ET APPAREIL DESTINE A DISTRIBUER DES CONFISERIES GLACEES**  
[72] D'AGOSTINO, TOMMASO, GB  
[73] UNILEVER PLC,  
[85] 2014-08-06  
[86] 2013-02-13 (PCT/EP2013/052875)  
[87] (WO2013/124193)  
[30] EP (12156786.1) 2012-02-24

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[11] **2,864,164**  
[13] C

[51] **Int.Cl. B01F 17/00 (2006.01) A01N 25/30 (2006.01) A61K 8/06 (2006.01) A61K 8/37 (2006.01) A61Q 5/02 (2006.01) A61Q 19/10 (2006.01) C11D 1/00 (2006.01)**  
[25] EN  
[54] **STRUCTURED SURFACTANT SUSPENDING SYSTEMS**  
[54] **SYSTEMES DE TENSIOACTIFS STRUCTURES AYANT LA CAPACITE DE MISE EN SUSPENSION**  
[72] HAWKINS, JOHN, FR  
[72] PACE, EMILIE, FR  
[72] LEBERT, LAETITIA, FR  
[73] STEPAN COMPANY,  
[85] 2014-08-08  
[86] 2013-02-08 (PCT/US2013/025282)  
[87] (WO2013/119908)  
[30] GB (1202333.9) 2012-02-10

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[11] **2,864,499**  
[13] C

[51] **Int.Cl. C07D 473/32 (2006.01) A61K 31/52 (2006.01) A61P 3/00 (2006.01) A61P 29/00 (2006.01) C07D 401/04 (2006.01)**

[25] EN

[54] **PERIPHERALLY RESTRICTED DIPHENYL PURINE DERIVATIVES**

[54] **DERIVES DE DIPHENYLE PURINE RESTREINTS DE MANIERE PERIPHERIQUE**

[72] MAITRA, RANGAN, US  
[72] FULP, ALAN BRADLEY, US  
[72] ZHANG, YANAN, US  
[72] SELTZMAN, HERBERT H., US  
[73] RESEARCH TRIANGLE INSTITUTE,  
[85] 2014-08-13  
[86] 2013-02-15 (PCT/US2013/026359)  
[87] (WO2013/123335)  
[30] US (61/600,229) 2012-02-17  
[30] US (61/699,523) 2012-09-11

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[11] **2,864,739**  
[13] C

[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 50/06 (2012.01) H02J 13/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR FORECASTING POWER REQUIREMENTS USING GRANULAR METRICS**

[54] **PROCEDE ET SYSTEME DE PREVISION DES BESOINS EN ENERGIE A L'AIDE DE MESURES GRANULAIRES**

[72] HAGHIGHAT-KASHANI, ALI, CA  
[72] CHEAM, JANICE TZE-NEE, CA  
[72] HALLAM, JONATHAN MARK, CA  
[72] GUO, ZHENYU, CA  
[73] GENERAC POWER SYSTEMS, INC.,  
[85] 2014-08-15  
[86] 2012-11-29 (PCT/CA2012/001097)  
[87] (WO2013/078541)  
[30] US (61/564,839) 2011-11-29

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[11] **2,865,524**  
[13] C

[51] **Int.Cl. B65B 61/18 (2006.01) B65D 75/56 (2006.01) B65D 75/58 (2006.01)**

[25] EN

[54] **STACKABLE BAG PACKAGING**

[54] **SACHET D'EMBALLAGE EMPILABLE**

[72] KRUMME, MARKUS, DE  
[73] LTS LOHMANN THERAPIE-SYSTEME AG,  
[85] 2014-08-25  
[86] 2013-02-28 (PCT/EP2013/000586)  
[87] (WO2013/127532)  
[30] EP (12001335.4) 2012-02-29

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[11] **2,866,367**  
[13] C

[51] **Int.Cl. E21B 37/00 (2006.01) E21B 33/13 (2006.01)**

[25] EN

[54] **A METHOD FOR COMBINED CLEANING AND PLUGGING IN A WELL AND A FLUSHING TOOL FOR FLUSHING IN A WELL**

[54] **PROCEDE DE NETTOYAGE ET OBTURATION COMBINES DANS UN Puits ET OUTIL DE RINCAGE POUR RINCAGE DANS UN Puits**

[72] LARSEN, ARNE GUNNAR, NO  
[72] ANDERSEN, PATRICK, NO  
[72] JENSEN, ROY INGE, NO  
[72] DAHL, ARNT OLAV, NO  
[72] MYHRE, MORTEN, NO  
[73] HYDRA SYSTEMS AS,  
[85] 2014-09-04  
[86] 2013-03-06 (PCT/NO2013/050045)  
[87] (WO2013/133719)  
[30] NO (20120277) 2012-03-09  
[30] US (61/608,761) 2012-03-09

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[11] **2,866,583**  
[13] C

[51] **Int.Cl. A01H 6/34 (2018.01) A23L 19/00 (2016.01) C12Q 1/6895 (2018.01) A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01)**

[25] EN

[54] **CUCUMBER WITH INCREASED NUMBER OF FRUITS**

[54] **CONCOMBRE AVEC UN NOMBRE DE FRUITS ACCRU**

[72] HAARING, CORNELIS, NL  
[73] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V.,  
[85] 2014-09-08  
[86] 2013-03-08 (PCT/EP2013/054787)  
[87] (WO2013/132084)  
[30] EP (12158714.1) 2012-03-09

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[11] **2,866,786**  
[13] C

[51] **Int.Cl. C23C 18/22 (2006.01)**

[25] EN

[54] **PROCESS FOR METALLIZING NONCONDUCTIVE PLASTIC SURFACES**

[54] **PROCEDE POUR LA METALLISATION DE SURFACES PLASTIQUES NON CONDUCTRICES**

[72] MIDDEKE, HERMANN, DE  
[72] KUHMEISER, ENRICO, DE  
[72] SCHNEIDER, STEVE, DE  
[73] ATOTECH DEUTSCHLAND GMBH,  
[85] 2014-09-09  
[86] 2013-03-15 (PCT/EP2013/055358)  
[87] (WO2013/135864)  
[30] EP (12159654.8) 2012-03-15

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[11] **2,866,834**  
[13] C

[51] **Int.Cl. B66F 9/10 (2006.01)**

[25] EN

[54] **ORDER PICKERS**

[54] **PREPARATEURS DE COMMANDE**

[72] OVERFIELD, PAUL DAVID, GB  
[72] BROWN, SIMON MARK, GB  
[73] LANDOLL ACQUISITION LLC,  
[85] 2014-09-09  
[86] 2013-03-08 (PCT/GB2013/000099)  
[87] (WO2013/136036)  
[30] GB (1204387.3) 2012-03-12

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[11] **2,866,856**  
[13] C

[51] **Int.Cl. C08L 67/06 (2006.01) C08G 63/52 (2006.01) C08G 63/78 (2006.01) C08J 9/00 (2006.01) C08L 75/14 (2006.01)**

[25] EN

[54] **POLYESTER POLYOLS CONTAINING DIELS-ALDER OR ENE ADDUCTS**

[54] **POLYESTER POLYOLS CONTENANT DES PRODUITS D'ADDITION DE DIELS-ALDER OU ENE**

[72] TABOR, RICK, US

[72] YAO, CHUNHUA, US

[72] GUO, ANDREW, US

[72] LAMBERT, TIMOTHY L., US

[72] NORBERG, DAVID J., US

[73] STEPAN COMPANY,

[85] 2014-07-11

[86] 2013-01-18 (PCT/US2013/022068)

[87] (WO2013/109834)

[30] US (61/587,778) 2012-01-18

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[11] **2,867,057**  
[13] C

[51] **Int.Cl. C07H 7/04 (2006.01) A61K 31/7034 (2006.01) A61P 3/10 (2006.01) C07C 39/15 (2006.01) C07C 41/16 (2006.01) C07C 43/225 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARATION OF BENZYL BENZENE SODIUM-DEPENDENT GLUCOSE COTRANSPORTER 2 (SGLT2) INHIBITORS**

[54] **PROCEDE DE PREPARATION D'INHIBITEURS DU COTRANSPORTEUR DE GLUCOSE 2 DEPENDANT DU BENZYL BENZENE SODIUM (SGLT2)**

[72] XU, BAIHUA, US

[72] LV, BINHUA, CN

[72] XU, GE, CN

[72] SEED, BRIAN, US

[72] ROBERGE, JACQUES, US

[73] THERACOS SUB, LLC,

[85] 2014-09-11

[86] 2013-03-14 (PCT/CN2013/072642)

[87] (WO2013/152654)

[30] CN (PCT/CN2012/073697) 2012-04-10

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[11] **2,867,772**  
[13] C

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 17/00 (2006.01) A61M 25/00 (2006.01) F16L 1/00 (2006.01)**

[25] EN

[54] **INTEGRATED ENDOSCOPE IRRIGATION**

[54] **IRRIGATION D'UN ENDOSCOPE INTEGRE**

[72] GOVRIN, AMIR, IL

[72] DLUGACH, YEKATERINA, IL

[72] KOLATT, TSAFRIR, IL

[73] MEDIGUS LTD.,

[85] 2014-09-18

[86] 2013-02-28 (PCT/IL2013/050170)

[87] (WO2013/144944)

[30] US (61/616,097) 2012-03-27

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[11] **2,868,070**  
[13] C

[51] **Int.Cl. B32B 21/04 (2006.01) E04G 21/24 (2006.01)**

[25] EN

[54] **FLOOR COVER**

[54] **REVETEMENT DE PLANCHER**

[72] FARAH, NIZZAR, IL

[72] FARAH, HUSSAM, IL

[73] FARAH, NIZZAR,

[73] FARAH, HUSSAM,

[85] 2014-09-22

[86] 2013-03-04 (PCT/IL2013/050189)

[87] (WO2013/150515)

[30] IL (219008) 2012-04-03

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[11] **2,868,210**  
[13] C

[51] **Int.Cl. G01S 7/48 (2006.01) F41G 3/14 (2006.01) F41H 11/02 (2006.01) G01J 3/00 (2006.01) G01S 7/495 (2006.01) H01L 23/00 (2006.01)**

[25] EN

[54] **OPTICAL SENSOR ARRANGEMENT**

[54] **DISPOSITIF DE DETECTION OPTIQUE**

[72] BARTH, JOCHEN, DE

[72] ROTH, THOMAS, DE

[72] CZESLIK, CHRISTIAN, DE

[73] HENSOLDT SENSORS GMBH,

[85] 2014-09-23

[86] 2013-03-22 (PCT/DE2013/000161)

[87] (WO2013/156013)

[30] DE (10 2012 007 677.0) 2012-04-17

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[11] **2,868,390**  
[13] C

[51] **Int.Cl. A61K 31/7084 (2006.01) A61K 9/08 (2006.01) A61K 47/04 (2006.01) A61K 47/12 (2006.01) A61K 47/24 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **OPHTHALMIC SOLUTION COMPRISING DIQUAFOSOL**

[54] **GOUTTES OCULAIRES CONTENANT DU DIQUAFOSOL**

[72] SAKATANI, AKIKO, JP

[72] IKEI, TATSUO, JP

[72] INAGAKI, KOJI, JP

[72] NAKAMURA, MASATSUGU, JP

[72] HOSOI, KAZUHIRO, JP

[72] SAITO, MIKIKO, JP

[72] SONODA, MASAKI, JP

[72] FUKUI, YOKO, JP

[72] KUWANO, MITSUAKI, JP

[73] SANTEN PHARMACEUTICAL CO., LTD.,

[85] 2014-09-24

[86] 2013-03-25 (PCT/JP2013/058519)

[87] (WO2013/146649)

[30] JP (2012-069157) 2012-03-26

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[11] **2,868,616**  
[13] C

[51] **Int.Cl. A47L 9/24 (2006.01) A47L 5/38 (2006.01) A47L 9/00 (2006.01) B65H 75/34 (2006.01)**

[25] EN

[54] **VACUUM HOSE STORAGE SYSTEM**

[54] **SYSTEME DE RANGEMENT DE FLEXIBLE D'ASPIRATION**

[72] COESEL, REMCO, CA

[73] TIGER TOOL INTERNATIONAL INCORPORATED,

[85] 2014-09-26

[86] 2013-03-25 (PCT/CA2013/050245)

[87] (WO2013/142992)

[30] US (61/616,367) 2012-03-27

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[11] **2,868,819**  
[13] C

[51] **Int.Cl. A61M 16/06 (2006.01) A61B 5/00 (2006.01) A61M 16/00 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01)**

[25] EN

[54] **NASAL CANNULA WITH PRESSURE MONITORING AND PRESSURE RELIEF**

[54] **CANULE NASALE A SURVEILLANCE DE PRESSION ET A LIMITATION DE PRESSION**

[72] TERO, ROBERT, US

[73] TERO, ROBERT,

[85] 2014-09-26

[86] 2013-03-28 (PCT/US2013/034194)

[87] (WO2013/148901)

[30] US (61/617,010) 2012-03-28

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[11] **2,869,386**  
[13] C

[51] **Int.Cl. C08F 212/06 (2006.01) B60C 1/00 (2006.01) C08F 236/22 (2006.01) C08K 3/04 (2006.01) C08K 3/36 (2006.01) C08L 21/00 (2006.01) C08L 25/02 (2006.01)**

[25] EN

[54] **COPOLYMER, RUBBER COMPOSITION USING SAME, AND TIRE**

[54] **COPOLYMER, COMPOSITION DE CAOUTCHOUC METTANT EN ŒUVRE CELUI-CI, ET PNEUMATIQUE**

[72] KODA, DAISUKE, JP

[72] HIRATA, KEI, JP

[73] KURARAY CO., LTD.,

[73] AMYRIS, INC.,

[85] 2014-10-02

[86] 2013-04-02 (PCT/JP2013/060126)

[87] (WO2013/151067)

[30] JP (2012-085930) 2012-04-04

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[11] **2,869,909**  
[13] C

[51] **Int.Cl. F04B 43/06 (2006.01)**

[25] EN

[54] **AIR OPERATED DIAPHRAGM PUMP**

[54] **POMPE A MEMBRANE PNEUMATIQUE**

[72] VERDUGO, CHRISTOPHER H., US

[72] WRIGHT, PETER M., US

[72] JACKSON, JIMMIE L., JR., US

[73] FLOW CONTROL LLC.,

[85] 2014-10-07

[86] 2013-04-09 (PCT/US2013/035794)

[87] (WO2013/155079)

[30] US (61/621,738) 2012-04-09

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[11] **2,870,118**  
[13] C

[51] **Int.Cl. C08G 18/38 (2006.01) C08G 18/72 (2006.01) C08G 18/73 (2006.01) C08G 18/75 (2006.01) C08G 18/78 (2006.01) C08G 18/79 (2006.01) C08L 75/04 (2006.01) G02B 1/04 (2006.01)**

[25] EN

[54] **LIGHT RESISTANT POLYURETHANE COMPOSITIONS**

[54] **COMPOSITIONS POLYURETHANE PHOTOSTABLES**

[72] GRESZTA-FRANZ, DOROTA, DE

[72] KRAUSE, JENS, DE

[72] LAAS, HANS JOSEF, DE

[73] BAYER MATERIALSCIENCE AG,

[85] 2014-10-07

[86] 2013-04-22 (PCT/EP2013/058260)

[87] (WO2013/160227)

[30] EP (12165170.7) 2012-04-23

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[11] **2,870,231**  
[13] C

[51] **Int.Cl. B65D 55/02 (2006.01) B65B 1/04 (2006.01) B65D 25/38 (2006.01) B65D 41/32 (2006.01) B65D 47/34 (2006.01) B65D 47/36 (2006.01) B65D 53/00 (2006.01)**

[25] FR

[54] **DEVICE HAVING A MANUAL PUMP FOR PACKAGING AND DISPENSING FLUID PRODUCTS**

[54] **DISPOSITIF DE CONDITIONNEMENT ET DE DISTRIBUTION DE PRODUITS FLUIDES A POMPE MANUELLE**

[72] TABERLET, JEAN-PHILIPPE, FR

[72] PUVILAND, PATRICE, FR

[72] GUY, ALAIN, FR

[73] LABLABO,

[85] 2014-10-10

[86] 2013-04-23 (PCT/FR2013/050902)

[87] (WO2013/160608)

[30] FR (1253727) 2012-04-24

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[11] **2,870,956**  
[13] C

[51] **Int.Cl. C07D 235/10 (2006.01) A01N 43/52 (2006.01) A61K 31/4184 (2006.01) C07D 235/18 (2006.01) C07D 235/28 (2006.01)**

[25] EN

[54] **PARASITICIDAL COMPOSITIONS COMPRISING BENZIMIDAZOLE DERIVATIVES, METHODS AND USES THEREOF**

[54] **COMPOSITIONS PARASITICIDES COMPRENANT DES DERIVES DE BENZIMIDAZOLE, LEURS PROCEDES ET LEURS UTILISATIONS**

[72] MENG, CHARLES Q., US

[73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC.,

[85] 2014-10-17

[86] 2013-04-18 (PCT/US2013/037193)

[87] (WO2013/158894)

[30] US (61/635,961) 2012-04-20

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[11] **2,871,539**  
[13] C

[51] **Int.Cl. C10B 41/00 (2006.01) C10B 55/00 (2006.01) G05B 19/042 (2006.01)**

[25] EN

[54] **AUTOMATED BATCH CONTROL OF DELAYED COKER**

[54] **CONTROLE DE LOTS AUTOMATISE D'UNE UNITE DE COKEFACTION RETARDEE**

[72] LUCAS, RICHARD E., US

[73] BP CORPORATION NORTH AMERICA INC.,

[85] 2014-10-23

[86] 2013-05-09 (PCT/US2013/040258)

[87] (WO2013/169972)

[30] US (61/646,021) 2012-05-11

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[11] **2,871,819**  
[13] C

[51] **Int.Cl. C04B 24/02 (2006.01) C04B 24/12 (2006.01) C04B 24/18 (2006.01) C04B 24/38 (2006.01) C04B 28/02 (2006.01) C04B 28/04 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING A HYDRAULIC BONDING AGENT, CORRESPONDING ADDITIVE AND ITS USE**

[54] **PROCEDE DE PRODUCTION D'UN AGENT DE LIAISON HYDRAULIQUE, ADDITIF CORRESPONDANT ET SON UTILISATION**

[72] VIERLE, MARIO, DE

[72] ERNST, MARTIN, DE

[72] STEFAN, MADALINA ANDREEA, DE

[73] CONSTRUCTION RESEARCH & TECHNOLOGY GMBH,

[85] 2014-10-28

[86] 2013-04-22 (PCT/EP2013/058241)

[87] (WO2013/164213)

[30] EP (12166743.0) 2012-05-04

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[11] **2,872,144**  
[13] C

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

[25] EN

[54] **SHEATH PROTECTING A CANNULA, AND SAFETY SYRINGE COMPRISING SAID SHEATH**

[54] **GAINE PROTEGEANT UNE CANULE, ET SERINGUE DE SECURITE COMPRENANT LADITE GAINE**

[72] WOLLBOLD, JURGEN, FR

[72] COMBES, CHRISTOPHE, FR

[72] LAMBERT, GREGORY, FR

[72] HAAS, JEROME, FR

[72] ARNAUD, CECILE, FR

[73] SOFIC (STE FRANCAISE D'INSTRUMENTS DE CHIRURGIE),

[85] 2014-10-30

[86] 2013-05-03 (PCT/EP2013/059310)

[87] (WO2013/164475)

[30] EP (PCT/EP2012/058160) 2012-05-03

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[11] **2,872,229**  
[13] C

[51] **Int.Cl. D21C 9/02 (2006.01) B05B 1/34 (2006.01) B05C 5/02 (2006.01)**

[25] EN

[54] **LIQUID DISTRIBUTOR FOR A WASHING APPARATUS, AND WASHING APPARATUS**

[54] **DISTRIBUTEUR DE LIQUIDE POUR UN APPAREIL DE LAVAGE ET APPAREIL DE LAVAGE**

[72] LOVGREN, HANS, SE

[72] PETTERSSON, PATRIK, SE

[72] LOOF, TOBIAS, SE

[73] VALMET AB,

[85] 2014-10-30

[86] 2013-07-04 (PCT/SE2013/050870)

[87] (WO2014/051493)

[30] SE (1251084-8) 2012-09-25

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[11] **2,873,028**  
[13] C

[51] **Int.Cl. B01D 5/00 (2006.01) B01D 3/02 (2006.01) B01J 19/00 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING SUBSTANCES PRESENT IN A LIQUID AND ITS APPLICATIONS**

[54] **PROCEDE PERMETTANT DE MAITRISER DES SUBSTANCES PRESENTES DANS UN LIQUIDE ET SES APPLICATIONS**

[72] MARIN, ADRIANO, IT

[73] WOW TECHNOLOGY S.P.A.,

[85] 2014-11-07

[86] 2013-06-12 (PCT/IB2013/054803)

[87] (WO2013/186714)

[30] IT (CO2012A000032) 2012-06-13

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[11] **2,873,284**  
[13] C

[51] **Int.Cl. B23B 13/02 (2006.01) B23B 13/04 (2006.01) B23B 13/10 (2006.01) B23B 13/12 (2006.01)**

[25] EN

[54] **APPARATUS FOR FEEDING BARS TO A MACHINE TOOL**

[54] **APPAREIL PERMETTANT DE FAIRE AVANCER DES BARRES VERS UNE MACHINE-OUTIL**

[72] CUCCHI, CESARE, IT

[73] CUCCHI GIOVANNI & C. S.R.L.,

[85] 2014-11-12

[86] 2013-06-18 (PCT/EP2013/062640)

[87] (WO2013/189937)

[30] IT (MI2012A001103) 2012-06-22

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[11] **2,873,462**  
[13] C

[51] **Int.Cl. F28F 27/02 (2006.01) B60K 11/00 (2006.01) F16K 27/00 (2006.01) F16K 31/68 (2006.01) F28F 9/26 (2006.01)**

[25] EN

[54] **HEAT EXCHANGER ASSEMBLIES WITH INTEGRATED VALVE**

[54] **ENSEMBLES ECHANGEURS DE CHALEUR AVEC SOUPEPE INTEGREE**

[72] SHEPPARD, JEFF, CA

[72] BETTIO, DARIO, CA

[72] BHATIA, SACHIN, CA

[73] DANA CANADA CORPORATION,

[85] 2014-11-13

[86] 2013-05-30 (PCT/CA2013/050417)

[87] (WO2013/177711)

[30] US (61/653,565) 2012-05-31

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[11] **2,873,690**  
[13] C

[51] **Int.Cl. C07C 1/213 (2006.01) B01J 31/24 (2006.01) C07C 11/12 (2006.01) C07B 61/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING OCTADIENE**

[54] **PROCEDE DE PRODUCTION D'OCTADIENE**

[72] NAKAYAMA, OSAMU, JP

[72] FUJI, JUNICHI, JP

[72] SHIMIZU, MASAKI, JP

[73] KURARAY CO., LTD.,

[85] 2014-11-14

[86] 2013-05-15 (PCT/JP2013/063595)

[87] (WO2013/172389)

[30] JP (2012-113193) 2012-05-17

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[11] **2,873,983**  
[13] C

[51] **Int.Cl. G05B 15/02 (2006.01) A63J 1/02 (2006.01) B66C 13/08 (2006.01) B66D 1/48 (2006.01) E04H 3/22 (2006.01) G05B 19/05 (2006.01) G05D 1/10 (2006.01)**

[25] EN

[54] **AUTOMATION AND MOTION CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE D'AUTOMATISATION ET DE MOUVEMENT**

[72] FISHER, SCOTT, US

[73] TAIT TOWERS MANUFACTURING, LLC,

[85] 2014-11-18

[86] 2013-04-29 (PCT/US2013/038566)

[87] (WO2013/176838)

[30] US (13/476,370) 2012-05-21

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[11] **2,874,008**  
[13] C

[51] **Int.Cl. F04D 15/00 (2006.01) F04D 9/00 (2006.01)**

[25] EN

[54] **TECHNIQUE FOR PREVENTING AIR LOCK THROUGH STUTTERED STARTING AND AIR RELEASE SLIT FOR PUMPS**

[54] **TECHNIQUE PERMETTANT D'EMPECHER UNE POCHE D'AIR AU MOYEN D'UN DEMARRAGE INSTABLE ET D'UNE FENTE DE LIBERATION D'AIR POUR DES POMPES**

[72] LOPES, JEFFREY, US

[72] ESTRADA, JESUS, MX

[72] TEED, KEVIN, US

[73] FLOW CONTROL LLC.,

[85] 2014-11-18

[86] 2013-06-14 (PCT/US2013/045839)

[87] (WO2013/188741)

[30] US (61/659,631) 2012-06-14

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[11] **2,874,411**  
[13] C

[51] **Int.Cl. A61F 2/40 (2006.01) A61F 2/30 (2006.01)**

[25] EN

[54] **REVERSE SHOULDER HUMERAL ADAPTER TRAYS**

[54] **TIROIRS D'ADAPTATEUR HUMERAL POUR EPAULE INVERSE**

[72] ROCHE, CHRISTOPHER, US

[72] HAMILTON, MATTHEW, US

[72] DIEP, PHONG, US

[73] EXACTECH, INC.,

[85] 2014-11-20

[86] 2013-05-30 (PCT/US2013/043321)

[87] (WO2013/181365)

[30] US (61/653,860) 2012-05-31

[30] US (61/779,363) 2013-03-13

[30] US (13/905,599) 2013-05-30

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[11] **2,874,462**  
[13] C

[51] **Int.Cl. E01F 15/10 (2006.01) E01F 13/02 (2006.01) E01F 15/14 (2006.01)**

[25] EN

[54] **ENERGY ABSORBING APPARATUS**

[54] **DISPOSITIF D'ABSORPTION D'ENERGIE**

[72] JAMES, DALLAS REX, NZ

[73] VALMONT HIGHWAY TECHNOLOGY LIMITED,

[85] 2014-11-21

[86] 2012-06-07 (PCT/NZ2012/000088)

[87] (WO2012/169907)

[30] NZ (593354) 2011-06-09

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[11] **2,875,071**  
[13] C

[51] **Int.Cl. G01M 99/00 (2011.01) E21B 44/00 (2006.01) G01D 21/02 (2006.01) G01M 7/02 (2006.01) G01R 31/34 (2020.01) G01M 13/045 (2019.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR TESTING OPERATIONAL INTEGRITY OF A DRILLING RIG**

[54] **PROCEDE ET SYSTEME DE TEST DE L'INTEGRITE OPERATIONNELLE D'UN EQUIPEMENT DE FORAGE**

[72] GAO, ROBERT X., US

[72] ELLIS, BRIAN CHARLES, US

[72] SMITH, BOONE ELBERT, US

[72] PUENTE, JOSE ABELARDO SANCHEZ, US

[72] WANG, JINJIANG, CN

[72] YAN, RUQIANG, CN

[73] UNIVERSITY OF CONNECTICUT,

[73] CANRIG DRILLING TECHNOLOGY LTD.,

[85] 2014-11-27

[86] 2012-05-31 (PCT/US2012/040318)

[87] (WO2013/180727)

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[11] **2,875,083**

[13] C

[51] **Int.Cl. C13K 1/04 (2006.01) C13B 20/02 (2011.01) C12P 7/02 (2006.01) C12P 7/40 (2006.01) C12P 13/04 (2006.01) C12P 19/30 (2006.01) C13B 20/16 (2011.01)**

[25] EN

[54] **PROCESS FOR PRODUCING SUGAR SOLUTION**

[54] **PROCEDE DE PRODUCTION D'UNE SOLUTION DE SUCRE**

[72] KURIHARA, HIROYUKI, JP

[72] YAMADA, KATSUSHIGE, JP

[73] TORAY INDUSTRIES, INC.,

[85] 2014-11-27

[86] 2013-06-04 (PCT/JP2013/065431)

[87] (WO2013/183617)

[30] JP (2012-127704) 2012-06-05

[11] **2,875,317**

[13] C

[51] **Int.Cl. C23C 18/34 (2006.01) C23C 18/50 (2006.01) H01L 21/288 (2006.01)**

[25] EN

[54] **PLATING BATH FOR ELECTROLESS DEPOSITION OF NICKEL LAYERS**

[54] **BAIN DE PLACAGE POUR DEPOT AUTOCATALYTIQUE DE COUCHES DE NICKEL**

[72] BRUNNER, HEIKO, DE

[72] PICALEK, JAN, DE

[72] BEJAN, IULIA, DE

[72] KRAUSE, CARSTEN, DE

[72] BERA, HOLGER, DE

[72] RUCKBROD, SVEN, DE

[73] ATOTECH DEUTSCHLAND GMBH,

[85] 2014-12-01

[86] 2013-05-31 (PCT/EP2013/061280)

[87] (WO2013/182489)

[30] EP (12170693.1) 2012-06-04

[11] **2,876,564**

[13] C

[51] **Int.Cl. B04B 1/20 (2006.01) B04B 11/02 (2006.01) B04B 13/00 (2006.01) C22B 3/26 (2006.01)**

[25] EN

[54] **METHOD FOR REPROCESSING AN EMULSION FORMED DURING HYDROMETALLURGICAL RECOVERY OF A METAL**

[54] **PROCEDE DE TRAITEMENT D'UNE EMULSION FORMEE LORS DE L'EXTRACTION HYDROMETALLURGIQUE D'UN METAL**

[72] HORBACH, ULRICH, DE

[72] KRAMER, JENS, DE

[72] HARTMANN, TORE, DE

[73] GEA MECHANICAL EQUIPMENT GMBH,

[85] 2014-12-12

[86] 2013-06-26 (PCT/EP2013/063331)

[87] (WO2014/005889)

[30] DE (10 2012 105 828.8) 2012-07-02

[11] **2,876,917**

[13] C

[51] **Int.Cl. A61K 8/31 (2006.01) A61Q 5/12 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **VOLATILE OIL FOR COSMETICS**

[54] **HUILE VOLATILE POUR DES PRODUITS COSMETIQUES**

[72] KOGA, NARIYOSHI, JP

[72] NISHIKAWA, TOHRU, JP

[73] NOF CORPORATION,

[85] 2014-12-16

[86] 2013-06-18 (PCT/JP2013/066766)

[87] (WO2014/002837)

[30] JP (2012-146171) 2012-06-28

[30] JP (2012-210141) 2012-09-24

[11] **2,877,600**

[13] C

[51] **Int.Cl. B08B 9/055 (2006.01) F16L 55/40 (2006.01)**

[25] EN

[54] **PIPELINE PIG WITH FINS**

[54] **RACLEUR D'OLEODUC DOTE D'AILETTES**

[72] SIVACOE, ORLANDE, CA

[73] SIVACOE, LUISA ANNE,

[85] 2014-12-22

[86] 2012-07-30 (PCT/CA2012/050518)

[87] (WO2013/013324)

[30] US (61/512,915) 2011-07-28

[11] **2,877,869**

[13] C

[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/86 (2006.01)**

[25] EN

[54] **VARIABLE ANGLE BONE FIXATION DEVICE**

[54] **DISPOSITIF DE FIXATION D'OS A ANGLE VARIABLE**

[72] KOAY, KENNY, US

[72] MCMILLAN, ROD, US

[72] KOBAYASHI, KENNETH, US

[72] HAAG, RENE, US

[72] LIMOUZE, ROBERT, US

[72] WAHL, MIKE, US

[72] ROCCI, MIRKO, CH

[73] DEPUY SYNTHES PRODUCTS, INC.,

[85] 2014-12-23

[86] 2013-06-26 (PCT/US2013/047884)

[87] (WO2014/004668)

[30] US (13/534,831) 2012-06-27

[11] **2,878,095**

[13] C

[51] **Int.Cl. C09C 1/30 (2006.01)**

[25] EN

[54] **GRANULAR FUNCTIONALIZED SILICA, PROCESS FOR PREPARATION THEREOF AND USE THEREOF**

[54] **ACIDES SILICIQUES FONCTIONNALISES GRANULAIRES, PROCEDE POUR LES PREPARER ET LEUR UTILISATION**

[72] DREXEL, CLAUS-PETER, DE

[72] MEYER, JURGEN, DE

[72] HEINDL, FRANK, DE

[73] EVONIK OPERATIONS GMBH,

[85] 2014-12-29

[86] 2013-06-12 (PCT/EP2013/062166)

[87] (WO2014/001088)

[30] DE (10 2012 211 121.2) 2012-06-28

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[11] **2,878,417**  
[13] C

[51] **Int.Cl. A01K 1/01 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR  
CLEANING CUBICLES**  
[54] **PROCEDE ET DISPOSITIF DE  
NETTOYAGE DE BOX**  
[72] AGAYEV, SAMIR, NL  
[72] BAS, CAVLAN, NL  
[73] LELY PATENT N.V.,  
[85] 2015-01-06  
[86] 2013-07-19 (PCT/NL2013/050545)  
[87] (WO2014/021712)  
[30] NL (2009264) 2012-08-02  
[30] NL (2009985) 2012-12-14

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[11] **2,878,574**  
[13] C

[51] **Int.Cl. A61B 18/18 (2006.01) A61B  
1/018 (2006.01)**  
[25] EN  
[54] **MICROWAVE ABLATION  
CATHETER AND METHOD OF  
UTILIZING THE SAME**  
[54] **CATHETER D'ABLATION A  
MICRO-ONDES ET PROCEDE  
D'UTILISATION DE CELUI-CI**  
[72] LADTKOW, CASEY M., US  
[72] BRANNAN, JOSEPH D., US  
[72] PETERSON, DARION R., US  
[72] LARSON, ERIC W., US  
[72] HALEY, KAYLEN J., US  
[72] DICKHANS, WILLIAM J., US  
[72] CASE, JASON A., US  
[73] COVIDIEN LP,  
[85] 2015-01-07  
[86] 2013-07-26 (PCT/US2013/052182)  
[87] (WO2014/025550)  
[30] US (61/680,555) 2012-08-07  
[30] US (61/784,048) 2013-03-14  
[30] US (61/783,921) 2013-03-14  
[30] US (61/784,297) 2013-03-14  
[30] US (61/784,176) 2013-03-14  
[30] US (61/784,407) 2013-03-14

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[11] **2,878,911**  
[13] C

[51] **Int.Cl. A47D 13/02 (2006.01)**  
[25] EN  
[54] **BABY CARRIER**  
[54] **PORTE-BEBE**  
[72] ANDREN, MARTEN, SE  
[72] VEJBRINK, ULRIKA, SE  
[72] THALEN, DAVID, SE  
[72] DE BRUIN LYCKMAN, KIM, SE  
[73] BABYBJORN AB,  
[85] 2015-01-12  
[86] 2013-07-03 (PCT/SE2013/050859)  
[87] (WO2014/011102)  
[30] SE (1250817-2) 2012-07-12

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[11] **2,879,520**  
[13] C

[51] **Int.Cl. C12Q 1/04 (2006.01) G01N  
27/62 (2006.01) G01N 33/68 (2006.01)**  
[25] FR  
[54] **METHOD FOR DETECTING AT  
LEAST ONE MECHANISM OF  
RESISTANCE TO  
GLYCOPEPTIDES BY MASS  
SPECTROMETRY**  
[54] **PROCEDE DE DETECTION D'AU  
MOINS UN MECANISME DE  
RESISTANCE AUX  
GLYCOPEPTIDES PAR  
SPECTROMETRIE DE MASSE**  
[72] CHARRETIER, YANNICK, FR  
[72] CHARRIER, JEAN-PHILIPPE, FR  
[72] FRANCESCHI, CHRISTINE, FR  
[72] ZAMBARDI, GILLES, FR  
[73] BIOMERIEUX,  
[85] 2015-01-19  
[86] 2013-07-30 (PCT/FR2013/051833)  
[87] (WO2014/020276)  
[30] FR (1257489) 2012-08-01

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[11] **2,879,529**  
[13] C

[51] **Int.Cl. A61F 13/532 (2006.01) A61F  
13/00 (2006.01) A61F 13/02 (2006.01)  
A61F 13/535 (2006.01) A61F 13/511  
(2006.01) A61F 13/53 (2006.01)**  
[25] FR  
[54] **ITEM INTENDED TO COME INTO  
CONTACT WITH A LIQUID, IN  
PARTICULAR A BANDAGE**  
[54] **ARTICLE DESTINE A VENIR EN  
CONTACT AVEC UN LIQUIDE,  
NOTAMMENT PANSEMENT**  
[72] FOUILLET, YVES, FR  
[72] MARSQUET, CYRIL, FR  
[72] REVOL-CAVALIER, FREDERIC, FR  
[72] PERNOT, JEAN-MARC, FR  
[72] LECOMTE, SERGE, FR  
[72] LAMOISE, MICHEL, FR  
[73] COMMISSARIAT A L'ENERGIE  
ATOMIQUE ET AUX ENERGIES  
ALTERNATIVES,  
[73] LABORATOIRES URGO,  
[85] 2015-01-16  
[86] 2013-07-22 (PCT/IB2013/056010)  
[87] (WO2014/016759)  
[30] FR (1257108) 2012-07-23

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[11] **2,880,132**  
[13] C

[51] **Int.Cl. F23C 5/08 (2006.01) F23C  
13/00 (2006.01)**  
[25] EN  
[54] **PROCESS AND APPARATUS FOR  
ENDOTHERMIC REACTIONS**  
[54] **PROCEDE ET APPAREIL POUR  
REACTIONS ENDOTHERMIQUES**  
[72] CANCES, JULIEN, FR  
[72] CAMY-PEYRET, FREDERIC, FR  
[72] LABGORRE, BERNARD, FR  
[73] L'AIR LIQUIDE SOCIETE  
ANONYME POUR L'ETUDE ET  
L'EXPLOITATION DES PROCES  
GEORGES CLAUDE,  
[85] 2015-01-26  
[86] 2013-08-14 (PCT/EP2013/066998)  
[87] (WO2014/040815)  
[30] EP (12184303.1) 2012-09-13

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[11] **2,880,782**  
[13] C

[51] **Int.Cl. B60R 15/04 (2006.01) A47K 11/02 (2006.01)**  
[25] EN  
[54] **TOILET ARRANGEMENT IN A CAMPER OR CARAVAN**  
[54] **SYSTEME DE TOILETTE DANS UN CAMPING-CAR OU UNE CARAVANE**  
[72] FRANZEN, DAG, SE  
[73] SIRIUS TECHNOLOGY AS,  
[85] 2015-02-02  
[86] 2013-05-03 (PCT/SE2013/050498)  
[87] (WO2014/038992)  
[30] SE (1250995-6) 2012-09-05

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[11] **2,880,797**  
[13] C

[51] **Int.Cl. A01K 1/01 (2006.01)**  
[25] EN  
[54] **SELF-PROPELLED ANIMAL-SHED VEHICLE FOR REMOVING MANURE AND AN ASSEMBLY OF SUCH AN ANIMAL-SHED VEHICLE AND AN ANIMAL-SHED FLOOR**  
[54] **VEHICULE AUTOMOTEUR DE HANGAR POUR ANIMAUX DESTINE AU RETRAIT DU FUMIER ET ENSEMBLE D'UN TEL VEHICULE DE HANGAR POUR ANIMAUX ET D'UN PLANCHER DE HANGAR POUR ANIMAUX**  
[72] VAN ADRICHEM, PAULUS JACOBUS MARIA, NL  
[72] VAN DEN BERG, KAREL, NL  
[72] KOK, WILLEM DERREKE, NL  
[72] REGELINK, FRANK GERARD, NL  
[73] LELY PATENT N.V.,  
[85] 2015-02-03  
[86] 2013-09-09 (PCT/NL2013/050647)  
[87] (WO2014/051421)  
[30] NL (2009526) 2012-09-27

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[11] **2,880,835**  
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 30/06 (2012.01)**  
[25] EN  
[54] **PROXIMAL CUSTOMER TRANSACTION INCENTED BY DONATION OF AUTO BOARDED MERCHANT**  
[54] **TRANSACTION DE CLIENT PROXIMAL STIMULEE PAR DONATION DE MARCHAND AUTO PRESENTE**  
[72] TIETZEN, TERRANCE PATRICK, CA  
[72] BATES, MATTHEW ARNOLD MACPHERSON, CA  
[72] ROBERTSON, WILLIAM GORDON, CA  
[73] EDATANETWORKS INC.,  
[85] 2014-09-15  
[86] 2013-03-15 (PCT/US2013/032175)  
[87] (WO2013/138739)  
[30] US (61/611,876) 2012-03-16  
[30] US (61/732,152) 2012-11-30  
[30] US (13/748,459) 2013-01-23

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[11] **2,880,923**  
[13] C

[51] **Int.Cl. A01J 5/007 (2006.01) A01J 5/013 (2006.01) A01J 5/017 (2006.01)**  
[25] EN  
[54] **AUTOMATIC MILKING ARRANGEMENT**  
[54] **SYSTEME DE TRAITE AUTOMATIQUE**  
[72] ANGLART, DOROTA, SE  
[72] BOSMA, EPKE, NL  
[72] FORSBERG, MATS, SE  
[72] HALLMAN, JONAS, SE  
[72] LUNDH, ANDRES, SE  
[72] PERSSON, STAFFAN, SE  
[72] OHMAN, ULRIKA, SE  
[73] DELAVAL HOLDING AB,  
[85] 2015-02-03  
[86] 2013-03-15 (PCT/SE2013/050279)  
[87] (WO2014/055004)  
[30] GB (1217818.2) 2012-10-04  
[30] US (61/709,377) 2012-10-04

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[11] **2,881,005**  
[13] C

[51] **Int.Cl. A61C 9/00 (2006.01)**  
[25] EN  
[54] **REUSABLE DUAL ARCH ANTERIOR DENTAL IMPRESSION TRAY**  
[54] **PORTE-EMPREINTE DENTAIRE ANTERIEUR A DOUBLE ARC REUTILISABLE**  
[72] MCDONALD, SIMON P., NZ  
[72] AUBONE, ALEJANDRO, NZ  
[73] DENTSPLY INTERNATIONAL INC.,  
[85] 2015-02-04  
[86] 2013-08-16 (PCT/US2013/055443)  
[87] (WO2014/028889)  
[30] NZ (601887) 2012-08-16  
[30] NZ (614069) 2013-08-08

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[11] **2,881,710**  
[13] C

[51] **Int.Cl. C08F 265/04 (2006.01) C08F 265/00 (2006.01) C08F 265/06 (2006.01) C08L 51/00 (2006.01)**  
[25] EN  
[54] **A MULTI-STAGE POLYMER AS A GRINDING ADDITIVE AND PREPARATION PROCESS THEREOF**  
[54] **POLYMERE MULTI-ETAGE A TITRE D'ADDITIF DE BROYAGE ET SON PROCEDE DE PREPARATION**  
[72] LI, LING, CN  
[73] ROHM AND HAAS COMPANY,  
[85] 2015-02-11  
[86] 2012-09-17 (PCT/CN2012/081470)  
[87] (WO2014/040290)

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[11] **2,881,843**  
[13] C

[51] **Int.Cl. B27L 7/06 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR POSITIONING LOGS**  
[54] **APPAREIL DE POSITIONNEMENT DE BUCHES**  
[72] KALAKAY, FRED J., JR., US  
[73] KALAKAY, FRED J., JR.,  
[85] 2015-02-11  
[86] 2013-08-23 (PCT/US2013/056422)  
[87] (WO2014/031973)  
[30] US (61/693,027) 2012-08-24

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[11] **2,882,395**  
[13] C

[51] **Int.Cl. A01K 1/01 (2006.01) A01K 5/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PERFORMING AN ANIMAL-RELATED ACTION**  
[54] **SYSTEME ET PROCEDE D'EXECUTION D'UNE ACTION RELATIVE A UN ANIMAL**  
[72] WISSE, DIK-JAN, NL  
[72] VAN KUILENBURG, JAN MARTINUS, NL  
[72] VAN DEN BERG, KAREL, NL  
[72] KIK, PIETER JACOB, NL  
[73] LELY PATENT N.V.,  
[85] 2015-02-18  
[86] 2013-08-01 (PCT/NL2013/050574)  
[87] (WO2014/038932)  
[30] NL (2009410) 2012-09-04

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[11] **2,882,574**  
[13] C

[51] **Int.Cl. B60C 11/11 (2006.01) B60C 11/12 (2006.01)**  
[25] EN  
[54] **PNEUMATIC TIRE TREAD AND PNEUMATIC TIRE WITH SAID TREAD**  
[54] **SEMELLE DE PNEUMATIQUE ET PNEUMATIQUE COMPORTANT LADITE SEMELLE**  
[72] FUKUDA, KENJI, JP  
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN,  
[73] MICHELIN RECHERCHE ET TECHNIQUE S.A.,  
[85] 2015-02-19  
[86] 2013-09-09 (PCT/JP2013/074229)  
[87] (WO2014/038689)  
[30] JP (PCT/JP2012/072891) 2012-09-07

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[11] **2,883,138**  
[13] C

[51] **Int.Cl. E04F 13/14 (2006.01)**  
[25] EN  
[54] **PANEL WITH COMPRESSIBLE PROJECTIONS AND MASONRY WALL SYSTEM INCLUDING THE PANEL**  
[54] **PANNEAU A SAILLIES COMPRIMABLES ET SYSTEME DE MUR EN MACONNERIE COMPRENANT LEDIT PANNEAU**  
[72] STREICHER, MIKE, CA  
[72] MORAND, MARTINE, CA  
[72] DUGAS, LUC, CA  
[72] BOUCHARD, MICHEL, CA  
[72] BORJA, RICARDO, CA  
[73] OLDCASTLE BUILDING PRODUCTS CANADA INC.,  
[85] 2015-02-25  
[86] 2013-09-18 (PCT/CA2013/050711)  
[87] (WO2014/043805)  
[30] US (61/703,389) 2012-09-20

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[11] **2,883,183**  
[13] C

[51] **Int.Cl. A41C 1/08 (2006.01) A61F 5/37 (2006.01)**  
[25] EN  
[54] **PELVIC-ABDOMINAL SUPPORT GARMENT**  
[54] **VETEMENT DE SOUTIEN PELVIEN-ABDOMINAL**  
[72] BIGELOW, JILL K., US  
[73] BIGELOW, JILL K.,  
[85] 2015-02-25  
[86] 2013-08-09 (PCT/US2013/054392)  
[87] (WO2014/051863)  
[30] US (61/683,517) 2012-08-15

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[11] **2,883,197**  
[13] C

[51] **Int.Cl. C12Q 1/04 (2006.01) C01B 33/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR SIMULTANEOUS DETECTION, RECOVERY, IDENTIFICATION AND COUNTING OF MICROORGANISMS AND DEVICES FOR THE IMPLEMENTATION OF SAID METHOD**  
[54] **PROCEDE PERMETTANT LA DETECTION, LA RECUPERATION, L'IDENTIFICATION ET L'ENUMERATION SIMULTANEE DE MICRO-ORGANISMES ET DISPOSITIFS PERMETTANT LA MISE EN OEUVRE DUDIT PROCEDE**  
[72] RODRIGUEZ MARTINEZ, CLAUDIO, CU  
[72] GONZALEZ RUIZ, JESUS EDUARDO, CU  
[72] LOBAINA RODRIGUEZ, TAMARA, CU  
[72] ZHURBENKO, RAISA, CU  
[72] BRITO GONZALEZ, ANA IRIS, CU  
[72] LOPEZ HERNANDEZ, MONICA, CU  
[72] ARAGON FERNANDEZ, JAVIER, CU  
[72] ALFONSO VALDES, IVONNE, CU  
[72] ORTEGA SURIS, ADELAIDA, CU  
[73] CENTRO NACIONAL DE BIOPREPARADOS (BIOCEN),  
[73] CENTRO NACIONAL DE INVESTIGACIONES CIENTIFICAS,  
[73] RODRIGUEZ MARTINEZ, CLAUDIO,  
[73] GONZALEZ RUIZ, JESUS EDUARDO,  
[73] LOBAINA RODRIGUEZ, TAMARA,  
[73] ZHURBENKO, RAISA,  
[73] BRITO GONZALEZ, ANA IRIS,  
[73] LOPEZ HERNANDEZ, MONICA,  
[73] ARAGON FERNANDEZ, JAVIER,  
[73] ALFONSO VALDES, IVONNE,  
[73] ORTEGA SURIS, ADELAIDA,  
[85] 2014-10-21  
[86] 2013-03-27 (PCT/CU2013/000002)  
[87] (WO2013/143508)  
[30] CU (CU/P/2012/0055) 2012-03-30

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[11] **2,883,588**

[13] C

- [51] **Int.Cl. B65C 1/04 (2006.01)**  
[25] EN  
[54] **APPARATUS AND PROCESS FOR APPLYING LABELS TO BOXES**  
[54] **EQUIPEMENT ET PROCESSUS POUR APPLIQUER DES ETIQUETTES SUR DES BOITES**  
[72] BECK, WOLFGANG, DE  
[73] I-TECONSULT N.V.,  
[73] XYLO TECHNOLOGIES AG,  
[85] 2015-03-02  
[86] 2013-09-24 (PCT/EP2013/069879)  
[87] (WO2014/048934)  
[30] EP (12405108.7) 2012-09-28

[11] **2,884,160**

[13] C

- [51] **Int.Cl. G08B 13/186 (2006.01) G01S 7/483 (2006.01) G08B 13/187 (2006.01)**  
[25] EN  
[54] **ROOM OCCUPANCY SENSING APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCÉDE DE DETECTION D'OCCUPATION DE PIÉCE**  
[72] MILLER, LEE DOUGLAS, GB  
[72] MCKEE, KAREN LOUISE, GB  
[73] MBDA UK LIMITED,  
[85] 2015-03-06  
[86] 2013-09-12 (PCT/GB2013/052379)  
[87] (WO2014/041350)  
[30] GB (1216330.9) 2012-09-13  
[30] EP (12275141.5) 2012-09-13

[11] **2,884,765**

[13] C

- [51] **Int.Cl. B61G 7/14 (2006.01)**  
[25] EN  
[54] **IMPACT RESISTANT END OF TRAIN DEVICE**  
[54] **EXTREMITE RESISTANT A L'IMPACT DE DISPOSITIF DE TRAIN**  
[72] GLOYD, D. ANDREW, US  
[72] HALOWELL, JOHN E., US  
[72] MCCARY, DAVID, US  
[72] HENNIGES, BENJAMIN, US  
[73] WABTEC HOLDING CORP.,  
[85] 2015-03-10  
[86] 2013-10-04 (PCT/US2013/063342)  
[87] (WO2014/055804)  
[30] US (61/710,291) 2012-10-05

[11] **2,884,964**

[13] C

- [51] **Int.Cl. A47J 43/07 (2006.01)**  
[25] EN  
[54] **BLADE ASSEMBLY FOR FOOD PROCESSOR AND FOOD PROCESSOR INCORPORATING SAME**  
[54] **ENSEMBLE DE LAMES DE ROBOT MENAGER ET ROBOT MENAGER L'INCORPORANT**  
[72] WADE, ADAM, GB  
[72] HUNT, MARTIN, GB  
[73] KENWOOD LIMITED,  
[85] 2015-03-13  
[86] 2013-09-10 (PCT/GB2013/052363)  
[87] (WO2014/049329)  
[30] GB (1217328.2) 2012-09-28

[11] **2,886,923**

[13] C

- [51] **Int.Cl. B23K 26/04 (2014.01) B23K 26/14 (2014.01) B23K 26/38 (2014.01)**  
[25] FR  
[54] **LASER NOZZLE HAVING AN INTERNAL MOBILE ELEMENT AND AN EXTERNAL COVER**  
[54] **BUSE LASER AVEC ELEMENT MOBILE INTERNE ET COIFFE EXTERNE**  
[72] JOUANNEAU, THOMAS, FR  
[72] LEFEBVRE, PHILIPPE, FR  
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCES GEORGES CLAUDE,  
[85] 2015-03-31  
[86] 2013-10-23 (PCT/FR2013/052535)  
[87] (WO2014/072611)  
[30] FR (1260674) 2012-11-09

[11] **2,886,930**

[13] C

- [51] **Int.Cl. G16Z 99/00 (2019.01) G06F 3/0482 (2013.01) G02B 27/01 (2006.01) G06F 3/14 (2006.01) G06K 9/62 (2006.01)**  
[25] EN  
[54] **AUGMENTED REALITY APPEARANCE ENHANCEMENT**  
[54] **AMELIORATION DE L'APPARENCE DE LA REALITE AUGMENTEE**  
[72] SCHIMKE, SCOTT A., US  
[73] HALLMARK CARDS, INCORPORATED,  
[86] (2886930)  
[87] (2886930)  
[22] 2015-04-01  
[30] US (61/973,736) 2014-04-01  
[30] US (14/674,572) 2015-03-31

[11] **2,887,654**

[13] C

- [51] **Int.Cl. C08G 69/02 (2006.01) C08G 69/40 (2006.01) C08L 77/02 (2006.01) D06M 15/37 (2006.01)**  
[25] EN  
[54] **POLYAMIDE APPAREL TEXTILE YARNS AND FABRICS AND GARMENTS MADE THEREFROM**  
[54] **FIL TEXTILE POLYAMIDE POUR L'HABILLEMENT ET TISSUS ET VETEMENTS L'UTILISANT**  
[72] ZALTIERI, MAURO, IT  
[72] LANGRICK, CHARLES RICHARD, GB  
[73] GOLDEN LADY COMPANY S.P.A.,  
[85] 2015-04-08  
[86] 2013-03-14 (PCT/IB2013/052037)  
[87] (WO2014/057364)  
[30] US (61/712,106) 2012-10-10

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[11] **2,887,757**  
[13] C

[51] **Int.Cl. C12N 5/075 (2010.01) A01K 67/02 (2006.01) A61D 19/04 (2006.01) A01N 1/02 (2006.01)**

[25] EN

[54] **SYSTEM FOR IN-VITRO FERTILIZATION WITH SPERMATOZOA SEPARATED INTO X-CHROMOSOME AND Y-CHROMOSOME BEARING POPULATIONS**

[54] **SYSTEME PERMETTANT DE REALISER UNE FECONDATION IN VITRO AVEC DES SPERMATOZOIDES SEPARES EN POPULATION PORTEUSE DE CHROMOSOME X ET EN POPULATION PORTEUSE DE CHROMOSOME Y**

[72] SEIDEL, GEORGE E., US  
[72] SUH, TAE KWANG, US  
[72] LU, KEHUAN, GB  
[73] XY, LLC,  
[86] (2887757)  
[87] (2887757)  
[22] 2001-11-29  
[62] 2,468,774  
[30] US (60/253,785) 2000-11-29  
[30] US (60/253,787) 2000-11-29

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[11] **2,887,899**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61P 35/02 (2006.01) C07K 16/30 (2006.01) A61K 31/551 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **PYRROLOBENZODIAZEPINE-ANTI-CD22 ANTIBODY CONJUGATES**

[54] **CONJUGUES ANTICORPS ANTI-CD22 - PYRROLOBENZODIAZEPINE**

[72] VAN BERKEL, PATRICIUS HENDRIKUS CORNELIS, CH  
[72] HOWARD, PHILIP WILSON, GB  
[73] MEDIMMUNE LIMITED,  
[73] ADC THERAPEUTICS SA,  
[85] 2015-04-10  
[86] 2013-10-11 (PCT/EP2013/071352)  
[87] (WO2014/057122)  
[30] US (61/712,924) 2012-10-12  
[30] US (61/712,928) 2012-10-12  
[30] US (61/794,997) 2013-03-15  
[30] US (61/794,922) 2013-03-15  
[30] US (61/794,954) 2013-03-15

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[11] **2,887,965**  
[13] C

[51] **Int.Cl. G03G 9/09 (2006.01)**

[25] EN

[54] **TONER COMPRISING COLORANT WAX DISPERSION**

[54] **TONER CONTENANT UNE DISPERSION DE CIRE COLORANTE**

[72] LEE, FRANK PING-HAY, CA  
[72] VEREGIN, RICHARD P. N., CA  
[72] QIU, SHIGANG S., CA  
[72] D'AMATO, MICHAEL J., CA  
[72] MAGDALINIS, AURELIAN VALERIU, CA  
[72] LAWTON, DAVID JOHN WILLIAM, CA  
[73] XEROX CORPORATION,  
[86] (2887965)  
[87] (2887965)  
[22] 2015-04-09  
[30] US (14/256,941) 2014-04-19

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[11] **2,888,422**  
[13] C

[51] **Int.Cl. C09K 17/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREVENTING SOIL EROSION**

[54] **PROCEDE DE PREVENTION DE L'EROSION DU SOL**

[72] JI, PENGFEI, CN  
[72] CRISTOBAL, GALDER, CN  
[73] RHODIA OPERATIONS,  
[73] INSTITUTE OF SOIL AND WATER CONSERVATION, CHINESE ACADEMY OF SCIENCES MINISTRY OF WATER RESOURCES,  
[85] 2015-04-15  
[86] 2012-10-23 (PCT/CN2012/083347)  
[87] (WO2014/063300)

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[11] **2,888,615**  
[13] C

[51] **Int.Cl. B29C 70/38 (2006.01) B29C 33/56 (2006.01) B29C 37/00 (2006.01) B29C 41/08 (2006.01) B29C 70/08 (2006.01) B32B 37/26 (2006.01)**

[25] EN

[54] **SURFACE ENGINEERING OF THERMOPLASTIC MATERIALS AND TOOLING**

[54] **INGENIERIE DE SURFACE DE MATIERES THERMOPLASTIQUES ET OUTILLAGE**

[72] PRATTE, JAMES FRANCIS, US  
[72] ROGERS, SCOTT ALFRED, US  
[73] CYTEC INDUSTRIES INC.,  
[85] 2015-04-16  
[86] 2013-10-17 (PCT/US2013/065400)  
[87] (WO2014/062900)  
[30] US (61/715,438) 2012-10-18

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[11] **2,889,025**  
[13] C

[51] **Int.Cl. B65G 17/08 (2006.01) B65G 17/24 (2006.01) B65G 17/32 (2006.01) B65G 17/40 (2006.01) B65G 47/26 (2006.01)**

[25] EN

[54] **ACTIVE CONTROL ROLLER TOP MODULAR CONVEYING ASSEMBLY**

[54] **ENSEMBLE DE TRANSPORT MODULAIRE SUPERIEUR A ROULEAUX ET COMMANDE ACTIVE**

[72] CHINNOCK, ERIC MEDIN, US  
[72] STEFANKO, JUSTIN MICHAEL, US  
[72] RINEHART, TAD CHANDLER, US  
[72] LABERMEIER, JOSEPH ROBERT, US  
[73] REXNORD INDUSTRIES, LLC,  
[85] 2015-04-21  
[86] 2013-10-24 (PCT/US2013/066565)  
[87] (WO2014/066607)  
[30] US (61/718,229) 2012-10-25

**Brevets canadiens délivrés  
31 mars 2020**

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[11] **2,889,585**  
[13] C

[51] **Int.Cl. H04L 12/66 (2006.01) B60R 16/02 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR ALLOWING INTEGRATION OF INCOMPATIBLE DEVICES INTO A VEHICLE BUS NETWORK**

[54] **DISPOSITIF ET METHODE DESTINES A PERMETTRE L'INTEGRATION DE DISPOSITIFS COMPATIBLES DANS UN RESEAU DE BUS DE VEHICULE**

[72] BETTENCOURT, HAROLD RAY, US

[72] BETTENCOURT, NICHOLAS RYAN, US

[73] BETTENCOURT, HAROLD RAY,

[73] BETTENCOURT, NICHOLAS RYAN,

[86] (2889585)

[87] (2889585)

[22] 2015-04-27

[30] US (61/985,525) 2014-04-29

[30] US (14/693,911) 2015-04-23

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[11] **2,890,360**  
[13] C

[51] **Int.Cl. B01D 61/00 (2006.01) B01D 63/08 (2006.01) C02F 1/44 (2006.01)**

[25] EN

[54] **SUBMERGED PLATE FORWARD OSMOSIS SYSTEMS**

[54] **SYSTEMES D'OSMOSE DIRECTE A PLAQUE IMMERGEE**

[72] SCHULTZ, WALTER L., US

[72] BHARWADA, UPEN J., US

[72] HERRON, JOHN R., US

[72] SCHUTTER, MARK, US

[72] ABU-RABEAH, KHALIL, IL

[72] YEHUDA-ZADA, LIAT, IL

[72] AHARONI, MORDECHAY, IL

[72] GENKIN, GREGORY, IL

[73] DEAD SEA WORKS LTD.,

[85] 2015-05-05

[86] 2013-07-02 (PCT/US2013/049166)

[87] (WO2014/008314)

[30] US (61/667,375) 2012-07-02

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[11] **2,890,686**  
[13] C

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/43 (2006.01) A61K 8/44 (2006.01) A61K 8/90 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **SURFACTANT SYSTEMS FOR ZINC CONTAINING COMPOSITIONS**

[54] **SYSTEMES TENSIOACTIFS POUR COMPOSITIONS CONTENANT DU ZINC**

[72] ROBINSON, RICHARD SCOTT, US

[72] JOSIAS, WILBENS, US

[73] COLGATE-PALMOLIVE COMPANY,

[85] 2015-05-07

[86] 2012-12-06 (PCT/US2012/068108)

[87] (WO2014/088575)

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[11] **2,890,853**  
[13] C

[51] **Int.Cl. F04C 18/16 (2006.01) F01C 1/16 (2006.01)**

[25] EN

[54] **REDUCED NOISE SCREW MACHINES**

[54] **MACHINES A VIS A BRUIT REDUIT**

[72] STOSIC, NIKOLA RUDI, GB

[73] THE CITY UNIVERSITY,

[85] 2015-05-07

[86] 2013-04-03 (PCT/GB2013/050877)

[87] (WO2013/156754)

[30] GB (1206894.6) 2012-04-19

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[11] **2,891,063**  
[13] C

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **CARTRIDGE FOR INTRAOCULAR LENS INJECTOR PROVIDING HAPTIC CONTROL**

[54] **CARTOUCHE DESTINEE A UN INJECTEUR DE LENTILLE INTRAOCULAIRE FOURNISSANT UN REGLAGE HAPTIQUE**

[72] VALLE, MOISES, US

[72] BELCHER, NATHAN, US

[72] MUCHHALA, SUSHANT, US

[72] SEO, WILL, US

[72] AYYAGARI, MADHU, US

[73] BAUSCH & LOMB INCORPORATED,

[85] 2015-05-01

[86] 2013-11-08 (PCT/US2013/069208)

[87] (WO2014/074860)

[30] US (13/673,330) 2012-11-09

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[11] **2,891,826**  
[13] C

[51] **Int.Cl. F03G 7/10 (2006.01) F01C 1/22 (2006.01) F01K 25/10 (2006.01) F01K 27/00 (2006.01) F03G 7/04 (2006.01)**

[25] EN

[54] **COLD STATE ENGINE FOR UTILISING AIR THERMAL ENERGY TO OUTPUT WORK, REFRIGERATION AND WATER**

[54] **MOTEUR FROID UTILISANT L'ENERGIE THERMIQUE DE L'AIR POUR PRODUIRE UN TRAVAIL, UNE REFRIGERATION ET DE L'EAU**

[72] LEW, JASON, NZ

[73] LEW, JASON,

[85] 2015-05-15

[86] 2012-11-15 (PCT/NZ2012/000211)

[87] (WO2013/073972)

[30] NZ (596481) 2011-11-16

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[11] **2,891,877**  
[13] C

[51] **Int.Cl. C22B 3/24 (2006.01) C22B 23/00 (2006.01)**

[25] EN

[54] **SETTLING SEPARATION PROCESS FOR NEUTRALIZED SLURRY AND HYDROMETALLURGICAL PROCESS FOR NICKEL OXIDE ORE**

[54] **PROCEDE DE SEPARATION PAR DECANTATION DE BOUE NEUTRALISEE ET PROCEDE DE FUSION A L'ETAT HUMIDE DE MINERAI D'OXYDE DE NICKEL**

[72] SHOJI, HIROFUMI, JP

[72] HIGAKI, TATSUYA, JP

[72] OZAKI, YOSHITOMO, JP

[72] ENOMOTO, MANABU, JP

[73] SUMITOMO METAL MINING CO., LTD.,

[85] 2015-05-19

[86] 2013-07-29 (PCT/JP2013/070476)

[87] (WO2014/080665)

[30] JP (2012-254569) 2012-11-20

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[11] **2,892,179**  
[13] C

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/44 (2006.01) A61Q 15/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION WITH ZINC AMINO ACID/TRIMETHYLGLYCINE HALIDE PRECURSORS**  
[54] **COMPOSITION DOTEE DE PRECURSEURS D'HALOGENURE DE TRIMETHYLGLYCINE/D'ACIDE AMINE DE ZINC**  
[72] PAN, LONG, US  
[72] MATTAI, JAIRAJH, US  
[72] ANSARI, SHAMIM, US  
[72] QIU, JIANHONG, US  
[72] MASTERS, JAMES GERARD, US  
[72] YANG, YING, US  
[73] COLGATE-PALMOLIVE COMPANY,  
[85] 2015-05-21  
[86] 2012-12-19 (PCT/US2012/070492)  
[87] (WO2014/098814)

[11] **2,892,181**  
[13] C

[51] **Int.Cl. G01N 27/417 (2006.01) G01N 27/406 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL SENSOR**  
[54] **CAPTEUR ELECTROCHIMIQUE**  
[72] VIENS, JEAN-FRANCOIS, CA  
[72] NORMANDEAU, CHARLES-OLIVIER, CA  
[72] MESSADDEQ, YOUNES, CA  
[73] UNIVERSITE LAVAL,  
[85] 2015-05-20  
[86] 2013-11-22 (PCT/CA2013/050893)  
[87] (WO2014/078964)  
[30] US (61/729,393) 2012-11-22

[11] **2,892,743**  
[13] C

[51] **Int.Cl. B62D 7/14 (2006.01) B60B 35/10 (2006.01) B60G 7/02 (2006.01) B60P 3/00 (2006.01) B62D 7/20 (2006.01) B62D 21/14 (2006.01) B62D 21/20 (2006.01) B62D 61/10 (2006.01)**  
[25] EN  
[54] **TRANSPORT VEHICLE WITH VARIABLE WIDTH AND TRACK WIDTH AND AT LEAST ONE STEERING AXLE**  
[54] **VEHICULE DE TRANSPORT A LARGEUR ET A VOIE VARIABLES, POURVU D'AU MOINS UN ESSIEU DIRECTEUR**  
[72] KERN, FLORIAN, DE  
[73] SCHEUERLE FAHRZEUGFABRIK GMBH,  
[85] 2015-05-26  
[86] 2013-12-12 (PCT/EP2013/003755)  
[87] (WO2014/090407)  
[30] DE (20 2012 011 898.6) 2012-12-12  
[30] DE (10 2012 024 247.6) 2012-12-12  
[30] DE (20 2013 008 269.0) 2013-09-19

[11] **2,892,754**  
[13] C

[51] **Int.Cl. H05B 6/72 (2006.01) E21B 43/24 (2006.01) H01Q 1/40 (2006.01)**  
[25] EN  
[54] **STIMULATING PRODUCTION FROM OIL WELLS USING AN RF DIPOLE ANTENNA**  
[54] **STIMULATION DE LA PRODUCTION DE Puits DE PETROLE AU MOYEN D'UNE ANTENNE DIPOLE RF**  
[72] BRIDGES, JACK E., US  
[72] SNOW, RICHARD H., US  
[72] HASSANZADEH, ARMIN, US  
[73] PYROPHASE, INC.,  
[85] 2015-05-27  
[86] 2013-10-31 (PCT/US2013/067704)  
[87] (WO2014/088731)  
[30] US (13/692,199) 2012-12-03

[11] **2,893,240**  
[13] C

[51] **Int.Cl. G09G 3/32 (2016.01)**  
[25] EN  
[54] **LED DISPLAY**  
[54] **DISPOSITIF D'AFFICHAGE A DEL**  
[72] LU, CHANGJUN, CN  
[72] LIU, ZHIYONG, CN  
[73] LEYARD OPTOELECTRONIC CO., LTD.,  
[85] 2015-05-29  
[86] 2013-05-31 (PCT/CN2013/076609)  
[87] (WO2014/082435)  
[30] CN (201210501971.5) 2012-11-29

[11] **2,894,807**  
[13] C

[51] **Int.Cl. B60S 9/04 (2006.01) B62D 63/08 (2006.01)**  
[25] EN  
[54] **TRAILER STABILIZER AND LEVELER**  
[54] **APPAREIL DE STABILISATION ET MISE A NIVEAU DE REMORQUE**  
[72] KIMENER, THOMAS TERRANCE, US  
[73] STABILOCK, LLC,  
[86] (2894807)  
[87] (2894807)  
[22] 2015-06-18  
[30] US (62/014,387) 2014-06-19

[11] **2,894,844**  
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/04 (2013.01) A61K 38/18 (2006.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01) A61P 9/06 (2006.01)**  
[25] EN  
[54] **A SEAMLESS TUBULAR EXTRACELLULAR MATRIX PROSTHETIC VALVE AND METHOD FOR FORMING SAME**  
[54] **VALVULE PROTHETIQUE DE MATRICE EXTRACELLULAIRE TUBULAIRE CONTINUE ET SON PROCEDE DE FORMATION**  
[72] MATHENY, ROBERT G., US  
[73] CORMATRIX CARDIOVASCULAR, INC.,  
[85] 2015-06-11  
[86] 2013-05-29 (PCT/US2013/043141)  
[87] (WO2014/143108)  
[30] US (13/804,683) 2013-03-14

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[11] **2,895,682**  
[13] C

[51] **Int.Cl. C08L 63/00 (2006.01) D06M 15/00 (2006.01)**  
[25] EN  
[54] **LIQUID BINDER COMPOSITION FOR BINDING FIBROUS MATERIALS**  
[54] **COMPOSITION DE LIANT LIQUIDE POUR LIER DES MATIERES FIBREUSES**  
[72] RESTUCCIA, CARMELO LUCA, GB  
[72] JACOBS, WILLIAM, US  
[72] HOBISCH, GERALD, AT  
[72] PONSOLLE, DOMINIQUE, US  
[73] CYTEC TECHNOLOGY CORP.,  
[85] 2015-06-18  
[86] 2013-08-29 (PCT/US2013/057197)  
[87] (WO2014/099050)  
[30] US (61/739,748) 2012-12-20

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[11] **2,895,702**  
[13] C

[51] **Int.Cl. C07D 489/02 (2006.01) A61K 31/485 (2006.01) A61P 25/36 (2006.01)**  
[25] EN  
[54] **HEROIN HAPTENS, IMMUNOCONJUGATES AND RELATED USES**  
[54] **HAPTENES D'HEROINE, IMMUNOCONJUGUES ET UTILISATIONS ASSOCIEES**  
[72] JANDA, KIM D., US  
[73] THE SCRIPPS RESEARCH INSTITUTE,  
[85] 2015-06-18  
[86] 2011-12-21 (PCT/US2011/001997)  
[87] (WO2013/095321)

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[11] **2,895,881**  
[13] C

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/20 (2006.01) A61K 31/00 (2006.01) A61K 31/135 (2006.01)**  
[25] EN  
[54] **TABLET COMPOSITION COMPRISING CINACALCET HYDROCHLORIDE**  
[54] **COMPOSITION DE COMPRIME COMPRENANT DU CHLORHYDRATE DE CINACALCET**  
[72] MURPANI, DEEPAK, NL  
[72] VIVANCOS MARTINEZ, MARTA, ES  
[73] SYNTHON B.V.,  
[85] 2015-06-19  
[86] 2013-12-19 (PCT/EP2013/077523)  
[87] (WO2014/096277)  
[30] EP (PCT/EP2012/076732) 2012-12-21

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[11] **2,896,475**  
[13] C

[51] **Int.Cl. B01D 53/64 (2006.01) B01D 53/02 (2006.01) B01D 53/48 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR REMOVING MERCURY FROM EMISSIONS**  
[54] **SYSTEMES ET PROCEDES DE SUPPRESSION DU MERCURE DES EMISSIONS**  
[72] QUANCI, JOHN FRANCIS, US  
[72] SEATON, ASHLEY NICOLE, US  
[72] PRIEN, JUSTIN LEIGH, US  
[72] MCLAREN, JENNIFER RENEE, US  
[73] SUNCOKE TECHNOLOGY AND DEVELOPMENT LLC.,  
[85] 2015-06-25  
[86] 2012-12-28 (PCT/US2012/072167)  
[87] (WO2014/105062)

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[11] **2,896,932**  
[13] C

[51] **Int.Cl. C10M 133/06 (2006.01)**  
[25] EN  
[54] **AMINE COMPOSITIONS FOR INDUSTRIAL PROCESS FLUIDS**  
[54] **COMPOSITIONS AMINES DESTINEES A DES FLUIDES DE TRAITEMENT INDUSTRIELS**  
[72] DUNCAN, MICHAEL P., US  
[72] DEODHAR, D. JAMES, US  
[72] TOMAS, GEMA DEL OLMO, ES  
[72] THEIS, HEINZ GERHARD, DE  
[72] LITTLELY, PAUL ROGER, GB  
[73] FUCHS PETROLUB SE,  
[85] 2015-03-13  
[86] 2014-02-03 (PCT/US2014/014453)  
[87] (WO2015/116233)

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[11] **2,898,741**  
[13] C

[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/08 (2006.01) F01K 7/00 (2006.01) F02M 21/02 (2006.01) F02M 25/12 (2006.01)**  
[25] EN  
[54] **HYDROGEN PRODUCTION SYSTEM AND METHODS OF USING SAME**  
[54] **SYSTEME DE PRODUCTION D'HYDROGENE ET PROCEDES D'UTILISATION DE CELUI-CI**  
[72] MACRAE, GAVIN, CA  
[73] CLEAN WAVE ENERGY CORP.,  
[85] 2015-07-21  
[86] 2014-01-24 (PCT/CA2014/000056)  
[87] (WO2014/113880)  
[30] US (61/756,373) 2013-01-24

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[11] **2,900,654**  
[13] C

[51] **Int.Cl. F02P 13/00 (2006.01) F02C 7/266 (2006.01) H01T 13/08 (2006.01) F23R 3/00 (2006.01)**  
[25] EN  
[54] **FLEXIBLE BELLOWS IGNITER SEAL FOR A GAS TURBINE WITH A CERAMIC COMBUSTION LINER**  
[54] **JOINT D'ETANCHEITE A SOUFFLETS SOUPLES D'ALLUMEUR DE TURBINE A GAZ A CHEMISE DE COMBUSTION EN CERAMIQUE**  
[72] BENNETT, RUSSELL, US  
[72] BELL, MICHAEL S., US  
[73] ROLLS-ROYCE CORPORATION,  
[85] 2015-08-07  
[86] 2013-10-30 (PCT/US2013/067504)  
[87] (WO2014/137409)  
[30] US (61/774,422) 2013-03-07

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[11] **2,900,818**  
[13] C

[51] **Int.Cl. G06Q 40/00 (2012.01) G06K 9/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TAX DATA CAPTURE AND USE**  
[54] **SYSTEMES ET PROCEDES DE CAPTURE ET D'UTILISATION DES DONNEES FISCALES**  
[72] HUANG, NANKUN, US  
[72] EFTEKHARI, AMIR, US  
[72] HOWE, CAROL, US  
[72] TIFFORD, ALAN, US  
[72] LUDWIG, JEFFREY, US  
[73] INTUIT INC.,  
[85] 2015-08-10  
[86] 2013-05-10 (PCT/US2013/040628)  
[87] (WO2014/133570)  
[30] US (13/781,393) 2013-02-28

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[11] **2,901,822**  
[13] C

[51] **Int.Cl. B64D 13/06 (2006.01) B64C 39/02 (2006.01) B64D 27/02 (2006.01) B64D 35/00 (2006.01) B64D 41/00 (2006.01)**

[25] EN

[54] **PROPULSION, ELECTRICAL, AND THERMAL MANAGEMENT DEVICE FOR A SMALL UNMANNED AERIAL VEHICLE**

[54] **DISPOSITIF DE GESTION PROPULSIF, ELECTRIQUE ET THERMIQUE POUR UN PETIT VEHICULE AERIEN SANS PILOTE**

[72] GAGNE, STEVE, US  
[72] SIEGEL, WILLIAM L., US  
[72] WOUTERS, JERRY, US  
[72] DANNENHOFFER, THOMAS, US  
[73] ROLLS-ROYCE CORPORATION,  
[73] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC.,

[85] 2015-08-19  
[86] 2013-12-17 (PCT/US2013/075579)  
[87] (WO2014/149101)  
[30] US (61/802,108) 2013-03-15

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[11] **2,902,218**  
[13] C

[51] **Int.Cl. H01B 3/44 (2006.01) H01B 7/17 (2006.01)**

[25] EN

[54] **FIRE AND WATER RESISTANT CABLE**

[54] **CABLE RESISTANT AU FEU ET IMPERMEABLE**

[72] BATES, ERIC W., US  
[73] GENERAL CABLE TECHNOLOGIES CORPORATION,

[85] 2015-08-21  
[86] 2014-03-13 (PCT/US2014/025394)  
[87] (WO2014/151297)  
[30] US (13/837,602) 2013-03-15

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[11] **2,902,804**  
[13] C

[51] **Int.Cl. B32B 27/36 (2006.01) A61L 15/64 (2006.01)**

[25] EN

[54] **LAMINATE FILM USING POLYLACTIC ACID-BASED RESIN**

[54] **FILM STRATIFIE UTILISANT DE LA RESINE A L'ACIDE POLYLACTIQUE**

[72] HOCHI, MOTONORI, JP  
[72] GOTO, YUKI, JP  
[72] MINOMO, KATSUHIRO, JP  
[72] TAMIMIYA, NAOMI, JP  
[73] TORAY INDUSTRIES, INC.,  
[73] NANOTHETA CO, LTD.,

[85] 2015-08-27  
[86] 2014-03-06 (PCT/JP2014/055711)  
[87] (WO2014/141983)  
[30] JP (2013-053191) 2013-03-15

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[11] **2,903,951**  
[13] C

[51] **Int.Cl. H01M 12/06 (2006.01)**

[25] EN

[54] **POWER GENERATOR FOR GENERATING POWER BY SUPPLYING FUEL GAS TO A FUEL CELL**

[54] **GENERATEUR D'ALIMENTATION SERVANT A GENERER L'ALIMENTATION D'APPROVISIONNEMENT EN CARBURANT GAZEUX D'UNE PILE A COMBUSTIBLE**

[72] UCHIYAMA, NAOKI, JP  
[72] UCHIYAMA, YASUYUKI, JP  
[72] NAKABAYASHI, SEIGOU, JP  
[73] KABUSHIKI KAISHA ATSUMITEC,

[85] 2015-09-03  
[86] 2014-03-07 (PCT/JP2014/055990)  
[87] (WO2014/156566)  
[30] JP (2013-064202) 2013-03-26

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[11] **2,904,044**  
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 35/00 (2006.01) C07K 5/06 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **PYRROLOBENZODIAZEPINES AND CONJUGATES THEREOF**

[54] **PYRROLOBENZODIAZEPINES ET LEURS CONJUGUES**

[72] HOWARD, PHILIP WILSON, GB  
[72] FLYGARE, JOHN A., US  
[72] PILLOW, THOMAS, US  
[72] WEI, BINQING, US  
[73] MEDIMMUNE LIMITED,

[85] 2015-09-03  
[86] 2014-03-13 (PCT/IB2014/001029)  
[87] (WO2014/140862)  
[30] US (61/778,777) 2013-03-13  
[30] US (61/856,351) 2013-07-19

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[11] **2,904,147**  
[13] C

[51] **Int.Cl. E02F 3/24 (2006.01) E02F 9/28 (2006.01)**

[25] EN

[54] **BUCKET WHEEL FOR REMOVING MATERIALS FROM A MATERIAL COMPOSITE, PARTICULARLY OF HIGH HARDNESS**

[54] **ROUE A PALETTES DESTINEE AU DEMONTAGE DE MATERIAUX D'UN ASSEMBLAGE DE MATERIAUX PRESENTANT EN PARTICULIER UNE DURETE ELEVEE**

[72] RAAZ, VIKTOR, DE  
[72] GEESMANN, FRANZ-OTTO, DE  
[72] BUTTERBACH, EDELTRAUD, DE  
[72] HOFMANN, BASTIAN, DE  
[72] GRUSZIEN, CHRISTIAN, DE  
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG,

[85] 2015-09-04  
[86] 2014-03-10 (PCT/EP2014/054547)  
[87] (WO2014/139927)  
[30] DE (10 2013 102 407.6) 2013-03-11

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[11] **2,904,789**  
[13] C

[51] **Int.Cl. A01C 7/08 (2006.01) A01C 7/20 (2006.01)**  
[25] EN  
[54] **SPLIT METER ROLLER SHAFT**  
[54] **TIGE FENDUE POUR ROULEAU DOSEUR**  
[72] GERVAIS, JOEL JOHN OCTAVE, CA  
[72] BENT, ETHAN CURTIS STEPHEN, CA  
[73] CNH INDUSTRIAL CANADA, LTD.,  
[86] (2904789)  
[87] (2904789)  
[22] 2015-09-17  
[30] US (62/075,083) 2014-11-04

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[11] **2,904,908**  
[13] C

[51] **Int.Cl. A45C 11/00 (2006.01)**  
[25] EN  
[54] **WORKSITE BAG**  
[54] **SAC DESTINE A UN SITE DE TRAVAIL**  
[72] MOROZ, GARY K., CA  
[73] DIRTBAG DISTRIBUTORS INC.,  
[86] (2904908)  
[87] (2904908)  
[22] 2015-09-21  
[30] US (62/052,572) 2014-09-19

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[11] **2,905,887**  
[13] C

[51] **Int.Cl. B64C 39/02 (2006.01) B64C 31/02 (2006.01) B64D 47/00 (2006.01) G01B 11/245 (2006.01) G01S 13/89 (2006.01)**  
[25] EN  
[54] **DEPLOYABLE AIRBORNE SENSOR ARRAY SYSTEM AND METHOD OF USE**  
[54] **ARRANGEMENT DE RESEAU DE CAPTEURS AEROPORTES DEPLOYABLES ET METHODE D'UTILISATION**  
[72] HUMFELD, KEITH DANIEL, US  
[73] THE BOEING COMPANY,  
[86] (2905887)  
[87] (2905887)  
[22] 2015-09-23  
[30] US (14/540,408) 2014-11-13

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[11] **2,907,556**  
[13] C

[51] **Int.Cl. C01B 32/00 (2017.01) C01B 32/05 (2017.01) C01B 32/30 (2017.01) C01B 32/312 (2017.01)**  
[25] EN  
[54] **POROUS CARBON MATERIAL, PRECURSOR FOR POROUS CARBON MATERIAL, PROCESS FOR PRODUCING PRECURSOR FOR POROUS CARBON MATERIAL, AND PROCESS FOR PRODUCING POROUS CARBON MATERIAL**  
[54] **MATERIAU CARBONE POREUX, PRECURSEUR D'UN MATERIAU CARBONE POREUX, PROCEDE DE PRODUCTION D'UN PRECURSEUR D'UN MATERIAU CARBONE POREUX ET PROCEDE DE PRODUCTION D'UN MATERIAU CARBONE POREUX**  
[72] MIHARA, TAKAAKI, JP  
[72] TANAKA, KENTARO, JP  
[72] TAKEUCHI, KOSAKU, JP  
[72] HORIGUCHI, TOMOYUKI, JP  
[73] TORAY INDUSTRIES, INC.,  
[85] 2015-09-16  
[86] 2014-03-11 (PCT/JP2014/056278)  
[87] (WO2014/148303)  
[30] JP (2013-059845) 2013-03-22

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[11] **2,907,849**  
[13] C

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B65D 65/40 (2006.01)**  
[25] EN  
[54] **MULTILAYER FILM RESISTANT TO LINEAR TEAR PROPAGATION**  
[54] **FEUILLE MULTICOUCHE A PROPAGATION DE DECHIREMENT LINEAIRE**  
[72] SCHUHMAN, MICHAEL, DE  
[72] SCHMITZER, SIEGFRIED, DE  
[73] INFIANA GERMANY GMBH & CO. KG,  
[85] 2015-09-23  
[86] 2013-04-25 (PCT/EP2013/001242)  
[87] (WO2014/173423)

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[11] **2,909,680**  
[13] C

[51] **Int.Cl. A44B 11/25 (2006.01)**  
[25] EN  
[54] **CLOSURE DEVICE**  
[54] **DISPOSITIF DE FERMETURE**  
[72] FIEDLER, JOACHIM, DE  
[72] TUCHOLKE, ARTUR, DE  
[73] FIDLOCK GMBH,  
[85] 2015-10-16  
[86] 2013-05-24 (PCT/EP2013/060762)  
[87] (WO2014/180512)  
[30] EP (13167140.6) 2013-05-08

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[11] **2,910,946**  
[13] C

[51] **Int.Cl. A61C 7/00 (2006.01) A61C 7/36 (2006.01) A61C 13/20 (2006.01) B29C 51/02 (2006.01) B29C 51/10 (2006.01)**  
[25] EN  
[54] **DENTAL APPLIANCE SYSTEM AND METHOD OF MANUFACTURE**  
[54] **SYSTEME D'APPAREIL DENTAIRE ET PROCEDE DE FABRICATION**  
[72] FRANTZ, DONALD, US  
[72] FRANTZ, JOSEPH, US  
[72] KINCHEN, DANE, US  
[73] FRANTZ, DONALD,  
[85] 2015-10-28  
[86] 2014-06-03 (PCT/US2014/040763)  
[87] (WO2014/197516)  
[30] US (61/830,994) 2013-06-04  
[30] US (61/830,755) 2013-06-04

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[11] **2,914,976**  
[13] C

[51] **Int.Cl. C23C 28/00 (2006.01) C23C 18/44 (2006.01) C23C 22/50 (2006.01) C23G 1/08 (2006.01) C25D 5/36 (2006.01)**

[25] EN

[54] **GOLD PLATE COATED STAINLESS MATERIAL AND METHOD OF PRODUCING GOLD PLATE COATED STAINLESS MATERIAL**

[54] **MATERIAU INOXYDABLE PLAQUE OR ET PROCEDE DE PRODUCTION DE MATERIAU INOXYDABLE PLAQUE OR**

[72] MUKAI, NOBUAKI, JP  
[72] YOSHIDA, TAKAHIRO, JP  
[73] TOYO KOHAN CO., LTD.,  
[85] 2015-12-09  
[86] 2013-09-20 (PCT/JP2013/075562)  
[87] (WO2014/199526)  
[30] JP (2013-124693) 2013-06-13

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[11] **2,915,014**  
[13] C

[51] **Int.Cl. G10L 19/005 (2013.01)**

[25] EN

[54] **APPARATUS AND METHOD REALIZING A FADING OF AN MDCT SPECTRUM TO WHITE NOISE PRIOR TO FDNS APPLICATION**

[54] **APPAREIL ET PROCEDE REALISANT UN FONDU D'UN SPECTRE MDCT AU NIVEAU D'UN BRUIT BLANC AVANT UNE APPLICATION DE FDNS**

[72] SCHNABEL, MICHAEL, DE  
[72] MARKOVIC, GORAN, DE  
[72] SPERSCHNEIDER, RALPH, DE  
[72] LECOMTE, JEREMIE, DE  
[72] HELMRICH, CHRISTIAN, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[85] 2015-12-10  
[86] 2014-06-23 (PCT/EP2014/063175)  
[87] (WO2014/202788)  
[30] EP (13173154.9) 2013-06-21  
[30] EP (14166998.6) 2014-05-05

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[11] **2,915,179**  
[13] C

[51] **Int.Cl. B27N 3/00 (2006.01)**

[25] EN

[54] **STIFF MYCELIUM BOUND PART AND METHOD OF PRODUCING STIFF MYCELIUM BOUND PARTS**

[54] **RIGIDE ET METHODE DE PRODUCTION DE PIECES LIEES AU MYCELIUM RIGIDES**

[72] MCINTYRE, GAVIN R., US  
[72] TUDRYN, GREGORY JOHN, US  
[72] BETTS, JEFFREY D., US  
[72] WINISKI, JACOB, US  
[73] ECOVATIVE DESIGN LLC,  
[86] (2915179)  
[87] (2915179)  
[22] 2015-12-16

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[11] **2,916,552**  
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01)**

[25] EN

[54] **DIVALENT VACCINE COMPOSITIONS AND THE USE THEREOF FOR TREATING TUMORS**

[54] **COMPOSITIONS DE VACCINS DIVALENTS ET LEUR UTILISATION POUR LE TRAITEMENTDE TUMEURS**

[72] SANCHEZ RAMIREZ, BELINDA, CU  
[72] YGLESIAS RIVERA, ARIANNA, CU  
[72] GUTIERREZ PEREZ, AMELIA, CU  
[72] GONZALEZ SUAREZ, NARJARA, CU  
[73] CENTRO DE INMUNOLOGIA MOLECULAR,  
[85] 2015-12-22  
[86] 2014-08-01 (PCT/CU2014/000004)  
[87] (WO2015/014327)  
[30] CU (CU-2013-0110) 2013-08-02

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[11] **2,917,830**  
[13] C

[51] **Int.Cl. A01B 73/04 (2006.01)**

[25] EN

[54] **WORK VEHICLE VEHICULE DE TRAVAIL**

[72] VAN LOEN, LEONARDUS JOANNES ANTONIUS, NL  
[73] VANMAC BEHEER B.V.,  
[85] 2016-01-08  
[86] 2014-07-10 (PCT/NL2014/050471)  
[87] (WO2015/005788)  
[30] NL (2011144) 2013-07-11

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[11] **2,920,363**  
[13] C

[51] **Int.Cl. A61B 5/0295 (2006.01) A61B 5/00 (2006.01) A61B 5/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PREDICTING A NEED FOR A BLOOD TRANSFUSION**

[54] **PROCEDE ET APPAREIL DE PREDICTION D'UN BESOIN DE TRANSFUSION SANGUINE**

[72] HU, PETER FUMING, US  
[72] MACKENZIE, COLIN, US  
[72] YANG, SHIMING, US  
[72] CHEN, HEGANG, US  
[73] UNIVERSITY OF MARYLAND, BALTIMORE,  
[85] 2016-02-03  
[86] 2014-08-12 (PCT/US2014/050790)  
[87] (WO2015/023708)  
[30] US (61/864,832) 2013-08-12

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[11] **2,920,593**  
[13] C

[51] **Int.Cl. E05D 7/12 (2006.01) E05D 5/00 (2006.01)**

[25] EN

[54] **SPRING ACTUATED ENGAGEMENT DEVICE**

[54] **DISPOSITIF DE MISE EN PRISE ACTIONNE PAR RESSORT**

[72] SELES, MOSHE, IL  
[73] OPEN ART LTD,  
[85] 2016-02-05  
[86] 2014-08-06 (PCT/IL2014/050710)  
[87] (WO2015/019353)  
[30] IL (227894) 2013-08-08

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[11] **2,920,643**  
[13] C

[51] **Int.Cl. B67B 3/18 (2006.01) B67B 3/20 (2006.01) B67B 3/28 (2006.01)**

[25] EN

[54] **CAPPING MACHINE**

[54] **MACHINE DE PRODUCTION DE REVETEMENT D'EMBOUT**

[72] JALBERT, LUC, CA  
[72] BOISSONNEAULT, STEVE, CA  
[72] LEBEL, ALEXANDRE, CA  
[72] DEMERS, MAXIME, CA  
[72] BERCEANU, ALEXANDRU, CA  
[72] MONETTE, JONATHAN, CA  
[73] NJM PACKAGING INC.,  
[86] (2920643)  
[87] (2920643)  
[22] 2016-02-11

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[11] **2,921,492**  
[13] C

[51] **Int.Cl. G01V 9/00 (2006.01)**  
[25] EN  
[54] **RELATIVE PERMEABILITY  
INVERSION FROM HISTORICAL  
PRODUCTION DATA USING  
VISCOSITY RATIO INVARIANT  
STEP-FUNCTION RELATIVE  
PERMEABILITY  
APPROXIMATIONS**

[54] **INVERSION DE PERMEABILITE  
RELATIVE A PARTIR DE  
DONNEES DE PRODUCTION  
HISTORIQUES UTILISANT DES  
APPROXIMATIONS DE  
PERMEABILITE RELATIVE A  
FONCTION ECHELON  
INVARIABLE DU TAUX DE  
VISCOSITE**

[72] RAMSAY, TRAVIS ST. GEORGE, US  
[72] SMITH, TRACE BOONE, US  
[73] LANDMARK GRAPHICS  
CORPORATION,  
[85] 2016-02-16  
[86] 2013-09-16 (PCT/US2013/059982)  
[87] (WO2015/038161)

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[11] **2,921,587**  
[13] C

[51] **Int.Cl. H01Q 5/385 (2015.01) H01Q  
1/22 (2006.01) H01Q 1/40 (2006.01)  
H01Q 9/04 (2006.01)**

[25] EN  
[54] **ULTRA-THIN, FLEXIBLE,  
BROADBAND LOW PROFILE  
PLANAR WIRE ANTENNA**

[54] **ANTENNE FILAIRE PLANE A  
PROFIL BAS ET A LARGE BANDE  
FLEXIBLE ET ULTRA-MINCE**

[72] TINAPHONG, PRAPAN PAUL, US  
[72] ZHAO, SONGLING, US  
[72] RINEHART, JAMES K., US  
[73] VOXX INTERNATIONAL  
CORPORATION,  
[85] 2016-02-16  
[86] 2014-08-19 (PCT/US2014/051631)  
[87] (WO2015/026782)  
[30] US (61/867,877) 2013-08-20

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[11] **2,922,359**  
[13] C

[51] **Int.Cl. H04L 29/14 (2006.01) G08B  
5/38 (2006.01) H04L 12/40 (2006.01)**

[25] EN  
[54] **SYSTEMS AND METHODS TO  
DETECT BUS NETWORK FAULT  
AND TOPOLOGY**

[54] **SYSTEMES ET PROCEDES POUR  
DETECTER ANOMALIE ET  
TOPOLOGIE DE RESEAU EN BUS**

[72] HOFFKNECHT, MARC, CA  
[72] ROJAS, JAVIER ORLANDO, CA  
[72] O'HAGAN, LIAM JOHN, CA  
[73] OSRAM SYLVANIA INC.,  
[86] (2922359)  
[87] (2922359)  
[22] 2012-06-15  
[62] 2,836,307  
[30] US (13/161,321) 2011-06-15  
[30] US (13/161,349) 2011-06-15

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[11] **2,924,230**  
[13] C

[51] **Int.Cl. A61B 90/11 (2016.01) A61B  
90/13 (2016.01)**

[25] EN  
[54] **OPTICAL TARGETING AND  
VISUALIZATION OF  
TRAJECTORIES**

[54] **CIBLAGE OPTIQUE ET  
VISUALISATION DE  
TRAJECTOIRES**

[72] HAO, WANG, CA  
[72] DUGGAL, NEIL, CA  
[73] IMIRGE MEDICAL INC.,  
[85] 2016-03-14  
[86] 2014-09-18 (PCT/CA2014/050895)  
[87] (WO2015/039246)  
[30] US (61/879,620) 2013-09-18  
[30] US (62/051,784) 2014-09-17

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[11] **2,924,466**  
[13] C

[51] **Int.Cl. E21B 23/12 (2006.01) E21B  
23/14 (2006.01)**

[25] EN  
[54] **MULTILATERAL WELLBORE  
STIMULATION**

[54] **STIMULATION DE Puits DE  
FORAGE MULTILATERAL**

[72] DURST, DOUGLAS GLENN, US  
[73] HALLIBURTON ENERGY  
SERVICES, INC.,  
[85] 2016-03-15  
[86] 2013-12-20 (PCT/US2013/076966)  
[87] (WO2015/094347)

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[11] **2,924,775**  
[13] C

[51] **Int.Cl. A61F 9/007 (2006.01) A61F  
9/008 (2006.01) A61N 5/06 (2006.01)**

[25] EN  
[54] **CROSSLINKING CONTROL**

[54] **COMMANDE DE RETICULATION**

[72] DONITZKY, CHRISTOF, DE  
[72] WELLHOEFER, ARMIN, DE  
[73] ALCON INC.,  
[85] 2016-03-18  
[86] 2013-10-30 (PCT/EP2013/072710)  
[87] (WO2015/062648)

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[11] **2,924,981**  
[13] C

[51] **Int.Cl. C12N 9/64 (2006.01) A61K  
38/36 (2006.01) A61P 7/04 (2006.01)  
C07K 14/745 (2006.01) C40B 40/10  
(2006.01)**

[25] EN  
[54] **COMPOSITIONS COMPRISING  
HETEROGENEOUS  
POPULATIONS OF  
RECOMBINANT HUMAN  
CLOTTING FACTOR XA  
PROTEINS**

[54] **COMPOSITIONS COMPRENANT  
DES POPULATIONS  
HETEROGENES DE PROTEINES  
DE FACTEUR XA DE  
COAGULATION HUMAIN DE  
RECOMBINAISON**

[72] JANKOWSKI, MICHAEL ANTHONY,  
US  
[72] JOHNSON, KEITH A., US  
[72] PIACENZA, WENDY CAROL, US  
[72] ROUSE, JASON C., US  
[72] SHAMASHKIN, MICHAEL, US  
[72] SHARPE, PENELOPE JANE, US  
[72] SWITZER, MARY BETH, US  
[72] WESTON, STACEY B., US  
[73] PFIZER, INC.,  
[85] 2016-03-21  
[86] 2014-09-16 (PCT/IB2014/064564)  
[87] (WO2015/044836)  
[30] US (61/881,834) 2013-09-24

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[11] **2,925,113**  
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) G06F 17/16 (2006.01)**  
[25] EN  
[54] **REAL-TIME RISK PREDICTION DURING DRILLING OPERATIONS**  
[54] **PREDICTION DE RISQUE EN TEMPS REEL PENDANT DES OPERATIONS DE FORAGE**  
[72] DURSUN, SERKAN, US  
[72] TUNA, TAYFUN, US  
[72] DUMAN, KAAN, US  
[72] KELLOGG, ROBERT WEST, US  
[73] LANDMARK GRAPHICS CORPORATION,  
[85] 2016-03-22  
[86] 2013-10-25 (PCT/US2013/066856)  
[87] (WO2015/060865)

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[11] **2,926,145**  
[13] C

[51] **Int.Cl. C01B 32/05 (2017.01) C01B 32/00 (2017.01) C09K 8/03 (2006.01) C09K 8/467 (2006.01) E21B 33/14 (2006.01) C01B 32/30 (2017.01)**  
[25] EN  
[54] **COMPRESSIBLE CARBONACEOUS PARTICULATE MATERIAL AND METHOD OF MAKING SAME**  
[54] **MATERIAU PARTICULAIRE CARBONE COMPRESSIBLE ET SON PROCEDE DE FABRICATION**  
[72] ZHOU, CHANGJUN, US  
[72] NELSON, RICHARD D., US  
[73] SUPERIOR GRAPHITE CO.,  
[85] 2016-03-31  
[86] 2014-10-24 (PCT/US2014/062109)  
[87] (WO2015/099878)  
[30] US (14/140,730) 2013-12-26

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[11] **2,926,219**  
[13] C

[51] **Int.Cl. C08F 222/04 (2006.01) C08F 210/14 (2006.01) C08F 234/02 (2006.01) C08L 35/00 (2006.01)**  
[25] EN  
[54] **CONDUCTING POLYMER, 1-OCTADECENE, POLYMER WITH 2,5 FURANDIONE, METAL SALTS**  
[54] **POLYMERE CONDUCTEUR, POLYMERE D'1-OCTADECENE COMPORTANT DES SELS METALLIQUES DE 2,5 FURANDIONE**  
[72] LAURINO, JOSEPH P., US  
[73] LAURINO, JOSEPH P.,  
[85] 2016-04-01  
[86] 2014-10-28 (PCT/US2014/062638)  
[87] (WO2015/066015)  
[30] US (14/064,827) 2013-10-28

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[11] **2,927,345**  
[13] C

[51] **Int.Cl. C02F 1/30 (2006.01) A61L 2/10 (2006.01) A61L 9/20 (2006.01) C02F 1/32 (2006.01)**  
[25] EN  
[54] **RADIATION SOURCE MODULE WITH EXTRACTABLE RADIATION SOURCES AND FLUID TREATMENT SYSTEM**  
[54] **MODULE DE SOURCE DE RAYONNEMENT EQUIPE DE SOURCES DE RAYONNEMENT EXTRACTIBLES ET SYSTEME DE TRAITEMENT DE LIQUIDE**  
[72] GRATTON, RICHARD DAVID, CA  
[72] WEI, GUANG KUAN, CA  
[72] FROM, WESLEY DANIEL, CA  
[73] TROJAN TECHNOLOGIES,  
[86] (2927345)  
[87] (2927345)  
[22] 2016-04-15  
[30] US (62/178,651) 2015-04-16

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[11] **2,927,386**  
[13] C

[51] **Int.Cl. F16B 7/04 (2006.01) A01B 15/00 (2006.01) A01D 75/00 (2006.01) F16B 2/20 (2006.01)**  
[25] EN  
[54] **MOUNTING DEVICE FOR TUBULAR ELEMENTS**  
[54] **DISPOSITIF D'INSTALLATION D'ELEMENTS TUBULAIRES**  
[72] HARNETIAUX, TRAVIS L., US  
[73] CNH INDUSTRIAL AMERICA LLC,  
[86] (2927386)  
[87] (2927386)  
[22] 2016-04-18  
[30] US (14/755,415) 2015-06-30

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[11] **2,927,923**  
[13] C

[51] **Int.Cl. G10L 15/10 (2006.01) G01R 23/18 (2006.01)**  
[25] EN  
[54] **CLOSED-LOOP COMMAND AND RESPONSE SYSTEM FOR AUTOMATIC COMMUNICATIONS BETWEEN INTERACTING COMPUTER SYSTEMS OVER AN AUDIO COMMUNICATIONS CHANNEL**  
[54] **INSTRUCTION EN BOUCLE FERMEE ET SYSTEME DE REPONSE POUR COMMUNICATIONS AUTOMATIQUES ENTRE SYSTEMES INFORMATIQUES A INTERACTION VIA UN CANAL DE COMMUNICATION AUDIO**  
[72] DUNSMUIR, MARTIN, US  
[73] INTELLISIST, INC.,  
[86] (2927923)  
[87] (2927923)  
[22] 2003-03-27  
[62] 2,735,329  
[30] US (60/368,644) 2002-03-28

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[13] C

[51] **Int.Cl. F02M 13/08 (2006.01) F02D 19/06 (2006.01) F02M 13/06 (2006.01)**  
[25] EN  
[54] **OIL-GAS DUAL-PURPOSE INTEGRATED SWITCH**  
[54] **COMMUTEUR INTEGRE DOUBLE FONCTION PETROLE-GAZ**  
[72] ZHANG, BO, CN  
[72] YANG, QUAN, CN  
[72] ZOU, WEN-BIN, CN  
[72] DU, JING-HUA, CN  
[73] CHONGQING RATO TECHNOLOGY CO., LTD.,  
[86] (2928326)  
[87] (2928326)  
[22] 2016-04-28  
[30] CN (201510896763.3) 2015-12-08

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[11] **2,928,548**  
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/17 (2006.01)**  
[25] EN  
[54] **OPTIMIZING FLOW CONTROL DEVICE PROPERTIES FOR ACCUMULATED LIQUID INJECTION**  
[54] **OPTIMISATION DE PROPRIETES DE DISPOSITIF DE COMMANDE D'ECOULEMENT POUR INJECTION DE LIQUIDE ACCUMULE**  
[72] FILIPPOV, ANDREY, US  
[72] LU, JIANXIN, US  
[72] KHORIAKOV, VITALY, CA  
[73] LANDMARK GRAPHICS CORPORATION,  
[85] 2016-04-22  
[86] 2013-11-15 (PCT/US2013/070400)  
[87] (WO2015/073031)

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[11] **2,929,480**  
[13] C

[51] **Int.Cl. A61J 1/20 (2006.01)**  
[25] EN  
[54] **ADAPTER FOR VIAL ACCESS DEVICE**  
[54] **ADAPTEUR POUR DISPOSITIF D'ACCES A UN FLACON**  
[72] YEVMENENKO, YAN, US  
[72] WEIR, ROSS, GB  
[72] MOGENSEN, LASSE WESSELTOFT, GB  
[73] BECTON DICKINSON AND COMPANY LIMITED,  
[85] 2016-05-02  
[86] 2014-11-04 (PCT/US2014/063896)  
[87] (WO2015/069649)  
[30] US (61/900,562) 2013-11-06

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[11] **2,930,855**  
[13] C

[51] **Int.Cl. B32B 3/08 (2006.01) B32B 3/12 (2006.01) B32B 3/26 (2006.01) B32B 37/00 (2006.01)**  
[25] EN  
[54] **ACOUSTIC SANDWICH PANEL AND METHOD**  
[54] **PANNEAU EN COUCHES ACOUSTIQUE ET METHODE**  
[72] LEON, LUIS R., US  
[72] NANSEN, DAVID S., US  
[72] MESTER, LYNNE M., US  
[73] THE BOEING COMPANY,  
[86] (2930855)  
[87] (2930855)  
[22] 2016-05-20  
[30] US (14/828,102) 2015-08-17

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[11] **2,930,931**  
[13] C

[51] **Int.Cl. B60C 15/02 (2006.01) B60B 21/12 (2006.01) B60C 5/16 (2006.01)**  
[25] EN  
[54] **AN ADAPTER FOR A ROLLING ASSEMBLY SUCH AS A TIRE AND A RIM ASSEMBLY**  
[54] **UN ADAPTEUR DE MECANISME DE ROULEMENT COMME UN PNEU ET UN ASSEMBLAGE DE JANTE**  
[72] AHOUANTO, MICHEL, FR  
[72] BESTGEN, LUC, FR  
[72] TOPIN, ARTHUR, FR  
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN,  
[73] MICHELIN RECHERCHE ET TECHNIQUE S.A.,  
[85] 2016-05-17  
[86] 2014-12-17 (PCT/EP2014/078174)  
[87] (WO2015/091618)  
[30] FR (1362969) 2013-12-19

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[11] **2,931,403**  
[13] C

[51] **Int.Cl. A61L 2/00 (2006.01) A61L 2/24 (2006.01) A61L 9/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS WHICH DETERMINE OPERATING PARAMETERS AND DISINFECTION SCHEDULES FOR GERMICIDAL DEVICES AND GERMICIDAL LAMP APPARATUSES INCLUDING LENS SYSTEMS**  
[54] **SYSTEMES DE DEFINITION DES PARAMETRES DE FONCTIONNEMENT ET DES PROGRAMMES DE DESINFECTION DESTINES A DES DISPOSITIFS GERMICIDES ET DES APPAREILS A LAMPES GERMICIDES COMPRENANT DES SYSTEMES DE LENTILLE**  
[72] STIBICH, MARK A., US  
[72] CARPENTER, P. KEVIN, US  
[73] XENEX DISINFECTION SERVICES, LLC,  
[85] 2016-05-24  
[86] 2012-12-06 (PCT/US2012/068216)  
[87] (WO2014/088580)  
[30] US (13/706,926) 2012-12-06

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[11] **2,931,462**  
[13] C

[51] **Int.Cl. H01R 9/05 (2006.01) H01B 11/18 (2006.01) H01B 11/20 (2006.01)**  
[25] EN  
[54] **COAXIAL CABLE ASSEMBLY, ELECTRONIC PACKAGE AND CONNECTOR**  
[54] **ASSEMBLAGE DE CABLE COAXIAL, GROUPE ELECTRONIQUE ET CONNECTEUR**  
[72] FISNE, CHRISTOPHE, FR  
[72] PAQUET, ALEX, CA  
[72] FISETTE, BRUNO, CA  
[73] INSTITUT NATIONAL D'OPTIQUE,  
[86] (2931462)  
[87] (2931462)  
[22] 2016-05-26

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[11] **2,932,169**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 9/00 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **SUBSTITUTED 1H-PYRROLO[2,3-B]PYRIDINE AND 1H-PYRAZOLO[3,4-B]PYRIDINE DERIVATIVES AS SALT INDUCIBLE KINASE 2 (SIK2) INHIBITORS**  
[54] **DERIVES SUBSTITUES DE 1H-PYRROLO[2,3-B]PYRIDINE ET 1H-PYRAZOLO[3,4-B]PYRIDINE EN TANT QU'INHIBITEURS DE KINASES 2 INDUCTIBLES PAR UN SEL (SIK2)**  
[72] VANKAYALAPATI, HARIPRASAD, US  
[72] YERRAMREDDY, VENKATAKRISHNAREDDY, IN  
[72] GANIPSETTY, VENU BABU, IN  
[72] TALLURI, SURESHKUMAR, IN  
[72] APPALANENI, RAJENDRA P., US  
[73] ARRIEN PHARMACEUTICALS LLC,  
[85] 2016-05-30  
[86] 2013-12-10 (PCT/US2013/074191)  
[87] (WO2014/093383)  
[30] US (61/737,618) 2012-12-14  
[30] US (14/101,109) 2013-12-09

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[11] **2,932,303**  
[13] C

[51] **Int.Cl. G06T 5/00 (2006.01) G06T 1/00 (2006.01)**  
[25] EN  
[54] **IMAGE GENERATING APPARATUS, IMAGE GENERATING METHOD, AND PROGRAM**  
[54] **APPAREIL, PROCEDE ET PROGRAMME DE PRODUCTION D'UNE IMAGE**  
[72] NAKAGAWA, DAISUKE, JP  
[72] KAWAI, NORIHIKO, JP  
[72] SATO, TOMOKAZU, JP  
[72] YOKOYA, NAOKAZU, JP  
[73] RICOH COMPANY, LTD.,  
[73] NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND TECHNOLOGY,  
[85] 2016-05-31  
[86] 2014-12-11 (PCT/JP2014/083493)  
[87] (WO2015/093553)  
[30] JP (2013-264019) 2013-12-20

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[11] **2,934,705**  
[13] C

[51] **Int.Cl. C07K 14/755 (2006.01) A61K 38/37 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR MANUFACTURING FACTOR VIII HAVING AN IMPROVED RATIO OF FVIII:C/FVIII:AG**  
[54] **PROCEDE DE FABRICATION DE FACTEUR VIII AYANT UN RAPPORT AMELIORE DE FVIII:C/FVIII:AG**  
[72] WINGE, STEFAN, SE  
[72] DADAIAN, MARINA, SE  
[72] JOHANSSON, ERICA, SE  
[72] FUCHS, BIRTE, DE  
[73] OCTAPHARMA AG,  
[85] 2016-06-21  
[86] 2015-01-20 (PCT/EP2015/051028)  
[87] (WO2015/107222)  
[30] EP (14151769.8) 2014-01-20

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[11] **2,935,086**  
[13] C

[51] **Int.Cl. G01N 23/046 (2018.01)**  
[25] EN  
[54] **CT SYSTEMS AND METHODS SYSTEMES ET METHODES DE TOMOGRAPHIE PAR ORDINATEUR**  
[72] ZHANG, LI, CN  
[72] CHEN, ZHIQIANG, CN  
[72] HUANG, QINGPING, CN  
[72] JIN, XIN, CN  
[72] SUN, YUNDA, CN  
[72] SHEN, LE, CN  
[72] ZHAO, JI, CN  
[73] TSINGHUA UNIVERSITY,  
[73] NUCTECH COMPANY LIMITED,  
[85] 2016-06-27  
[86] 2014-12-25 (PCT/CN2014/094994)  
[87] (WO2015/096784)  
[30] CN (201310739803.4) 2013-12-26

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[11] **2,935,291**  
[13] C

[51] **Int.Cl. B08B 3/12 (2006.01) B08B 7/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR SURFACE CLEANING**  
[54] **SYSTEME ET PROCEDE DE NETTOYAGE DE SURFACES**  
[72] PONOMAREV, SERGEY, US  
[73] THE BOEING COMPANY,  
[85] 2016-06-27  
[86] 2015-01-28 (PCT/US2015/013211)  
[87] (WO2015/126585)  
[30] US (14/187,865) 2014-02-24

**Brevets canadiens délivrés  
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[11] **2,936,643**  
[13] C

[51] **Int.Cl. B29C 64/386 (2017.01) B33Y 50/02 (2015.01) B22D 23/00 (2006.01) B22D 25/00 (2006.01) G05B 17/02 (2006.01) G06F 17/17 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD TO PREDETERMINE A MECHANICAL PROPERTY OF A THREE-DIMENSIONAL OBJECT BUILT BY ADDITIVE MANUFACTURING**

[54] **APPAREIL ET METHODE SERVANT A PREDETERMINER UNE PROPRIETE MECANIQUE D'UN OBJET TRIDIMENSIONNEL CONSTRUIT PAR FABRICATION ADDITIVE**

[72] HAYES, MICHAEL W., US  
[72] STRAHM, LOREN J., US  
[72] CUDDY, NATHANIAL C., US  
[72] MUNTGES, DANIEL E., US  
[73] THE BOEING COMPANY,  
[86] (2936643)  
[87] (2936643)  
[22] 2016-07-19  
[30] US (14/939,336) 2015-11-12

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[11] **2,938,743**  
[13] C

[51] **Int.Cl. A61M 16/06 (2006.01)**

[25] EN

[54] **NASAL CANNULA**

[54] **CATHETER NASAL**

[72] HOBSON, NICHOLAS ALEXANDER, NZ  
[72] KORNER, STEVEN CHARLES, NZ  
[72] WHITE, CRAIG KARL, NZ  
[72] BEURDEN, JASON VAN, NZ  
[73] FISHER & PAYKEL HEALTHCARE LIMITED,  
[86] (2938743)  
[87] (2938743)  
[22] 2009-12-01  
[62] 2,686,747  
[30] US (61/118750) 2008-12-01

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[11] **2,939,123**  
[13] C

[51] **Int.Cl. B03B 9/02 (2006.01) C10G 1/04 (2006.01)**

[25] EN

[54] **DISTRIBUTOR CONSTRUCTIONS AND TECHNIQUES FOR SEPARATING A VOLATILE SOLVENT FROM TAILINGS**

[54] **CONSTRUCTIONS DE DISTRIBUTEUR ET TECHNIQUES DE SEPARATION D'UN SOLVANT VOLATIL DES RESIDUS**

[72] VAN DER MERWE, SHAWN, CA  
[72] SHARIATI, MOHAMMAD, CA  
[72] VAKIL, ALI, CA  
[72] MOYLS, BENITO, CA  
[72] DEMKO, BRYAN, CA  
[73] FORT HILLS ENERGY L.P.,  
[86] (2939123)  
[87] (2939123)  
[22] 2016-08-16

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[11] **2,939,892**  
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **AZAINDOLE ACETIC ACID DERIVATIVES AND THEIR USE AS PROSTAGLANDIN D2 RECEPTOR MODULATORS**

[54] **DERIVES D'ACIDE AZA-INDOL-ACETIQUE ET LEUR UTILISATION COMME MODULATEURS DES RECEPTEURS DE LA PROSTAGLANDINE D2**

[72] AISSAOUI, HAMED, CH  
[72] BOSS, CHRISTOPH, CH  
[72] BOUIS, PATRICK, CH  
[72] HAZEMANN, JULIEN, CH  
[72] SIEGRIST, ROMAIN, CH  
[73] IDORSIA PHARMACEUTICALS LTD,  
[85] 2016-08-16  
[86] 2015-03-16 (PCT/IB2015/051895)  
[87] (WO2015/140684)  
[30] IB (PCT/IB2014/059883) 2014-03-17

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[11] **2,941,946**  
[13] C

[51] **Int.Cl. E05D 15/26 (2006.01) E05D 13/00 (2006.01) E06B 3/48 (2006.01) E06B 3/50 (2006.01)**

[25] EN

[54] **FOLD-UP WINDOW HARDWARE**

[54] **QUINCAILLERIE DE FENETRE PLIANTE**

[72] SEBASTIAN, ANTHONY, US  
[72] LUCCI, ROBERT M., US  
[72] MILLIGAN, PATRICK, US  
[72] MCINNIS, JAMES, US  
[72] GILLOW, BEAU, US  
[73] CALDWELL MANUFACTURING COMPANY NORTH AMERICA, LLC,  
[86] (2941946)  
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[22] 2016-09-14  
[30] US (62/218,827) 2015-09-15  
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[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **B7-H1 AND METHODS OF DIAGNOSIS, PROGNOSIS, AND TREATMENT OF CANCER**

[54] **B7-H1 ET PROCEDES DE DIAGNOSTIC, DE PRONOSTIC ET DE TRAITEMENT DU CANCER**

[72] CHENG, LIEPING, US  
[72] STROME, SCOTT E., US  
[72] KWON, EUGENE D., US  
[73] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH,  
[86] (2943949)  
[87] (2943949)  
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[51] **Int.Cl. A61K 31/465 (2006.01) A61K 9/14 (2006.01) A61K 9/72 (2006.01) A61P 25/34 (2006.01)**

[25] EN

[54] **NICOTINE FORMULATIONS AND METHODS OF MAKING THE SAME**

[54] **FORMULATIONS DE NICOTINE ET LEURS PROCEDES DE PREPARATION**

[72] STENZLER, ALEX, US  
[72] SLUTSKY, ARTHUR, CA  
[72] ZAMEL, NOE, CA  
[73] PHILIP MORRIS PRODUCTS S.A.,  
[85] 2016-09-29  
[86] 2015-04-08 (PCT/IB2015/001327)  
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[13] C

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[54] **SOLID-STATE STRETCHED HDPE**

[54] **HDPE ETIRE A L'ETAT SOLIDE**

[72] SUN, LUYI, US  
[72] MCLEOD, MICHAEL, US  
[72] ASHBAUGH, JOHN, US  
[72] LI, FENGKUI, US  
[72] DANIELS, LELAND, US  
[73] FINA TECHNOLOGY, INC.,  
[85] 2016-09-30  
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[54] **LIAISON BIO POUR AUTHENTIFICATION D'UTILISATEUR**

[72] DERAKHSHANI, REZA R., US  
[73] EYEVERIFY INC.,  
[85] 2016-10-05  
[86] 2015-03-30 (PCT/US2015/023344)  
[87] (WO2015/157021)  
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[13] C

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[25] EN

[54] **DRILL STEM SAFETY VALVE ACTUATOR**

[54] **ACTIONNEUR DE VANNE DE SECURITE DE TIGE DE FORAGE**

[72] STANDBRIDGE, TONY CHARLES LEON, CA  
[72] CHAPITAL, JORGE PABLO, CA  
[72] EPHRAIM, AARON BEN, CA  
[72] AHMADIMOGHADDAM, HAMIDREZA, CA  
[72] SAGARE, AMOL JAGADISH, CA  
[72] HOHL, TOD MICHAEL, CA  
[72] RABBY, PATRICK, CA  
[72] BRISBANE, BRIAN JAMES, CA  
[73] HI-KALIBRE EQUIPMENT LIMITED,  
[86] (2945210)  
[87] (2945210)  
[22] 2016-06-14  
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[25] EN

[54] **PLUG CONNECTOR, RUBBER MEMBER, AND RING MEMBER**

[54] **CONNECTEUR DE BOUGIE, ELEMENT EN CAOUTCHOUC ET ELEMENT ANNULAIRE**

[72] OHTA, JUNPEI, JP  
[72] FUMA, TOMOHIRO, JP  
[73] NGK SPARK PLUG CO., LTD.,  
[85] 2016-10-07  
[86] 2015-05-13 (PCT/JP2015/063835)  
[87] (WO2015/178278)  
[30] JP (2014-103862) 2014-05-19

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[25] EN

[54] **SYSTEMS, METHODS, DEVICES AND COMPUTER READABLE MEDIUM FOR REAL AND NEAR-REAL TIME SENSOR DATA CAPTURE AND ANALYSIS**

[54] **SYSTEMES, PROCEDES, DISPOSITIFS ET SUPPORT APTE A ETRE LU PAR ORDINATEUR POUR CAPTURE ET ANALYSE DE DONNEES DE CAPTEUR EN TEMPS REEL ET QUASI-REEL**

[72] BYRON, JEREMY, CA  
[72] CLINCH, TRACY, CA  
[73] MASITEK INSTRUMENTS INC.,  
[85] 2016-10-14  
[86] 2015-04-17 (PCT/CA2015/000252)  
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[13] C

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[25] EN

[54] **ROLLING ELEMENT ASSEMBLIES**

[54] **ENSEMBLES D'ELEMENTS DE ROULEMENT**

[72] HINZ, BRANDON JAMES, US  
[72] GROSZ, GREGORY CHRISTOPHER, US  
[72] ANDERLE, SETH, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2016-10-18  
[86] 2015-05-15 (PCT/US2015/030981)  
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[54] **ELECTRODE ARRANGEMENTS FOR TEST ELEMENT INTEGRITY**  
[54] **AGENCEMENT D'ELECTRODES POUR INTEGRITE D'ELEMENT D'ESSAI**  
[72] BUCK, HARVEY, JR., US  
[72] JERNIGAN, WALTER, US  
[73] F. HOFFMANN-LA ROCHE AG,  
[85] 2016-10-26  
[86] 2015-06-01 (PCT/US2015/033577)  
[87] (WO2015/187580)  
[30] US (62/008,160) 2014-06-05

[11] **2,947,359**

[13] C

- [51] **Int.Cl. B21J 9/18 (2006.01)**  
[25] EN  
[54] **LINKAGE PRESS MACHINE**  
[54] **PRESSE A ARTICULATION**  
[72] FAITEL, WILLIAM M., US  
[73] BTM COMPANY LLC,  
[86] (2947359)  
[87] (2947359)  
[22] 2016-11-03  
[30] US (62/259,697) 2015-11-25

[11] **2,948,677**

[13] C

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[25] EN  
[54] **DENTIFRICE COMPOSITIONS HAVING DENTAL PLAQUE MITIGATION OR IMPROVED FLUORIDE UPTAKE**  
[54] **COMPOSITIONS DE DENTIFRICE PERMETTANT DE REDUIRE LA PLAQUE DENTAIRE OU D'AMELIORER L'ABSORPTION DE FLUORURE**  
[72] CHEN, HAIJING, CN  
[72] STRAND, ROSS, SG  
[72] WHITE, DONALD JAMES, JR., US  
[72] YANG, HONGMEI, CN  
[73] THE PROCTER & GAMBLE COMPANY,  
[85] 2016-11-10  
[86] 2015-04-28 (PCT/CN2015/077633)  
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[30] CN (PCT/CN2014/077536) 2014-05-15

[11] **2,948,767**

[13] C

- [51] **Int.Cl. A01N 1/02 (2006.01) C12M 3/00 (2006.01) C12Q 1/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR EX VIVO LUNG CARE**  
[54] **SYSTEMES ET METHODES DE SOINS PULMONAIRES EX VIVO**  
[72] FISHMAN, ROBERT, US  
[72] HAVENER, ROBERT, US  
[72] FATTAH, IHAB ABDEL, US  
[72] ABDELAZIM, ANAS, US  
[72] NEWELL, SCOTT, US  
[72] BISHOP, TOM, US  
[72] KHAYAL, TAMER, US  
[72] KYI, STANLEY, US  
[72] TAYLOR, RONALD, US  
[72] HARRIOTT, DOUG, US  
[72] DE REMER, MATTHEW, US  
[72] MURRAY, PAUL, US  
[72] SULLIVAN, JOHN, US  
[72] ANDERSON, MARK, US  
[72] BRINGHAM, RICHARD, US  
[72] VAN DRIEL, MICHAEL, US  
[72] HASSANEIN, WALEED, US  
[73] TRANSMEDICS, INC.,  
[86] (2948767)  
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[30] US (61/024,976) 2008-01-31  
[30] US (12/099,725) 2008-04-08  
[30] US (12/099,717) 2008-04-08  
[30] US (12/099,687) 2008-04-08  
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[11] **2,948,932**

[13] C

- [51] **Int.Cl. C08L 23/16 (2006.01) C08F 2/00 (2006.01) C08L 23/06 (2006.01)**  
[25] EN  
[54] **ETHYLENE POLYMER COMPOSITION AND USE THEREOF IN POLYOLEFIN COMPOSITIONS**  
[54] **COMPOSITION A BASE D'UN POLYMER D'ETHYLENE ET SON UTILISATION DANS DES COMPOSITIONS DE POLYOLEFINES**  
[72] CAVALIERI, CLAUDIO, IT  
[72] GRAZZI, MICHELE, IT  
[72] PANTALEONI, ROBERTO, IT  
[73] BASELL POLYOLEFINE GMBH,  
[85] 2016-11-14  
[86] 2015-04-28 (PCT/EP2015/059245)  
[87] (WO2015/180919)  
[30] EP (14170318.1) 2014-05-28

[11] **2,950,452**

[13] C

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[25] EN  
[54] **AMANTADINE NITRATE COMPOUNDS WITH NEURAL PROTECTIVE EFFECT, AND PREPARATION AND MEDICAL USE THEREOF**  
[54] **COMPOSES DE NITRATE D'AMANTADINE A EFFET PROTECTEUR NEUTRE, ET PREPARATION ET USAGE MEDICAL ASSOCIES**  
[72] WANG, YUQIANG, CN  
[72] LIU, ZHENG, CN  
[72] YU, PEI, CN  
[72] SUN, YEWEI, CN  
[72] ZHANG, ZAIJUN, CN  
[72] ZHANG, GAOXIAO, CN  
[72] SHAN, LUCHEN, CN  
[72] YI, PENG, CN  
[72] LARRICK, JAMES, CN  
[73] GUANGZHOU MAGPIE PHARMACEUTICALS CO., LTD.,  
[85] 2016-11-28  
[86] 2015-05-08 (PCT/CN2015/000314)  
[87] (WO2015/180485)  
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[25] EN  
[54] **MISOPROSTOL DISPERSIBLE TABLET**  
[54] **COMPRIME DISPERSIBLE DE MISOPROSTOL**  
[72] SELVARAJ, SEKAR, IN  
[72] ELUMALAI, BASKAR, IN  
[72] ARUNACHALAM, MALAIARASAN, IN  
[72] VENUGOPAL, PRABHAKARAN, IN  
[73] AZANTA DANMARK A/S,  
[85] 2017-01-03  
[86] 2015-07-10 (PCT/DK2015/050216)  
[87] (WO2016/004960)  
[30] US (14/329,023) 2014-07-11  
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[51] **Int.Cl. E21B 47/01 (2012.01) G01V 3/18 (2006.01) G01V 3/26 (2006.01)**  
[25] EN  
[54] **MAGNETOMETER MOUNTING FOR ISOLATION AND INTERFERENCE REDUCTION**  
[54] **MONTAGE DE MAGNETOMETRE POUR L'ISOLATION ET LA REDUCTION DU BROUILLAGE**  
[72] FARRAH, JOHN HARRISON, US  
[72] PRAKASH, ANAND, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2017-01-05  
[86] 2015-04-30 (PCT/US2015/028495)  
[87] (WO2016/022185)  
[30] US (62/035,009) 2014-08-08

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[13] C

[51] **Int.Cl. E21B 7/04 (2006.01) E21B 7/06 (2006.01) E21B 41/00 (2006.01)**  
[25] EN  
[54] **COMPLETION DEFLECTOR FOR INTELLIGENT COMPLETION OF WELL**  
[54] **DEFLECTEUR DE COMPLETION POUR COMPLETION INTELLIGENTE DE PUIT**  
[72] STEELE, DAVID J., US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2017-01-19  
[86] 2014-09-17 (PCT/US2014/056112)  
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[51] **Int.Cl. H04W 52/32 (2009.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR DUAL-CONNECTIVITY OPERATION**  
[54] **SYSTEMES ET PROCEDES DE FONCTIONNEMENT EN DOUBLE CONNECTIVITE**  
[72] YIN, ZHANPING, US  
[73] SHARP KABUSHIKI KAISHA,  
[85] 2017-02-02  
[86] 2015-08-04 (PCT/US2015/043671)  
[87] (WO2016/022600)  
[30] US (14/453,488) 2014-08-06

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[13] C

[51] **Int.Cl. G01N 23/046 (2018.01) G21H 7/00 (2006.01) H01J 47/00 (2006.01)**  
[25] EN  
[54] **PARTICLE DETECTION AND APPLICATIONS IN SECURITY AND PORTAL MONITORING**  
[54] **DETECTION PARTIELLE ET APPLICATIONS DANS LA SURVEILLANCE DE SECURITE ET DE PORTAIL**  
[72] MORRIS, CHRISTOPHER L., US  
[72] MAKELA, MARK F., US  
[73] LOS ALAMOS NATIONAL SECURITY, LLC,  
[86] (2957348)  
[87] (2957348)  
[22] 2007-10-26  
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[30] US (60/855,064) 2006-10-27  
[30] US (11/771,169) 2007-06-29

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[51] **Int.Cl. G01S 1/80 (2006.01) G08B 21/02 (2006.01)**  
[25] EN  
[54] **ULTRASONIC LOCATIONING INTERLEAVED WITH ALTERNATE AUDIO FUNCTIONS**  
[54] **ENTRELACEMENT DE LOCALISATION PAR ULTRASONS AVEC D'AUTRES FONCTIONS AUDIO**  
[72] CALVARESE, RUSSELL E., US  
[72] CONNOLLY, SEAN A., US  
[72] DUBOIS, JANINE E., US  
[72] LAVERY, RICHARD J., US  
[72] MARVEL, SEAN D., US  
[73] SYMBOL TECHNOLOGIES, LLC,  
[85] 2017-02-23  
[86] 2015-08-13 (PCT/US2015/044967)  
[87] (WO2016/043880)  
[30] US (14/487,194) 2014-09-16

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[13] C

[51] **Int.Cl. G01S 1/00 (2006.01) G06K 7/10 (2006.01)**  
[25] EN  
[54] **CO-LOCATED LOCATIONING TECHNOLOGIES**  
[54] **TECHNOLOGIES DE LOCALISATION CO-LOCALISEE**  
[72] BELLOWS, DAVID E., US  
[72] JAFFRI, REHAN K., US  
[72] MARVEL, SEAN D., US  
[73] SYMBOL TECHNOLOGIES, LLC,  
[85] 2017-02-23  
[86] 2015-09-16 (PCT/US2015/050416)  
[87] (WO2016/048748)  
[30] US (14/492,110) 2014-09-22

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- [25] EN
- [54] **TELLURATE JOINING GLASS HAVING PROCESSING TEMPERATURES LESS THAN OR EQUAL TO 420 C**
- [54] **VERRE JOINTE AU TELLURATE AYANT DES TEMPERATURES DE TRAITEMENT INFÉRIEURES OU ÉGALES A 420 C**
- [72] GODEKE, DIETER, DE
- [72] SRIDHARAN, SRINIVASAN, US
- [73] FERRO GMBH,
- [85] 2017-02-24
- [86] 2015-09-28 (PCT/EP2015/072207)
- [87] (WO2016/050668)
- [30] DE (10 2014 014 322.8) 2014-10-01

[11] **2,960,111**

[13] C

- [51] **Int.Cl. A63C 1/30 (2006.01)**
- [25] EN
- [54] **BLADE HOLDER ASSEMBLY**
- [54] **DISPOSITIF DE SUPPORT DE LAME**
- [72] CHARTRAND, DANIEL, CA
- [72] DAOUST, BERNARD, CA
- [73] SPORT MASKA INC.,
- [86] (2960111)
- [87] (2960111)
- [22] 2017-03-07
- [30] US (62/305,180) 2016-03-08
- [30] US (62/329,281) 2016-04-29

[11] **2,961,071**

[13] C

- [51] **Int.Cl. B60C 25/00 (2006.01) B60C 25/18 (2006.01) B60S 5/00 (2006.01)**
- [25] EN
- [54] **TIRE DEFLATION APPARATUS AND METHOD**
- [54] **APPAREIL ET PROCÉDE DE DEGONFLAGE DE PNEU**
- [72] WEFLÉN, DARRYL, CA
- [73] WEFLÉN, DARRYL,
- [85] 2017-03-13
- [86] 2015-05-05 (PCT/CA2015/000297)
- [87] (WO2016/049734)
- [30] US (62/059,735) 2014-10-03

[11] **2,961,853**

[13] C

- [51] **Int.Cl. B62K 21/00 (2006.01) B62K 5/05 (2013.01) B62K 21/22 (2006.01)**
- [25] EN
- [54] **A VEHICLE WITH A SLOPING STEERING COLUMN**
- [54] **VEHICULE A COLONNE DE DIRECTION INCLINÉE**
- [72] LEMAITRE, BENOIT, FR
- [73] DECATHLON,
- [85] 2017-03-20
- [86] 2015-09-17 (PCT/FR2015/052493)
- [87] (WO2016/046475)
- [30] FR (1458938) 2014-09-23

[11] **2,961,896**

[13] C

- [51] **Int.Cl. A61C 17/36 (2006.01) H02J 50/10 (2016.01) A46B 13/04 (2006.01) A61C 17/34 (2006.01) G08C 17/04 (2006.01) H02J 7/00 (2006.01) H04W 84/18 (2009.01) G08C 23/04 (2006.01)**
- [25] EN
- [54] **ORAL CLEANSING DEVICE WITH REMOVABLE BASE**
- [54] **DISPOSITIF DE NETTOYAGE BUCCAL A BASE AMOVIBLE**
- [72] SOKOL, GARY L., US
- [72] LUETTGEN, HAROLD A., US
- [73] WATER PIK, INC.,
- [86] (2961896)
- [87] (2961896)
- [22] 2014-03-17
- [62] 2,905,566
- [30] US (61/802,121) 2013-03-15

[11] **2,962,229**

[13] C

- [51] **Int.Cl. H01M 8/24 (2016.01) H01M 8/02 (2016.01) H01M 8/12 (2016.01)**
- [25] EN
- [54] **SOLID OXIDE FUEL CELL STACK**
- [54] **EMPILEMENT DE PILES A COMBUSTIBLE A OXYDE SOLIDE**
- [72] MORIKAWA, TETSUYA, JP
- [72] HOTTA, NOBUYUKI, JP
- [73] NGK SPARK PLUG CO., LTD.,
- [85] 2017-03-22
- [86] 2015-08-28 (PCT/JP2015/004362)
- [87] (WO2016/047048)
- [30] JP (2014-192936) 2014-09-22

[11] **2,963,016**

[13] C

- [51] **Int.Cl. F03D 13/00 (2016.01) F03D 80/80 (2016.01) F16D 63/00 (2006.01)**
- [25] EN
- [54] **MAIN SHAFT FIXTURE**
- [54] **DISPOSITIF DE FIXATION D'ARBRE PRINCIPAL**
- [72] FENGER, PER E., DK
- [73] LIFTRA IP APS,
- [85] 2017-03-29
- [86] 2015-10-06 (PCT/DK2015/000040)
- [87] (WO2016/055065)
- [30] DK (PA 2014 00573) 2014-10-07
- [30] DK (PA 2015 00527) 2015-09-04

[11] **2,963,301**

[13] C

- [51] **Int.Cl. E01C 19/20 (2006.01)**
- [25] EN
- [54] **HOPPER BAFFLE ASSEMBLY FOR ASPHALT PAVING MACHINE**
- [54] **ENSEMBLE DEFLECTEUR DE TREMIE POUR FINISSEUR D'ASPHALTE**
- [72] BLANK, MIKEL A., US
- [73] ROADTEC, INC.,
- [85] 2017-03-30
- [86] 2015-10-13 (PCT/US2015/055297)
- [87] (WO2016/061082)
- [30] US (62/064,327) 2014-10-15

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[13] C

[51] **Int.Cl. C07D 413/06 (2006.01) A61K 31/422 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **ISOXAZOLE DERIVATIVE AS MUTANT ISOCITRATE DEHYDROGENASE 1 INHIBITOR**

[54] **DERIVE D'ISOXAZOLE COMME INHIBITEUR DE L'ISOCITRATE DESHYDROGENASE 1 MUTE**

[72] SAITO, SHOICHI, JP  
[72] ITOH, MASAO, JP  
[72] FUJISAWA, TETSUNORI, JP  
[72] SAITO, HIRONAO, JP  
[72] KIYOTSUKA, YOHEI, JP  
[72] WATANABE, HIDEAKI, JP  
[72] MATSUNAGA, HIRONORI, JP  
[72] KAGOSHIMA, YOSHIKO, JP  
[72] SUZUKI, TETSUYA, JP  
[72] OGAWARA, YOKO, JP  
[72] KITABAYASHI, KAZUO, JP  
[73] DAIICHI SANKYO COMPANY, LIMITED,  
[73] NATIONAL CANCER CENTER,  
[85] 2017-03-31  
[86] 2015-10-01 (PCT/JP2015/077916)  
[87] (WO2016/052697)  
[30] JP (2014-203475) 2014-10-01  
[30] JP (2015-116774) 2015-06-09

[11] **2,963,533**  
[13] C

[51] **Int.Cl. F01D 25/24 (2006.01) F02C 7/20 (2006.01)**

[25] EN

[54] **FLANGE FASTENING ASSEMBLY IN A GAS TURBINE ENGINE**

[54] **DISPOSITIF DE FIXATION DE BRIDE DESTINE A UNE TURBINE A GAZ**

[72] KAPPES, MATTHEW J., US  
[72] ROMANOWSKI, ERIN M., US  
[72] BURNEY, DENNES K., US  
[73] ROLLS-ROYCE CORPORATION,  
[86] (2963533)  
[87] (2963533)  
[22] 2017-04-06  
[30] US (15/299,022) 2016-10-20

[11] **2,964,076**  
[13] C

[51] **Int.Cl. E21B 37/06 (2006.01) C09K 8/532 (2006.01) C09K 8/54 (2006.01) E21B 41/02 (2006.01)**

[25] EN

[54] **SYNERGISTIC SULFIDE SCAVENGING ADDITIVES FOR USE IN OILFIELD OPERATIONS**

[54] **ADDITIFS SYNERGIQUES D'EPURATION DE SULFURES DESTINES A ETRE UTILISES DANS DES OPERATIONS EN CHAMP PETROLIFERE**

[72] SHI, LIU, US  
[72] ZHAO, FUNIAN, US  
[72] QU, LIANGWEI, US  
[72] CORRIN, EDWARD, US  
[73] MULTI-CHEM GROUP LLC.,  
[85] 2017-04-07  
[86] 2014-12-22 (PCT/US2014/071882)  
[87] (WO2016/105341)

[11] **2,964,362**  
[13] C

[51] **Int.Cl. G10L 19/00 (2013.01)**

[25] EN

[54] **JITTER BUFFER CONTROL, AUDIO DECODER, METHOD AND COMPUTER PROGRAM**

[54] **COMMANDE DE MEMOIRE TAMPON DE GIGUE, DECODEUR AUDIO, PROCEDE ET PROGRAMME INFORMATIQUE**

[72] REUSCHL, STEFAN, DE  
[72] DOHLA, STEFAN, DE  
[72] LECOMTE, JEREMIE, DE  
[72] JANDER, MANUEL, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[86] (2964362)  
[87] (2964362)  
[22] 2014-06-18  
[62] 2,916,121  
[30] EP (13173159.8) 2013-06-21  
[30] EP (14167061.2) 2014-05-05

[11] **2,964,368**  
[13] C

[51] **Int.Cl. G10L 19/00 (2013.01) H04L 12/885 (2013.01)**

[25] EN

[54] **JITTER BUFFER CONTROL, AUDIO DECODER, METHOD AND COMPUTER PROGRAM**

[54] **COMMANDE DE MEMOIRE TAMPON DE GIGUE, DECODEUR AUDIO, PROCEDE ET PROGRAMME INFORMATIQUE**

[72] REUSCHL, STEFAN, DE  
[72] DOHLA, STEFAN, DE  
[72] LECOMTE, JEREMIE, DE  
[72] JANDER, MANUEL, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.,  
[86] (2964368)  
[87] (2964368)  
[22] 2014-06-18  
[62] 2,916,121  
[30] EP (13173159.8) 2013-06-21  
[30] EP (14167061.2) 2014-05-05

[11] **2,964,620**  
[13] C

[51] **Int.Cl. B01D 53/48 (2006.01) C02F 1/26 (2006.01) C02F 1/28 (2006.01) C09K 8/532 (2006.01) C09K 8/54 (2006.01) E21B 21/00 (2006.01) C01B 17/16 (2006.01)**

[25] EN

[54] **ACRYLATE-BASED SULFUR SCAVENGING AGENTS FOR USE IN OILFIELD OPERATIONS**

[54] **AGENTS DE PIEGEAGE DU SOUFRE A BASE D'ACRYLATE DESTINES A ETRE UTILISES DANS DES OPERATIONS EN CHAMP PETROLIFERE**

[72] SHI, LIU, US  
[72] ZHAO, FUNIAN, US  
[72] QU, LIANGWEI, US  
[72] HARLESS, MICHAEL, US  
[72] HOPPE, RON, CA  
[73] MULTI-CHEM GROUP, LLC,  
[85] 2017-04-12  
[86] 2014-12-23 (PCT/US2014/072070)  
[87] (WO2016/105370)

**Brevets canadiens délivrés  
31 mars 2020**

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[11] **2,965,542**  
[13] C

[51] **Int.Cl. G06Q 20/28 (2012.01) G06Q 20/36 (2012.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TRANSFERRING VALUE TO PAYMENT ACCOUNTS**  
[54] **SYSTEMES ET PROCEDES DE TRANSFERT DE VALEUR A DES COMPTES DE PAIEMENT**  
[72] GUPTA, AKSHAT, US  
[72] BODMAN, RYAN, US  
[72] PAREJA, RICARDO, US  
[72] PARENTO, STEPHEN, US  
[73] MASTERCARD INTERNATIONAL INCORPORATED,  
[85] 2017-04-21  
[86] 2016-01-12 (PCT/US2016/013011)  
[87] (WO2016/115110)  
[30] US (14/595,696) 2015-01-13

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[11] **2,965,617**  
[13] C

[51] **Int.Cl. G06F 21/12 (2013.01) G06F 21/33 (2013.01) H04N 1/00 (2006.01)**  
[25] EN  
[54] **INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING APPARATUS, AND INFORMATION PROCESSING METHOD**  
[54] **SYSTEME DE TRAITEMENT D'INFORMATIONS, APPAREIL DE TRAITEMENT D'INFORMATIONS ET PROCEDE DE TRAITEMENT D'INFORMATIONS**  
[72] HAN, XIAOFENG, JP  
[73] RICOH COMPANY, LIMITED,  
[85] 2017-04-24  
[86] 2015-10-22 (PCT/JP2015/005319)  
[87] (WO2016/067571)  
[30] JP (2014-220828) 2014-10-29

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[11] **2,967,474**  
[13] C

[51] **Int.Cl. A61M 11/00 (2006.01)**  
[25] EN  
[54] **AEROSOL GENERATING APPARATUS WITH INTERCHANGEABLE PARTS**  
[54] **APPAREIL DE GENERATION D'AEROSOL A PIECES INTERCHANGEABLES**  
[72] KAO, LAURENCE, TW  
[72] CHEN, YI-TONG, TW  
[72] LIN, SHENG-KAI, TW  
[72] TSAI, TING-KAI, TW  
[72] CHEN, PO-CHUAN, TW  
[73] MICROBASE TECHNOLOGY CORP.,  
[85] 2017-05-10  
[86] 2016-02-15 (PCT/US2016/017984)  
[87] (WO2016/133856)  
[30] US (62/116,572) 2015-02-16

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[11] **2,969,237**  
[13] C

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 9/14 (2006.01) H04L 9/30 (2006.01)**  
[25] EN  
[54] **SHORT-DURATION DIGITAL CERTIFICATE ISSUANCE BASED ON LONG-DURATION DIGITAL CERTIFICATE VALIDATION**  
[54] **EMISSION D'UN CERTIFICAT NUMERIQUE DE COURTE DUREE BASEE SUR UNE VALIDATION DE CERTIFICAT NUMERIQUE DE LONGUE DUREE**  
[72] BOWEN, PETER ZACHARY, US  
[73] AMAZON TECHNOLOGIES, INC.,  
[85] 2017-05-29  
[86] 2015-12-14 (PCT/US2015/065634)  
[87] (WO2016/140724)  
[30] US (14/570,867) 2014-12-15

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[11] **2,970,107**  
[13] C

[51] **Int.Cl. F16L 51/04 (2006.01) F16L 3/01 (2006.01) F16L 27/107 (2006.01) F16L 51/03 (2006.01)**  
[25] EN  
[54] **FLEXIBLE PIPE LOOP**  
[54] **BOUCLE DE TUYAU SOUPLE**  
[72] ASGERSINGER, PHILIP B., US  
[73] FLEX-HOSE CO., INC.,  
[86] (2970107)  
[87] (2970107)  
[22] 2017-06-08  
[30] US (15/217,229) 2016-07-22

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[11] **2,970,596**  
[13] C

[51] **Int.Cl. C08G 63/12 (2006.01) C09K 8/12 (2006.01) E21B 43/34 (2006.01)**  
[25] EN  
[54] **POLYOXALATE COPOLYMER**  
[54] **COPOLYMERE DE POLYOXALATE**  
[72] YOSHIKAWA, SEISHI, JP  
[72] KATAYAMA, TSUTAKI, JP  
[73] TOYO SEIKAN GROUP HOLDINGS, LTD.,  
[85] 2017-06-12  
[86] 2015-12-08 (PCT/JP2015/084392)  
[87] (WO2016/098642)  
[30] JP (2014-253429) 2014-12-15

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[11] **2,972,162**  
[13] C

[51] **Int.Cl. G01N 1/22 (2006.01) G01N 1/40 (2006.01) F25J 3/00 (2006.01) G01N 1/42 (2006.01) G01N 33/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR INDOOR AIR ANALYSIS, AND SAMPLING ARRANGEMENT**  
[54] **PROCEDE PERMETTANT UNE ANALYSE DE L'AIR INTERIEUR ET DISPOSITIF D'ECHANTILLONNAGE**  
[72] AATTELA, ELISA, FI  
[73] SISAILMATUTKIMUSPALVELUT ELISA AATTELA OY,  
[85] 2017-06-23  
[86] 2015-12-23 (PCT/FI2015/050942)  
[87] (WO2016/107980)  
[30] FI (20146159) 2014-12-30

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[11] **2,972,325**  
[13] C

[51] **Int.Cl. E21F 13/04 (2006.01) B65G 65/02 (2006.01) B66B 9/06 (2006.01) B66C 21/00 (2006.01) E21F 13/06 (2006.01)**

[25] EN

[54] **CONVEYING SYSTEM FOR OPEN-CAST MINING**

[54] **SYSTEME DE TRANSPORT POUR L'EXPLOITATION DE MINE A CIEL OUVERT**

[72] WOLPERS, FRANZ, DE  
[72] SPANKE, MATTHIAS, DE  
[72] DONNER, BENJAMIN, DE  
[72] YE, WEI, DE  
[73] THYSSENKRUPP AG,  
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG,  
[85] 2017-06-27  
[86] 2016-01-14 (PCT/EP2016/050607)  
[87] (WO2016/131566)  
[30] DE (10 2015 001 825.6) 2015-02-16

[11] **2,974,121**  
[13] C

[51] **Int.Cl. F16C 33/08 (2006.01) F16C 35/02 (2006.01) F16C 43/02 (2006.01)**

[25] EN

[54] **BUSHING ANTI-ROTATION SYSTEM AND APPARATUS**

[54] **SYSTEME D'ANTI-ROTATION DE COUSSINET ET APPAREIL**

[72] NOWITZKI, WESLEY JOHN, US  
[72] WEBSTER, JOSHUA WAYNE, US  
[72] ROBERTS, RANDY S., US  
[72] BUTLER, JOSEPH DEAN, US  
[72] KENNER, JOHN VANDERSTAAY, US  
[72] GOTTSCHALK, THOMAS JOHN, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[86] (2974121)  
[87] (2974121)  
[22] 2017-07-18  
[30] US (62/363,723) 2016-07-18  
[30] US (15/651,907) 2017-07-17

[11] **2,974,879**  
[13] C

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

[25] EN

[54] **VERTICAL COAPTATION ZONE IN A PLANAR PORTION OF PROSTHETIC HEART VALVE LEAFLET**

[54] **ZONE DE COAPTATION VERTICALE DANS UNE PARTIE PLANAIRE DE FEUILLET DE VALVULE CARDIAQUE PROTHETIQUE**

[72] BRUCHMAN, WILLIAM C., US  
[72] HARTMAN, CODY L., US  
[73] W.L. GORE & ASSOCIATES, INC.,  
[86] (2974879)  
[87] (2974879)  
[22] 2013-12-16  
[62] 2,892,247  
[30] US (13/869,524) 2013-04-24  
[30] US (61/739,721) 2012-12-19

[11] **2,973,451**  
[13] C

[51] **Int.Cl. C07C 67/36 (2006.01) C07F 9/572 (2006.01) C07F 9/58 (2006.01) C07F 9/6506 (2006.01) C07F 9/655 (2006.01)**

[25] EN

[54] **PROCESS FOR THE ALKOXYCARBONYLATION OF ETHYLENICALLY UNSATURATED COMPOUNDS WITH MONOPHOSPHINE LIGANDS**

[54] **PROCEDE D'ALCOXYCARBONYLATION DE COMPOSES INSATURES ETHYLENIQUEMENT AVEC DES LIGANDS MONOPHOSPHORINES**

[72] DONG, KAIWU, CN  
[72] JACKSTELL, RALF, DE  
[72] BELLER, MATTHIAS, DE  
[72] FRIDAG, DIRK, DE  
[72] HESS, DIETER, DE  
[72] DYBALLA, KATRIN MARIE, DE  
[72] GEILEN, FRANK, DE  
[72] FRANKE, ROBERT, DE  
[73] EVONIK OPERATIONS GMBH,  
[86] (2973451)  
[87] (2973451)  
[22] 2017-07-13  
[30] EP (16 180 050.3) 2016-07-19

[11] **2,974,534**  
[13] C

[51] **Int.Cl. E04B 5/02 (2006.01) E04C 2/40 (2006.01) E04F 11/02 (2006.01) E04F 15/02 (2006.01)**

[25] EN

[54] **DECKING SYSTEM**

[54] **SYSTEME DE PLANCHER**

[72] WEBER, TORY, CA  
[72] BOETTGER, BRIAN, CA  
[72] HARVEY, PIERRE, CA  
[72] LACHEVROTIERE, STEPHAN, CA  
[72] CROTEAU, DAVID, CA  
[72] PARENTEAU, FRANCOIS, CA  
[72] GIROUARD, PAUL, CA  
[72] CROCKETT, KEN, CA  
[72] RESLER, DERRICK, CA  
[72] WESTERGARD, GREGG, CA  
[73] SIGMA DEK LTD,  
[86] (2974534)  
[87] (2974534)  
[22] 2009-01-21  
[62] 2,913,556  
[30] US (61/021,931) 2008-01-18  
[30] US (61/113,778) 2008-11-12

[11] **2,974,915**  
[13] C

[51] **Int.Cl. C09D 5/12 (2006.01) C09D 7/48 (2018.01) C09D 7/63 (2018.01) C07C 249/08 (2006.01) C23F 11/14 (2006.01) C07C 251/48 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARATION OF 5-ALKYLSALICYLALDOXIMES AND APPLICATION THEREOF**

[54] **PROCEDE DE PREPARATION DE 5-ALKYLSALICYLALDOXIMES ET LEUR APPLICATION**

[72] BUJNOWSKI, KRZYSZTOF, PL  
[72] SYNORADZKI, LUDWIK, PL  
[72] WISIALSKI, JERZY, PL  
[72] KROLIKOWSKA, AGNIESZKA, PL  
[72] BORDZILOWSKI, JACEK, PL  
[72] KOZIOROWSKI, MARCIN, PL  
[72] ZADROZNY, ROMAN, PL  
[72] JERZAK, ANNA, PL  
[72] DZIENIS, KRZYSZTOF, PL  
[73] POLITECHNIKA WARSZAWSKA,  
[85] 2017-07-25  
[86] 2016-03-01 (PCT/PL2016/000021)  
[87] (WO2016/140587)  
[30] PL (P.411433) 2015-03-02

**Brevets canadiens délivrés  
31 mars 2020**

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[11] **2,976,528**  
[13] C

[51] **Int.Cl. E02D 29/02 (2006.01) E02D 17/00 (2006.01) E04B 2/04 (2006.01) E04C 1/00 (2006.01)**

[25] EN

[54] **BLOCKS AND BLOCK CONNECTORS, BLOCK SYSTEMS AND METHODS OF MAKING BLOCKS**

[54] **BLOCS ET CONNECTEURS DE BLOCS, SYSTEMES DE BLOCS ET PROCÉDES DE FABRICATION DE BLOCS**

[72] MACDONALD, ROBERT A., US

[72] RICCOBENE, THOMAS S., US

[73] KEYSTONE RETAINING WALL SYSTEMS LLC,

[85] 2017-08-11

[86] 2016-02-17 (PCT/US2016/018313)

[87] (WO2016/134046)

[30] US (62/117,544) 2015-02-18

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[11] **2,977,595**  
[13] C

[51] **Int.Cl. B65D 5/20 (2006.01)**

[25] EN

[54] **FOLDING BOX**

[54] **BOITE PLIANTE**

[72] CHOU, CHI-MING, CN

[73] CHOU, CHI-MING,

[86] (2977595)

[87] (2977595)

[22] 2017-08-28

[30] TW (106208392) 2017-06-09

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[11] **2,977,717**  
[13] C

[51] **Int.Cl. B01F 7/00 (2006.01) B01F 15/00 (2006.01)**

[25] EN

[54] **STIRRING STAFF ARRANGEMENT AS WELL AS TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS HAVING A STIRRING STAFF ARRANGEMENT**

[54] **AGENCEMENT DE BARRES D'AGITATION ET RECIPIENT DE TRANSPORT ET DE STOCKAGE DE LIQUIDES EQUIPE D'UN AGENCEMENT DE BARRES D'AGITATION**

[72] BUSCH, CARSTEN, DE

[72] BLOMER, PETER, DE

[72] PAUL, ULRICH, DE

[73] PROTECHNA S.A.,

[85] 2017-08-24

[86] 2016-01-26 (PCT/EP2016/051497)

[87] (WO2016/142090)

[30] DE (10 2015 204 394.0) 2015-03-11

[30] DE (10 2015 210 904.6) 2015-06-15

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[11] **2,977,752**  
[13] C

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **BENZIMIDAZOLE COMPOUND FOR PREVENTING OR TREATING A DISEASE CAUSED BY ABNORMAL PRS ACTIVITY, METHOD FOR PREPARING THE SAME AND PHARMACEUTICAL COMPOSITION COMPRISING THE SAME**

[54] **COMPOSE DE BENZIMIDAZOLE SERVANT A PREVENIR OU TRAITER UNE MALADIE CAUSEE PAR UNE ACTIVITE PRS ANORMALE, SA METHODE DE PREPARATION ET COMPOSITION PHARMACEUTIQUE EN RENFERMANT**

[72] PARK, JOON SEOK, KR

[72] YOON, YOUN JUNG, KR

[72] CHO, MIN JAE, KR

[72] LEE, HO BIN, KR

[72] YOO, JA KYUNG, KR

[72] LEE, BONG YONG, KR

[73] DAEWOONG PHARMACEUTICAL CO., LTD.,

[85] 2017-08-24

[86] 2016-06-07 (PCT/KR2016/005999)

[87] (WO2016/200116)

[30] KR (10-2015-0080722) 2015-06-08

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[11] **2,978,425**  
[13] C

[51] **Int.Cl. A47C 27/18 (2006.01) A47C 17/64 (2006.01) A47C 27/08 (2006.01) A47G 9/06 (2006.01) B29D 22/02 (2006.01)**

[25] EN

[54] **RESILIENT CORES WITH CONVECTION BARRIERS PARTICULARLY FOR INFLATABLE BODIES AND METHODS FOR MAKING THE SAME**

[54] **NOYAUX RESILIENTS AVEC BARRIERES DE CONVECTION, EN PARTICULIER POUR DES CORPS GONFLABLES, ET LEURS PROCEDES DE FABRICATION**

[72] LINCOLN, JOHN S., US  
[72] JACOT, DOUGLAS S., US  
[72] BOWERS, BRANDON W., US  
[72] GUTKA, JAY, US  
[72] MARSON, JAMES E., US  
[73] CASCADE DESIGNS, INC.,  
[86] (2978425)  
[87] (2978425)  
[22] 2009-01-12  
[62] 2,711,821  
[30] US (61/010,846) 2008-01-10

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[11] **2,978,519**  
[13] C

[51] **Int.Cl. E21B 17/043 (2006.01) E21B 17/02 (2006.01) E21B 17/042 (2006.01) E21B 17/046 (2006.01)**

[25] EN

[54] **RUNNING TOOL LOCK MECHANISM**

[54] **MECANISME DE VERROUILLAGE D'OUTIL DE POSE**

[72] DAIGLE, ODEE PAUL, US  
[72] KOHN, GARY ALLEN, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2017-08-31  
[86] 2016-04-13 (PCT/US2016/027321)  
[87] (WO2016/204852)  
[30] US (62/182,310) 2015-06-19

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[11] **2,978,681**  
[13] C

[51] **Int.Cl. A61C 5/77 (2017.01) G06T 7/13 (2017.01) A61B 1/24 (2006.01) A61C 13/38 (2006.01) A61C 19/04 (2006.01)**

[25] EN

[54] **AUTOMATIC SELECTION AND LOCKING OF INTRAORAL IMAGES**

[54] **SELECTION ET VERROUILLAGE AUTOMATIQUES D'IMAGES INTRABUCCALES**

[72] KOPELMAN, AVI, US  
[72] SABINA, MICHAEL, US  
[73] ALIGN TECHNOLOGY, INC.,  
[85] 2017-09-05  
[86] 2016-03-04 (PCT/IB2016/051226)  
[87] (WO2016/142818)  
[30] US (14/640,909) 2015-03-06

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[11] **2,979,655**  
[13] C

[51] **Int.Cl. B63B 27/14 (2006.01) B60F 3/00 (2006.01) B65G 69/28 (2006.01)**

[25] EN

[54] **FOLDABLE BOAT RAMP**

[54] **RAMPE DE BATEAU PLIANTE**

[72] DUCOLON, FREDERIC DAN, US  
[73] DUCOLON, FREDERIC DAN,  
[86] (2979655)  
[87] (2979655)  
[22] 2017-09-20

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[11] **2,980,066**  
[13] C

[51] **Int.Cl. E21B 43/10 (2006.01) E21B 17/00 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR RUNNING CASING IN A WELLBORE**

[54] **APPAREIL ET METHODE DE DESCENTE D'UN TUBAGE DE PUIITS DANS UN TROU DE FORAGE**

[72] DEDMAN, MICHAEL R., US  
[72] WILLIAMSON, SCOTT EARL, US  
[73] KLX ENERGY SERVICES, LLC,  
[86] (2980066)  
[87] (2980066)  
[22] 2017-09-22  
[30] US (62/398,198) 2016-09-22

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[11] **2,982,904**  
[13] C

[51] **Int.Cl. A01C 15/00 (2006.01)**

[25] EN

[54] **MANURE SPREADER IMPROVEMENTS**

[54] **AMELIORATIONS A UN EPANDEUR DE FUMIER**

[72] GRYWACHESKI, SHELDON JOSEPH, CA  
[72] JORDAN, RONALD GALEN, CA  
[72] KRAINE, ADAM JACK JOSEPH, CA  
[72] LITTLE, DOUGLAS, CA  
[72] WESTCOTT, WAYNE GORDON, CA  
[73] DUTCH BLACKSMITH SHOP LTD.,  
[86] (2982904)  
[87] (2982904)  
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[13] C

[51] **Int.Cl. G08G 1/16 (2006.01) B60W 30/095 (2012.01) B60R 21/00 (2006.01)**

[25] EN

[54] **SCENE UNDERSTANDING DEVICE**

[54] **DISPOSITIF DE DETERMINATION DE SCENE**

[72] YOSHIHIRA, MASANORI, JP  
[72] WATANABE, SEIGO, JP  
[72] KISHI, NORIMASA, JP  
[73] NISSAN MOTOR CO., LTD.,  
[85] 2017-10-23  
[86] 2015-04-23 (PCT/JP2015/062405)  
[87] (WO2016/170646)

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[11] **2,984,343**  
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[51] **Int.Cl. E21B 19/14 (2006.01) E21B 19/15 (2006.01)**

[25] EN

[54] **GROUND HANDLING SYSTEM**

[54] **SYSTEME DE TRAITEMENT DU SOL**

[72] GUPTA, ASHISH, US  
[72] PATTERSON, DEREK, US  
[73] NABORS DRILLING TECHNOLOGIES USA, INC.,  
[86] (2984343)  
[87] (2984343)  
[22] 2017-10-27  
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[30] US (15/794,889) 2017-10-26

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- [25] EN
- [54] **CYLINDRICAL HOUSING FOR MODULAR LIGHTING SYSTEM**
- [54] **LOGEMENT CYLINDRIQUE DESTINE A UN SYSTEME D'ECLAIRAGE MODULAIRE**
- [72] SONNEMAN, ROBERT A., US
- [73] CONTEMPORARY VISIONS, LLC,
- [86] (2984681)
- [87] (2984681)
- [22] 2017-11-02
- [30] US (62/419,505) 2016-11-09
- [30] US (15/585,278) 2017-05-03

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[13] C

- [51] **Int.Cl. C07D 215/56 (2006.01)**
- [25] EN
- [54] **PROCESS FOR MAKING MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR**
- [54] **PROCEDE POUR PREPARER DES MODULATEURS DE REGULATEUR DE CONDUCTANCE TRANSMEMBRANAIRE DE MUCOVISCIDOSE**
- [72] DEMATTEI, JOHN, US
- [72] LOOKER, ADAM R., US
- [72] NEUBERT-LANGILLE, BOBBIANNA, US
- [72] TRUDEAU, MARTIN, US
- [72] ROEPER, STEFANIE, US
- [72] RYAN, MICHAEL P., US
- [72] YAP, DAHRIKA MILFRED LAO, US
- [72] KRUEGER, BRIAN R., US
- [72] GROOTENHUIS, PETER D. J., US
- [72] VAN GOOR, FREDRICK F., US
- [72] BOTFIELD, MARTYN C., US
- [72] ZLOKARNIK, GREGOR, US
- [73] VERTEX PHARMACEUTICALS INCORPORATED,
- [86] (2984994)
- [87] (2984994)
- [22] 2010-03-19
- [62] 2,756,031
- [30] US (61/162,148) 2009-03-20
- [30] US (61/246,303) 2009-09-28
- [30] US (61/248,565) 2009-10-05

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- [25] EN
- [54] **SYSTEM AND METHODS FOR ENHANCED APPROVAL OF A PAYMENT TRANSACTION**
- [54] **SYSTEME ET PROCEDES POUR UNE MEILLEURE VALIDATION D'UNE TRANSACTION DE PAIEMENT**
- [72] WIESMAN, MARK B., US
- [72] GERBER, JOHAN, US
- [72] MERZ, CHRISTOPHER JOHN, US
- [72] VAN HORN, DOUGLAS, US
- [73] MASTERCARD INTERNATIONAL INCORPORATED,
- [85] 2017-11-09
- [86] 2016-04-27 (PCT/US2016/029578)
- [87] (WO2016/182742)
- [30] US (14/711,567) 2015-05-13

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- [25] EN
- [54] **REHABILITATION LIFTING AND LOWERING AID**
- [54] **UNE AIDE DE READAPTATION A FONCTION DE MONTEE ET DE DESCENTE**
- [72] GEISELMAN, GROVER J., III, US
- [73] GEISELMAN, GROVER J., III,
- [86] (2986122)
- [87] (2986122)
- [22] 2017-11-20
- [30] US (15/360,970) 2016-11-23

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[13] C

- [51] **Int.Cl. A01K 13/00 (2006.01) A01K 1/00 (2006.01) A01K 1/02 (2006.01)**
- [25] EN
- [54] **PIGLET DRYING APPARATUS**
- [54] **APPAREIL DE SECHAGE DE PORCELETS**
- [72] LABRECQUE, GERMAIN, CA
- [72] LABRECQUE, JACQUELIN, CA
- [72] CABRERA, RUDY, JR., CA
- [73] CONCEPTION RO-MAIN INC.,
- [86] (2986874)
- [87] (2986874)
- [22] 2016-07-13
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[13] C

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- [25] EN
- [54] **MULTI-POSITION SPRAYER COMPONENT FOR SPRAYING IMPLEMENTS**
- [54] **COMPOSANTE DE PULVERISATEUR MULTIPOSITION DESTINEE A DES ACCESSOIRES DE PULVERISATION**
- [72] WILGER, WILFRED H., CA
- [73] WILGER INDUSTRIES LTD.,
- [86] (2987646)
- [87] (2987646)
- [22] 2017-12-05

[11] **2,988,071**  
[13] C

- [51] **Int.Cl. A47C 27/06 (2006.01) A47C 23/043 (2006.01)**
- [25] EN
- [54] **NON-LINEAR SPRINGS AND MATTRESSES INCLUDING THE SAME**
- [54] **RESSORTS NON LINEAIRES ET MATELAS LES COMPRENANT**
- [72] THOMAS, DARIN T., US
- [72] MANUSZAK, BRIAN M., US
- [72] DEMOSS, LARRY K., US
- [72] POLLOCK, CHRISTINA, US
- [72] BALLEW, WESLEY D., US
- [72] KENNEDY, CHRISTOPHER J., US
- [72] KHASKIA, ABED, US
- [73] SEALY TECHNOLOGY, LLC,
- [85] 2017-12-01
- [86] 2015-06-05 (PCT/US2015/034346)
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[25] EN  
[54] **APPARATUS AND METHOD FOR OPTICALLY MEASURING FLUIDAL MATTER HAVING FLUID AS MEDIUM AND PARTICLES NON-DISSOLVED IN MEDIUM**  
[54] **APPAREIL ET METHODE DE MESURE OPTIQUE DE MATIERE FLUIDIQUE COMPORTANT UN FLUIDE COMME MILIEU ET DES PARTICULES NON DISSOUTES DANS LE MILIEU**  
[72] KARKI, PASI, FI  
[73] VALMET AUTOMATION OY,  
[86] (2988192)  
[87] (2988192)  
[22] 2017-12-08  
[30] FI (20165988) 2016-12-19

[11] **2,989,057**  
[13] C

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[25] EN  
[54] **COMPOSITE BUILDING PANEL HAVING INTEGRATED FURRING MEMBERS**  
[54] **PANNEAU DE CONSTRUCTION COMPOSITE AYANT DES ELEMENTS DE FOURRURE INTEGRES**  
[72] NUGENT, DENNIS, US  
[72] HUMPHREY, PETER A., US  
[72] URBAN, JEREMY S., US  
[73] SYNTHEON HOLDINGS S.P.A.,  
[85] 2017-12-08  
[86] 2016-06-17 (PCT/US2016/038086)  
[87] (WO2016/205656)  
[30] US (62/182,089) 2015-06-19

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[13] C

[51] **Int.Cl. G06F 21/62 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR APPLICATION ROUTE MANAGEMENT**  
[54] **SYSTEME ET METHODE DESTINES A UNE APPLICATION DE GESTION DE TRAJETS**  
[72] NORRIS, JEREMY, US  
[72] CHAN, ANTONY, US  
[72] SHAH, SIDDHARTH, US  
[73] SERVICENOW, INC.,  
[86] (2989591)  
[87] (2989591)  
[22] 2017-12-20  
[30] US (15/421,734) 2017-01-02

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[13] C

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/06 (2006.01)**  
[25] EN  
[54] **SUTURING DEVICE FOR MINIMALLY INVASIVE SURGERY AND NEEDLES AND METHODS THEREOF**  
[54] **DISPOSITIF DE SUTURE POUR CHIRURGIE MINIMALEMENT INVASIVE ET AIGUILLES ET PROCEDES DE CEUX-CI**  
[72] SAUER, JUDE S., US  
[73] LSI SOLUTIONS, INC.,  
[85] 2017-12-20  
[86] 2016-06-01 (PCT/US2016/035189)  
[87] (WO2016/196574)  
[30] US (14/727,235) 2015-06-01

[11] **2,990,397**  
[13] C

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[25] EN  
[54] **NEEDLE FOR A MINIMALLY INVASIVE SURGICAL SUTURING DEVICE**  
[54] **AIGUILLE POUR DISPOSITIF DE SUTURE CHIRURGICALE MINIMALEMENT INVASIVE**  
[72] SAUER, JUDE S., US  
[73] LSI SOLUTIONS, INC.,  
[85] 2017-12-20  
[86] 2016-06-01 (PCT/US2016/035197)  
[87] (WO2016/196579)  
[30] US (14/727,418) 2015-06-01

[11] **2,990,548**  
[13] C

[51] **Int.Cl. H02K 1/28 (2006.01)**  
[25] EN  
[54] **ROTARY ELECTRIC-MACHINE ROTOR**  
[54] **ROTOR DESTINE A UNE MACHINE ELECTRIQUE ROTATIVE**  
[72] SANO, SHINYA, JP  
[72] FUBUKI, SHINGO, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA,  
[86] (2990548)  
[87] (2990548)  
[22] 2018-01-02  
[30] JP (2017-002660) 2017-01-11

[11] **2,990,797**  
[13] C

[51] **Int.Cl. G01S 13/88 (2006.01) G01S 13/86 (2006.01) G01S 7/42 (2006.01)**  
[25] EN  
[54] **PORTABLE RADAR SENSING DEVICE**  
[54] **DISPOSITIF PORTATIF DETECTEUR DE RADAR**  
[72] LIU, MAN-CHEE, TW  
[72] SHIH, WEI-CHU, TW  
[72] CHANG, YUAN-HUEI, TW  
[73] LIU, MAN-CHEE,  
[86] (2990797)  
[87] (2990797)  
[22] 2018-01-04  
[30] TW (106212212) 2017-08-17

[11] **2,991,306**  
[13] C

[51] **Int.Cl. C11D 1/72 (2006.01) C11D 1/825 (2006.01) C11D 3/40 (2006.01) C11D 3/43 (2006.01)**  
[25] EN  
[54] **METHOD OF PRETREATING FABRICS**  
[54] **PROCEDE DE PRETRAITEMENT DES TISSUS**  
[72] MAES, JEF ANNIE ALFONS, BE  
[72] BODET, JEAN-FRANCOIS, BE  
[72] MATTHYS, BRUNO JEAN-PIERRE, BE  
[72] MIRACLE, GREGORY SCOT, US  
[73] THE PROCTER & GAMBLE COMPANY,  
[85] 2018-01-03  
[86] 2016-07-05 (PCT/US2016/040928)  
[87] (WO2017/007744)  
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[25] EN  
[54] **CHOCOLATE, CHOCOLATE-LIKE PRODUCTS, CHOCOLATE CONSTRUCTION KIT AND METHODS FOR PREPARING THE SAME**  
[54] **CHOCOLAT, PRODUITS DE TYPE CHOCOLAT, KIT DE FABRICATION DE CHOCOLAT ET PROCEDES DE PREPARATION DE CHOCOLAT**  
[72] HUHN, TILO, CH  
[73] ODC LIZENZ AG,  
[85] 2018-01-04  
[86] 2016-07-08 (PCT/EP2016/001179)  
[87] (WO2017/005371)  
[30] EP (15002046.9) 2015-07-08

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[51] **Int.Cl. B32B 5/30 (2006.01) A41D 31/14 (2019.01) A41D 13/00 (2006.01) A41D 31/00 (2019.01) A62B 17/00 (2006.01) A62B 23/00 (2006.01) A62D 5/00 (2006.01) B32B 7/14 (2006.01) B32B 33/00 (2006.01) C09J 5/08 (2006.01)**  
[25] EN  
[54] **TEXTILE PROTECTIVE MATERIAL OF A NEW TYPE AND METHOD FOR PRODUCING SAME**  
[54] **MATERIAU TEXTILE PROTECTEUR INNOVANT ET PROCEDE DE FABRICATION DE CELUI-CI**  
[72] BOEHRINGER, BERTRAM, DE  
[72] CARSTENSEN, ANNA, DE  
[72] NGUYEN, CONG MINH, DE  
[73] BLUCHER GMBH,  
[85] 2018-01-03  
[86] 2016-05-12 (PCT/EP2016/060688)  
[87] (WO2017/016694)  
[30] DE (10 2015 009 687.7) 2015-07-25  
[30] DE (10 2015 112 381.9) 2015-07-29  
[30] DE (10 2015 113 213.3) 2015-08-11

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[13] C

[51] **Int.Cl. C03B 33/02 (2006.01) B23K 26/00 (2014.01) C03B 33/09 (2006.01)**  
[25] EN  
[54] **METHOD FOR CUTTING A THIN GLASS LAYER**  
[54] **PROCEDE POUR LA COUPE D'UNE COUCHE DE VERRE MINCE**  
[72] BOKER, JURGEN, DE  
[72] YEH, LI-YA, DE  
[73] SAINT-GOBAIN GLASS FRANCE,  
[85] 2018-01-05  
[86] 2016-08-10 (PCT/EP2016/069008)  
[87] (WO2017/025550)  
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[13] C

[51] **Int.Cl. H02J 9/06 (2006.01) H02M 7/48 (2007.01)**  
[25] EN  
[54] **UNINTERRUPTIBLE POWER SUPPLY**  
[54] **DISPOSITIF SOURCE D'ALIMENTATION SANS COUPURE**  
[72] SHIBATA, NAOYA, JP  
[73] TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION,  
[85] 2018-01-09  
[86] 2015-07-24 (PCT/JP2015/071072)  
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[13] C

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[25] EN  
[54] **CRITICAL VALVE PERFORMANCE MONITORING SYSTEM**  
[54] **SYSTEME DE SURVEILLANCE DE PERFORMANCE CRITIQUE DE VANNE**  
[72] BEISEL, JOSEPH A., US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2018-01-10  
[86] 2015-09-04 (PCT/US2015/048647)  
[87] (WO2017/039698)

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[13] C

[51] **Int.Cl. E21B 7/15 (2006.01) E21B 10/00 (2006.01)**  
[25] EN  
[54] **HIGH-POWER FUSE-PROTECTED CAPACITOR FOR DOWNHOLE ELECTROCRUSHING DRILLING**  
[54] **CONDENSATEUR HAUTE PUISSANCE PROTEGE PAR FUSIBLE POUR FORAGE EN FOND DE TROU PAR CONCASSAGE ELECTRIQUE**  
[72] MOENY, WILLIAM M., US  
[72] SLENES, KIRK, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[73] CHEVRON USA,  
[73] SDG LLC,  
[85] 2018-01-11  
[86] 2016-05-05 (PCT/US2016/030971)  
[87] (WO2017/030614)  
[30] US (62/207,266) 2015-08-19

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[13] C

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[25] EN  
[54] **COMPOSITE PANE WITH ILLUMINATION**  
[54] **VITRE FEUILLETEE A ECLAIRAGE**  
[72] KLEIN, MARCEL, DE  
[72] DORNER, DIRK, DE  
[72] BAYER, HERBERT, DE  
[73] SAINT-GOBAIN GLASS FRANCE,  
[85] 2018-01-12  
[86] 2016-08-15 (PCT/EP2016/069323)  
[87] (WO2017/029254)  
[30] EP (15181016.5) 2015-08-14

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[13] C

[51] **Int.Cl. E21D 11/38 (2006.01) E04C 1/41 (2006.01) E21D 11/08 (2006.01)**  
[25] EN  
[54] **PROTECTIVE ELEMENT WITH DRAINAGE, FOR CONNECTING TO A CONCRETE ELEMENT OF A TUNNEL EXTENSION**  
[54] **ELEMENT DE PROTECTION DESTINE A ETRE RELIE A UN ELEMENT EN BETON D'UNE CONSTRUCTION DE TUNNEL PRESENTANT UN DRAINAGE**  
[72] RIECHERS, JORG, DE  
[73] HERRENKNECHT AG,  
[85] 2018-01-15  
[86] 2016-07-15 (PCT/EP2016/001245)  
[87] (WO2017/008913)  
[30] DE (10 2015 009 063.1) 2015-07-16

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[11] **2,993,546**  
[13] C

[51] **Int.Cl. C10G 65/12 (2006.01)**  
[25] EN  
[54] **HIGH CONVERSION PARTIAL UPGRADING PROCESS**  
[54] **PROCEDE DE VALORISATION PARTIELLE A CONVERSION POUSSÉE**  
[72] COLYAR, JAMES J., US  
[72] WISDOM, LAWRENCE, US  
[73] IFP ENERGIES NOUVELLES,  
[86] (2993546)  
[87] (2993546)  
[22] 2010-12-23  
[62] 2,726,693  
[30] US (12/655,242) 2009-12-28  
[30] US (12/658,373) 2010-02-12  
[30] US (12/658,378) 2010-02-12

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[13] C

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[25] EN  
[54] **REMOTE CONTROL OF STROKE AND FREQUENCY OF PERCUSSION APPARATUS AND METHODS THEREOF**  
[54] **COMMANDE A DISTANCE DE COURSE ET DE FREQUENCE D'UN APPAREIL DE PERCUSSION ET PROCEDES POUR CELA**  
[72] PATTERSON, WILLIAM N., US  
[73] TEI ROCK DRILLS, INC.,  
[85] 2018-01-30  
[86] 2016-07-29 (PCT/US2016/044803)  
[87] (WO2017/023784)  
[30] US (62/199,670) 2015-07-31

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[13] C

[51] **Int.Cl. A22B 5/00 (2006.01) A22C 17/00 (2006.01) A22C 17/08 (2006.01)**  
[25] EN  
[54] **CARCASS CLEANING TOOL**  
[54] **OUTIL DE NETTOYAGE DE CARCASSE**  
[72] HANSON, GREGORY, US  
[73] JARVIS PRODUCTS CORPORATION,  
[86] (2992868)  
[87] (2992868)  
[22] 2018-01-25  
[30] US (62/492,354) 2017-05-01  
[30] US (15/857,773) 2017-12-29

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[13] C

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/51 (2020.01) A24F 47/00 (2020.01) A61M 15/06 (2006.01)**  
[25] EN  
[54] **NON-BURNING TYPE FLAVOR INHALER**  
[54] **DISPOSITIF D'INHALATION D'AROME DE TYPE SANS COMBUSTION**  
[72] TAKEUCHI, MANABU, JP  
[72] NAKANO, TAKUMA, JP  
[72] YAMADA, MANABU, JP  
[73] JAPAN TOBACCO INC.,  
[85] 2018-01-26  
[86] 2016-01-12 (PCT/JP2016/050699)  
[87] (WO2017/017970)  
[30] JP (PCT/JP2015/071346) 2015-07-28

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[11] **2,994,271**  
[13] C

[51] **Int.Cl. E04C 2/38 (2006.01)**  
[25] EN  
[54] **WALL STRUCTURE PENETRATION ATTACHMENT**  
[54] **ACCESSOIRE POUR PERCEMENT D'UNE STRUCTURE DE PAROI**  
[72] GRISOLIA, ANTHONY, US  
[72] DICKSON, BRUCE, US  
[73] COVESTRO LLC,  
[85] 2018-01-30  
[86] 2016-08-02 (PCT/US2016/045134)  
[87] (WO2017/023917)  
[30] US (14/816,589) 2015-08-03

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[11] **2,993,084**  
[13] C

[51] **Int.Cl. E21B 10/44 (2006.01) E02F 7/00 (2006.01)**  
[25] EN  
[54] **A GROUND PROCESSING TOOL AND A METHOD FOR CREATING A BOREHOLE IN THE GROUND**  
[54] **OUTIL DE TRAVAIL DU SOL ET PROCEDE POUR CREER UN Puits DE FORAGE DANS LE SOL**  
[72] FINKENZELLER, STEFAN MICHAEL, DE  
[72] KLIPPENSTEIN, JURGEN, DE  
[72] SCHWEIGER, MANFRED, DE  
[72] BAUER, THOMAS, DE  
[73] BAUER MASCHINEN GMBH,  
[86] (2993084)  
[87] (2993084)  
[22] 2018-01-26  
[30] EP (EP 17 155 833.1) 2017-02-13

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[13] C

[51] **Int.Cl. A45C 11/18 (2006.01)**  
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[54] **CARD WALLET**  
[54] **PORTE-CARTE**  
[72] MOON, ERIK, US  
[73] MOON, ERIK,  
[85] 2018-01-31  
[86] 2015-08-12 (PCT/US2015/044891)  
[87] (WO2016/025622)  
[30] US (14/457,403) 2014-08-12

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[11] **2,994,642**  
[13] C

[51] **Int.Cl. H01M 8/12 (2016.01) H01M 8/04298 (2016.01) H01M 8/249 (2016.01) C25B 1/06 (2006.01) C25B 9/18 (2006.01) H01M 8/124 (2016.01)**

[25] FR

[54] **HIGH-TEMPERATURE, LOW-TEMPERATURE-GRADIENT METHODS FOR (CO-)ELECTROLYSIS OF WATER (SOEC) OR FOR PRODUCING ELECTRICITY WITHIN A REACTOR OR FUEL-CELL STACK (SOFC) RESPECTIVELY**

[54] **PROCEDES D' (DE CO-) ELECTROLYSE DE L'EAU (SOEC) OU DE PRODUCTION D'ELECTRICITE A HAUTE TEMPERATURE A FAIBLES GRADIENTS THERMIQUES AU SEIN RESPECTIVEMENT D'UN REACTEUR OU D'UNE PILE A COMBUSTIBLE (SOFC)**

[72] REYTIER, MAGALI, FR

[72] BARDI, NICOLAS, FR

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

[85] 2018-02-02

[86] 2016-08-12 (PCT/EP2016/069281)

[87] (WO2017/025636)

[30] FR (1557685) 2015-08-12

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[11] **2,994,699**  
[13] C

[51] **Int.Cl. H04L 9/32 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTHENTICATING PHOTOGRAPHIC IMAGE DATA**

[54] **SYSTEMES ET PROCEDES D'AUTHENTIFICATION DE DONNEES D'IMAGE PHOTOGRAPHIQUE**

[72] STACK, CRAIG, US

[72] LYONS, JASON, US

[72] LYONS, FRANCIS, US

[73] TRUEPIC INC.,

[85] 2018-02-02

[86] 2016-08-02 (PCT/US2016/045089)

[87] (WO2017/023896)

[30] US (14/816,712) 2015-08-03

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[11] **2,995,271**  
[13] C

[51] **Int.Cl. E21B 34/10 (2006.01) E21B 21/10 (2006.01) F16K 17/04 (2006.01)**

[25] EN

[54] **PRESSURE ACTIVATED CYCLICAL VALVE APPARATUS AND METHOD**

[54] **PROCEDE ET APPAREIL A SOUPE CYCLIQUE ACTIVEE PAR PRESSION**

[72] BAUDOIN, TOBY SCOTT, US

[73] KLX ENERGY SERVICES LLC,

[86] (2995271)

[87] (2995271)

[22] 2018-02-15

[30] US (62/459,377) 2017-02-15

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[11] **2,995,455**  
[13] C

[51] **Int.Cl. H04L 5/14 (2006.01) H04B 7/00 (2006.01) H04L 5/00 (2006.01) H04L 25/49 (2006.01) H04L 27/00 (2006.01)**

[25] EN

[54] **MANAGED TIME DIVISION DUPLEXED BASEBAND SIGNALING**

[54] **SIGNALISATION GEREE DE BANDE DE BASE DUPLEX DE REPARTITION DANS LE TEMPS**

[72] PETROVIC, BRANISLAV, US

[72] MARTIN, TIMOTHY, US

[72] CRONIN, CHRISTOPHER, US

[72] HAMEL, ANTHONY, US

[72] TERRY, DAVID, US

[73] VIASAT, INC.,

[85] 2018-02-12

[86] 2016-08-10 (PCT/US2016/046384)

[87] (WO2017/027612)

[30] US (62/204,903) 2015-08-13

[30] US (15/077,089) 2016-03-22

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[11] **2,995,580**  
[13] C

[51] **Int.Cl. A61F 9/007 (2006.01) A61M 5/168 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR REDUCING INTRAOCULAR PRESSURE**

[54] **APPAREIL ET PROCEDE PERMETTANT DE REDUIRE LA TENSION INTRAOCULAIRE**

[72] CAMRAS, LUCINDA J., US

[72] YPMA, ROLF ERIK, US

[73] CAMRAS VISION INC.,

[85] 2018-02-13

[86] 2016-08-11 (PCT/US2016/046579)

[87] (WO2017/030902)

[30] US (14/826,866) 2015-08-14

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[11] **2,995,721**  
[13] C

[51] **Int.Cl. G01M 3/22 (2006.01) E03B 7/00 (2006.01) G01N 21/64 (2006.01) G01N 33/18 (2006.01)**

[25] EN

[54] **FLUID SYSTEM EVALUATION WITH MULTIPLE CHEMICAL TRACERS**

[54] **EVALUATION D'UN SYSTEME DE FLUIDE A L'AIDE DE PLUSIEURS TRACEURS CHIMIQUES**

[72] RICHARDSON, JOHN, US

[72] WHITE, KEVIN, US

[72] WOOD, PATRICK, US

[72] WILKINS, JAMES, US

[73] CHEMTREAT, INC.,

[85] 2018-02-14

[86] 2016-08-15 (PCT/US2016/047030)

[87] (WO2017/031057)

[30] US (62/205,430) 2015-08-14

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[11] **2,997,068**  
[13] C

[51] **Int.Cl. G01V 3/11 (2006.01) G01N 27/72 (2006.01)**

[25] EN

[54] **A VIBRATION DETECTION AND CANCELLATION CIRCUIT**

[54] **UN CIRCUIT DE DETECTION ET ANNULATION DE VIBRATION**

[72] SIMON, JOSEPH, US

[73] CARNES COMPANY, INC.,

[73] CARNES COMPANY, INC.,

[86] (2997068)

[87] (2997068)

[22] 2007-07-27

[62] 2,933,797

[30] US (11/779959) 2007-07-19

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[11] **2,997,607**  
[13] C

- [51] **Int.Cl. H01L 21/60 (2006.01) H05K 3/34 (2006.01)**  
[25] EN  
[54] **MOUNTING STRUCTURE AND MODULE**  
[54] **STRUCTURE ET MODULE DE MONTAGE**  
[72] MATSUMARU, KOHEI, JP  
[73] FUJIKURA LTD.,  
[85] 2018-03-05  
[86] 2017-02-01 (PCT/JP2017/003617)  
[87] (WO2017/150060)  
[30] JP (2016-038207) 2016-02-29

[11] **2,997,857**  
[13] C

- [51] **Int.Cl. B64C 1/24 (2006.01) B60R 3/02 (2006.01) B62D 25/22 (2006.01) E06B 3/46 (2006.01)**  
[25] EN  
[54] **A VEHICLE WITH A FOLDABLE FAIRING INTEGRATED FOOTSTEP UNIT**  
[54] **UN VEHICULE DOTE D'UN MODULE DE MARCHEPIED INTEGRE DANS LE CARENAGE**  
[72] NARAYANAPPA, HARISH, IN  
[72] GORLICH, STEFAN, DE  
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH,  
[86] (2997857)  
[87] (2997857)  
[22] 2018-03-08  
[30] EP (17400039.8) 2017-06-15

[11] **2,998,191**  
[13] C

- [51] **Int.Cl. A61K 8/44 (2006.01) A61K 8/97 (2017.01) A61Q 11/00 (2006.01) A61Q 17/00 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC ANTIBACTERIAL EFFECTS OF MAGNOLIA BARK EXTRACT AND L-ARGININE, N.ALPHA.-LAUROYL ETHYL ESTER ON SALIVARY BACTERIA**  
[54] **EFFETS ANTIBACTERIENS SYNERGIQUES D'EXTRAIT D'ECORCE DE MAGNOLIA ET D'ESTER ETHYLIQUE DE N-ALPHA-LAUROYL-L-ARGININE SUR DES BACTERIES SALIVAIRES**  
[72] DODDS, MICHAEL W., US  
[72] TIAN, MINMIN, US  
[72] INUI, TAICHI, US  
[72] RAMIREZ, LILIAN, US  
[73] WM. WRIGLEY JR. COMPANY,  
[85] 2018-03-08  
[86] 2016-09-12 (PCT/US2016/051275)  
[87] (WO2017/044935)  
[30] US (62/217,212) 2015-09-11

[11] **2,999,248**  
[13] C

- [51] **Int.Cl. E21B 43/17 (2006.01) E21B 41/00 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **REAL-TIME BOTTOM-HOLE FLOW MEASUREMENTS FOR HYDRAULIC FRACTURING WITH A DOPPLER SENSOR IN BRIDGE PLUG USING DAS COMMUNICATION**  
[54] **MESURES D'ECOULEMENT DE FOND DE TROU EN TEMPS REEL POUR FRACTURATION HYDRAULIQUE AVEC UN CAPTEUR DOPPLER DANS UN BOUCHON DE SUPPORT A L'AIDE D'UNE COMMUNICATION DAS**  
[72] WARPINSKI, NORMAN, US  
[72] JAASKELAINEN, MIKKO, US  
[72] SMITH, KEN JAMES, US  
[72] PARK, BRIAN V., US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2018-03-20  
[86] 2015-12-16 (PCT/US2015/065970)  
[87] (WO2017/105426)

[11] **2,999,838**  
[13] C

- [51] **Int.Cl. B60T 17/00 (2006.01) B60T 17/22 (2006.01)**  
[25] EN  
[54] **SLEEP MODE FOR AN AIR DRYER**  
[54] **MODE VEILLE POUR UN DESSICCATEUR D'AIR**  
[72] WRIGHT, ERIC C., US  
[73] NEW YORK AIR BRAKE LLC,  
[85] 2018-03-23  
[86] 2015-09-25 (PCT/US2015/052259)  
[87] (WO2017/052597)

[11] **3,000,165**  
[13] C

- [51] **Int.Cl. F21V 15/00 (2015.01) F21K 9/00 (2016.01) F21S 4/20 (2016.01) F21V 15/01 (2006.01)**  
[25] EN  
[54] **IMPACT AND TAMPER RESISTANT LIGHTING FIXTURE**  
[54] **APPAREIL D'ECLAIRAGE INVOLABLE RESISTANT AUX CHOC**  
[72] BAYER, BENJAMIN, CA  
[72] LITUNENKO, IGOR, CA  
[73] BAYER, BENJAMIN,  
[73] LITUNENKO, IGOR,  
[86] (3000165)  
[87] (3000165)  
[22] 2018-04-03

[11] **3,000,471**  
[13] C

- [51] **Int.Cl. H01P 1/18 (2006.01) H01P 3/08 (2006.01)**  
[25] EN  
[54] **LOW DISPERSION PHASE SHIFTER BASED ON MODIFIED HYBRID RING POWER DIVIDER**  
[54] **DEPHASEUR A FAIBLE DISPERSION FONDE SUR UN DIVISEUR DE PUISSANCE A ANNEAU HYBRIDE MODIFIE**  
[72] BORYSENKO, SERGIY, US  
[73] HONEYWELL INTERNATIONAL INC.,  
[86] (3000471)  
[87] (3000471)  
[22] 2018-04-05  
[30] US (15/482,048) 2017-04-07

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[11] **3,001,004**  
[13] C

- [51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/958 (2013.01) A61M 25/10 (2013.01)**  
[25] EN  
[54] **HEART VALVE DELIVERY SYSTEM WITH VALVE CATHETER**  
[54] **SYSTEME DE MISE EN PLACE DE VALVULE CARDIAQUE EQUIPE D'UN CATHETER DE VALVULE**  
[72] BOURANG, HENRY, US  
[72] HUY LE, THANH, US  
[72] TAYLOR, DAVID M., US  
[72] SOK, SAM, US  
[72] IOBBI, MARIO GABRIEL, US  
[72] EVANS, DAVID J., US  
[72] KHANNA, RAJESH A., US  
[73] EDWARDS LIFESCIENCES CORPORATION,  
[86] (3001004)  
[87] (3001004)  
[22] 2006-10-16  
[62] 2,847,685  
[30] US (11/252,657) 2005-10-18

[11] **3,001,111**  
[13] C

- [51] **Int.Cl. B60C 11/13 (2006.01) B60C 9/08 (2006.01) B60C 9/18 (2006.01) B60C 11/00 (2006.01) B60C 11/01 (2006.01)**  
[25] EN  
[54] **HEAVY DUTY PNEUMATIC TIRE**  
[54] **PNEUMATIQUE POUR ENGINES LOURDS**  
[72] SATO, HIROYUKI, JP  
[73] THE YOKOHAMA RUBBER CO., LTD.,  
[85] 2018-04-05  
[86] 2016-10-05 (PCT/JP2016/079695)  
[87] (WO2017/061505)  
[30] JP (2015-198697) 2015-10-06

[11] **3,001,450**  
[13] C

- [51] **Int.Cl. E21B 4/00 (2006.01) E21B 17/00 (2006.01) E21B 41/00 (2006.01)**  
[25] EN  
[54] **CATCH MECHANISM FOR RETAINING COMPONENTS IN A DOWNHOLE MOTOR**  
[54] **MECANISME DE VERROUILLAGE POUR RETENIR DES COMPOSANTS DANS UN MOTEUR EN PROFONDEUR DE FORAGE**  
[72] SADABADI, HAMMID, CA  
[72] GHARIB, HOSSAM, CA  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[85] 2018-04-09  
[86] 2015-11-19 (PCT/US2015/061531)  
[87] (WO2017/086967)

[11] **3,001,721**  
[13] C

- [51] **Int.Cl. B65D 83/62 (2006.01) A61K 9/12 (2006.01) A61L 31/00 (2006.01) B65D 83/14 (2006.01) B65D 83/44 (2006.01) C11D 3/20 (2006.01) C11D 3/37 (2006.01)**  
[25] EN  
[54] **NON-ASPIRATING TRANSPORT GEL DISPENSER**  
[54] **DISTRIBUTEUR DE GEL A TRANSPORT NON ASPIRANT**  
[72] KAISER, NANCY-HOPE E., US  
[72] ROCHETTE, DANIEL, CA  
[72] BAAN, BRADLEY A., US  
[73] AMERICAN STERILIZER COMPANY,  
[85] 2018-04-11  
[86] 2016-08-26 (PCT/US2016/048984)  
[87] (WO2017/078834)  
[30] US (14/929,697) 2015-11-02

[11] **3,002,017**  
[13] C

- [51] **Int.Cl. B29C 45/13 (2006.01) B29C 45/06 (2006.01) B29C 45/26 (2006.01) B29C 45/27 (2006.01) B29C 49/06 (2006.01)**  
[25] EN  
[54] **CO-INJECTION WITH CONTINUOUS INJECTION MOLDING**  
[54] **CO-INJECTION AVEC MOULAGE PAR INJECTION CONTINUE**  
[72] WARD, COY DEL, US  
[72] NEUFARTH, RALPH EDWIN, US  
[72] ALTONEN, GENE MICHAEL, US  
[72] HUANG, CHOW-CHI, US  
[72] BERG, CHARLES JOHN, US  
[73] IMFLUX INC.,  
[85] 2018-04-13  
[86] 2015-12-08 (PCT/US2015/064362)  
[87] (WO2017/099721)

[11] **3,002,386**  
[13] C

- [51] **Int.Cl. E05B 47/06 (2006.01)**  
[25] EN  
[54] **ELECTRIC DOOR STRIKE HAVING A DEAD LATCH RELEASE PLATFORM ACTUATED BY A SPRING LATCH KEEPER AND A SPRING LATCH LIFTER FEATURE**  
[54] **GACHE DE PORTE ELECTRIQUE AYANT UNE PLATEFORME DE LIBERATION DE PENE DEMI-TOUR A CRAN D'ARRET ACTIONNEE PAR UN ELEMENT DE RETENUE A RESSORT ET UN ELEMENT DE SOULEVEMENT DE PENE A RESSORT**  
[72] SCHEFFLER, DOMINIK, US  
[72] SULLIVAN, SCOTT, US  
[73] HANCHETT ENTRY SYSTEMS, INC.,  
[86] (3002386)  
[87] (3002386)  
[22] 2011-12-15  
[62] 2,821,821  
[30] US (61/423657) 2010-12-16

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[11] **3,002,794**  
[13] C

[51] **Int.Cl. A23K 20/105 (2016.01) A23K 50/00 (2016.01)**  
[25] EN  
[54] **WEIGHT GAIN PROMOTING FEED ADDITIVE, LIVESTOCK FEED COMPOSITION AND LIVESTOCK BREEDING METHOD**  
[54] **ADDITIF ALIMENTAIRE FAVORISANT LA PRISE DE POIDS, COMPOSITION D'ALIMENT POUR ANIMAUX, ET PROCEDE D'ELEVAGE D'ANIMAUX**  
[72] YUN, KWAN SIK, KR  
[73] KIMIN INC.,  
[73] YUN, KWAN SIK,  
[85] 2018-04-20  
[86] 2017-03-22 (PCT/KR2017/003077)  
[87] (WO2017/209382)  
[30] KR (PCT/KR2016/005786) 2016-06-01

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[11] **3,002,904**  
[13] C

[51] **Int.Cl. F03D 1/06 (2006.01) F03D 13/10 (2016.01)**  
[25] EN  
[54] **WIND TURBINE ROTOR BLADE AND WIND TURBINE**  
[54] **PALE DE ROTOR D'EOLIENNE ET EOLIENNE**  
[72] HOFFMANN, ALEXANDER, DE  
[73] WOBLEN PROPERTIES GMBH,  
[85] 2018-04-23  
[86] 2016-11-16 (PCT/EP2016/077789)  
[87] (WO2017/085088)  
[30] DE (10 2015 120 113.5) 2015-11-20

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[11] **3,004,009**  
[13] C

[51] **Int.Cl. E02F 5/08 (2006.01) E02D 17/08 (2006.01) E02F 5/10 (2006.01)**  
[25] EN  
[54] **TRENCH WALL APPARATUS AND METHOD FOR CREATING A TRENCH IN THE GROUND**  
[54] **APPAREIL DE PAROI DE TRANCHEE ET METHODE DE CREATION D'UNE TRANCHEE DANS LE SOL**  
[72] WEIXLER, LEONHARD, DE  
[72] HAYE, OLIVIER PIERRE DOMINIQUE, FR  
[72] DE SOUSA, PHILIPPE MANUEL, FR  
[72] HUBER, LUDWIG ANDREAS, DE  
[73] BAUER MASCHINEN GMBH,  
[73] VSL INTERNATIONAL LTD,  
[86] (3004009)  
[87] (3004009)  
[22] 2018-05-04  
[30] EP (17 170 545.2) 2017-05-11

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[11] **3,004,224**  
[13] C

[51] **Int.Cl. B64C 11/30 (2006.01) B64C 11/32 (2006.01) B64C 27/82 (2006.01)**  
[25] EN  
[54] **A CONTROL TRANSFER MEMBER FOR A PITCH CONTROL DEVICE OF A DUCTED ROTORCRAFT TAIL ROTOR**  
[54] **UN ELEMENT DE TRANSFERT DE CONTROLE DESTINE A UN DISPOSITIF DE CONTROLE DE PAS D'UN ROTOR DE QUEUE DE GIRAVION GAINE**  
[72] KUNTZE-FECHNER, GERALD, DE  
[72] VOGL, JULIUS, DE  
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH,  
[86] (3004224)  
[87] (3004224)  
[22] 2018-05-07  
[30] EP (17400045.5) 2017-07-27

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[11] **3,005,540**  
[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 33/12 (2006.01) E21B 43/12 (2006.01)**  
[25] EN  
[54] **CONSTRUCTED ANNULAR SAFETY VALVE ELEMENT PACKAGE**  
[54] **GARNITURE ASSEMBLEE D'ELEMENT DE VANNE DE SECURITE ANNULAIRE**  
[72] ROBB, EWAN OGILVIE, US  
[72] SLAY, JEREMY BUC, US  
[72] WEBBER, WINSTON JAMES, US  
[73] HALLIBURTON ENERGY SERVICES, INC.,  
[86] (3005540)  
[87] (3005540)  
[22] 2012-08-27  
[62] 2,881,111

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[11] **3,005,625**  
[13] C

[51] **Int.Cl. H01R 13/633 (2006.01) H01H 85/02 (2006.01)**  
[25] EN  
[54] **ELECTRICAL MODULE**  
[54] **MODULE ELECTRIQUE**  
[72] LYON, ZACHARY WOOD, US  
[72] WOJTACKI, THOMAS, US  
[72] PATTERSON, JEREMY CHRISTIAN, US  
[73] TE CONNECTIVITY CORPORATION,  
[85] 2018-05-16  
[86] 2016-11-21 (PCT/US2016/063003)  
[87] (WO2017/091485)  
[30] US (14/949,330) 2015-11-23

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[11] **3,006,336**

[13] C

- [51] **Int.Cl. A61K 8/25 (2006.01) A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61Q 11/00 (2006.01)**
- [25] EN
- [54] **ORAL CARE COMPOSITION FOR REMINERALISATION AND WHITENING OF TEETH**
- [54] **COMPOSITION DE SOINS BUCCAUX POUR REMINERALISATION ET BLANCHIMENT DES DENTS**
- [72] BUDDE, TANJA, CH
- [72] GERARD, DANIEL E., CH
- [72] GANE, PATRICK A. C., CH
- [73] OMYA INTERNATIONAL AG,
- [85] 2018-05-24
- [86] 2016-11-11 (PCT/EP2016/077405)
- [87] (WO2017/093002)
- [30] EP (15198112.3) 2015-12-04
- [30] US (62/286,491) 2016-01-25

[11] **3,006,719**

[13] C

- [51] **Int.Cl. B29C 45/76 (2006.01) B29C 45/77 (2006.01)**
- [25] EN
- [54] **REMOTE CONTROLLER AND METHODS FOR CONTROLLING APPARATUS BY DIVERTING FEEDBACK SIGNAL**
- [54] **CONTROLEUR A DISTANCE ET METHODE DE CONTROLE D'APPAREIL EN DEVIANT LE SIGNAL DE RETROACTION**
- [72] BURNS, BRIAN MATTHEW, US
- [72] ALTONEN, GENE MICHAEL, US
- [73] IMFLUX INC.,
- [85] 2018-05-29
- [86] 2016-12-08 (PCT/US2016/065499)
- [87] (WO2017/105981)
- [30] US (62/266,996) 2015-12-14

[11] **3,007,059**

[13] C

- [51] **Int.Cl. E21B 28/00 (2006.01) E21B 34/06 (2006.01) E21B 43/26 (2006.01)**
- [25] EN
- [54] **SELECT-FIRE, DOWNHOLE SHOCKWAVE GENERATION DEVICES, HYDROCARBON WELLS THAT INCLUDE THE SHOCKWAVE GENERATION DEVICES, AND METHODS OF UTILIZING THE SAME**
- [54] **DISPOSITIFS DE GENERATION D'ONDE DE CHOC DE FOND DE TROU A AMORCAGE SELECTIF, Puits D'HYDROCARBURES QUI COMPRENENT LES DISPOSITIFS DE GENERATION D'ONDE DE CHOC, ET PROCEDES D'UTILISATION ASSOCIES**
- [72] TOLMAN, RANDY C., US
- [72] SPIECKER, P. MATTHEW, US
- [72] LONNES, STEVE, US
- [73] EXXONMOBIL UPSTREAM RESEARCH COMPANY,
- [85] 2018-05-31
- [86] 2016-09-13 (PCT/US2016/051509)
- [87] (WO2017/095497)
- [30] US (62/263,069) 2015-12-04

[11] **3,007,176**

[13] C

- [51] **Int.Cl. A61K 8/42 (2006.01) A61K 8/34 (2006.01) A61Q 19/02 (2006.01)**
- [25] EN
- [54] **MELANOGENESIS INHIBITOR COMPRISING D-PANTOTHENYL ALCOHOL, AND SKIN-WHITENING COSMETIC CONTAINING SAME MELANOGENESIS INHIBITOR**
- [54] **INHIBITEUR DE LA MELANOGENESE COMPRENANT DE L'ALCOOL D-PANTOTHENYLIQUE, ET PRODUIT COSMETIQUE DE BLANCHIMENT DE LA PEAU CONTENANT LEDIT INHIBITEUR**
- [72] KONDO, CHIHIRO, JP
- [72] SASSA, SHOKO, JP
- [72] SAITOH, YUKO, JP
- [72] MORI, YASUHITO, JP
- [72] YOKOYAMA, KOUJI, JP
- [73] POLA CHEMICAL INDUSTRIES, INC.,
- [86] (3007176)
- [87] (3007176)
- [22] 2015-04-02
- [62] 2,944,553
- [30] JP (2014-076693) 2014-04-03

[11] **3,007,648**

[13] C

- [51] **Int.Cl. B21B 27/00 (2006.01)**
- [25] EN
- [54] **TEXTURED WORK ROLL FOR A METAL SUBSTRATE**
- [54] **CYLINDRE DE TRAVAIL TEXTURE POUR SUBSTRAT METALLIQUE**
- [72] XAVIER, RENATO RUFINO, US
- [72] CARVALHO, FRANCISCO, BR
- [72] FERREIRA, ADRIANO MANUEL POVOA, US
- [73] NOVELIS INC.,
- [85] 2018-06-06
- [86] 2016-11-15 (PCT/US2016/062087)
- [87] (WO2017/099957)
- [30] US (62/265,692) 2015-12-10

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[11] **3,008,874**  
[13] C

[51] **Int.Cl. A23K 10/10 (2016.01) A23K 10/38 (2016.01) A23K 20/142 (2016.01) A23K 50/80 (2016.01) B01D 21/26 (2006.01) C12N 1/00 (2006.01) C12N 1/14 (2006.01) C12N 1/16 (2006.01) C12N 1/20 (2006.01) C12P 21/00 (2006.01)**

[25] EN  
[54] **SINGLE CELL PROTEIN PROCESS AND PRODUCT**  
[54] **PROCEDE DE PRODUCTION D'UNE PROTEINE UNICELLULAIRE ET PRODUIT**

[72] GALLOP, CHARLES C., US  
[72] GERKEN, CHRISTOPHER RILEY WILLIAM, US  
[72] JAVERS, JEREMY EDWARD, US  
[72] SPOONER, JESSE, US  
[72] MASS, RYAN A., US  
[73] ICM, INC.,  
[86] (3008874)  
[87] (3008874)  
[22] 2018-06-19  
[30] US (62/521,542) 2017-06-19

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[11] **3,010,256**  
[13] C

[51] **Int.Cl. A62C 37/00 (2006.01)**

[25] EN  
[54] **FIRE EXTINGUISHING SYSTEM AND DIAGNOSTIC METHODS**  
[54] **SYSTEME D'EXTINCTION D'INCENDIE ET METHODES DE DIAGNOSTIC**

[72] ROUSE, J. PAUL, US  
[72] BOLACK, RICHARD, US  
[72] SCHAEFER, CHARLES P., US  
[73] GUARDIAN SAFETY SOLUTIONS INTERNATIONAL INC.,  
[86] (3010256)  
[87] (3010256)  
[22] 2013-06-26  
[62] 2,819,414  
[30] US (61/664,334) 2012-06-26

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[11] **3,010,540**  
[13] C

[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/23 (2014.01) B42D 25/36 (2014.01) B42D 25/425 (2014.01)**

[25] EN  
[54] **PORTABLE DATA CARRIER COMPRISING A RELIEF STRUCTURE**  
[54] **SUPPORT DE DONNEES PORTATIF POURVU D'UN BOSSELAGE**

[72] RIEDL, JOSEF, DE  
[73] GIESECKE+DEVRIENT MOBILE SECURITY GMBH,  
[85] 2018-07-04  
[86] 2017-02-14 (PCT/EP2017/000204)  
[87] (WO2017/140421)  
[30] DE (10 2016 001 834.8) 2016-02-17

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[11] **3,010,671**  
[13] C

[51] **Int.Cl. A47J 37/07 (2006.01) F21V 33/00 (2006.01) F24B 1/195 (2006.01)**

[25] EN  
[54] **COOKING GRILL WITH ELECTRICAL COMPONENT PROTECTION**  
[54] **GRILL DE CUISSON DOTE D'UNE PROTECTION DE COMPOSANTE ELECTRIQUE**

[72] WENZEL, HANS F., US  
[72] NILSEN, RAY, US  
[73] HESTAN COMMERCIAL CORPORATION,  
[86] (3010671)  
[87] (3010671)  
[22] 2016-12-23  
[62] 3,009,636  
[30] US (62/387,494) 2015-12-23

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[11] **3,011,257**  
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01) G09G 5/32 (2006.01)**

[25] EN  
[54] **LANGUAGE ELEMENT VISION AUGMENTATION METHODS AND DEVICES**  
[54] **PROCEDES ET DISPOSITIFS D'AUGMENTATION DE VISION D'ELEMENT DE LANGAGE**

[72] JONES, FRANK, CA  
[72] BACQUE, JAMES BENSON, CA  
[73] ESIGHT CORP.,  
[85] 2018-07-12  
[86] 2017-01-12 (PCT/CA2017/000005)  
[87] (WO2017/120660)  
[30] US (62/277,510) 2016-01-12

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[11] **3,011,356**  
[13] C

[51] **Int.Cl. B22D 11/10 (2006.01) B22D 41/56 (2006.01)**

[25] EN  
[54] **IMMERSION NOZZLE REPLACEMENT METHOD**  
[54] **PROCEDE DE REMPLACEMENT DE BUSETTE IMMERGEE**

[72] FUKUNAGA, SHINICHI, JP  
[72] KURODA, TAKAHIRO, JP  
[72] OOUCHI, TATSUYA, JP  
[72] OKADA, TAKUYA, JP  
[72] OOTSUKA, AKIRA, JP  
[73] KROSAKIHARIMA CORPORATION,  
[85] 2018-07-12  
[86] 2017-02-07 (PCT/JP2017/004416)  
[87] (WO2017/141770)  
[30] JP (2016-030209) 2016-02-19

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[11] **3,011,769**  
[13] C

[51] **Int.Cl. B02C 4/30 (2006.01)**

[25] EN  
[54] **WEAR-RESISTANT ELEMENT FOR A COMMINUTING DEVICE**  
[54] **ELEMENT ANTI-USURE POUR DISPOSITIF DE FRAGMENTATION**

[72] IRMAK, BARIS, DE  
[72] NEITEMEIER, INGO, DE  
[72] BANNERT, MARCEL, DE  
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS AG,  
[73] THYSSENKRUPP AG,  
[85] 2018-07-18  
[86] 2017-01-12 (PCT/EP2017/050558)  
[87] (WO2017/125309)  
[30] DE (10 2016 200 912.5) 2016-01-22

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**Brevets canadiens délivrés  
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[11] **3,012,658**  
[13] C

[51] **Int.Cl. C08L 97/00 (2006.01) C02F 3/00 (2006.01) C08J 3/20 (2006.01) C12P 7/10 (2006.01) C12P 19/00 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING PURIFIED LIGNIN COMPOSITE MATERIAL AND PRODUCT THEREOF**

[54] **METHODE DE FABRICATION DE MATERIAU COMPOSITE DE LIGNINE PURIFIEE ET PRODUIT ASSOCIE**

[72] LAI, CHIH CHIN, TW

[73] LAI, CHIH CHIN,

[86] (3012658)

[87] (3012658)

[22] 2018-07-27

[30] TW (106125963) 2017-08-01

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[11] **3,014,212**  
[13] C

[51] **Int.Cl. B32B 21/02 (2006.01) B32B 21/06 (2006.01) B32B 21/14 (2006.01)**

[25] EN

[54] **COMPOSITE BOARD COMPOSED OF WOOD MATERIAL WITH A MIDDLE LAYER MADE OF PLYWOOD**

[54] **PANNEAU COMPOSITE EN MATERIAU DERIVE DU BOIS, POURVU D'UNE COUCHE INTERMEDIAIRE EN CONTREPLAQUE**

[72] BRAUN, ROGER, CH

[72] HOFER, JOSEF, CH

[73] SWISS KRONO TEC AG,

[85] 2018-08-10

[86] 2017-01-18 (PCT/EP2017/050914)

[87] (WO2017/137217)

[30] EP (16155313.6) 2016-02-11

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[11] **3,015,871**  
[13] C

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

[25] EN

[54] **LOOSELY ASSEMBLED WELLBORE ISOLATION ASSEMBLY**

[54] **ENSEMBLE D'ISOLATION DE Puits DE Forage Assemble De Maniere Lache**

[72] SCHMIDT, DANIEL LEE, US

[72] NORMAN, TYLER JOSEPH, US

[73] HALLIBURTON ENERGY SERVICES, INC.,

[85] 2018-08-27

[86] 2016-05-12 (PCT/US2016/032086)

[87] (WO2017/196341)

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[11] **3,016,052**  
[13] C

[51] **Int.Cl. F16L 59/14 (2006.01) F16L 9/14 (2006.01) F16L 11/15 (2006.01) F16L 59/08 (2006.01)**

[25] EN

[54] **CORRUGATED HEAT PROTECTION TUBE AND METHODS OF MAKING THE SAME**

[54] **TUBE DE PROTECTION THERMIQUE ONDULE ET METHODES DE FABRICATION ASSOCIEE**

[72] MUELLER, CHRISTIAN, DE

[72] MERTENS, BURKHARD, DE

[72] WEBER, MARC PHILIPP, DE

[73] NOVELIS INC.,

[85] 2018-08-31

[86] 2018-03-15 (PCT/US2018/022708)

[87] (WO2018/170303)

[30] US (62/471,402) 2017-03-15

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[11] **3,016,941**  
[13] C

[51] **Int.Cl. B31B 50/14 (2017.01) B65D 51/16 (2006.01)**

[25] EN

[54] **LAMINATED, BLOW-MOLDED CONTAINER AND PROCESS FOR FORMING ONE OR MORE AIR INTAKE HOLES**

[54] **RECIPIENT MULTICOUCHE MOULE PAR SOUFFLAGE ET PROCEDE DE FORMATION D'UN TROU D'ENTREE D'AIR**

[72] MIYAJIMA, HISAO, JP

[72] SOTOME, MITSUHIRO, JP

[73] YOSHINO KOGYOSHO CO., LTD.,

[86] (3016941)

[87] (3016941)

[22] 2012-08-08

[62] 2,847,329

[30] JP (2011-188750) 2011-08-31

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[11] **3,018,057**  
[13] C

[51] **Int.Cl. H04N 19/119 (2014.01) H04N 19/159 (2014.01) H04N 19/23 (2014.01) H04N 19/30 (2014.01)**

[25] EN

[54] **VIDEO ENCODING METHOD AND APPARATUS AND VIDEO DECODING METHOD AND APPARATUS, BASED ON HIERARCHICAL CODED BLOCK PATTERN INFORMATION**

[54] **PROCEDE ET APPAREIL DE CODAGE VIDEO ET PROCEDE ET APPAREIL DE DECODAGE VIDEO A PARTIR D'INFORMATIONS DE STRUCTURE DE BLOC A CODAGE HIERARCHIQUE**

[72] CHEON, MIN-SU, KR

[72] JUNG, HAE-KYUNG, KR

[72] MIN, JUNG-HYE, KR

[72] KIM, IL-KOO, KR

[73] SAMSUNG ELECTRONICS CO., LTD.,

[86] (3018057)

[87] (3018057)

[22] 2010-08-13

[62] 2,889,729

[30] KR (10-2009-0075337) 2009-08-14

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[11] **3,018,161**  
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) G01V 3/18 (2006.01) G01V 3/38 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR DETERMINING FORMATION PROPERTIES AND PIPE PROPERTIES USING RANGING MEASUREMENTS**

[54] **PROCEDES ET SYSTEMES POUR DETERMINER DES PROPRIETES DE FORMATION ET DES PROPRIETES DE TUYAU A L'AIDE DE MESURES DE TELEMETRIE**

[72] WU, HSU-HSIANG, US

[72] DONDERICI, BURKAY, US

[73] HALLIBURTON ENERGY SERVICES, INC.,

[85] 2018-09-17

[86] 2016-04-25 (PCT/US2016/029148)

[87] (WO2017/188921)

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[11] **3,018,240**  
[13] C

[51] **Int.Cl. B01J 29/46 (2006.01) B01D 53/047 (2006.01)**

[25] EN

[54] **RHO ADSORBENT COMPOSITIONS, METHODS OF MAKING AND USING THEM**

[54] **COMPOSITIONS RHO ADSORBANTES, ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] LOZINSKA, MAGDALENA M., GB

[72] WRIGHT, PAUL A., GB

[72] BRUCE, ELLIOTT L., GB

[72] CASTEEL, WILLIAM JACK, JR., US

[72] BHADRA, SHUBHRA JYOTI, US

[72] QUINN, ROBERT, US

[72] CHI-HO LAU, GARRET, US

[72] SORENSEN, ERIN MARIE, US

[72] WHITLEY, ROGER DEAN, US

[72] GOLDEN, TIMOTHY CHRISTOPHER, FR

[72] KALBASSI, MOHAMMAD ALI, GB

[73] AIR PRODUCTS AND CHEMICALS, INC.,

[86] (3018240)

[87] (3018240)

[22] 2018-09-24

[30] US (15/718,467) 2017-09-28

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[11] **3,018,331**  
[13] C

[51] **Int.Cl. B27B 5/10 (2006.01) B27B 1/00 (2006.01)**

[25] EN

[54] **SELF-POWERED TIMBER SLASHER**

[54] **SERPE A LONG MANCHE AUTOPROPULSEE**

[72] STECIAK, JOHN, JR., US

[73] SPRUCE CREEK MECHANICAL L.L.C.,

[86] (3018331)

[87] (3018331)

[22] 2018-09-21

[30] CA (2979879) 2017-09-22

[30] US (16120047) 2018-08-31

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[11] **3,020,726**  
[13] C

[51] **Int.Cl. A63G 21/18 (2006.01)**

[25] EN

[54] **A WATERSLIDE SYSTEM**

[54] **SYSTEME DE TOBOGGAN AQUATIQUE**

[72] OZTURK, ALI SINAN, TR

[73] POLIN SU PARKLARI VE HAVUZ SISTEMLERI ANONIM SIRKETI,

[85] 2018-10-11

[86] 2016-07-11 (PCT/TR2016/050222)

[87] (WO2018/013063)

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[11] **3,022,714**  
[13] C

[51] **Int.Cl. B64D 27/24 (2006.01) B64D 33/08 (2006.01)**

[25] EN

[54] **AIR MANAGEMENT SYSTEMS FOR STACKED MOTOR ASSEMBLIES**

[54] **SYSTEMES DE GESTION DE L'AIR DESTINES A DES ASSEMBLAGES DE MOTEURS EMPILES**

[72] GRONINGA, KIRK LANDON, US

[72] ROBERTSON, DANIEL BRYAN, US

[73] TEXTRON INNOVATIONS INC.,

[86] (3022714)

[87] (3022714)

[22] 2018-10-30

[30] US (15/815,513) 2017-11-16

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[11] **3,023,462**  
[13] C

[51] **Int.Cl. B60K 1/04 (2019.01) B60L 50/50 (2019.01) B60K 1/02 (2006.01) B60L 1/14 (2006.01)**

[25] EN

[54] **ELECTRIC UTILITY TERRAIN VEHICLE**

[54] **VEHICULE UTILITAIRE TOUT-TERRAIN ELECTRIQUE**

[72] MILTON, TREVOR R., US

[72] LYNK, KEVIN M., US

[72] HEATON, ANTHONY A., US

[72] MACKELPRANG, MORGAN, US

[72] GRAY, KYLE, US

[72] DAVIS, ROBERT DANE, US

[73] NIKOLA CORPORATION,

[85] 2018-11-06

[86] 2017-05-09 (PCT/US2017/031683)

[87] (WO2017/196799)

[30] US (62/333,722) 2016-05-09

[30] US (15/268,249) 2016-09-16

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[11] **3,024,212**  
[13] C

[51] **Int.Cl. C01B 25/45 (2006.01) C02F 1/52 (2006.01) C02F 1/58 (2006.01) C02F 1/66 (2006.01) C02F 3/28 (2006.01) C02F 11/04 (2006.01) C12M 1/00 (2006.01) C12M 1/107 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERY OF PHOSPHATE**

[54] **PROCEDE DE RECUPERATION DE PHOSPHATE**

[72] NILSEN, PAAL JAHRE, NO

[72] HOLTE, HANS RASMUS, NO

[73] CAMBI TECHNOLOGY AS,

[85] 2018-11-14

[86] 2017-05-19 (PCT/EP2017/062142)

[87] (WO2017/198834)

[30] EP (16170684.1) 2016-05-20

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**Brevets canadiens délivrés  
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[11] **3,024,329**  
[13] C

[51] **Int.Cl. B03B 9/02 (2006.01) B01D 17/035 (2006.01) B03D 1/02 (2006.01)**

[25] EN

[54] **EMULSIFICATION AND TRANSPORTATION OF BITUMEN FROTH FOR REMOVAL OF IMPURITIES**

[54] **EMULSIFICATION ET TRANSPORT DE MOUSSE DE BITUME EN VUE D'EXTRAIRE DES IMPURETES**

[72] OMOTOSO, OLADIPO, CA  
[72] MENDEZ BALBAS, FREDDY E., CA  
[72] GLENDENNING, SEAN PETER SCOTT, CA  
[73] SUNCOR ENERGY INC.,  
[86] (3024329)  
[87] (3024329)  
[22] 2014-09-12  
[62] 2,863,571

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[11] **3,025,142**  
[13] C

[51] **Int.Cl. B29C 70/70 (2006.01) A61L 29/04 (2006.01) A61M 25/00 (2006.01) A61M 25/16 (2006.01)**

[25] EN

[54] **WIRE-REINFORCED TUBING AND METHOD OF MAKING THE SAME**

[54] **TUBE RENFORCE PAR DES FILS SON PROCEDE DE FABRICATION**

[72] BOLDIG, ROBERT, US  
[72] BOLDIG, MICHAEL, US  
[72] BOLDIG, JAMES, US  
[72] JUDY, ZACHARY, US  
[73] CUSTOM WIRE TECHNOLOGIES, INC.,  
[85] 2018-11-21  
[86] 2017-04-09 (PCT/US2017/026734)  
[87] (WO2018/013190)  
[30] US (15/210,069) 2016-07-14

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[11] **3,026,416**  
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01) A61B 34/10 (2016.01) A61B 34/20 (2016.01) A61B 5/00 (2006.01) A61B 17/16 (2006.01) A61B 17/56 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **SOFT TISSUE BALANCING IN ARTICULAR SURGERY**

[54] **EQUILIBRAGE DES TISSUS MOUS EN CHIRURGIE ARTICULAIRE**

[72] COUTURE, PIERRE, CA  
[72] RICHARD, ALAIN, CA  
[72] BOISVERT, OLIVIER, CA  
[72] GOGARTY, EMILY, CA  
[72] AMIOT, LOUIS-PHILIPPE, CA  
[72] PARRETTE, SEBASTIAN, FR  
[72] LI, DI, CA  
[72] MAY, BRIAN M., US  
[73] ZIMMER, INC.,  
[85] 2018-11-30  
[86] 2017-06-16 (PCT/US2017/037930)  
[87] (WO2017/218928)  
[30] US (62/350,958) 2016-06-16  
[30] US (62/375,049) 2016-08-15  
[30] US (62/424,732) 2016-11-21  
[30] US (62/501,585) 2017-05-04

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[11] **3,029,487**  
[13] C

[51] **Int.Cl. F21V 5/00 (2018.01) H01L 33/58 (2010.01) F21K 9/00 (2016.01) F21V 5/04 (2006.01) G02B 3/00 (2006.01)**

[25] EN

[54] **LIGHTING DEVICE WITH OPTICAL LENS FOR BEAM SHAPING AND ILLUMINATION LIGHT SOURCE MATRIX**

[54] **APPAREIL D'ECLAIRAGE A LENTILLE OPTIQUE DESTINEE A FORMER UN FAISCEAU ET MATRICE DE SOURCE DE LUMIERE D'ECLAIRAGE**

[72] MAO, AN, US  
[72] MALONE, GREGORY, US  
[72] KRASS, ROBERT M., US  
[72] RAMER, DAVID P., US  
[72] ROGERS, RASHMI KUMAR, US  
[72] PHIPPS, JAMES MICHAEL, US  
[72] LYONS, STEVE, US  
[73] ABL IP HOLDING LLC,  
[86] (3029487)  
[87] (3029487)  
[22] 2019-01-09  
[30] US (15/868,624) 2018-01-11  
[30] US (15/914,619) 2018-03-07  
[30] US (15/924,868) 2018-03-19

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[11] **3,029,540**  
[13] C

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 1/40 (2006.01) B65D 21/08 (2006.01) B65D 23/00 (2006.01)**

[25] EN

[54] **A FASTENING DEVICE FOR COMPACTED PLASTIC BOTTLES INTENDED FOR RECYCLING**

[54] **DISPOSITIF DE FIXATION POUR BOUTEILLES EN PLASTIQUE COMPACTEES DESTINEES AU RECYCLAGE**

[72] AMSALEM, YAAKOV, IL  
[72] AMSELLEM, MAURICE MOSHE, IL  
[73] AMSALEM, YAAKOV,  
[73] AMSELLEM, MAURICE MOSHE,  
[85] 2018-12-24  
[86] 2017-04-27 (PCT/IB2017/052437)  
[87] (WO2018/015820)  
[30] IL (246809) 2016-07-17

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[11] **3,033,037**  
[13] C

[51] **Int.Cl. F41B 5/10 (2006.01) F16H 55/36 (2006.01)**

[25] EN

[54] **ADJUSTABLE PULLEY ASSEMBLY FOR A COMPOUND ARCHERY BOW**

[54] **ENSEMBLE DE POULIE REGLABLE DESTINE A UN ARC COMPOSE**

[72] RINKER, DYLAN G., US  
[72] SMITH, JACK B., US  
[73] BOWTECH, INC.,  
[86] (3033037)  
[87] (3033037)  
[22] 2019-02-06  
[30] US (15/940,946) 2018-03-29

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[11] **3,033,615**  
[13] C

[51] **Int.Cl. B01D 53/02 (2006.01) B01D 53/52 (2006.01) B01D 53/62 (2006.01) B01J 20/20 (2006.01)**

[25] EN

[54] **SELECTIVE GAS SEPARATION OF PRODUCED GAS FROM HYDROCARBON RECOVERY FROM UNDERGROUND RESERVOIRS**

[54] **SEPARATION DE GAZ SELECTIVE DE GAZ PRODUIT A PARTIR DE LA RECUPERATION D'HYDROCARBURE DE RESERVOIRS SOUTERRAINS**

[72] YAZDI, ALIREZA ZEHTAB, CA

[72] DUNN, JAMES A., CA

[72] ESMAEILI, PAYMAN, CA

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY,

[86] (3033615)

[87] (3033615)

[22] 2019-02-13

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[11] **3,034,945**  
[13] C

[51] **Int.Cl. C10G 27/04 (2006.01) C10G 9/00 (2006.01) C10G 21/00 (2006.01) C10G 21/28 (2006.01)**

[25] EN

[54] **UPGRADING HEAVY CRUDE OIL PRIOR TO THERMAL CRACKING**

[54] **VALORISATION DU PETROLE BRUT LOURD AVANT LA FRACTURATION THERMIQUE**

[72] OEHR, KLAUS H., CA

[73] RIVAL TECHNOLOGIES INC.,

[85] 2019-03-01

[86] 2018-10-09 (PCT/CA2018/051271)

[87] (WO2019/084672)

[30] US (62/580,577) 2017-11-02

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[11] **3,040,726**  
[13] C

[51] **Int.Cl. B66F 7/06 (2006.01) B66F 7/00 (2006.01) E04H 6/06 (2006.01) E04H 6/12 (2006.01)**

[25] EN

[54] **SCISSOR-LIFT FOR VEHICLES**

[54] **ELEVATEUR A CISEAUX POUR VEHICULES**

[72] KRITZER, JEFFREY S., US

[72] HENTHORN, DONALD R., US

[73] BENDPAK, INC.,

[85] 2019-04-15

[86] 2017-10-27 (PCT/US2017/058678)

[87] (WO2018/081509)

[30] US (62/413,779) 2016-10-27

[30] US (15/794,810) 2017-10-26

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[11] **3,044,441**  
[13] C

[51] **Int.Cl. G06F 16/27 (2019.01) G06Q 50/30 (2012.01) G06F 16/23 (2019.01)**

[25] EN

[54] **BLOCKCHAIN-BASED SERVICE EXECUTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE**

[54] **METHODE D'EXECUTION DE SERVICE FONDEE SUR LA CHAINE DE BLOC ET APPAREIL, ET DISPOSITIF ELECTRONIQUE**

[72] HU, DANQING, CN

[72] ZHANG, SHAORONG, CN

[73] ALIBABA GROUP HOLDING LIMITED,

[85] 2019-05-28

[86] 2019-03-26 (PCT/US2019/024070)

[87] (3044441)

[30] CN (201810277604.9) 2018-03-30

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[11] **3,046,305**  
[13] C

[51] **Int.Cl. B01D 5/00 (2006.01) B01D 1/00 (2006.01) C11B 1/10 (2006.01) C11B 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR EXTRACTING AND SEPARATING BOTANICAL OILS WITHOUT THE USE OF SOLVENTS**

[54] **SYSTEME ET METHODE D'EXTRACTION ET DE SEPARATION D'HUILES BOTANIQUE SANS UTILISATION DE SOLVANTS**

[72] DOOLEY, KEVIN ALLAN, CA

[72] MORRIS, ELWOOD A., CA

[72] BELL, JOSHUA DAVID, CA

[72] DOOLEY, ADAM CHARLES, CA

[73] BOTANICAL EXTRACTION SOLVENT FREE LTD.,

[85] 2019-07-08

[86] 2019-02-27 (PCT/CA2019/050231)

[87] (3046305)

[30] CA (3006692) 2018-05-30

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[11] **3,049,117**  
[13] C

[51] **Int.Cl. H05B 47/00 (2020.01) H05B 45/40 (2020.01) G05F 1/66 (2006.01)**

[25] EN

[54] **REVERSIBLE-POLARITY WIRING SYSTEM**

[54] **SYSTEME DE CABLAGE A POLARITE REVERSIBLE**

[72] STEWART, J. MARCUS, US

[72] EMIGH, AARON, US

[72] STANEK, STEVEN, US

[73] BRILLIANT HOME TECHNOLOGY, INC.,

[85] 2019-07-02

[86] 2018-01-03 (PCT/US2018/012270)

[87] (WO2018/129103)

[30] US (62/441,880) 2017-01-03

[30] US (15/861,637) 2018-01-03

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31 mars 2020**

[11] **3,050,329**

[13] C

[51] **Int.Cl. G06F 21/64 (2013.01) H04W  
12/04 (2009.01) H04L 9/08 (2006.01)  
H04L 9/32 (2006.01) H04L 29/06  
(2006.01)**

[25] EN

[54] **KEY ESTABLISHMENT AND  
DATA SENDING METHOD AND  
APPARATUS**

[54] **PROCEDE ET APPAREIL  
D'ETABLISSEMENT DE CLE ET  
D'ENVOI DE DONNEES**

[72] LI, YI, CN

[73] ALIBABA GROUP HOLDING  
LIMITED,

[85] 2019-07-15

[86] 2018-02-23 (PCT/US2018/019464)

[87] (WO2018/156924)

[30] CN (201710102824.3) 2017-02-24

[11] **3,061,778**

[13] C

[51] **Int.Cl. F24D 13/02 (2006.01) E04B  
5/48 (2006.01) F16L 3/00 (2006.01)  
H02G 3/36 (2006.01) H05B 3/56  
(2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR  
POSITIONING HEATING  
ELEMENTS**

[54] **PROCEDE ET APPAREIL POUR  
LE POSITIONNEMENT  
D'ELEMENTS CHAUFFANTS**

[72] LARSON, DAVID D., US

[73] PROGRESS PROFILES SPA,  
[86] (3061778)

[87] (3061778)

[22] 2015-08-18

[62] 2,958,571

[30] US (62/038,733) 2014-08-18

[11] **3,052,407**

[13] C

[51] **Int.Cl. C12N 15/86 (2006.01) A61K  
38/44 (2006.01) A61K 38/46 (2006.01)  
A61K 38/51 (2006.01) A61P 25/16  
(2006.01) C12N 7/01 (2006.01) C12N  
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C12N 9/88 (2006.01) C12N 15/53  
(2006.01) C12N 15/55 (2006.01) C12N  
15/60 (2006.01) C12N 15/62 (2006.01)  
C12N 15/63 (2006.01) C12N 15/85  
(2006.01) C12N 15/864 (2006.01)  
C12N 15/867 (2006.01)**

[25] EN

[54] **CONSTRUCT**

[54] **CONSTRUCTION**

[72] MITROPHANOUS, KYRIACOS, GB

[72] RALPH, SCOTT, GB

[72] STEWART, HANNAH, GB

[72] KINGSMAN, ALAN, GB

[73] OXFORD BIOMEDICA (UK)  
LIMITED,

[86] (3052407)

[87] (3052407)

[22] 2012-10-26

[62] 2,849,241

[30] US (61/552,581) 2011-10-28

[30] GB (1118636.8) 2011-10-28

# Canadian Applications Open to Public Inspection

March 15, 2020 to March 21, 2020

## Demandes canadiennes mises à la disponibilité du public

15 mars 2020 au 21 mars 2020

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[21] **3,017,438**  
[13] A1  
[51] **Int.Cl. A62B 1/06 (2006.01) A62B 1/02 (2006.01) B66B 9/00 (2006.01) B66B 9/10 (2006.01)**  
[25] EN  
[54] **A SYSTEM THAT PROVIDES FOR THE ABILITY TO SAFELY AND RAPIDLY EVACUATE PEOPLE FROM A HIGHT RISE BUILDING IN THE EVENT OF FIRE OR EMERGENCY**  
[54] **SYSTEME PERMETTANT D'EVACUER EN TOUTE SECURITE ET RAPIDEMENT DES GENS D'UN IMMEUBLE DE GRANDE HAUTEUR EN CAS D'INCENDIE OU D'URGENCE**  
[72] COLEMAN, STEPHEN S., CA  
[72] COLEMAN, FRANCIS J., CA  
[71] COLEMAN, STEPHEN S., CA  
[22] 2018-09-17  
[41] 2020-03-17

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[21] **3,017,504**  
[13] A1  
[51] **Int.Cl. B65D 5/40 (2006.01) B65D 5/355 (2006.01) F25D 3/08 (2006.01)**  
[25] EN  
[54] **EXPANDABLE PACKAGING FOR FACILITATING BEVERAGE COOLING**  
[54] **EMBALLAGE EXTENSIBLE POUR FACILITER LE REFROIDISSEMENT DES BOISSONS**  
[72] PRIOR, LUIS, CA  
[72] NOORHOFF, STEVE, CA  
[71] ATLANTIC PACKAGING PRODUCTS LTD., CA  
[22] 2018-09-17  
[41] 2020-03-17

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[21] **3,017,562**  
[13] A1  
[51] **Int.Cl. A61M 15/06 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR CHILD-RESISTANT VAPORIZATION DEVICES**  
[54] **APPAREIL ET METHODE POUR APPAREILS DE VAPORISATION A L'EPREUVE DES ENFANTS**  
[72] WOODS, PATRICK, CA  
[72] KOO, TIMOTHY, CA  
[72] MIRON, ADAM, CA  
[71] HEXO OPERATIONS INC., CA  
[22] 2018-09-17  
[41] 2020-03-17

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[21] **3,017,572**  
[13] A1  
[51] **Int.Cl. A61B 8/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DETECTING INTRACRANIAL HEMATOMAS USING PHOTOACOUSTICS**  
[54] **METHODE ET APPAREIL POUR DETECTER UN HEMATOME INTRACRANIEN AU MOYEN DE DETECTIONS DES ONDES OPTOACOUSTIQUES**  
[72] JHIRAD, AKIV, CA  
[72] JAIN, MANDAKINI, CA  
[71] JHIRAD, AKIV, CA  
[71] JAIN, MANDAKINI, CA  
[22] 2018-09-17  
[41] 2020-03-17

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[21] **3,017,580**  
[13] A1  
[51] **Int.Cl. H01B 7/18 (2006.01)**  
[25] FR  
[54] **PROTECTIVE SLEEVE FOR OVERHEAD TELECOMMUNICATIONS CABLES**  
[54] **GAINE PROTECTRICE POUR CABLE DE TELECOMMUNICATION AERIEN**  
[72] FOREST, ERIC E. F., CA  
[71] FOREST, ERIC E. F., CA  
[22] 2018-09-17  
[41] 2020-03-17

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[21] **3,017,661**  
[13] A1  
[51] **Int.Cl. C11D 17/06 (2006.01) A47K 7/03 (2006.01) A62B 29/00 (2006.01) C11D 1/00 (2006.01) C11D 3/48 (2006.01) C11D 3/60 (2006.01)**  
[25] EN  
[54] **METHOD OF USE, AND COMPOSITION OF, FIRST RESPONDER WET WIPES**  
[54] **METHODE D'UTILISATION DE LINGETTES HUMIDES POUR PREMIERS INTERVENANTS ET LEUR COMPOSITION**  
[72] RAGUINDIN, EVANGELINE, US  
[72] WANG, JIMMY, US  
[72] DY, DENIA, US  
[71] DIAMOND WIPES INTERNATIONAL, INC., US  
[22] 2018-09-18  
[41] 2020-03-18

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15 mars 2020 au 21 mars 2020**

[21] **3,017,675**  
[13] A1

[51] **Int.Cl. G01S 13/74 (2006.01) C22B 1/00 (2006.01) G01S 13/75 (2006.01)**

[25] EN

[54] **ORE TAG ASSEMBLY AND SYSTEM AND METHOD RE SAME**

[54] **ENSEMBLE D'ETIQUETAGE DE MINERAI ET SYSTEME ET METHODE A CE PROPOS**

[72] ARSENAULT, GILLES, CA

[72] BRULE, YVAN, CA

[72] CLEMENT, PATRICK, CA

[71] K4 INTEGRATION INC., CA

[22] 2018-09-18

[41] 2020-03-18

[21] **3,017,682**  
[13] A1

[51] **Int.Cl. B28B 7/22 (2006.01) B28B 23/22 (2006.01) E04B 2/86 (2006.01) E04G 13/06 (2006.01)**

[25] EN

[54] **PRECAST REINFORCED CONCRETE FORM**

[54] **FORME DE BETON ARME PREMOULE**

[72] MARIN, ENNIO, CA

[72] VERRILLI, ROBERT, CA

[72] VERRILLI, DANNY, CA

[72] TRAVANI, ANDREA, US

[71] MARIN, ENNIO, CA

[71] VERRILLI, ROBERT, CA

[71] VERRILLI, DANNY, CA

[71] TRAVANI, ANDREA, US

[22] 2018-09-18

[41] 2020-03-18

[21] **3,017,703**  
[13] A1

[51] **Int.Cl. E03F 5/14 (2006.01) E03F 5/04 (2006.01) E03F 5/06 (2006.01)**

[25] EN

[54] **FILTER FOR THE GRATE OF A STORM DRAIN**

[54] **FILTRE POUR GRILLE D'UN COLLECTEUR D'EAUX PLUVIALES**

[72] KAMAND, JEAN-PAUL, CA

[71] KAMAND, JEAN-PAUL, CA

[22] 2018-09-18

[41] 2020-03-18

[21] **3,017,726**  
[13] A1

[51] **Int.Cl. A24C 5/40 (2006.01) A24F 9/00 (2006.01)**

[25] EN

[54] **A STUFFER FOR ROLLED CIGARETTE AND CANNABIS ON A KEY CHAIN**

[54] **REPLISSEUR POUR CIGARETTES ROULEES ET CANNABIS SUR CHAINE PORTE-CLES**

[72] UNKNOWN, XX

[71] JACILDO, JHOMHEL, CA

[22] 2018-09-18

[41] 2020-03-18

[21] **3,017,854**  
[13] A1

[51] **Int.Cl. E21B 19/00 (2006.01) E21B 17/07 (2006.01) E21B 47/09 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MONITORING AND ADJUSTMENT OF THE WELL STRING POSITIONING WITHIN A WELL TUBULAR**

[54] **SYSTEME ET PROCEDE DE SURVEILLANCE ET DE REGLAGE DU POSITIONNEMENT D'UN TRAIN DE TIGES POUR Puits A L'INTERIEUR DE TUBULAIRES POUR Puits**

[72] WOCK, CARY, CA

[72] SCHLAMP, JARED, CA

[71] WOCK, CARY, CA

[71] SCHLAMP, JARED, CA

[22] 2018-09-19

[41] 2020-03-19

[21] **3,017,870**  
[13] A1

[51] **Int.Cl. B65D 81/127 (2006.01) B65B 5/06 (2006.01) B65D 85/00 (2006.01)**

[25] EN

[54] **TIELESS FLATWARE DISPLAY PACKAGING**

[54] **EMBALLAGE-PRESENTOIR DE COUVERTS SANS ATTACHE**

[72] LIM, JOHNNY, CA

[71] GOURMET SETTINGS INC., CA

[22] 2018-09-18

[41] 2020-03-18

[21] **3,017,900**  
[13] A1

[51] **Int.Cl. B01J 23/28 (2006.01) B01J 8/02 (2006.01) B01J 37/04 (2006.01) B01J 37/08 (2006.01) C07C 5/48 (2006.01)**

[25] EN

[54] **DOUBLE PEROXIDE TREATMENT OF OXIDATIVE DEHYDROGENATION CATALYST**

[54] **DOUBLE TRAITEMENT AU PEROXYDE DE CATALYSEUR DE DESHYDROGENATION OXYDATIVE**

[72] SIMANZHENKOV, VASILY, CA

[72] GAO, XIAOLIANG, CA

[72] SULLIVAN, DAVID, CA

[72] BARNES, MARIE, CA

[72] DRAG, HANNA, CA

[71] NOVA CHEMICALS CORPORATION, CA

[22] 2018-09-20

[41] 2020-03-20

[21] **3,017,921**  
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) C12N 15/113 (2010.01) A01H 6/14 (2018.01) A01H 6/20 (2018.01) A01H 6/46 (2018.01) A01H 6/54 (2018.01) A01H 1/04 (2006.01) A01H 5/10 (2018.01) C07K 14/415 (2006.01) C12N 5/10 (2006.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **MODULATING PLANT ABIOTIC STRESS RESPONSES USING THE KANGHAN GENE FAMILY**

[54] **MODULATION DES REPONSES AU STRESS ABIOTIQUE DES PLANTES A L'AIDE DE LA FAMILLE DES GENES KANGHAN**

[72] ZOU, JITAO, CA

[72] SHEN, WENYUN, CA

[72] GAO, PENG, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[22] 2018-09-19

[41] 2020-03-19

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[21] **3,017,927**  
[13] A1

[51] **Int.Cl. A41D 20/00 (2006.01) A41D 13/11 (2006.01) G02B 27/01 (2006.01)**  
[25] EN  
[54] **VIRTUAL REALITY/AUGMENTED REALITY (VR/AR) HEADSET FACIAL INTERFACE COVER, FACE MASK AND SWEATBAND**  
[54] **CASQUE DE REALITE VIRTUELLE (RV) ET DE REALITE AUGMENTEE (RA) AVEC PROTECTION POUR INTERFACE FACIALE, MASQUE ET SERRE-TETE**  
[72] MARQUIS, JEAN, CA  
[71] MARQUIS, JEAN, CA  
[22] 2018-09-19  
[41] 2020-03-19

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[21] **3,017,929**  
[13] A1

[51] **Int.Cl. E21B 7/02 (2006.01) E21B 15/00 (2006.01)**  
[25] EN  
[54] **EXPLANATION OF WIDE DRILL TRANSPORT SYSTEM**  
[54] **EXPLICATION D'UN SYSTEME DE TRANSPORT POUR TRANCHEE DE PLANTATION LARGE**  
[72] UNKNOWN, XX  
[71] FRIGGSTAD, TERRY, CA  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,010**  
[13] A1

[51] **Int.Cl. A01K 61/60 (2017.01) A01K 63/00 (2017.01)**  
[25] EN  
[54] **AQUAFARMING SYSTEM AND FLOAT THEREFOR**  
[54] **SYSTEME D'AQUACULTURE ET SON FLOTTEUR**  
[72] GUNDERSON, STEEN NICHOLAS, CA  
[71] BOUCTOUCHE BAY INDUSTRIES LTD., CA  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,049**  
[13] A1

[51] **Int.Cl. A43B 7/14 (2006.01) A43B 13/14 (2006.01) A43B 17/00 (2006.01) A43D 1/02 (2006.01)**  
[25] EN  
[54] **MODULAR INSERT SYSTEM FOR SHOE SOLES**  
[54] **SYSTEME D'INSERT MODULAIRE POUR SEMELLES DE CHAUSSURE**  
[72] UNKNOWN, XX  
[71] BECK, HARALD, CH  
[71] SCHUMACHER, TOBIAS, CH  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,056**  
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 50/34 (2012.01)**  
[25] EN  
[54] **EVENT OUTCOME PREDICTING GAME APPARATUS AND METHOD**  
[54] **APPAREIL ET PROCEDE DE PREVISION DES RESULTATS POUR JEU LORS D'EVENEMENTS**  
[72] HOUSE, JOHN C., CA  
[71] HOUSE, JOHN C., CA  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,060**  
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) H04L 9/32 (2006.01) H04L 12/16 (2006.01)**  
[25] EN  
[54] **CHAT BOT CONVERSATION MANAGER**  
[54] **GESTIONNAIRE DE CONVERSATIONS POUR DIALOGUEUR**  
[72] D'AGOSTINO, DINO PAUL, CA  
[72] LE AMARAL, AMANDA, CA  
[72] CLARK, ANDREW DAVID, CA  
[72] HENAULT-ETHIER, MICHEL, CA  
[72] MARTIN, RANDALL WALTON, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2018-09-20  
[41] 2020-03-20  
[30] US (16/136,450) 2018-09-20

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[21] **3,018,077**  
[13] A1

[51] **Int.Cl. A45F 3/00 (2006.01) A41D 1/00 (2018.01) A45F 4/00 (2006.01)**  
[25] EN  
[54] **A COMBINED TRAVEL SUIT AND BACKPACK FOR WORRY-FREE CARRYING MOBILE SMART ITEMS**  
[54] **SAC DE VOYAGE ET SAC A DOS POUR LE TRANSPORT DES ARTICLES INTELLIGENTS MOBILES SANS SOUCIS**  
[72] ZHANG, CHUNLEI, CA  
[71] ZHANG, CHUNLEI, CA  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,086**  
[13] A1

[51] **Int.Cl. B21J 13/02 (2006.01) B21D 53/84 (2006.01) B21J 5/00 (2006.01) B22D 25/02 (2006.01)**  
[25] EN  
[54] **MOLD FOR MANUFACTURING CONNECTION ROD AND METHOD TO MANUFACTURE CONNECTION ROD USING THE SAME**  
[54] **MOULE POUR FABRICATION DE TIGE DE CONNEXION ET METHODE DE FABRICATION DE TIGE DE CONNEXION AU MOYEN DU MEME MOULE**  
[72] LOU, CHONG-LI, CN  
[71] LOU, CHONG-LI, CN  
[22] 2018-09-20  
[41] 2020-03-20

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[21] **3,018,100**  
[13] A1

[51] **Int.Cl. B07B 1/08 (2006.01)**  
[25] EN  
[54] **ROTARY GRAIN SIFTER**  
[54] **CRIBLE DE GRAINS ROTATIF**  
[72] TIRYAKIOGLU, NEJDET N.T., CA  
[71] TIRYAKIOGLU, NEJDET N.T., CA  
[22] 2018-09-20  
[41] 2020-03-20

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**Demandes canadiennes mises à la disponibilité du public**

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[21] **3,018,229**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06K 9/62 (2006.01) H04L 29/12 (2006.01) G06Q 40/08 (2012.01)**

[25] EN

[54] **DYNAMIC PROVISIONING OF DATA EXCHANGES BASED ON DETECTED RELATIONSHIPS WITHIN PROCESSED IMAGE DATA**

[54] **PROVISIONNEMENT DYNAMIQUE D'ÉCHANGES DE DONNÉES FONDEES SUR DES RELATIONS DETECTÉES DANS DES DONNÉES D'IMAGE TRAITÉES**

[72] KURUVILLA, DENNY DEVASIA, CA  
[72] DICKIE, PAIGE ELYSE, CA  
[72] HARPER, GREGORY RICHARD, CA  
[72] HARDY, MARK ANDREW, CA  
[72] VELARDO, VALERIE, CA  
[72] ROUSELL, ROBERT JASON, CA  
[72] TARROZA, BERNARD JAMES, CA  
[72] PHILIPS, MARC, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2018-09-21  
[41] 2020-03-20  
[30] US (16/136,839) 2018-09-20

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[21] **3,018,279**  
[13] A1

[51] **Int.Cl. G06F 16/93 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATED RECORD CREATION AND MANAGEMENT**

[54] **SYSTEME ET PROCÉDE DE CREATION ET DE GESTION DE DOSSIERS AUTOMATISES**

[72] HOULETTE, TRAVIS, CA  
[72] MURPHY, SHANE, CA  
[72] HOPFNER, DEREK, CA  
[71] FOUNDED TECHNOLOGIES INC., CA  
[22] 2018-09-21  
[41] 2020-03-21

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[21] **3,018,302**  
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) E04B 1/344 (2006.01) E04B 7/16 (2006.01) E04B 9/32 (2006.01) E04B 9/36 (2006.01) E04D 13/035 (2006.01) E04D 13/18 (2018.01) E04H 1/12 (2006.01) E04H 6/02 (2006.01) E04H 15/00 (2006.01) E06B 7/086 (2006.01) E06B 9/38 (2006.01) F24F 13/15 (2006.01)**

[25] FR

[54] **DEVICE TO COVER A SHADE HOUSE, WITH CURVED BLADES**

[54] **DISPOSITIF DE COUVERTURE D'OMBRIERE AVEC DES LAMES COURBÉES**

[72] LARIN, DOMINIC, CA  
[72] BOURDAGES, ALAIN, CA  
[71] LOUNGE FACTORY INC., CA  
[22] 2018-09-21  
[41] 2020-03-21

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[21] **3,018,323**  
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01) G06Q 10/06 (2012.01) G06Q 40/02 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **A SYSTEM AND METHOD FOR PROVIDING ON-DEMAND EARLY WAGE DISPERSALS AGAINST ACCRUED EARNINGS**

[54] **SYSTEME ET METHODE DE REPARTITION ANTICIPEE SUR DEMANDE DES SALAIRES IMPUTES AUX GAINS ACCUMULES**

[72] HACKERT, TATE H., CA  
[72] TUER, DARCY A., CA  
[72] HA, JAMIE N., CA  
[72] MCADAM, GARTH A., CA  
[71] ZAYZOOM INC., CA  
[22] 2018-09-21  
[41] 2020-03-21

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[21] **3,018,330**  
[13] A1

[51] **Int.Cl. B60P 1/56 (2006.01) B65G 65/40 (2006.01) B65G 67/24 (2006.01)**

[25] EN

[54] **GATE OPENERS**

[54] **OUVRE-BARRIERES**

[72] LARSON, DARREN, CA  
[71] LARSON, DARREN, CA  
[22] 2018-09-21  
[41] 2020-03-21

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[21] **3,018,338**  
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01) G06F 3/14 (2006.01) G06Q 30/00 (2012.01) H04L 12/16 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR OBTAINING PRODUCT INFORMATION IN REAL-TIME**

[54] **SYSTEMES ET METHODES DE COLLECTE DE DONNEES SUR LES PRODUITS EN TEMPS REEL**

[72] MOGHADAM, MEHRAN, CA  
[71] THE TORONTO-DOMINION BANK, CA  
[22] 2018-09-21  
[41] 2020-03-21

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[21] **3,018,348**  
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01) A63K 3/04 (2006.01)**

[25] EN

[54] **TELESCOPIC OPEN EDGE STAND**

[54] **SUPPORT DE BORDURE OUVERT TELESCOPIQUE**

[72] CARERI, JOSEPH, CA  
[71] CARERI, JOSEPH, CA  
[22] 2018-09-21  
[41] 2020-03-20  
[30] US (16137530) 2018-09-20

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[21] **3,018,736**  
[13] A1

[51] **Int.Cl. G01V 1/30 (2006.01) G01V 1/18 (2006.01)**

[25] EN

[54] **FLUID RESONANCE SEISMIC SURVEYING**

[54] **PROSPECTION SISMIQUE PAR RESONANCE DE FLUIDES**

[72] KUKHAREV, VADIM, RU  
[72] TOLKACHEV, VLADIMIR, RU  
[72] BONDARENKO, VIKTOR, RU  
[72] MILETENKO, IGOR, RU  
[72] BORISOV, DMITRII, RU  
[72] SIBGATULIN, VIKTOR, RU  
[71] INTERNATIONAL SEISMIC DATA PROCESSING COMPANY LLC, US  
[22] 2018-09-26  
[41] 2020-03-18  
[30] US (16/134,223) 2018-09-18

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March 15, 2020 to March 21, 2020**

[21] **3,019,711**  
[13] A1

[51] **Int.Cl. B01J 19/24 (2006.01)**  
[25] EN  
[54] **STATIONARY REACTOR AND ITS INTERNALS FOR PRODUCING LIQUID FUEL FROM WASTE HYDROCARBON AND/OR ORGANIC MATERIAL AND/OR CONTAMINATED OILS, THERMAL PROCESSES, USES AND MANAGING SYSTEMS THEREOF**

[54] **REACTEUR STATIONNAIRE ET SES ELEMENTS INTERNES POUR PRODUCTION DU COMBUSTIBLE LIQUIDE A PARTIR DE GAZ D'HYDROCARBURES RESIDUELS ET/OU DE MATIERES ORGANIQUES ET/OU D'HUILES CONTAMINEES, PROCEDES THERMIQUES, UTILISATIONS ET SYSTEMES DE GESTION ASSOCIES**

[72] WHEELER, LUCIE B., CA  
[72] BERTRAND, LOUIS, CA  
[71] ENVIROLLEA INC., CA  
[22] 2018-10-02  
[41] 2020-03-20  
[30] CA (PCT/CA2018/051178) 2018-09-20

[21] **3,021,180**  
[13] A1

[51] **Int.Cl. G01R 31/27 (2006.01) H02J 3/01 (2006.01) H02J 13/00 (2006.01) H02M 1/12 (2006.01) H03H 7/01 (2006.01)**

[25] EN  
[54] **PASSIVE HARMONIC FILTER POWER QUALITY MONITOR AND COMMUNICATIONS DEVICE**

[54] **DISPOSITIF PASSIF DE CONTROLE DE LA QUALITE DE PUISSANCE DE FILTRE D'HARMONIQUES ET DE COMMUNICATIONS**

[72] KRANZ, WILLIAM, US  
[72] WALLACE, IAN, US  
[72] SANDLIN, SKYLER, US  
[72] BENDRE, ASHISH, US  
[72] POMES, JAMES, US  
[71] TCI, LLC, US  
[22] 2018-10-16  
[41] 2020-03-18  
[30] US (16/134,593) 2018-09-18

[21] **3,022,249**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**  
[25] EN  
[54] **VEHICLE INVENTORY AVAILABILITY NOTIFICATION**

[54] **AVIS DE DISPONIBILITE DANS LES STOCKS DE VEHICULES**

[72] PANDEY, ADDHYAN, US  
[72] KANDEKAR, SANDEEP, US  
[72] ANISETTY, KRISHNA, US  
[72] NEVELS, ALICIA A., US  
[72] NEGI, SUNITA, US  
[72] THOMAS, SALIN, US  
[72] RAYAPEDDI, SRILAKSHMI, US  
[72] PATEL, CHIRAG S., US  
[72] KRELL, DAVID MATTHEW, US  
[72] JANKAMPET, RAMESH, US  
[72] SALERNO, AUDREY, US  
[72] WYLIE, JENNIFER, US  
[72] PATEL, NIKHIL, US  
[71] CARS.COM, LLC, US  
[22] 2018-10-25  
[41] 2020-03-17  
[30] US (16/133,482) 2018-09-17

[21] **3,024,231**  
[13] A1

[51] **Int.Cl. C09D 7/62 (2018.01) C09D 5/00 (2006.01) C09D 133/00 (2006.01)**

[25] EN  
[54] **AQUEOUS NANO-IMITATION PORCELAIN COATING AND PREPARATION METHOD THEREOF**

[54] **REVETEMENT EN PORCELAINE NANO-IMITATION AQUEUX ET SA METHODE DE PREPARATION**

[72] UNKNOWN, XX  
[71] ZHOU, LIANHUI, CN  
[22] 2018-11-15  
[41] 2020-03-18  
[30] CN (20181105887081) 2018-09-18

[21] **3,024,242**  
[13] A1

[51] **Int.Cl. G03F 7/32 (2006.01) B01F 17/42 (2006.01)**

[25] EN  
[54] **HIGH CONCENTRATION DEVELOPER LIQUID COMPOSITION**

[54] **COMPOSITION LIQUIDE DE REVELATEUR A HAUTE CONCENTRATION**

[72] WANG, TAO, CN  
[71] ZHOU, LIANHUI, CN  
[22] 2018-11-15  
[41] 2020-03-18  
[30] CN (2018110892821) 2018-09-18

[21] **3,024,398**  
[13] A1

[51] **Int.Cl. E21B 33/03 (2006.01) E21B 33/068 (2006.01) F04B 47/02 (2006.01)**

[25] EN  
[54] **MECHANICAL PUMP SPACING ADJUSTMENT SYSTEM**

[54] **SYSTEME DE REGLAGE D'ESPACEMENT DE POMPE MECANIQUE**

[72] WOCK, CARY, CA  
[72] SCHLAMP, JARED, CA  
[71] WOCK, CARY, CA  
[71] SCHLAMP, JARED, CA  
[22] 2018-11-16  
[41] 2020-03-19  
[30] CA (3017854) 2018-09-19

[21] **3,027,287**  
[13] A1

[51] **Int.Cl. H01L 33/50 (2010.01) F21K 9/232 (2016.01) F21K 9/64 (2016.01)**

[25] EN  
[54] **SOLID STATE WHITE-LIGHT LAMP**

[54] **LAMPE A LUMIERE BLANCHE A SEMI-CONDUCTEURS**

[72] WANG, TIEJUN, CN  
[72] CAI, DENGKE, US  
[71] WANG, TIEJUN, CN  
[71] CAI, DENGKE, US  
[22] 2018-12-12  
[41] 2020-03-18  
[30] US (16133800) 2018-09-18

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15 mars 2020 au 21 mars 2020**

[21] **3,028,894**  
[13] A1

[51] **Int.Cl. H01R 33/06 (2006.01) F21S 4/10 (2016.01)**  
[25] EN  
[54] **ELECTRIC LAMP ASSEMBLY AND LAMP HOLDER THEREFOR**  
[54] **ENSEMBLE DE LAMPE ELECTRIQUE ET DOUILLE DE LAMPE**  
[72] ZHAO, QING EN, CN  
[71] SHANDONG NEON KING ELECTRONICS CO., LTD., CN  
[22] 2019-01-04  
[41] 2020-03-19  
[30] CN (201821526691.9) 2018-09-19

[21] **3,036,040**  
[13] A1

[51] **Int.Cl. A44C 9/00 (2006.01) A44C 17/00 (2006.01)**  
[25] EN  
[54] **FINGER RING**  
[54] **BAGUE**  
[72] DHOLAKIYA, HASU, US  
[71] H.K. DESIGNS INC., US  
[22] 2019-03-07  
[41] 2020-03-18  
[30] US (16/134,707) 2018-09-18

[21] **3,037,330**  
[13] A1

[51] **Int.Cl. E04H 9/02 (2006.01) E04B 1/38 (2006.01) E04B 1/98 (2006.01)**  
[25] EN  
[54] **CONNECTOR ASSEMBLY FOR WALL PANEL**  
[54] **ENSEMBLE DE CONNEXION POUR PANNEAU MURAL**  
[72] LO RICCO, MARCO, US  
[71] UWM RESEARCH FOUNDATION, INC., US  
[22] 2019-03-20  
[41] 2020-03-20  
[30] US (62/734062) 2018-09-20

[21] **3,040,215**  
[13] A1

[51] **Int.Cl. A47J 42/34 (2006.01) A24B 3/00 (2006.01) B02C 19/20 (2006.01)**  
[25] EN  
[54] **HERB GRINDER WITH ENHANCED GRINDING FEATURES**  
[54] **MOULIN A FINES HERBES DOTE DE CARACTERISTIQUES DE BROYAGE AMELIOREES**  
[72] SCHARF, EITAM, US  
[72] SCHARF, IFTACH, US  
[71] THE VIOLINA SYNDICATE, LLC, US  
[22] 2019-04-12  
[41] 2020-03-19  
[30] US (16/135,923) 2018-09-19

[21] **3,042,664**  
[13] A1

[51] **Int.Cl. B08B 3/02 (2006.01)**  
[25] EN  
[54] **REMOTE-CONTROLLED GASOLINE CLEANER**  
[54] **NETTOYEUR A ESSENCE TELECOMMANDE**  
[72] LIU, KAI, CN  
[72] XIANG, YING-DIAN, CN  
[72] ZHOU, FENG, CN  
[72] GAO, XUE-SONG, CN  
[72] PEI, YONG, CN  
[72] ZHANG, XU, CN  
[71] SUMEC HARDWARE & TOOLS CO., LTD., CN  
[22] 2019-05-08  
[41] 2020-03-18  
[30] CN (201811085581.8) 2018-09-18

[21] **3,044,000**  
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/46 (2020.01)**  
[25] EN  
[54] **ELECTRONIC CIGARETTE**  
[54] **CIGARETTE ELECTRONIQUE**  
[72] WU, ZHENYU, CN  
[71] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN  
[22] 2019-05-22  
[41] 2020-03-19  
[30] CN (201821535047.8) 2018-09-19

[21] **3,044,210**  
[13] A1

[51] **Int.Cl. B28B 11/00 (2006.01) B28B 11/12 (2006.01) B28B 23/02 (2006.01) B28D 1/22 (2006.01) E04C 5/07 (2006.01) E04G 23/02 (2006.01)**  
[25] EN  
[54] **METHOD OF REPAIRING CRACKED CONCRETE**  
[54] **PROCEDE DE REPARATION DE BETON FISSURE**  
[72] WHEATLEY, DONALD E., US  
[71] WHEATLEY, DONALD E., US  
[22] 2019-05-24  
[41] 2020-03-20  
[30] US (16/137,229) 2018-09-20

[21] **3,044,946**  
[13] A1

[51] **Int.Cl. B01D 29/13 (2006.01) B01D 29/66 (2006.01)**  
[25] EN  
[54] **FILTER SUPPORT ELEMENT AND METHOD OF USING SAME**  
[54] **ELEMENT DE SOUTIEN DU FILTRE ET METHODE D'UTILISATION**  
[72] MCFARLEN, JONN, CA  
[72] VAN BAVEL, TREVOR ROBERT SPENS, CA  
[72] MCFARLEN, SEANN GORDON RUSSEL, CA  
[71] MCFARLEN ENGINEERING LTD., CA  
[22] 2019-05-30  
[41] 2020-03-17  
[30] US (62/732206) 2018-09-17

[21] **3,046,912**  
[13] A1

[51] **Int.Cl. F16B 19/00 (2006.01) B64C 3/56 (2006.01) E05B 15/00 (2006.01) F16B 1/02 (2006.01)**  
[25] EN  
[54] **MANUFACTURE AND PROCESS FOR INHIBITING WEAR IN A LATCH SYSTEM**  
[54] **FABRICATION ET PROCEDE D'INHIBITION DE L'USURE DANS UN SYSTEME DE VERROUILLAGE**  
[72] KAMILA, ERIC S., US  
[72] JOKISCH, CHARLES E., US  
[72] FELICIO, RENATO S., US  
[71] THE BOEING COMPANY, US  
[22] 2019-06-17  
[41] 2020-03-20  
[30] US (16/137,333) 2018-09-20

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[21] **3,047,664**  
[13] A1

[51] **Int.Cl. G06F 21/60 (2013.01) G06F 21/16 (2013.01)**  
[25] EN  
[54] **WATERMARK SECURITY**  
[54] **SECURITE DES FILIGRANES**  
[72] DEWITT, BRANDON, US  
[72] MCBRIDE, RYAN, US  
[71] MX TECHNOLOGIES, INC., US  
[22] 2019-06-21  
[41] 2020-03-20  
[30] US (16/137,517) 2018-09-20

[21] **3,047,669**  
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H04W 4/12 (2009.01) G06F 21/31 (2013.01) G06F 17/00 (2019.01) H04L 12/58 (2006.01)**  
[25] EN  
[54] **DATA AGGREGATION USING A LIMITED-USE CODE**  
[54] **AGREGATION DE DONNEES AU MOYEN D'UN CODE A USAGE LIMITE**  
[72] CALDWELL, JOHN RYAN, US  
[72] DOTTER, JAMES, US  
[71] MX TECHNOLOGIES, INC., US  
[22] 2019-06-21  
[41] 2020-03-20  
[30] US (16/137,509) 2018-09-20

[21] **3,048,349**  
[13] A1

[51] **Int.Cl. F15B 13/042 (2006.01) F15B 13/02 (2006.01) F16K 11/076 (2006.01) F16K 31/04 (2006.01) F16K 37/00 (2006.01)**  
[25] EN  
[54] **SERVOVALVE**  
[54] **SERVODISTRIBUTEUR**  
[72] JASKIEWICZ, ZBIGNIEW, PL  
[71] HAMILTON SUNDSTRAND CORPORATION, US  
[22] 2019-06-28  
[41] 2020-03-21  
[30] EP (18461608.4) 2018-09-21

[21] **3,048,748**  
[13] A1

[51] **Int.Cl. G01R 31/34 (2020.01) H02K 11/20 (2016.01)**  
[25] EN  
[54] **USE OF MOTOR FLUX LINKAGE MAPS FOR MONITORING THE HEALTH OF AN ACTUATOR**  
[54] **CARTES DE LIAISON DE FLUX DE MOTEUR POUR SURVEILLER L'ETAT DES VERINS**  
[72] BENAROUS, MAAMAR, GB  
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB  
[22] 2019-07-05  
[41] 2020-03-18  
[30] EP (18275144.6) 2018-09-18

[21] **3,049,230**  
[13] A1

[51] **Int.Cl. E06B 1/56 (2006.01) E04F 21/00 (2006.01)**  
[25] EN  
[54] **TWO IN ONE DOOR HANGER BRACKET**  
[54] **SUPPORT DE TRAPPE DEUX EN UN**  
[72] GILL, RYAN L., US  
[72] GILL, MICHAEL J., US  
[72] GILL, DENNIS G., US  
[71] EXPRESS PRODUCTS, INC., US  
[22] 2019-07-11  
[41] 2020-03-21  
[30] US (16/138,502) 2018-09-21  
[30] US (16/417,203) 2019-05-20

[21] **3,050,211**  
[13] A1

[51] **Int.Cl. H02B 1/14 (2006.01) H01B 17/56 (2006.01) H02B 1/30 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR ISOLATING POWER CONDUCTORS USING SLIDABLE INSULATING SHEETS**  
[54] **SYSTEME POUR ISOLER LES CONDUCTEURS ELECTRIQUES A L'AIDE DE FEUILLES D'ISOLANT COULISSANTES**  
[72] SERDYNSKI, DAVID P., US  
[72] MEYER, DEAN T., US  
[71] ROCKWELL AUTOMATION TECHNOLOGIES, INC., US  
[22] 2019-07-19  
[41] 2020-03-17  
[30] US (16/133103) 2018-09-17

[21] **3,050,229**  
[13] A1

[51] **Int.Cl. H02S 40/30 (2014.01) H02S 50/00 (2014.01)**  
[25] EN  
[54] **SHUTDOWN APPARATUS FOR PHOTOVOLTAIC MODULE**  
[54] **APPAREIL DE MISE HORS SERVICE POUR MODULE PHOTOVOLTAIQUE**  
[72] YANG, ZONGJUN, CN  
[72] YU, YANFEI, CN  
[72] NI, HUA, CN  
[71] SUNGROW POWER SUPPLY CO., LTD., CN  
[22] 2019-07-19  
[41] 2020-03-17  
[30] CN (201811082182.6) 2018-09-17

[21] **3,050,291**  
[13] A1

[51] **Int.Cl. F16D 66/00 (2006.01) B60T 17/22 (2006.01)**  
[25] EN  
[54] **BRAKE PLATE WEAR DETECTION USING SOLENOID CURRENT SIGNATURE**  
[54] **DETECTION DE L'USURE D'UN PLATEAU DE FREIN AU MOYEN D'UNE SIGNATURE ACTUELLE DE SOLENOIDE**  
[72] BENAROUS, MAAMAR, GB  
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB  
[22] 2019-07-19  
[41] 2020-03-19  
[30] EP (18275145.3) 2018-09-19

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**15 mars 2020 au 21 mars 2020**

[21] **3,050,380**  
[13] A1

[51] **Int.Cl. B23Q 16/02 (2006.01) B23Q 16/08 (2006.01)**

[25] EN

[54] **INDEXING PINS, INDEXING CLAMPS, AND METHODS OF ALIGNING A FIRST BODY AND A SECOND BODY OF A STRUCTURE**

[54] **GOUPILLES DE POSITION, DOIGT A RESSORT ET METHODES D'ALIGNEMENT D'UN PREMIER CORPS SUR UN DEUXIEME CORPS D'UNE STRUCTURE**

[72] CHAN, KWOK TUNG, US  
[72] SISCO, TANNI, US  
[72] BROCKWAY, MONICA J., US  
[71] THE BOEING COMPANY, US  
[22] 2019-07-22  
[41] 2020-03-20  
[30] US (16/136406) 2018-09-20

[21] **3,050,660**  
[13] A1

[51] **Int.Cl. G06F 3/041 (2006.01) H04B 1/3888 (2015.01) H05K 7/00 (2006.01) H04W 88/02 (2009.01)**

[25] EN

[54] **PROTECTIVE FILM FOR MOBILE PHONE WITH GAME FUNCTION**

[54] **ECRAN PROTECTEUR POUR UN TELEPHONE MOBILE DISPOSANT D'UNE FONCTION JEU**

[72] YANG, ZECHUAN, CN  
[71] YANG, ZECHUAN, CN  
[22] 2019-07-26  
[41] 2020-03-20  
[30] CN (201811103317.2) 2018-09-20

[21] **3,050,663**  
[13] A1

[51] **Int.Cl. A01B 63/24 (2006.01)**

[25] EN

[54] **TOOL HEIGHT CONTROL FOR GROUND ENGAGING TOOLS**

[54] **COMMANDE POUR CONTROLER LA HAUTEUR D'OUTILS EN INTERACTION AVEC LE SOL**

[72] SPORRER, ADAM D., US  
[72] THEILEN, RICKY B., US  
[72] LARSEN, LUCAS B., US  
[71] DEERE & COMPANY, US  
[22] 2019-07-26  
[41] 2020-03-19  
[30] US (16/135,904) 2018-09-19

[21] **3,051,147**  
[13] A1

[51] **Int.Cl. H01R 13/52 (2006.01) H01R 13/622 (2006.01)**

[25] EN

[54] **PACKING MEMBER FOR WATERPROOF ELECTRIC CONNECTOR**

[54] **PIECE D'EMPAQUETAGE POUR CONNECTEUR ELECTRIQUE ETANCHE**

[72] EUN, SUNG GUEN, KR  
[71] FROG ELECTRIC., KR  
[22] 2019-08-02  
[41] 2020-03-17  
[30] KR (10-2018-0110768) 2018-09-17

[21] **3,051,279**  
[13] A1

[51] **Int.Cl. E21B 47/02 (2006.01) E21B 7/04 (2006.01) E21B 44/00 (2006.01)**

[25] EN

[54] **MULTI-LEVEL LEARNING SCHEME FOR CALIBRATING WELLBORE TRAJECTORY MODELS FOR DIRECTIONAL DRILLING**

[54] **SCHEMA D'APPRENTISSAGE MULTINIVEAU POUR ETALONNER DES MODELES DE TRAJECTOIRE DE TROUS DE FORAGE POUR FORAGE DIRECTIONNEL**

[72] ZALLUHOGLU, UMUT, US  
[72] DEMIRER, NAZLI, US  
[72] MARCK, JULIEN, US  
[72] DARBE, ROBERT, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[22] 2019-08-06  
[41] 2020-03-21  
[30] US (62/734,861) 2018-09-21

[21] **3,051,528**  
[13] A1

[51] **Int.Cl. C09D 175/08 (2006.01) C09D 7/80 (2018.01) C09K 3/18 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR FABRICATING COATINGS**

[54] **COMPOSITIONS ET PROCEDES DE FABRICATION DE REVETEMENTS**

[72] NOWAK, ANDREW P., US  
[72] RODRIGUEZ, APRIL R., US  
[71] THE BOEING COMPANY, US  
[22] 2019-08-07  
[41] 2020-03-21  
[30] US (16/138718) 2018-09-21

[21] **3,051,638**  
[13] A1

[51] **Int.Cl. E21B 10/567 (2006.01) E21B 10/55 (2006.01) E21B 10/58 (2006.01)**

[25] EN

[54] **CLAW SHAPED GOUGING CUTTER FOR FIXED CUTTER DRILL BIT**

[54] **PINCE-GOUGE EN FORME DE GRIFFE POUR FORET DE PINCE FIXE**

[72] BELLIN, FEDERICO, US  
[71] VAREL INTERNATIONAL IND., L.L.C., US  
[22] 2019-08-09  
[41] 2020-03-17  
[30] US (62/732,048) 2018-09-17

[21] **3,051,759**  
[13] A1

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 47/022 (2012.01) E21B 47/04 (2012.01)**

[25] EN

[54] **TOOL-SPECIFIC STEERING OPTIMIZATION TO HIT A TARGET**

[54] **OPTIMISATION DE LA DIRECTION AXEE SUR LES OUTILS POUR FRAPPER UNE CIBLE**

[72] DEMIRER, NAZLI, US  
[72] ZALLUHOGLU, UMUT, US  
[72] MARCK, JULIEN CHRISTIAN VALERY, US  
[72] DARBE, ROBERT, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[22] 2019-08-09  
[41] 2020-03-21  
[30] US (62/734,887) 2018-09-21

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[21] **3,051,813**  
[13] A1

[51] **Int.Cl. H04R 29/00 (2006.01) G10L 21/02 (2013.01) H04L 12/58 (2006.01) H04R 3/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETECTING AND INDICATING THAT AN AUDIO SYSTEM IS INEFFECTIVELY TUNED**

[54] **SYSTEME ET PROCEDE POUR DETECTER ET INDIQUER QU'UN SYSTEME AUDIO N'EST PAS BIEN CALIBRE**

[72] PARANJPE, SHREYAS ANAND, CA  
[72] SOJA, ROBERT JOSEPH, II, CA  
[72] LAYTON, LEONARD CHARLES, CA  
[71] BLACKBERRY LIMITED, CA  
[71] 2236008 ONTARIO INC., CA  
[22] 2019-08-13  
[41] 2020-03-19  
[30] US (16/135,401) 2018-09-19

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[21] **3,051,905**  
[13] A1

[51] **Int.Cl. C03B 27/012 (2006.01) C03B 27/02 (2006.01)**

[25] EN

[54] **FIRE-RATED GLASS UNIT**

[54] **VITRAGE COUPE-FEU**

[72] O'KEEFFE, WILLIAM F., US  
[71] O'KEEFFE, WILLIAM F., US  
[22] 2019-08-13  
[41] 2020-03-19  
[30] US (16/135959) 2018-09-19

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[21] **3,051,906**  
[13] A1

[51] **Int.Cl. F16C 35/077 (2006.01) F02C 7/06 (2006.01) F16F 3/00 (2006.01)**

[25] EN

[54] **BEARING HOUSING WITH DAMPING ARRANGEMENT**

[54] **LOGEMENT DE PALIER DOTE D'UN SYSTEME D'AMORTISSEMENT**

[72] WOJTYCZKA, CZESLAW, CA  
[72] CAULFEILD, STEPHEN, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2019-08-12  
[41] 2020-03-21  
[30] US (62/734,606) 2018-09-21  
[30] US (16/356,367) 2019-03-18

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[21] **3,052,436**  
[13] A1

[51] **Int.Cl. F01D 17/24 (2006.01) F01D 17/14 (2006.01) F01D 17/16 (2006.01) F02C 9/18 (2006.01) F02C 9/22 (2006.01)**

[25] EN

[54] **SIGNAL PROCESSING FOR VARIABLE GEOMETRY MECHANISM CONTROL**

[54] **TRAITEMENT DE SIGNAUX POUR COMMANDE DE SYSTEME A GEOMETRIE VARIABLE**

[72] TANG, POI LOON, CA  
[72] MADANI, KAVEH MOEZZI, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2019-08-16  
[41] 2020-03-21  
[30] US (16/137,800) 2018-09-21

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[21] **3,052,439**  
[13] A1

[51] **Int.Cl. B64D 31/00 (2006.01) B64C 11/30 (2006.01)**

[25] EN

[54] **MODEL-BASED CONTROL SYSTEM AND METHOD FOR A TURBOPROP ENGINE**

[54] **SYSTEME ET PROCEDE DE DE CONTROLE POUR TURBOPROPULSEUR**

[72] TANG, POI LOON, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2019-08-16  
[41] 2020-03-19  
[30] US (16/135,327) 2018-09-19

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[21] **3,052,441**  
[13] A1

[51] **Int.Cl. F04D 15/00 (2006.01) F04D 7/04 (2006.01) F04D 15/02 (2006.01) F04D 27/00 (2006.01) F04D 27/02 (2006.01) F04D 31/00 (2006.01)**

[25] EN

[54] **MULTIPHASE PUMP**

[54] **POMPE MULTIPHASIQUE**

[72] BOURNE, MATTHEW, US  
[71] SULZER MANAGEMENT AG, CH  
[22] 2019-08-19  
[41] 2020-03-17  
[30] EP (18194754.0) 2018-09-17

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[21] **3,052,854**  
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/74 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTOR, NUCLEIC ACID, CHIMERIC ANTIGEN RECEPTOR EXPRESSION PLASMID, CHIMERIC ANTIGEN RECEPTOR EXPRESSING CELL, USE THEREOF, AND PHARMACEUTICAL COMPOSITION FOR TREATING CANCER**

[54] **RECEPTEUR D'ANTIGENE CHIMERE, ACIDE NUCLEIQUE, PLASMIDE D'EXPRESSION DU RECEPTEUR D'ANTIGENE CHIMERE, CELLULE EXPRIMANT LE RECEPTEUR D'ANTIGENE CHIMERE, METHODE D'UTILISATION, ET COMPOSITION PHARMACEUTIQUE POUR TRAITER LE CANCER**

[72] CHO, DER-YANG, CN  
[72] CHIU, SHAO-CHIH, CN  
[72] JAN, CHIA-ING, CN  
[72] PAN, CHIH-MING, CN  
[72] HUANG, SHI-WEI, CN  
[71] CHINA MEDICAL UNIVERSITY HOSPITAL, CN  
[22] 2019-08-23  
[41] 2020-03-17  
[30] TW (107132664) 2018-09-17

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[21] **3,053,143**  
[13] A1

[51] **Int.Cl. A61B 17/115 (2006.01)**

[25] EN

[54] **BUTTRESS ATTACHMENT METHODS FOR CIRCULAR EEA STAPLERS**

[54] **PROCEDES DE FIXATION DE RENFORT D'AGRAFEUSE CIRCULAIRE BOUT A BOUT**

[72] MOHANASUNDARAM, SURESH KUMAR PREMA, IN  
[72] BALI, SUMIT, IN  
[71] COVIDIEN LP, US  
[22] 2019-08-27  
[41] 2020-03-21  
[30] US (62/734,297) 2018-09-21  
[30] US (16/540,422) 2019-08-14

**Demandes canadiennes mises à la disponibilité du public**  
**15 mars 2020 au 21 mars 2020**

[21] **3,053,824**  
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01) B23K 9/10 (2006.01) B23K 37/00 (2006.01) F25D 9/00 (2006.01) F28D 21/00 (2006.01) F28F 7/02 (2006.01)**

[25] EN

[54] **POWER SOURCE COOLING APPARATUS, METHOD, AND CONFIGURATION**

[54] **APPAREIL, METHODE ET UNE CONFIGURATION DE REFROIDISSEMENT DE SOURCE D'ALIMENTATION**

[72] RAYMOND, ANDREW, US

[71] THE ESAB GROUP INC., US

[22] 2019-09-03

[41] 2020-03-21

[30] US (16/138,167) 2018-09-21

[21] **3,054,186**  
[13] A1

[51] **Int.Cl. B64D 47/02 (2006.01) F21S 45/30 (2018.01) F21V 31/00 (2006.01) F21V 31/03 (2006.01)**

[25] EN

[54] **EXTERIOR AIRCRAFT LIGHT AND AIRCRAFT COMPRISING THE SAME**

[54] **SYSTEME D'ECLAIRAGE D'AERONEF EXTERIEUR ET AERONEF DOTE DE CE SYSTEME**

[72] HESSLING-VON HEIMENDAHL, ANDRE, DE

[72] JHA, ANIL KUMAR, DE

[71] GOODRICH LIGHTING SYSTEMS GMBH, DE

[22] 2019-09-03

[41] 2020-03-21

[30] EP (18195931.3) 2018-09-21

[21] **3,054,234**  
[13] A1

[51] **Int.Cl. B60P 1/64 (2006.01) B60P 1/48 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETERMINING THE LENGTH OF A DEMOUNTABLE PLATFORM**

[54] **METHODE ET SYSTEME POUR DETERMINER LA LONGUEUR D'UNE PLATEFORME DEMONTABLE**

[72] NYSTROEM, MIKKO, FI

[71] CARGOTEC PATENTER AB, SE

[22] 2019-09-05

[41] 2020-03-20

[30] EP (18195702.8) 2018-09-20

[21] **3,054,384**  
[13] A1

[51] **Int.Cl. B60W 40/13 (2012.01) B65F 3/02 (2006.01) B65G 67/02 (2006.01) B66C 13/16 (2006.01) B66F 17/00 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING THE MASS AND THE CENTRE OF MASS OF A DEMOUNTABLE PLATFORM**

[54] **METHODE DE DETERMINATION DE LA MASSE ET DU CENTRE DE MASSE D'UNE PLATEFORME DEMONTABLE**

[72] SIREN, PASI, FI

[72] HUOVA, MIKKO, FI

[72] SIIVONEN, LAURI, FI

[71] CARGOTEC PATENTER AB, SE

[22] 2019-09-05

[41] 2020-03-20

[30] EP (18195708.5) 2018-09-20

[21] **3,054,697**  
[13] A1

[51] **Int.Cl. B21B 1/08 (2006.01) B21B 1/38 (2006.01) B21B 39/14 (2006.01)**

[25] EN

[54] **MACHINES TO ROLL-FORM VARIABLE COMPONENT GEOMETRIES**

[54] **MACHINE A FORMER A CYLINDRES A GEOMETRIE DE COMPOSANT VARIABLE**

[72] SMITH, GREGORY S., US

[72] WOLLENBERG, JAMIE, US

[72] KRUG, DUSTIN, US

[71] THE BRADBURY COMPANY, INC., US

[22] 2019-09-09

[41] 2020-03-21

[30] US (62/734,450) 2018-09-21

[21] **3,054,913**  
[13] A1

[51] **Int.Cl. F17D 1/04 (2006.01) F16L 41/02 (2006.01) F16L 41/03 (2006.01)**

[25] EN

[54] **BREAKER BOX ASSEMBLY**

[54] **ASSEMBLAGE DE BOITE DES DISJONCTEURS**

[72] SMITH, MICHAEL D., US

[72] VEELEY, THOMAS G., US

[71] GEORG FISCHER CENTRAL PLASTICS LLC, US

[22] 2019-09-09

[41] 2020-03-18

[30] US (16/134,118) 2018-09-18

[21] **3,054,934**  
[13] A1

[51] **Int.Cl. H04B 1/59 (2006.01) H04W 84/18 (2009.01) G08C 17/02 (2006.01) H04B 1/40 (2015.01)**

[25] EN

[54] **KEY FOB**

[54] **PORTE-CLES**

[72] GUERRERO, SEBASTIAN, CH

[72] LANZ, ROLF, CH

[72] PLUSS, MARCEL, CH

[72] STUDERUS, PAUL, CH

[71] LEGIC IDENTSYSTEMS AG, CH

[22] 2019-09-09

[41] 2020-03-20

[30] CH (01131/18) 2018-09-20

[21] **3,054,980**  
[13] A1

[51] **Int.Cl. G01N 33/46 (2006.01) G01N 35/00 (2006.01)**

[25] EN

[54] **AUTOMATED PROFILING OF THE CONDITION OF WOOD**

[54] **PROFILAGE AUTOMATISE DE L'ETAT DU BOIS**

[72] MORE, RANDAL K., US

[71] OSMOSE UTILITIES SERVICES, INC., US

[22] 2019-09-09

[41] 2020-03-19

[30] US (16/135,484) 2018-09-19

[21] **3,055,111**  
[13] A1

[51] **Int.Cl. E03C 1/04 (2006.01) B05B 1/02 (2006.01) B05B 1/16 (2006.01) E03C 1/08 (2006.01) F16K 11/02 (2006.01)**

[25] EN

[54] **FAUCET WITH WAND AND WAND ACCESSORY**

[54] **ROBINET A DOUCHETTE AVEC ACCESSOIRE DE DOUCHETTE**

[72] HEITMANN, ANDREW M., US

[72] SO, KI Y., US

[71] MOEN INCORPORATED, US

[22] 2019-09-12

[41] 2020-03-17

[30] US (62/732,090) 2018-09-17

[30] US (16/428,691) 2019-05-31

**Canadian Applications Open to Public Inspection  
March 15, 2020 to March 21, 2020**

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[21] **3,055,119**  
[13] A1

[51] **Int.Cl. H01B 7/04 (2006.01) D06N 7/00 (2006.01) H05K 1/02 (2006.01)**  
[25] EN  
[54] **STRETCHABLE CONDUCTOR CIRCUIT**  
[54] **CIRCUIT CONDUCTEUR EXTENSIBLE**  
[72] MOCZYGEMBA, JOSH, US  
[71] II-VI DELAWARE, INC., US  
[22] 2019-09-11  
[41] 2020-03-19  
[30] US (16/136210) 2018-09-19

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[21] **3,055,395**  
[13] A1

[51] **Int.Cl. E03C 1/04 (2006.01) E03C 1/05 (2006.01)**  
[25] EN  
[54] **METERED DISPENSE INPUT DEVICE**  
[54] **DISPOSITIF D'ENTREE DE DISTRIBUTEUR-DOSEUR**  
[72] WALES, JOSHUA, US  
[72] SAWASKI, JOEL D., US  
[72] SPANGLER, ANTHONY G., US  
[72] RITTENHOUSE KENT, US  
[71] DELTA FAUCET COMPANY, US  
[22] 2019-09-13  
[41] 2020-03-17  
[30] US (62/732,486) 2018-09-17

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[21] **3,055,447**  
[13] A1

[51] **Int.Cl. G10L 13/033 (2013.01) G10L 15/00 (2013.01) G10L 17/00 (2013.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR AUDIO NOISE REDUCTION**  
[54] **SYSTEME ET METHODE DE REDUCTION DE BRUIT AUDIO**  
[72] NANDI, AKASH, US  
[72] CHAKRABORTY, SHOWVIK, US  
[71] HONEYWELL INTERNATIONAL INC., US  
[22] 2019-09-16  
[41] 2020-03-17  
[30] US (16/133010) 2018-09-17

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[21] **3,055,450**  
[13] A1

[51] **Int.Cl. B01D 46/52 (2006.01)**  
[25] EN  
[54] **AIR FILTER HAVING PULLING ELEMENTS**  
[54] **FILTRE A AIR MUNI D'UN ELEMENT DE DEGAGEMENT**  
[72] UNKNOWN, XX  
[71] ZHAO, MINGRONG, CA  
[22] 2019-09-16  
[41] 2020-03-17  
[30] US (16563878) 2018-09-17

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[21] **3,055,459**  
[13] A1

[51] **Int.Cl. B64D 31/06 (2006.01) B64D 31/12 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR SYNCHROPHASING AIRCRAFT ENGINES**  
[54] **SYSTEME ET METHODE DE SYNCHRONISATION DE MOTEURS D'AERONEF**  
[72] KATHIRCHELVAN, THINESHAN, CA  
[72] COLAVINCENZO, STEPHEN, CA  
[72] CARON L'ECUYER, ALEXIS, CA  
[71] BOMBARDIER INC., CA  
[22] 2019-09-16  
[41] 2020-03-18  
[30] US (62/732,658) 2018-09-18

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[21] **3,055,469**  
[13] A1

[51] **Int.Cl. B65D 5/40 (2006.01) B65D 5/355 (2006.01) F25D 3/08 (2006.01)**  
[25] EN  
[54] **EXPANDABLE PACKAGING FOR FACILITATING BEVERAGE COOLING**  
[54] **EMBALLAGE EXTENSIBLE POUR FACILITER LE REFROIDISSEMENT DE BOISSONS**  
[72] PRIOR, LUIS, CA  
[72] NOORHOFF, STEVE, CA  
[71] ATLANTIC PACKAGING PRODUCTS LTD., CA  
[22] 2019-09-16  
[41] 2020-03-17  
[30] CA (3,017,504) 2018-09-17  
[30] US (62/787,334) 2019-01-01

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[21] **3,055,487**  
[13] A1

[51] **Int.Cl. G01S 5/06 (2006.01) G01S 1/08 (2006.01) G08G 5/04 (2006.01) H04B 7/26 (2006.01)**  
[25] EN  
[54] **KINEMATICS-AUGMENTED POSITION VALIDATION**  
[54] **VALIDATION DE POSITION A CINEMATIQUE AUGMENTEE**  
[72] GARCIA, MICHAEL A., US  
[72] DOLAN, JOHN, US  
[71] AIREON LLC, US  
[22] 2019-09-16  
[41] 2020-03-19  
[30] US (16/135,558) 2018-09-19

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[21] **3,055,506**  
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **PAYMENT METHOD PREDICTION METHOD, PAYMENT METHOD PREDICTION APPARATUS, AND COMPUTER-READABLE MEDIA**  
[54] **METHODE DE PREVISION DU MODE DE PAIEMENT, APPAREIL DE PREVISION DU MODE DE PAIEMENT ET UN SUPPORT LISIBLE PAR ORDINATEUR**  
[72] HUA, YUPENG, CN  
[71] 10353744 CANADA LTD., CA  
[22] 2019-09-16  
[41] 2020-03-18  
[30] CN (201811086012.5) 2018-09-18

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[21] **3,055,513**  
[13] A1

[51] **Int.Cl. B63B 21/00 (2006.01)**  
[25] EN  
[54] **SHALLOW WATER ANCHOR WITH HYDRAULIC ACTUATION**  
[54] **ANCRE EN EAU PEU PROFONDE A MANOEUVRE HYDRAULIQUE**  
[72] TUREK, CRAIG EDWIN, US  
[72] WOODRUFF, JASON ROBERT, US  
[72] MARCUS, WESLEY CALVIN, US  
[72] HANSEN, RONALD PHILLIP, US  
[72] LIVERSEED, DAVID GERALD, US  
[72] ALDERS, JUSTIN LANE, US  
[72] KOMOR, JANUSZ STANISLAW, US  
[71] JOHNSON OUTDOORS INC., US  
[22] 2019-09-16  
[41] 2020-03-18  
[30] US (16/134,044) 2018-09-18

**Demandes canadiennes mises à la disponibilité du public**  
**15 mars 2020 au 21 mars 2020**

[21] **3,055,516**  
 [13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) G06F 3/0484 (2013.01) G06F 3/0488 (2013.01) G08C 17/02 (2006.01)**

[25] EN

[54] **ELECTRONIC DEVICE, IMAGE DISPLAY METHOD, NON-TRANSITORY COMPUTER-READABLE RECORDING MEDIUM STORING PROGRAM, AND IMAGE CAPTURING SYSTEM**

[54] **DISPOSITIF ELECTRONIQUE, METHODE D'AFFICHAGE D'IMAGES, SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR NON TRANSITOIRE STOCKANT UN PROGRAMME ET SYSTEME DE SAISIE D'IMAGES**

[72] TAKAHASHI, TAKESHI, JP

[72] MACHIDA, TAKANOBU, JP

[71] PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD., JP

[22] 2019-09-16

[41] 2020-03-18

[30] JP (2018-173559) 2018-09-18

[21] **3,055,548**  
 [13] A1

[51] **Int.Cl. B66C 13/46 (2006.01) B66C 13/16 (2006.01) B66C 23/04 (2006.01) B66C 23/46 (2006.01) B66C 23/69 (2006.01)**

[25] EN

[54] **TELEHANDLER BOOM EXTENSION MONITORING SYSTEM**

[54] **SYSTEME DE SURVEILLANCE DE L'EXTENSION D'UNE FLECHE TELESCOPIQUE**

[72] USKOSKI, WILLIAM, US

[71] MANITOU EQUIPMENT AMERICA, LLC, US

[22] 2019-09-16

[41] 2020-03-20

[30] US (16/137,096) 2018-09-20

[21] **3,055,587**  
 [13] A1

[51] **Int.Cl. G01D 5/24 (2006.01) H02K 11/20 (2016.01) G01B 7/14 (2006.01)**

[25] EN

[54] **CAPACITIVE SENSOR**

[54] **CAPTEUR CAPACITIF**

[72] CLOUTIER, MARIUS, CA

[72] CLOUTIER, MATHIEU, CA

[71] VIBROSYSTEM INC., CA

[22] 2019-09-13

[41] 2020-03-17

[30] US (62/732,247) 2018-09-17

[30] US (62/751,785) 2018-10-29

[21] **3,055,592**  
 [13] A1

[51] **Int.Cl. B64C 25/02 (2006.01) F16C 7/02 (2006.01) F16S 3/00 (2006.01)**

[25] EN

[54] **AIRCRAFT LANDING GEAR COMPONENT**

[54] **COMPOSANT DE TRAIN D'ATTERRISSAGE D'AERONEF**

[72] SEXTON, MATTHEW, GB

[71] SAFRAN LANDING SYSTEMS UK LIMITED, GB

[22] 2019-09-13

[41] 2020-03-17

[30] EP (18194812.6) 2018-09-17

[21] **3,055,606**  
 [13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/10 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING CAMPAIGN ANALYTICS**

[54] **SYSTEMES ET METHODES POUR GENERER DES ANALYSES DES CAMPAGNES**

[72] LEAMON, COREY DANIEL, US

[72] FOSS, LUCINDA KATHRYN, US

[72] WALLACE, ROBERT ROBLES, US

[72] KIRKWOOD, CRESTA, US

[72] O'NEILL, THOMAS GERALD, US

[71] SERVICENOW, INC., US

[22] 2019-09-16

[41] 2020-03-17

[30] US (16/164,931) 2018-10-19

[30] US (62/732,410) 2018-09-17

[21] **3,055,607**  
 [13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06F 15/16 (2006.01) G06F 17/00 (2019.01)**

[25] EN

[54] **DECISION TABLES AND ENTERPRISE RULES FOR OBJECT LINKING WITHIN AN APPLICATION PLATFORM AS A SERVICE ENVIRONMENT**

[54] **TABLES DE DECISION ET DES REGLES D'ENTREPRISE POUR UNE LIAISON D'OBJETS DANS UNE PLATE-FORME D'APPLICATION EN TANT QU'ENVIRONNEMENT D'EXPLOITATION**

[72] NELSON, HARRY THOMAS, US

[72] BURMAN, JACOB SAMUEL, US

[72] SOLAEGUI, JUELL, US

[72] ALVARADO JIMENEZ, ALBERTO, US

[72] DIAS, REBECCA ANITA, US

[71] SERVICENOW, INC., US

[22] 2019-09-16

[41] 2020-03-17

[30] US (16/230,586) 2018-12-21

[30] US (16/230,607) 2018-12-21

[30] US (62/732,365) 2018-09-17

[21] **3,055,617**  
 [13] A1

[51] **Int.Cl. G06F 40/221 (2020.01)**

[25] EN

[54] **STREAMING PARSER FOR STRUCTURED DATA-INTERCHANGE FILES**

[54] **ANALYSEUR SYNTAXIQUE DE FLUX CONTINU POUR FICHIERS STRUCTURES D'ECHANGE DE DONNEES**

[72] ROS, FERNANDO, US

[72] MOTAMEDI, KHOSROW JIAN, US

[72] KRASNOW, GREGORY ALLEN, US

[72] BELL, DOUGLAS ANDREW, US

[71] SERVICENOW, INC., US

[22] 2019-09-16

[41] 2020-03-17

[30] US (16/232,717) 2018-09-17

**Canadian Applications Open to Public Inspection**  
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[21] **3,055,640**  
[13] A1

[51] **Int.Cl. B60J 1/20 (2006.01) B60J 3/02 (2006.01) B64C 1/14 (2006.01) B64D 11/00 (2006.01) E06B 9/24 (2006.01)**

[25] EN

[54] **WINDOW ASSEMBLY FOR USE IN A VEHICLE**

[54] **ENSEMBLE DE FENETRE POUR UTILISATION DANS UN VEHICULE**

[72] SWITZER, LON ERIC, US

[72] WILCYNYSKI, PAUL JOSEPH, US

[71] THE BOEING COMPANY, US

[22] 2019-09-13

[41] 2020-03-19

[30] US (16/135,324) 2018-09-19

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[21] **3,055,646**  
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01) B64D 9/00 (2006.01)**

[25] EN

[54] **OVERHEAD PAYLOAD MODULE WITH INTEGRATED STOWBINS**

[54] **MODULE DE CHARGE UTILE SUPERIEUR A COMPARTIMENTS DE RANGEMENT INTEGRES**

[72] YOUNG, STEPHEN M., US

[72] EGGING, DUANE M., US

[72] SEIRSEN, DOUGLAS J., US

[72] KIM, KYONG S., US

[71] THE BOEING COMPANY, US

[22] 2019-09-13

[41] 2020-03-18

[30] US (16/134,685) 2018-09-18

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[21] **3,055,683**  
[13] A1

[51] **Int.Cl. G06F 3/0481 (2013.01) G06Q 10/10 (2012.01) G06F 3/0484 (2013.01)**

[25] EN

[54] **READER MODE FOR PRESENTATION SLIDES IN A CLOUD COLLABORATION PLATFORM**

[54] **MODE LECTURE POUR PRESENTATION DE DIAPOSITIVES DANS UNE PLATE-FORME DE COLLABORATION INFONUAGIQUE**

[72] CHUNG, ANDY, US

[72] BOODMAN, AARON, US

[72] ARVIDSSON, ERIK, US

[72] GIBBS, KEVIN, US

[72] TUNG, JULIE, US

[72] BERLIN, DIANA, US

[71] SALESFORCE.COM, INC., US

[22] 2019-09-17

[41] 2020-03-18

[30] US (62/733075) 2018-09-18

[30] US (62/735731) 2018-09-24

[30] US (62/735746) 2018-09-24

[30] US (16/264041) 2019-01-31

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[21] **3,055,685**  
[13] A1

[51] **Int.Cl. H02J 9/04 (2006.01) E05F 15/665 (2015.01) E05F 15/72 (2015.01) H02J 7/00 (2006.01)**

[25] EN

[54] **BATTERY BACKUP DEVICES AND SYSTEMS FOR GARAGE DOOR OPENERS**

[54] **DISPOSITIFS ET SYSTEMES DE BATTERIE DE SECOURS POUR DES MECANISMES D'OUVERTURE DE PORTES**

[72] KIPPES, SCOTT P., US

[71] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN

[22] 2019-09-17

[41] 2020-03-19

[30] US (62/733,423) 2018-09-19

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[21] **3,055,707**  
[13] A1

[51] **Int.Cl. H04W 12/12 (2009.01) H04B 7/185 (2006.01)**

[25] EN

[54] **METHOD OF DETECTING AND FILTERING ILLEGITIMATE STREAMS IN A SATELLITE COMMUNICATION NETWORK**

[54] **METHODE DE DETECTION ET DE FILTRAGE DE FLUX ILLEGITIMES DANS UN RESEAU DE TELECOMMUNICATION PAR SATELLITE**

[72] ROGNANT, PIERRE, FR

[72] VAN WAMBEKE, NICOLAS, FR

[72] PEYREGA, MATHILDE, FR

[71] THALES, FR

[22] 2019-09-17

[41] 2020-03-20

[30] FR (1800987) 2018-09-20

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[21] **3,055,711**  
[13] A1

[51] **Int.Cl. H04N 21/458 (2011.01) H04N 21/2543 (2011.01) H04N 21/4627 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING INDIVIDUALIZED PLAYLISTS**

[54] **SYSTEMES ET METHODES DE CREATION DE LISTES DE LECTURE PERSONNALISEES**

[72] CHOI, SUNG HO, US

[72] SYMBORSKI, THOMAS, US

[72] TRETIN, MATTHEW, US

[71] FUBOTV INC., US

[22] 2019-09-17

[41] 2020-03-21

[30] US (16/138,604) 2018-09-21

**Demandes canadiennes mises à la disponibilité du public**  
**15 mars 2020 au 21 mars 2020**

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[21] **3,055,713**  
[13] A1

[51] **Int.Cl. H05K 1/02 (2006.01) G01S 7/521 (2006.01) H01H 1/20 (2006.01) H05K 1/03 (2006.01) H05K 1/11 (2006.01)**

[25] EN

[54] **CIRCUIT BOARD WITH DIELECTRIC SURFACE SWITCH AND EMBEDDED METAMATERIALS PROVIDING INCREASED ARC RESISTANCE**

[54] **CARTES DE CIRCUITS IMPRIMES AYANT UN INTERRUPTEUR EN SAILLIE DIELECTRIQUE ET DES METAMATERIAUX INTEGRES OFFRANT UNE RESISTANCE A L'ARC AMELIOREE**

[72] BENDIX, LENDON L., US

[71] SPARTON CORPORATION, US

[22] 2019-09-17

[41] 2020-03-20

[30] US (16/136,547) 2018-09-20

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[21] **3,055,716**  
[13] A1

[51] **Int.Cl. B64D 11/06 (2006.01) A47C 7/72 (2006.01) B64D 47/02 (2006.01) F21V 21/28 (2006.01) F21V 33/00 (2006.01)**

[25] EN

[54] **ARTICULATING ARMREST LIGHT ASSEMBLY**

[54] **ENSEMBLE D'ECLAIRAGE POUR APPUI-BRAS ARTICULE**

[72] COLLETTI, BRIAN P., US

[71] THE BOEING COMPANY, US

[22] 2019-09-16

[41] 2020-03-18

[30] US (16/133996) 2018-09-18

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[21] **3,055,726**  
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/18 (2006.01) E21B 43/20 (2006.01) E21B 43/22 (2006.01)**

[25] FR

[54] **PROCESS FOR EXPLOITING A HYDROCARBON RESERVE BY POLYMER INJECTION**

[54] **PROCEDE D'EXPLOITATION D'UN GISEMENT D'HYDROCARBURES PAR INJECTION D'UN POLYMERE**

[72] PREUX, CHRISTOPHE, FR

[72] MALINOUSKAYA, IRYNA, FR

[71] IFP ENERGIES NOUVELLES, FR

[22] 2019-09-16

[41] 2020-03-20

[30] FR (18 58 547) 2018-09-20

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[21] **3,055,743**  
[13] A1

[51] **Int.Cl. B62J 1/00 (2006.01)**

[25] EN

[54] **SEAT WITH DOWNWARDLY-SLANTED BUMP-LESS NOSE**

[54] **SIEGE DISPOSANT D'UNE PARTIE AVANT EFFILEE INCLINEE VERS LE BAS ET GENERALEMENT PLATE**

[72] SUPOWITZ, ANI, US

[72] VISINTIN, BRYAN, US

[72] FETTES, IAN, US

[71] AB INVENTIONS, LLC, US

[22] 2019-09-17

[41] 2020-03-20

[30] US (62/733645) 2018-09-20

[30] US (16/373557) 2019-04-02

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[21] **3,055,748**  
[13] A1

[51] **Int.Cl. C09J 183/10 (2006.01) C09J 11/06 (2006.01) C09J 7/30 (2018.01)**

[25] EN

[54] **ADHESIVE COMPOSITION FOR USE IN ROOFING MATERIALS**

[54] **COMPOSITION ADHESIVE POUR L'UTILISATION DANS DES MATERIAUX DE COUVERTURE**

[72] YOUNG, PATRICK H., US

[72] STOLLER, NATHANIEL PHILIP, US

[71] SEAL BOND, INC., US

[22] 2019-09-17

[41] 2020-03-20

[30] US (62/733,880) 2018-09-20

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[21] **3,055,753**  
[13] A1

[51] **Int.Cl. B60W 40/13 (2012.01) B66C 13/16 (2006.01) B66F 17/00 (2006.01) B65F 3/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETERMINING THE WEIGHT OF A DEMOUNTABLE PLATFORM**

[54] **METHODE ET SYSTEME POUR DETERMINER LE POIDS D'UNE PLATEFORME DEMONTABLE**

[72] SIREN, PASI, FI

[71] CARGOTEC PATENTER AB, SE

[22] 2019-09-17

[41] 2020-03-20

[30] EP (18195700.2) 2018-09-20

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[21] **3,055,787**  
[13] A1

[51] **Int.Cl. B28B 7/22 (2006.01) B28B 23/22 (2006.01) E04B 2/86 (2006.01) E04G 13/06 (2006.01)**

[25] EN

[54] **PRECAST REINFORCED CONCRETE FORM**

[54] **FORME DE BETON ARME PREMOULE**

[72] MARIN, ENNIO, CA

[72] VERRILLI, ROBERT, CA

[72] VERRILLI, DANNY, CA

[72] TRAVANI, ANDREA, US

[71] 2650058 ONTARIO LTD. C.O.B HYBRICRETE STRUCTURAL SOLUTIONS, CA

[22] 2019-09-18

[41] 2020-03-18

[30] CA (3,017,682) 2018-09-18

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**Canadian Applications Open to Public Inspection  
March 15, 2020 to March 21, 2020**

[21] **3,055,805**  
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4439 (2006.01) A61K 31/675 (2006.01) A61P 1/00 (2006.01) A61P 19/02 (2006.01) C07D 405/14 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01) C07F 9/6558 (2006.01)**

[25] EN

[54] **N-SUBSTITUTED-DIOXOCYCLOBUTENYLAMINO-3-HYDROXY-PICOLINAMIDES USEFUL AS CCR6 INHIBITORS**

[54] **DIOXOCYCLOBUTENYLAMINO-3-HYDROXY-PICOLINAMIDES D'AZOTE SUBSTITUE UTILES COMME INHIBITEURS DE CCR6**

[72] GERSTENBERGER, BRIAN STEPHEN, US

[72] LOMBARDO, VINCENT MICHAEL, US

[72] MOUSSEAU, JAMES JOHN, US

[72] SCHNUTE, MARK EDWARD, US

[72] FLICK, ANDREW CHRISTOPHER, US

[72] KUNG, DANIEL WEI-SHUNG, US

[72] NUHANT, PHILIPPE MARCEL, US

[72] ROBINSON, RALPH PELTON, JR., US

[72] SCHMITT, DANIEL COPLEY, US

[72] THORARENSEN, ATLI, US

[72] TRUJILLO, JOHN ISIDRO, US

[72] UNWALLA, RAYOMAND JAL, US

[72] WU, HUIXIAN, US

[71] PFIZER INC., US

[22] 2019-09-18

[41] 2020-03-21

[30] US (62/734486) 2018-09-21

[21] **3,055,815**  
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01) E04F 11/00 (2006.01)**

[25] EN

[54] **ADJUSTABLE GLASS GRIP SYSTEME DE FIXATION REGLABLE D'UNE BALUSTRADE EN VERRE**

[72] RAVAN, ALI, CA

[72] MERECIECA, HENRY, CA

[71] EURO ORNAMENTAL FORGINGS INC., CA

[22] 2019-09-18

[41] 2020-03-19

[30] US (62/733,392) 2018-09-19

[21] **3,055,826**  
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/90 (2019.01) G06N 3/02 (2006.01)**

[25] EN

[54] **MACHINE LEARNING WORKER NODE ARCHITECTURE**

[54] **ARCHITECTURE DE NOEUDS DE TRAVAIL D'APPRENTISSAGE AUTOMATIQUE**

[72] JAYARAMAN, BASKAR, US

[72] THAKUR, ANIRUDDHA MADHUSUDAN, US

[72] FENG, TAO, US

[72] GOVINDARAJAN, KANNAN, US

[71] SERVICENOW, INC., US

[22] 2019-09-18

[41] 2020-03-19

[30] US (16/135,630) 2018-09-19

[21] **3,055,838**  
[13] A1

[51] **Int.Cl. G06F 40/20 (2020.01) G06F 16/90 (2019.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**

[25] EN

[54] **PERSISTENT WORD VECTOR INPUT TO MULTIPLE MACHINE LEARNING MODELS**

[54] **SAISIE DE VECTEURS DE MOTS PERMANENTS DANS DE MULTIPLES MODELES D'APPRENTISSAGE AUTOMATIQUE**

[72] JAYARAMAN, BASKAR, US

[72] GOVINDARAJAN, KANNAN, US

[72] THAKUR, ANIRUDDHA MADHUSUDAN, US

[72] WANG, JUN, US

[72] GANAPATHY, CHITRABHARATHI, US

[71] SERVICENOW, INC., US

[22] 2019-09-18

[41] 2020-03-19

[30] US (16/135,822) 2018-09-19

[21] **3,055,840**  
[13] A1

[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/588 (2006.01)**

[25] EN

[54] **CONFORMANCE CONTROL AND SELECTIVE BLOCKING IN POROUS MEDIA THROUGH DROPLET-DROPLET INTERACTIONS IN NANOPARTICLE STABILISED EMULSIONS**

[54] **CONTROLE DE CONFORMITE ET BLOCAGE SELECTIF DE SUBSTANCES POREUSES AU MOYEN D'INTERACTIONS GOUTTELETTE-GOUTTELETTE DANS DES EMULSIONS STABLES DE NANOPARTICULES**

[72] PANDEY, ASEEM, CA

[72] TELMADARREIE, ALI, CA

[72] TRIFKOVIC, MILANA, CA

[72] BRYANT, STEVEN, CA

[71] UTI LIMITED PARTNERSHIP, CA

[22] 2019-09-17

[41] 2020-03-21

[30] US (62/734,681) 2018-09-21

[21] **3,055,847**  
[13] A1

[51] **Int.Cl. G06F 16/95 (2019.01)**

[25] EN

[54] **METHOD, DEVICE, STORAGE MEDIUM AND CLIENT FOR PAGE RETURN**

[54] **METHODE, DISPOSITIF, SUPPORT DE STOCKAGE ET CLIENT DE RETOUR AUX PAGES PRECEDENTES**

[72] CHEN, YULIN, CN

[72] FENG, YONG, CN

[71] 10353744 CANADA LTD., CA

[22] 2019-09-18

[41] 2020-03-21

[30] CN (201811109530.4) 2018-09-21

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[21] **3,055,851**  
[13] A1

[51] **Int.Cl. B64D 43/00 (2006.01) B64D 45/00 (2006.01) G05D 1/10 (2006.01)**

[25] EN

[54] **AIRCRAFT ANTI-SPIN SYSTEMS**

[54] **SYSTEMES ANTIVRILLES D'AERONEF**

[72] NASLUND, BRIAN BRENT, US

[72] WINTER, JOHN D., US

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-09-17

[41] 2020-03-19

[30] US (16/135,271) 2018-09-19

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[21] **3,055,858**  
[13] A1

[51] **Int.Cl. F16L 55/46 (2006.01) B65H 75/42 (2006.01) F16L 41/04 (2006.01) F16L 55/30 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANAGING A CABLE ATTACHED TO AN INSPECTOR PROBE DISPOSED IN A PRESSURIZED PIPE**

[54] **SYSTEMES ET METHODES POUR LA GESTION D'UN CABLE ATTACHE A UNE SONDE D'INSPECTION PLACEE DANS UN TUYAU SOUS PRESSION**

[72] VAZZANA, CHRISTOPHER C., US

[72] NELSON, ANDREW J., US

[71] HYDRA-STOP LLC, US

[22] 2019-09-18

[41] 2020-03-20

[30] US (62/733,956) 2018-09-20

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[21] **3,055,894**  
[13] A1

[51] **Int.Cl. A61F 13/15 (2006.01) A41H 42/00 (2006.01) A41H 43/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR APPLICATION OF DISCRETE MATERIAL SEGMENTS TO RUNNING WEB MATERIAL**

[54] **APPAREIL ET METHODE D'APPLICATION DE SEGMENTS DE MATERIAUX DISCRETS A UN MATERIAU EN BANDE EN MOUVEMENT**

[72] FRITZ, JEFFREY W., US

[72] SCHUETTE, DAVID E., US

[72] LAFFERTY, JUSTIN M., US

[72] MCCLURG, JORAM L., US

[72] HUMPHREY, TODD A., US

[71] CURT G. JOA, INC., US

[22] 2019-09-17

[41] 2020-03-20

[30] US (62/734,036) 2018-09-20

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[21] **3,055,896**  
[13] A1

[51] **Int.Cl. B60W 30/09 (2012.01) B60W 30/095 (2012.01)**

[25] EN

[54] **ELECTRONIC DEVICE FOR DETERMINING AN EMERGENCY STOPPING TRAJECTORY OF AN AUTONOMOUS VEHICLE, RELATED VEHICLE AND METHOD**

[54] **DISPOSITIF ELECTRONIQUE POUR DETERMINER UNE TRAJECTOIRE D'ARRET D'URGENCE D'UN VEHICULE AUTONOME, VEHICULE ET METHODE CONNEXES**

[72] LE CORNEC, OLIVIER, FR

[71] TRANSDEV GROUP, FR

[22] 2019-09-17

[41] 2020-03-19

[30] FR (18 58488) 2018-09-19

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[21] **3,055,898**  
[13] A1

[51] **Int.Cl. B65H 31/20 (2006.01) B65H 29/38 (2006.01) B65H 43/06 (2006.01)**

[25] EN

[54] **DYNAMICALLY ADJUSTING BOARD STACKING SYSTEM**

[54] **SYSTEME D'EMPILEMENT DE PANNEAUX A REGLAGE DYNAMIQUE**

[72] UNKNOWN, XX

[72] ST-PIERRE, ISABELLE, CA

[72] ST-PIERRE, MICHEL, CA

[72] ST-PIERRE, JEAN-MICHEL, CA

[72] VALLEE, ERIC, CA

[71] NOVILCO INC., XX

[22] 2019-09-19

[41] 2020-03-19

[30] US (62/733,279) 2018-09-19

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[21] **3,055,901**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H02H 3/087 (2006.01) H02H 5/04 (2006.01) H02M 3/04 (2006.01)**

[25] EN

[54] **PORTABLE DUAL-DEVICE CHARGER SYSTEM**

[54] **SYSTEME PORTATIF DE RECHARGE DE DEUX APPAREILS**

[72] ISAACS, PHILIP M., CA

[72] XU, KAI, CA

[72] VANDERVIJES, DAVID, CA

[71] NORTH INC., CA

[22] 2019-09-19

[41] 2020-03-19

[30] US (62/733,243) 2018-09-19

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[21] **3,055,902**  
[13] A1

[51] **Int.Cl. B65H 19/10 (2006.01) B65H 39/16 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR SPLICING MATERIAL ROLLS**

[54] **APPAREIL ET METHODE D'EPISSAGE DE ROULEAUX DE MATERIAUX**

[72] WAKEFIELD, RICKY A., US

[72] FOLLEN, SEAN P., US

[72] DODELIN, DONALD R., US

[72] FRITZ, JEFFREY W., US

[71] CURT G. JOA, INC., US

[22] 2019-09-17

[41] 2020-03-19

[30] US (62/733,349) 2018-09-19

[30] US (62/868,293) 2019-06-28

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[21] **3,055,903**  
[13] A1

[51] **Int.Cl. B66F 17/00 (2006.01) B60P 1/02 (2006.01) B66B 9/00 (2006.01) B66F 7/00 (2006.01) B66F 7/28 (2006.01) B66F 11/04 (2006.01)**

[25] EN

[54] **INTERLOCK FOR WHEELCHAIR LIFT OUTER ROLL STOP**

[54] **DISPOSITIF DE VERROUILLAGE DE BUTOIR ESCAMOTABLE EXTERNE POUR ELEVATEUR DE FAUTEUIL ROULANT**

[72] SCHMIDT, TIMOTHY R., US

[72] CERVERA, LLUNO, US

[72] DEBSKI, PAUL W., US

[72] KOBEL, KARL J., US

[72] SATKIEWICZ, BENJAMIN R., US

[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US

[22] 2019-09-19

[41] 2020-03-20

[30] US (62/733,865) 2018-09-20

[30] US (16/227,288) 2018-12-20

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[21] **3,055,907**  
[13] A1

[51] **Int.Cl. H03K 17/96 (2006.01) G06F 3/01 (2006.01)**

[25] EN

[54] **ZERO-POWER WAKE-UP SENSING CIRCUIT IN PIEZOELECTRIC HAPTIC FEEDBACK**

[54] **CIRCUIT DE REVEIL SANS CONSOMMATION D'ENERGIE POUR UN CAPTEUR DANS UNE RETROACTION HAPTIQUE PIEZOELECTRIQUE**

[72] CHAPUT, SIMON, CA

[72] RENAUD, MARTIN, CA

[71] BOREAS TECHNOLOGIES INC., CA

[22] 2019-09-19

[41] 2020-03-20

[30] US (16/136,347) 2018-09-20

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[21] **3,055,918**  
[13] A1

[51] **Int.Cl. G01S 13/74 (2006.01) E21C 35/00 (2006.01) G01V 15/00 (2006.01)**

[25] EN

[54] **ORE TAG ASSEMBLY AND SYSTEM AND METHOD RE SAME**

[54] **ENSEMBLE D'ETIQUETAGE DE MINERAI ET SYSTEME ET METHODE A CE PROPOS**

[72] ARSENAULT, GILLES, CA

[72] BRULE, YVAN, CA

[72] CLEMENT, PATRICK, CA

[71] K4 INTEGRATION INC., CA

[22] 2019-09-18

[41] 2020-03-18

[30] CA (3,017,675) 2018-09-18

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[21] **3,055,921**  
[13] A1

[51] **Int.Cl. B65H 16/06 (2006.01) A47K 10/38 (2006.01) B65H 75/00 (2006.01)**

[25] EN

[54] **WEB MATERIAL DISPENSER, BACK WALL FOR A WEB MATERIAL DISPENSER AND METHOD FOR SECURING A WEB MATERIAL DISPENSER TO A SUPPORTING SURFACE**

[54] **DISTRIBUTEUR DE MATERIAU EN BANDE, MUR ARRIERE D'UN DISTRIBUTEUR DE MATERIAU EN BANDE ET METHODE POUR FIXER UN DISTRIBUTEUR DE MATERIAU EN BANDE SUR UNE SURFACE D'APPUI**

[72] UNKNOWN, XX

[72] PARE, RICHARD, CA

[72] DALLAIRE, ANTOINE, CA

[72] L'HEUREUX, MARC-ANDRE, CA

[71] CASCADES CANADA ULC, XX

[22] 2019-09-19

[41] 2020-03-20

[30] US (62/733,728) 2018-09-20

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[21] **3,055,934**  
[13] A1

[51] **Int.Cl. A01K 61/60 (2017.01) A01K 63/00 (2017.01)**

[25] EN

[54] **AQUAFARMING SYSTEM AND FLOAT THEREFOR**

[54] **SYSTEME D'AQUACULTURE ET SON FLOTTEUR**

[72] GUNDERSON, STEEN NICHOLAS, CA

[71] BOUCTOUCHE BAY INDUSTRIES LTD., CA

[22] 2019-09-19

[41] 2020-03-20

[30] CA (3,018,010) 2018-09-20

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[21] **3,055,944**  
[13] A1

[51] **Int.Cl. G07C 5/00 (2006.01) H04W 4/12 (2009.01) G06Q 40/08 (2012.01) H04W 4/38 (2018.01)**

[25] EN

[54] **AUTOMATIC REAL-TIME DETECTION OF VEHICULAR INCIDENTS**

[54] **DETECTION AUTOMATIQUE EN TEMPS REEL D'INCIDENTS LIES A DES VEHICULES**

[72] DUGAS, CHARLES PATRICK, CA

[72] RIVERSO, ROBERT JOHN, CA

[72] BENFEITO, CARLOS, CA

[71] ELEMENT AI INC., CA

[22] 2019-09-19

[41] 2020-03-21

[30] US (62/734,525) 2018-09-21

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[21] **3,055,950**  
[13] A1

[51] **Int.Cl. G01M 17/00 (2006.01) G06Q 30/02 (2012.01) G06T 7/00 (2017.01) G06Q 40/08 (2012.01) G06N 3/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING DAMAGE**

[54] **SYSTEME ET PROCEDE POUR DETERMINER LES DOMMAGES**

[72] DUGAS, CHARLES PATRICK, CA

[72] RIVERSO, ROBERT JOHN, CA

[72] BENFEITO, CARLOS, CA

[71] ELEMENT AI INC., CA

[22] 2019-09-19

[41] 2020-03-21

[30] US (62/734,399) 2018-09-21

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[21] **3,055,951**  
[13] A1

[51] **Int.Cl. B60W 30/09 (2012.01) B60W 30/095 (2012.01)**  
[25] EN  
[54] **AUTOMATICALLY ASSESSING AND REDUCING VEHICULAR INCIDENT RISK**  
[54] **EVALUATION ET LA REDUCTION AUTOMATIQUES DU RISQUE D'INCIDENTS LIES A DES VEHICULES**  
[72] DUGAS, CHARLES PATRICK, CA  
[72] RIVERSO, ROBERT JOHN, CA  
[72] BENFEITO, CARLOS, CA  
[71] ELEMENT AI INC., CA  
[22] 2019-09-19  
[41] 2020-03-21  
[30] US (62/734,383) 2018-09-21

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[21] **3,055,954**  
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 33/12 (2006.01)**  
[25] EN  
[54] **CONTROL LINE SET ESP PACKET WITH ANTI-PRESET DEVICE**  
[54] **PAQUET DE PROTOCOLE ESP POUR ENSEMBLE CONTENANT UNE LIGNE DE CONTROLE ET DISPOSITIF ANTI-PREACTIONNEMENT**  
[72] BRINGHAM, HEATH, US  
[72] PLUNKETT, KEVIN, US  
[72] RIGGS, KYLE, US  
[71] D&L MANUFACTURING, INC., US  
[22] 2019-09-19  
[41] 2020-03-20  
[30] US (62/734,012) 2018-09-20

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[21] **3,055,973**  
[13] A1

[51] **Int.Cl. G06F 16/903 (2019.01) G06F 40/211 (2020.01) H04L 12/24 (2006.01)**  
[25] EN  
[54] **IMPROVED PARSING OF USER QUERIES IN A REMOTE NETWORK MANAGEMENT PLATFORM USING EXTENDED CONTEXT-FREE GRAMMAR RULES**  
[54] **ANALYSE AMELIOREE DES INTERROGATIONS D'UTILISATEUR DANS UNE PLATEFORME DE GESTION DE RESEAU ELOIGNE A L'AIDE DE REGLES DE GRAMMAIRE A CONTEXTE LIBRE ETENDUES**  
[72] VERTSEL, ALIAKSEI, US  
[72] KOROLEV, DMITRY, US  
[72] RUMIANTS AU, MIKHAIL, US  
[71] SERVICENOW, INC., US  
[22] 2019-09-19  
[41] 2020-03-21  
[30] US (16/539,731) 2019-08-13  
[30] US (62/741,935) 2018-10-05  
[30] US (62/734,916) 2018-09-21

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[21] **3,055,974**  
[13] A1

[51] **Int.Cl. C08J 11/06 (2006.01)**  
[25] EN  
[54] **METHOD FOR PURIFICATION OF DEPOLYMERIZED POLYMERS USING SUPERCRITICAL FLUID EXTRACTION**  
[54] **METHODE DE PURIFICATION DE POLYMERES DEPOLYMERISES AU MOYEN D'UNE EXTRACTION PAR FLUIDE SUPERCRITIQUE**  
[72] YAO, YUXIANG, CA  
[72] FENTON, IRENE, CA  
[72] DI MONDO, DOMENIC, CA  
[72] AZIMI, GISELE, CA  
[71] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA  
[22] 2019-09-18  
[41] 2020-03-18  
[30] US (16/134,080) 2018-09-18

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[21] **3,055,976**  
[13] A1

[51] **Int.Cl. B62D 24/00 (2006.01) B62D 25/00 (2006.01) B62D 25/20 (2006.01) B64C 1/18 (2006.01) B64D 11/06 (2006.01) F16B 3/04 (2006.01) F16B 21/12 (2006.01)**  
[25] EN  
[54] **FLOOR FIXING ASSEMBLY**  
[54] **ENSEMBLE DE FIXATION AU PLANCHER**  
[72] ROTH, INGO, DE  
[72] HEGENBART, MATTHIAS, DE  
[71] AIRBUS OPERATIONS GMBH, DE  
[22] 2019-09-18  
[41] 2020-03-19  
[30] DE (102018122958-5) 2018-09-19

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[21] **3,055,977**  
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06F 21/35 (2013.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PROVIDING CARD INTERACTIONS**  
[54] **SYSTEMES ET METHODES D'INTERACTIONS DE CARTES**  
[72] MOSSLER, LARA, US  
[72] MANIVANNAN, ARAVINDHAN, US  
[72] DILLI, BASKAR, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[22] 2019-09-18  
[41] 2020-03-19  
[30] US (16/135,954) 2018-09-19

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[21] **3,055,993**  
[13] A1

[51] **Int.Cl. G06F 16/21 (2019.01) G06F 21/55 (2013.01) G06F 16/24 (2019.01)**  
[25] EN  
[54] **DATABASE ACCESS, MONITORING, AND CONTROL SYSTEM AND METHOD FOR REACTING TO SUSPICIOUS DATABASE ACTIVITIES**  
[54] **SYSTEME D'ACCES, DE SURVEILLANCE ET DE CONTROLE POUR UNE BASE DE DONNEES ET METHODE POUR REAGIR EN CAS D'ACTIVITES SUSPECTES DANS LA BASE DE DONNEES**  
[72] CHAU, BINH, US  
[72] BUKHARI, AMINA, US  
[71] IDERA, INC., US  
[22] 2019-09-19  
[41] 2020-03-20  
[30] US (62/733,966) 2018-09-20

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[21] **3,056,051**  
[13] A1

[51] **Int.Cl. G01D 11/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ACCESSING AND MONITORING A FLUID WITHIN A PRESSURIZED PIPE**  
[54] **SYSTEMES ET METHODES D'ACCES ET DE SURVEILLANCE D'UN FLUIDE DANS UNE CONDUITE SOUS PRESSION**  
[72] VAZZANA, CHRISTOPHER C., US  
[72] NELSON, ANDREW J., US  
[71] HYDRA-STOP LLC, US  
[22] 2019-09-19  
[41] 2020-03-20  
[30] US (62/733,900) 2018-09-20

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[21] **3,056,052**  
[13] A1

[51] **Int.Cl. F16D 23/12 (2006.01) E05F 15/40 (2015.01) E05F 11/54 (2006.01) E06B 9/80 (2006.01) F16D 11/14 (2006.01) H02K 7/108 (2006.01)**  
[25] EN  
[54] **A CLUTCH ASSEMBLY**  
[54] **BLOC D'EMBRAYAGE**  
[72] DANG, TOAN, AT  
[72] MATTHEWS, GEORGE, AT  
[71] AUTOMATIC TECHNOLOGY (AUSTRALIA) PTY LTD, AU  
[22] 2019-09-19  
[41] 2020-03-21  
[30] AU (2018903560) 2018-09-21  
[30] AU (2018903651) 2018-09-27

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[21] **3,056,081**  
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61M 1/00 (2006.01)**  
[25] EN  
[54] **SMOKE EVACUATION ELECTROSURGICAL PENCIL WITH ADJUSTABLE ELECTRODE AND VENT TUBE**  
[54] **ELECTROCAUTERE D'EVACUATION DE FUMEE DOTE D'UNE ELECTRODE REGLABLE ET D'UN TUBE D'AERATION**  
[72] MANLEY, PRAKASH, US  
[72] ALLEN, JAMES D., IV, US  
[72] BRAGOSKY, TYLER J., US  
[72] BYRNE, CONOR N., US  
[72] SANDERS, JASON T., US  
[72] WALBRIDGE, CHELSEA E., US  
[72] LACY, CHANDLER E., US  
[71] COVIDIEN LP, US  
[22] 2019-09-20  
[41] 2020-03-21  
[30] US (62/734,397) 2018-09-21  
[30] US (16/565,150) 2019-09-09

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[21] **3,056,082**  
[13] A1

[51] **Int.Cl. A01K 5/00 (2006.01)**  
[25] EN  
[54] **LIVESTOCK FEEDER**  
[54] **NOURRISSEUR A BETAIL**  
[72] GRAVES, TRAVIS, US  
[71] AMERIAG, LLC, US  
[22] 2019-09-20  
[41] 2020-03-21  
[30] US (62/734,304) 2018-09-21

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[21] **3,056,091**  
[13] A1

[51] **Int.Cl. G07C 15/00 (2006.01)**  
[25] EN  
[54] **MULTI-BIN LOTTERY TICKET DISPENSER WITH FLOATING CIRCUIT BOARD CONFIGURATION**  
[54] **DISTRIBUTEUR DE BILLETS DE LOTERIE A BACS MULTIPLES EN CONFIGURATION DE CIRCUIT ISOLE DE LA MASSE**  
[72] GHIA, AJAY J., US  
[72] MEJENBORG, STEN HALLUNBAEK, US  
[72] THOMPSON, MARK ANDREW, US  
[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US  
[22] 2019-09-20  
[41] 2020-03-20  
[30] US (62/733,794) 2018-09-20

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[21] **3,056,092**  
[13] A1

[51] **Int.Cl. A47C 20/02 (2006.01) A47C 20/04 (2006.01)**  
[25] EN  
[54] **BACK REST ASSEMBLY**  
[54] **ASSEMBLAGE DE DOSSIER**  
[72] MORRISON, ROBERT R., CA  
[71] MORRISON, ROBERT R., CA  
[22] 2019-09-20  
[41] 2020-03-20  
[30] US (62/733,847) 2018-09-20

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[21] **3,056,093**  
[13] A1

[51] **Int.Cl. A47F 1/04 (2006.01) A47B 88/919 (2017.01) A47B 63/00 (2006.01) A47B 67/04 (2006.01) A47F 7/00 (2006.01) B65H 20/36 (2006.01) G07C 15/00 (2006.01)**

[25] EN

[54] **LOTTERY TICKET BIN WITH PULL-OUT DRAWER AND TICKET GUIDE CONFIGURATION**

[54] **BAC A BILLETS DE LOTERIE EN CONFIGURATION DE TIROIR ET DE GUIDES**

[72] GHIA, AJAY J., US

[72] MEJENBORG, STEN HALLUNBAEK, US

[72] HOLBROOK, JAMES JONATHAN, US

[72] THOMPSON, MARK ANDREW, US

[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US

[22] 2019-09-20

[41] 2020-03-20

[30] US (62/733,888) 2018-09-20

[21] **3,056,094**  
[13] A1

[51] **Int.Cl. E04B 2/86 (2006.01)**

[25] EN

[54] **INSULATING CONCRETE FORM APPARATUS**

[54] **DISPOSITIF DE COFFRAGE A BETON ISOLE**

[72] STEWART, COOPER E., US

[72] STEEFES, GREGORY R., US

[71] STEWART, COOPER E., US

[71] STEEFES, GREGORY R., US

[22] 2019-09-20

[41] 2020-03-21

[30] US (62/734,713) 2018-09-21

[21] **3,056,095**  
[13] A1

[51] **Int.Cl. G07C 15/00 (2006.01)**

[25] EN

[54] **LOTTERY TICKET BIN WITH PULL-OUT DRAWER AND FOLDING CABLE CONFIGURATION**

[54] **BAC A BILLETS DE LOTERIE EN CONFIGURATION DE TIROIR ET DE CABLE PLIANT**

[72] MEJENBORG, STEN HALLUNBAEK, US

[72] THOMPSON, MARK ANDREW, US

[72] HOLBROOK, JAMES JONATHAN, US

[72] SCOTT, IAN ROBERT, US

[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US

[22] 2019-09-20

[41] 2020-03-20

[30] US (62/733,876) 2018-09-20

[21] **3,056,100**  
[13] A1

[51] **Int.Cl. A01G 20/47 (2018.01) F04D 25/06 (2006.01) F04D 25/08 (2006.01)**

[25] EN

[54] **AN ELECTRIC BLOWER**

[54] **SOUFFLEUSE ELECTRIQUE**

[72] CHUNG, KOON FOR, CN

[71] TECHTRONIC CORDLESS GP, US

[22] 2019-09-19

[41] 2020-03-21

[30] EP (18196082.4) 2018-09-21

[21] **3,056,123**  
[13] A1

[51] **Int.Cl. G06Q 40/06 (2012.01)**

[25] EN

[54] **RISK ASSESSMENT TOOL**

[54] **OUTIL D'EVALUATION DES RISQUES**

[72] EVANGELIOU, JOHN, CA

[72] EVANGELIOU, GEORGE, CA

[71] FUNDLAB TECHNOLOGIES INC., CA

[22] 2019-09-19

[41] 2020-03-20

[30] US (62/734,031) 2018-09-20

[21] **3,056,126**  
[13] A1

[51] **Int.Cl. A61B 3/113 (2006.01) G06T 7/13 (2017.01) A61B 5/16 (2006.01)**

[25] EN

[54] **DISCRIMININATIVE ROBUST GAZE ESTIMATION USING KERNAL-DMCCA FUSION**

[54] **ESTIMATION DU REGARD ROBUSTE DISCRIMINATIVE AU MOYEN D'UNE FUSION DU NOYAU PAR ANALYSE CANONIQUE DES CORRELATIONS MULTIPLES**

[72] ZANDI, ALI SHAHIDI, CA

[72] QUDDUS, AZHAR, CA

[72] COMEAU, FELIX J. E., CA

[72] RABBA, SALAH, CA

[72] KYAN, MATTHEW, CA

[72] GAO, LEI, CA

[72] GUAN, LING, CA

[71] ALCOHOL COUNTERMEASURE SYSTEMS (INTERNATIONAL) INC., CA

[22] 2019-09-20

[41] 2020-03-20

[30] US (62/733,845) 2018-09-20

[21] **3,056,207**  
[13] A1

[51] **Int.Cl. H01L 31/05 (2014.01) H01L 31/0475 (2014.01) H02S 40/00 (2014.01)**

[25] EN

[54] **SOLAR CELL STRIP, SOLAR CELL AND SOLAR CELL MODULE**

[54] **BANDE PHOTOVOLTAIQUE, PHOTOPILE ET MODULE PHOTOVOLTAIQUE**

[72] WANG, YONG, CN

[72] XU, JIE, CN

[72] YAN, XINCHUN, CN

[72] DING, ZENGQIAN, CN

[72] TAN, LIXIANG, CN

[72] XIA, ZHENGYUE, CN

[72] LIU, YAFENG, CN

[72] XING, GUOQIANG, CN

[71] CSI SOLAR POWER GROUP CO., LTD., CN

[71] CANADIAN SOLAR SOLUTIONS INC., CA

[22] 2019-09-20

[41] 2020-03-21

[30] CN (201811109217.0) 2018-09-21

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[21] **3,056,217**  
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01) H04W 24/04 (2009.01) H04W 72/04 (2009.01) H04W 4/50 (2018.01) H04W 76/28 (2018.01)**

[25] EN

[54] **ACTIVATION AND DEACTIVATION OF POWER SAVING OPERATION**

[54] **MISE SOUS TENSION ET MISE HORS TENSION POUR OPERATION D'ECONOMIE D'ENERGIE**

[72] ZHOU, HUA, US

[72] DINAN, ESMAEL, US

[72] PARK, KYUNGMIN, US

[72] CIRIK, ALI, US

[72] BABAEI, ALIREZA, US

[72] JEON, HYOUNGSUK, US

[72] XU, KAI, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2019-09-20

[41] 2020-03-21

[30] US (62/734,561) 2018-09-21

[30] US (62/790,306) 2019-01-09

[21] **3,056,244**  
[13] A1

[51] **Int.Cl. F24B 1/195 (2006.01) F23B 20/00 (2006.01) F23B 60/02 (2006.01) F23L 1/02 (2006.01) F23L 9/02 (2006.01) F23L 15/00 (2006.01) F24B 1/19 (2006.01) F24B 3/00 (2006.01)**

[25] EN

[54] **NON-GAS FIRE PIT**

[54] **FOYER SANS GAZ**

[72] HARRINGTON, STEVEN MERRILL, US

[72] SAWALSKI, MICHAEL, US

[72] BUTRYM, RYAN, US

[72] WOODRUFF, ROBERT, US

[71] LAMPLIGHT FARMS INCORPORATED, US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,753) 2018-09-21

[21] **3,056,294**  
[13] A1

[51] **Int.Cl. G06K 9/78 (2006.01) H04N 21/80 (2011.01) G06T 7/00 (2017.01) G07F 9/00 (2006.01) H04N 7/18 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COLLECTING AND USING FILTERED FACIAL BIOMETRIC DATA**

[54] **SYSTEME ET PROCEDE DE COLLECTE ET D'UTILISATION DE DONNEES BIOMETRIQUES DU VISAGE FILTRES**

[72] LYONS, MARTIN S., US

[72] ROSS, MARK S., US

[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,661) 2018-09-21

[30] US (16/576,861) 2019-09-20

[21] **3,056,304**  
[13] A1

[51] **Int.Cl. A63G 1/12 (2006.01) A63G 9/00 (2006.01) A63G 31/02 (2006.01)**

[25] EN

[54] **ROTATING PLAY DEVICE**

[54] **DISPOSITIF DE JEU ROTATIF**

[72] HUFFMAN, JONATHAN, US

[72] MILLARD, TIM, US

[72] HUTCHINSON, WESLEY, US

[71] PLAYCORE WISCONSIN, INC., US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,685) 2018-09-21

[21] **3,056,360**  
[13] A1

[51] **Int.Cl. F17C 13/02 (2006.01) B60K 15/03 (2006.01) B60K 15/077 (2006.01) F17C 13/04 (2006.01)**

[25] EN

[54] **MULTIPLE GAS TANK ASSEMBLY WITH INDIVIDUAL PRESSURE MONITORING**

[54] **ENSEMBLES-RESERVOIRS D'ESSENCE MULTIPLES AVEC SURVEILLANCE INDIVIDUELLE DE PRESSION**

[72] SHROFF, NITESH, US

[72] MARONEY, STANLEY L., US

[71] THE HEIL CO., US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,434) 2018-09-21

[21] **3,056,361**  
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01)**

[25] EN

[54] **PLAYGROUND CLIMBER UNIT COMPRISING ONE OR MORE NET-CONTAINING PORTIONS AND/OR ONE OR MORE SUSPENDED TUBE PORTIONS**

[54] **GRIMPEUR POUR TERRAIN DE JEUX COMPRENANT UNE OU PLUSIEURS PARTIES MUNIES D'UN FILET ET/OU UNE OU PLUSIEURS PARTIES DE TUBES SUSPENDUES**

[72] HUFFMAN, JONATHAN, US

[72] MILLARD, TIM, US

[72] HUTCHINSON, WESLEY, US

[71] PLAYCORE WISCONSIN, INC., US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,618) 2018-09-21

[21] **3,056,378**  
[13] A1

[51] **Int.Cl. E04H 15/00 (2006.01) E04F 10/02 (2006.01) E04H 15/28 (2006.01) E04H 15/64 (2006.01)**

[25] EN

[54] **SHADE-PROVIDING STRUCTURE**

[54] **STRUCTURE FOURNISSANT DE L'OMBRE**

[72] HUFFMAN, JONATHAN, US

[72] MILLARD, TIM, US

[72] HUTCHINSON, WESLEY, US

[71] PLAYCORE WISCONSIN, INC., US

[22] 2019-09-23

[41] 2020-03-21

[30] US (62/734,705) 2018-09-21

**Demandes canadiennes mises à la disponibilité du public  
15 mars 2020 au 21 mars 2020**

[21] **3,056,408**  
[13] A1

[51] **Int.Cl. H02M 3/24 (2006.01) H02M 1/08 (2006.01) H02M 3/335 (2006.01)**  
[25] EN  
[54] **ZERO INDUCTOR VOLTAGE CONVERTER TOPOLOGY WITH IMPROVED SWITCH UTILIZATION**  
[54] **TOPOLOGIE DE CONVERTISSEUR DE TENSION A ZERO DANS UN INDUCTEUR ET UTILISATION DE COMMUTATEURS AMELIOREE**  
[72] WEBB, SAMUEL DYLAN, CA  
[72] LIU, YAN-FEI, CA  
[71] WEBB, SAMUEL DYLAN, CA  
[71] LIU, YAN-FEI, CA  
[22] 2019-09-20  
[41] 2020-03-20  
[30] US (62/733,942) 2018-09-20

[21] **3,056,458**  
[13] A1

[51] **Int.Cl. A63B 59/70 (2015.01) B29C 70/22 (2006.01)**  
[25] EN  
[54] **HOCKEY STICK FORMED FROM SHEET MOLDING COMPOUND**  
[54] **BATON DE HOCKEY FORME A PARTIR D'UN MELANGE A MOULER EN FEUILLE**  
[72] ROUZIER, EDOUARD, CA  
[72] CHAMBERT, MARTIN, CA  
[72] DESCHENES, CANDIDE, CA  
[71] BAUER HOCKEY LTD., CA  
[22] 2019-09-20  
[41] 2020-03-21  
[30] US (62/734,510) 2018-09-21

[21] **3,056,460**  
[13] A1

[51] **Int.Cl. A63B 59/70 (2015.01) A63B 60/08 (2015.01) B29C 70/70 (2006.01) B32B 1/00 (2006.01) B32B 5/12 (2006.01) C01B 32/158 (2017.01)**  
[25] EN  
[54] **HOCKEY STICK WITH NANOFIBER REINFORCEMENT**  
[54] **BATON DE HOCKEY A BASE DE MATERIAU DE RENFORCEMENT NANOFIBREUX**  
[72] CHAMBERT, MARTIN, CA  
[72] ROUZIER, EDOUARD, CA  
[72] CARON KARDOS, JEAN-FREDERIK, CA  
[72] DUCHARME, MATHIEU, CA  
[71] BAUER HOCKEY LTD., CA  
[22] 2019-09-20  
[41] 2020-03-21  
[30] US (62/734,532) 2018-09-21

[21] **3,056,578**  
[13] A1

[51] **Int.Cl. A63G 21/18 (2006.01)**  
[25] EN  
[54] **SAUCER AMUSEMENT ATTRACTION AND METHOD FOR MAKING THE SAME**  
[54] **PIECE DE TYPE SOUCOUBE POUR ATTRACTION FORAINE ET SA METHODE DE FABRICATION**  
[72] CHUTTER, PAUL, CA  
[71] WHITEWATER WEST INDUSTRIES LTD., CA  
[22] 2019-09-23  
[41] 2020-03-21  
[30] US (62/735,004) 2018-09-21

[21] **3,059,314**  
[13] A1

[51] **Int.Cl. G06N 3/08 (2006.01) G06N 3/04 (2006.01)**  
[25] EN  
[54] **MACHINE-LEARNING TECHNIQUES FOR MONOTONIC NEURAL NETWORKS**  
[54] **TECHNIQUES D'APPRENTISSAGE AUTOMATIQUE POUR RESEAUX NEURONAUX MONOTONES**  
[72] TURNER, MATTHEW, US  
[72] JORDAN, LEWIS, US  
[72] JOSHUA, ALLAN, US  
[71] EQUIFAX INC., US  
[22] 2019-10-18  
[41] 2020-03-20  
[30] US (16/169,963) 2018-10-24  
[30] US (16/173,427) 2018-10-29

[21] **3,062,093**  
[13] A1

[51] **Int.Cl. G16H 40/67 (2018.01) G16H 10/60 (2018.01) G16H 40/20 (2018.01) A61B 3/00 (2006.01)**  
[25] EN  
[54] **REMOTE COMPREHENSIVE EYE EXAMINATION SYSTEM**  
[54] **SYSTEME D'EXAMEN DE LA VUE COMPLET A DISTANCE**  
[72] FRIED, HOWARD S., US  
[72] FRIED, BURTON T., US  
[72] SCHAEFFER, KURT, US  
[72] VAN CLEAVE, WILLIAM K., US  
[71] DIGITALOPTOMETRICS LLC, US  
[22] 2019-11-20  
[41] 2020-03-21  
[30] US (16/138,081) 2018-09-21

[21] **3,064,458**  
[13] A1

[51] **Int.Cl. F16L 59/14 (2006.01) F16L 58/02 (2006.01)**  
[25] EN  
[54] **A PIPE INSULATION SYSTEM**  
[54] **SYSTEME D'ISOLATION DE CONDUITE**  
[72] BRIGHAM, GRAHAM, CA  
[71] BRIGHAM, GRAHAM, CA  
[22] 2019-12-10  
[41] 2020-03-19

[21] **3,065,462**  
[13] A1

[51] **Int.Cl. B29C 33/38 (2006.01) B29C 64/00 (2017.01)**  
[25] EN  
[54] **MOLD MADE FROM AN ADDITIVE MANUFACTURING TECHNOLOGY**  
[54] **MOULE FABRIQUE AU MOYEN D'UNE TECHNOLOGIE DE FABRICATION ADDITIVE**  
[72] POIRIER, DANIEL, CA  
[72] MICHAUD, HUBERT, CA  
[71] BOMBARDIER TRANSPORTATION GMBH, DE  
[71] BELL HELICOPTER, CA  
[22] 2019-12-18  
[41] 2020-03-18

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[21] **3,065,608**

[13] A1

[51] **Int.Cl. B62D 33/00 (2006.01) B60P  
7/08 (2006.01) B62D 63/08 (2006.01)  
B65D 90/02 (2019.01)**

[25] EN

[54] **TRAILER WALL INCLUDING  
LOGISTICS POST**

[54] **PAROI DE REMORQUE  
COMPRENANT UN MARQUEUR  
LOGISTIQUE**

[72] COX, DOUGLAS P., US

[72] EBNOTHER, FABIEN, US

[71] CELLTECH METALS INC., US

[22] 2019-12-17

[41] 2020-03-20

[30] US (16/229,289) 2018-12-21

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[21] **3,065,728**

[13] A1

[51] **Int.Cl. F25B 45/00 (2006.01)**

[25] EN

[54] **REFRIGERATION SYSTEM WITH  
TRANSFER SYSTEM**

[54] **SYSTEME DE REFRIGERATION  
ET SYSTEME DE TRANSFERT**

[72] FAUSER, DAVID, CA

[72] BELL, JOSH, CA

[72] BORROWMAN, WAYNE, CA

[71] TOROMONT INDUSTRIES LTD., CA

[22] 2019-12-19

[41] 2020-03-20

[30] US (62/781,966) 2018-12-19

[30] US (62/860,555) 2019-06-12

# PCT Applications Entering the National Phase

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[51] <b>Int.Cl. H01R 43/02 (2006.01) H01R 4/02 (2006.01) H01R 4/18 (2006.01) H01R 4/62 (2006.01) H01R 43/04 (2006.01)</b> [25] EN [54] <b>CRIMPED AND WELDED CONNECTION</b> [54] <b>RACCORD PINCE ET SOUDE</b> [72] BALDAUF, WALTER, DE [72] HUNDSIEDER, MARTIN, DE [71] ROSENBERGER HOCHFREQUENZTECHNIK GMBH & CO. KG, DE [85] 2016-09-28 [86] 2015-04-16 (PCT/EP2015/000800) [87] (WO2015/165572) [30] DE (10 2014 006 244.9) 2014-04-28	[51] <b>Int.Cl. G01N 21/27 (2006.01) A47K 13/24 (2006.01) E03D 9/00 (2006.01)</b> [25] EN [54] <b>STOOL MONITORING AND HEALTH GUIDANCE APPARATUS</b> [54] <b>SURVEILLANCE DES SELLES ET MECANISME DE CONSEILS DE SANTE</b> [72] KIM, HONG MIN, CA [71] KIM, HONG MIN, CA [85] 2019-04-24 [86] 2019-02-01 (PCT/CA2019/000013) [87] (3040790) [30] US (16/350,039) 2018-09-18	[51] <b>Int.Cl. G01N 23/00 (2006.01)</b> [25] EN [54] <b>X-RAY DETECTION SYSTEM AND METHOD</b> [54] <b>SYSTEME ET METHODE DE DETECTION AUX RAYONS X</b> [72] ZHANG, LI, CN [72] CHEN, ZHIQIANG, CN [72] SUN, YUNDA, CN [72] JIN, XIN, CN [72] CHANG, MING, CN [72] XU, XIAOFEI, CN [71] NUCTECH COMPANY LIMITED, CN [85] 2019-09-13 [86] 2019-05-16 (PCT/CN2019/087221) [87] (3055351) [30] CN (201811086635.2) 2018-09-18
<b>[21] 3,028,274</b> [13] A1	<b>[21] 3,049,293</b> [13] A1	<b>[21] 3,059,685</b> [13] A1
[51] <b>Int.Cl. G08G 1/16 (2006.01) G06Q 10/04 (2012.01) G06Q 50/30 (2012.01) G06F 16/906 (2019.01)</b> [25] EN [54] <b>ARTIFICIAL INTELLIGENT SYSTEMS AND METHODS FOR PREDICTING TRAFFIC ACCIDENT LOCATIONS</b> [54] <b>SYSTEMES D'INTELLIGENCE ARTIFICIELLE ET METHODES DE PREDICTION DE LIEUX D'ACCIDENT DE CIRCULATION</b> [72] YANG, RUIFEI, CN [71] BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD., CN [85] 2018-12-21 [86] 2018-09-18 (PCT/CN2018/106146) [87] (3028274)	[51] <b>Int.Cl. E06B 7/28 (2006.01) F16B 1/00 (2006.01)</b> [25] EN [54] <b>DOOR HANGER BRACKET</b> [54] <b>SUPPORT DE SUPPORT DE PORTE</b> [72] GILL, RYAN L., US [72] GILL, MICHAEL J., US [72] GILL, DENNIS G., US [71] EXPRESS PRODUCTS, INC., US [85] 2017-07-12 [86] 2019-02-13 (PCT/US2019/017758) [87] (3049293) [30] US (16/138,502) 2018-09-21	[25] EN [54] <b>INFORMATION PROCESSING METHOD, PROGRAM, AND INFORMATION PROCESSING DEVICE</b> [54] <b>PROGRAMME ET PROCEDE DE TRAITEMENT DE L'INFORMATION ET APPAREIL DE TRAITEMENT DE L'INFORMATION</b> [72] MIZOGUCHI, YUJI, JP [72] KUBOTA, TAKUMA ALEXANDER, JP [72] INUKAI, TOSHITAKA, JP [71] FINC TECHNOLOGIES INC., JP [85] 2019-10-22 [86] 2019-07-22 (PCT/JP2019/028620) [87] (3059685) [30] JP (2018-236233) 2018-12-18 [30] JP (2019-078582) 2019-04-17 [30] JP (2019-078585) 2019-04-17 [30] JP (2019-078587) 2019-04-17

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[51] <b>Int.Cl. C08F 2/06 (2006.01)</b> [25] EN [54] <b>METHOD OF POLYMERIZING AN IONIC CROSSLINKER</b> [54] <b>PROCEDE DE POLYMERISATION D'UN AGENT DE RETICULATION IONIQUE</b> [72] ZHAO, YONGHONG, SG [72] MACDONALD, RUSSELL JAMES, US [72] BARBER, JOHN H., CA [71] GENERAL ELECTRIC COMPANY, US [85] 2019-11-13 [86] 2017-05-15 (PCT/US2017/032628) [87] (WO2018/212748)	[51] <b>Int.Cl. E21C 41/18 (2006.01) E21C 47/02 (2006.01) E21D 23/12 (2006.01)</b> [25] EN [54] <b>MINE EXPLOITATION, SEPARATION, FILLING AND TREATMENT EXPLOITATION METHOD</b> [54] <b>EXPLOITATION MINIERE, SEPARATION, REMBLAI, TRAITEMENT ET METHODE D'EXPLOITATION</b> [72] ZHOU, NAN, CN [72] LI, MENG, CN [72] ZHANG, JIXIONG, CN [72] ZHANG, QIANG, CN [72] ZHANG, WEIQING, CN [72] JU, FENG, CN [71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN [71] XUZHOU ZHONGKUANG BACKFILLING & MINING TECHNOLOGY CO., LTD., CN [85] 2020-01-21 [86] 2019-04-01 (PCT/CN2019/080752) [87] (3069068) [30] CN (201811159127.2) 2018-09-30	[25] EN [54] <b>MECHANICAL BYPASS SWITCH ASSEMBLY FOR A BACKPLANE</b> [54] [72] FRYE, SCOTT MICHAEL, US [72] BRINK, CHRISTOPHER MICHAEL, US [72] GILLESPIE, BRIAN JOHN, US [71] PHOENIX CONTACT DEVELOPMENT AND MANUFACTURING, INC., US [85] 2020-03-09 [86] 2018-09-17 (PCT/US2018/051286) [87] (3074972)
[21] <b>3,065,824</b> [13] A1	[21] <b>3,070,810</b> [13] A1	[21] <b>3,074,988</b> [13] A1
[25] EN [54] <b>SYSTEMS AND METHODS FOR INTERCEPTING AND ENHANCING SAAS APPLICATION CALLS VIA EMBEDDED BROWSER</b> [54] <b>SYSTEMES ET PROCEDES D'INTERCEPTION ET D'AMELIORATION DES APPELS DE L'APPLICATION SAAS PAR L'INTERMEDIAIRE DU NAVIGATEUR INTEGRE</b> [72] BORKAR, VIPIN, US [72] SAMPATH, SANTOSH, US [72] SHARMA, DEEPAK, US [72] SANKARASUBRAMANIAN, ARVIND, US [71] CITRIX SYSTEMS, INC., US [85] 2019-12-20 [86] 2019-09-19 (PCT/US2019/051893) [87] (3065824) [30] US (16/138,076) 2018-09-21	[25] EN [54] <b>APPARATUS, SYSTEM AND PROCESS FOR REGULATING A CONTROL MECHANISM OF A WELL</b> [54] <b>APPAREIL, SYSTEME ET PROCEDE DE REGULATION D'UN MECANISME DE CONTROLE DEPUITS</b> [72] MARTIN, BRADLEY ROBERT, CA [72] MOHAMMAD, MURAD, CA [72] KRYGER, SHELDON, CA [72] DUNCAN, ROBERT, CA [71] INTELLIGENT WELLHEAD SYSTEMS INC., CA [85] 2020-01-31 [86] 2019-06-27 (PCT/CA2019/050890) [87] (3070810) [30] US (62/733,355) 2018-09-19	[25] EN [51] <b>Int.Cl. B29C 63/00 (2006.01) C09J 7/30 (2018.01) B32B 3/26 (2006.01) B32B 7/12 (2006.01) B32B 9/00 (2006.01) B32B 37/12 (2006.01) B32B 38/04 (2006.01)</b> [25] EN [54] <b>STRESS TEARABLE TAPE BANDE DECHIRABLE PAR CONTRAINTE</b> [72] LIU, AN-HSIA, US [72] LIU, VICTOR DAH MING, US [72] LIU, ALEXANDER DAH CHING, US [71] LIU, AN-HSIA, US [71] LIU, VICTOR DAH MING, US [71] LIU, ALEXANDER DAH CHING, US [85] 2020-03-04 [86] 2019-05-01 (PCT/US2019/030278) [87] (WO2019/217179) [30] US (15/975,755) 2018-05-09
		[21] <b>3,074,995</b> [13] A1
		[51] <b>Int.Cl. A61B 7/04 (2006.01) G10L 19/26 (2013.01) A61B 7/02 (2006.01) H04R 3/00 (2006.01)</b> [25] EN [54] <b>AUSCULTATION OF A BODY AUSCULTATION D'UN CORPS</b> [72] COPT, RYAN J., US [72] BUTERA III, JOSEPH G., US [72] SUMMERS III, ROBERT J., US [71] BONGIOVI ACOUSTICS LLC, US [85] 2020-03-05 [86] 2018-09-06 (PCT/US2018/049732) [87] (WO2019/051075) [30] US (62/554,668) 2017-09-06 [30] US (16/116,334) 2018-08-29

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[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **INHIBITORS OF KRAS G12C AND METHODS OF USING THE SAME**

[54] **INHIBITEURS DE KRAS G12C ET LEURS PROCEDES D'UTILISATION**

[72] LANMAN, BRIAN ALAN, US

[72] BOOKER, SHON, US

[72] GOODMAN, CLIFFORD, US

[72] REED, ANTHONY B., US

[72] LOW, JONATHAN D., US

[72] WANG, HUI-LING, US

[72] CHEN, NING, US

[72] MINATTI, ANA ELENA, US

[72] WURZ, RYAN, US

[72] CEE, VICTOR J., US

[71] AMGEN INC., US

[85] 2020-03-05

[86] 2018-09-07 (PCT/US2018/050044)

[87] (WO2019/051291)

[30] US (62/556,223) 2017-09-08

[21] **3,075,051**  
[13] A1

[51] **Int.Cl. B29C 65/08 (2006.01) D03D 27/00 (2006.01)**

[25] EN

[54] **IMPROVED ARTICLE OF WEATHER STRIPPING**

[54] **ARTICLE DE COUPE-BISE AMELIORE**

[72] LOUGHNEY, DAVID M., US

[72] CLEMONS, TODD M., US

[71] ULTRAFAB, INC., US

[85] 2020-03-05

[86] 2018-09-07 (PCT/US2018/050115)

[87] (WO2019/051336)

[30] US (62/556,345) 2017-09-09

[21] **3,075,054**  
[13] A1

[51] **Int.Cl. E04F 15/024 (2006.01) E04F 15/02 (2006.01) B62D 25/20 (2006.01) E04B 5/04 (2006.01)**

[25] EN

[54] **DECK BOARD**

[54] **PLANCHE**

[72] CHAPMAN, WESLEY RAYMOND, ZA

[71] CHAPMAN, WESLEY RAYMOND, ZA

[85] 2020-03-05

[86] 2018-09-06 (PCT/IB2018/056790)

[87] (WO2019/049054)

[30] ZA (2017/01869) 2017-09-06

[21] **3,075,056**  
[13] A1

[51] **Int.Cl. C09D 5/03 (2006.01) A01N 25/08 (2006.01) A01N 25/26 (2006.01)**

[25] EN

[54] **ANTIBACTERIAL POWDER COATING**

[54] **REVETEMENT EN POUDRE ANTIBACTERIEN**

[72] RAHMANI, MAHDI, IR

[71] RAHMANI, MAHDI, IR

[85] 2020-03-05

[86] 2017-10-23 (PCT/IB2017/056564)

[87] (WO2019/081959)

[21] **3,075,057**  
[13] A1

[51] **Int.Cl. F23G 7/08 (2006.01) F23D 14/46 (2006.01) F23J 15/00 (2006.01)**

[25] EN

[54] **LOW STEAM CONSUMPTION HIGH SMOKELESS CAPACITY WASTE GAS FLARE**

[54] **TORCHE A GAZ RESIDUAIRE A HAUTE CAPACITE DE FONCTIONNEMENT SANS FUMEE ET A FAIBLE CONSOMMATION DE VAPEUR**

[72] MARTIN, MATTHEW A, US

[72] MARTIN, RICHARD R, US

[72] KRAUS, KURT E, US

[72] JENNINGS, JAY D, US

[71] UOP LLC, US

[85] 2020-03-05

[86] 2018-09-10 (PCT/US2018/050171)

[87] (WO2019/055335)

[21] **3,075,060**  
[13] A1

[51] **Int.Cl. A01D 46/30 (2006.01) A01D 45/00 (2018.01) A01D 46/00 (2006.01) A01G 3/00 (2006.01) A01G 3/08 (2006.01) G05B 19/042 (2006.01)**

[25] EN

[54] **AUTOMATED PLANT TRIMMER**

[54] **TAILLEUR DE PLANTES AUTOMATISE**

[72] GOWA, JON THOMAS, US

[71] BLOOM AUTOMATION, INC., US

[85] 2020-03-05

[86] 2018-09-10 (PCT/US2018/050199)

[87] (WO2019/051372)

[30] US (15/700,755) 2017-09-11

[21] **3,075,062**  
[13] A1

[51] **Int.Cl. C07D 417/04 (2006.01) A61K 31/427 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 277/28 (2006.01) C07D 277/42 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **RAD51 INHIBITORS**

[54] **INHIBITEURS DE RAD51**

[72] CASTRO, ALFREDO C., US

[72] MCCOMAS, CASEY CAMERON, US

[72] VACCA, JOSEPH, US

[72] MACLAY, TYLER, US

[71] CYTEIR THERAPEUTICS, INC., US

[85] 2020-03-05

[86] 2018-09-11 (PCT/US2018/050391)

[87] (WO2019/051465)

[30] US (62/556,763) 2017-09-11

[30] US (62/711,959) 2018-07-30

[21] **3,075,078**  
[13] A1

[51] **Int.Cl. G01R 33/343 (2006.01) G01N 24/10 (2006.01)**

[25] EN

[54] **LOOP-GAP RESONATORS FOR SPIN RESONANCE SPECTROSCOPY**

[54] **RESONATEURS A INTERVALLE DE BOUCLE DE SPECTROSCOPIE PAR RESONANCE DE SPIN**

[72] FRIEDMAN, JONATHAN R., US

[71] AMHERST COLLEGE, US

[85] 2020-03-05

[86] 2018-09-06 (PCT/US2018/049649)

[87] (WO2019/051016)

[30] US (62/555,127) 2017-09-07

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[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 12/26 (2006.01) H04L 29/02 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND MEDIA FOR MODIFYING FIREWALLS BASED ON DYNAMIC IP ADDRESSES**

[54] **PROCEDES, SYSTEMES ET SUPPORTS PERMETTANT DE MODIFIER DES PARE-FEU EN SE BASANT SUR DES ADRESSES IP DYNAMIQUES**

[72] PHAM, THIEN VAN, US  
[71] SYNERGEX GROUP, US  
[71] PHAM HOLDINGS INC., US  
[71] TAYLOR, WAYNE, US  
[85] 2020-03-05  
[86] 2018-09-11 (PCT/US2018/050411)  
[87] (WO2019/055391)  
[30] US (15/702,355) 2017-09-12

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[21] **3,075,081**  
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) G06F 15/16 (2006.01) H04L 29/08 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND MEDIA FOR ADDING IP ADDRESSES TO FIREWALLS**

[54] **PROCEDES, SYSTEMES, ET SUPPORTS, PERMETTANT D'AJOUTER DES ADRESSES IP A DES PARE-FEU**

[72] PHAM, THIEN VAN, US  
[71] SYNERGEX GROUP, US  
[71] TAYLOR, WAYNE, US  
[71] PHAM HOLDINGS INC., US  
[85] 2020-03-05  
[86] 2018-09-11 (PCT/US2018/050450)  
[87] (WO2019/055407)  
[30] US (15/702,338) 2017-09-12

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[13] A1

[51] **Int.Cl. G06Q 30/08 (2012.01) G06Q 40/04 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR GLOBAL TRADING EXCHANGE**

[54] **SYSTEME ET PROCEDE POUR UNE BOURSE D'ECHANGES COMMERCIAUX MONDIAUX**

[72] GIMPLE, MARK, US  
[71] GIMPLE, MARK, US  
[85] 2020-03-05  
[86] 2018-09-12 (PCT/US2018/050575)  
[87] (WO2019/055459)  
[30] US (62/557,366) 2017-09-12  
[30] US (16/127,646) 2018-09-11

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[13] A1

[51] **Int.Cl. C07C 67/39 (2006.01) B01J 23/44 (2006.01) B01J 23/52 (2006.01) C07C 69/54 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCTION OF METHYL METHACRYLATE BY OXIDATIVE ESTERIFICATION USING A HETEROGENEOUS CATALYST**

[54] **PROCEDE DE PRODUCTION DE METHACRYLATE DE METHYLE PAR ESTERIFICATION OXYDANTE A L'AIDE D'UN CATALYSEUR HETEROGENE**

[72] HERRON, JEFFREY, US  
[72] ARRIOLA, DANIEL J., US  
[72] BLAYLOCK, D. WAYNE, US  
[72] LEE, WEN-SHENG, US  
[72] SUSSMAN, VICTOR J., US  
[72] HICKMAN, DANIEL A., US  
[72] LIMBACH, KIRK W., US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[71] DOW HYDROCARBONS AND RESOURCES LLC, US  
[71] ROHM AND HAAS COMPANY, US  
[85] 2020-03-05  
[86] 2018-09-12 (PCT/US2018/050598)  
[87] (WO2019/060192)  
[30] US (62/560,319) 2017-09-19

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[21] **3,075,084**  
[13] A1

[51] **Int.Cl. B23B 51/00 (2006.01) B23B 51/08 (2006.01)**

[25] EN

[54] **COMBINATION DRILL, MILL, AND BORING TOOL**

[54] **OUTIL COMBINE DE FORAGE, FRAISAGE ET ALESAGE**

[72] HOLLIDAY, IAN EDWARD, US  
[72] DOBOSZ, EMIL, US  
[72] WARD, BARRY LESLIE, US  
[72] THEAKER, ANTONY JAMES, US  
[71] KYOCERA SGS PRECISION TOOLS, INC., US  
[85] 2020-03-05  
[86] 2018-09-12 (PCT/US2018/050685)  
[87] (WO2019/055524)  
[30] US (62/558,003) 2017-09-13

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[13] A1

[51] **Int.Cl. B65D 5/42 (2006.01) B65D 5/44 (2006.01) B65D 5/63 (2006.01) B65D 25/00 (2006.01) B65D 77/04 (2006.01) B65D 77/08 (2006.01) B65D 79/00 (2006.01)**

[25] EN

[54] **SECONDARY INSERTION FEATURE FOR ASSEMBLED PACKAGE**

[54] **ELEMENT D'INSERTION SECONDAIRE POUR EMBALLAGE ASSEMBLE**

[72] ELMER, MATTHEW, US  
[72] ESTABROOK, RICHARD M., US  
[71] BEDFORD SYSTEMS LLC, US  
[85] 2020-03-05  
[86] 2018-09-12 (PCT/US2018/050720)  
[87] (WO2019/055543)  
[30] US (62/557,348) 2017-09-12

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[13] A1

[51] **Int.Cl. A61K 31/44 (2006.01) A61P 7/00 (2006.01)**  
[25] EN  
[54] **METHODS OF REVERSING NORMAL AGING PROCESS AND EXTENDING LIFESPAN**  
[54] **PROCEDES DE TRAITEMENT DE L'APOPTOSE ET DE MODIFICATION DE LA MORT CELLULAIRE PROGRAMMEE**  
[72] WILLIAMS, JONNIE R., US  
[71] MYMD PHARMACEUTICALS, INC., US  
[85] 2020-03-05  
[86] 2018-09-13 (PCT/US2018/050856)  
[87] (WO2019/067224)  
[30] US (62/565,248) 2017-09-29

[21] **3,075,090**  
[13] A1

[51] **Int.Cl. C11D 3/40 (2006.01) C11D 3/42 (2006.01) C11D 11/00 (2006.01)**  
[25] EN  
[54] **LEUCO COLORANTS AS BLUING AGENTS IN LAUNDRY CARE COMPOSITIONS**  
[54] **LEUCO-COLORANTS EN TANT QU'AGENTS D'AZURAGE DANS DES COMPOSITIONS D'ENTRETIEN DU LINGE**  
[72] MIRACLE, GREGORY SCOT, US  
[72] DITULLIO, DANIEL DALE JR., US  
[72] FREUND, WESLEY A., US  
[72] QIN, HAIHU, US  
[72] DEY, SANJEEV KUMAR, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2020-03-05  
[86] 2018-10-11 (PCT/US2018/055324)  
[87] (WO2019/075148)  
[30] US (62/571,291) 2017-10-12  
[30] US (62/596,133) 2017-12-08

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[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/26 (2006.01) A61K 47/08 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/22 (2006.01)**  
[25] EN  
[54] **TRANSDERMAL FORMULATIONS PREPARATIONS TRANSDERMIQUES**  
[72] HOFFMAN, STEVEN, US  
[71] TYME, INC., US  
[85] 2020-03-05  
[86] 2018-09-14 (PCT/US2018/051010)  
[87] (WO2019/055747)  
[30] US (62/559,156) 2017-09-15

[21] **3,075,092**  
[13] A1

[51] **Int.Cl. B41J 3/407 (2006.01) B41J 2/005 (2006.01)**  
[25] EN  
[54] **CONTAINER DECORATION APPARATUS AND METHOD**  
[54] **PROCEDE ET APPAREIL DE DECORATION DE RECIPIENT**  
[72] STOWITTS, ADAM P.S., US  
[72] ELLEFSON, DEAN C., US  
[71] BALL CORPORATION, US  
[85] 2020-03-05  
[86] 2018-09-19 (PCT/US2018/051717)  
[87] (WO2019/060394)  
[30] US (62/560,354) 2017-09-19  
[30] US (62/579,236) 2017-10-31

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[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/20 (2006.01) C11D 3/40 (2006.01) C11D 3/42 (2006.01) C11D 7/26 (2006.01) C11D 11/00 (2006.01)**  
[25] EN  
[54] **LAUNDRY CARE COMPOSITIONS COMPRISING LEUCO COMPOUNDS**  
[54] **COMPOSITIONS DE SOIN DU LINGE COMPRENANT DES COMPOSES LEUCO**  
[72] MIRACLE, GREGORY SCOT, US  
[72] DEY, SANJEEV KUMAR, US  
[72] QIN, HAIHU, US  
[72] VALENTI, DOMINICK JOSEPH, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2020-03-05  
[86] 2018-10-11 (PCT/US2018/055325)  
[87] (WO2019/075149)  
[30] US (62/571,292) 2017-10-12  
[30] US (62/596,134) 2017-12-08

[21] **3,075,094**  
[13] A1

[51] **Int.Cl. C11D 3/40 (2006.01) C11D 3/20 (2006.01) C11D 3/30 (2006.01) C11D 3/42 (2006.01) C11D 7/26 (2006.01) C11D 7/32 (2006.01)**  
[25] EN  
[54] **LEUCO COLORANTS AS BLUING AGENTS IN LAUNDRY CARE COMPOSITIONS**  
[54] **LEUCO-COLORANTS EN TANT QU'AGENTS D'AZURAGE DANS DES COMPOSITIONS D'ENTRETIEN DU LINGE**  
[72] MIRACLE, GREGORY SCOT, US  
[72] LOUGHNANE, BRIAN JOSEPH, US  
[72] COST, SAMANTHA JO, US  
[72] FREUND, WESLEY A., US  
[72] QIN, HAIHU, US  
[72] DEY, SANJEEV KUMAR, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 2020-03-05  
[86] 2018-10-11 (PCT/US2018/055326)  
[87] (WO2019/075150)  
[30] US (62/571,294) 2017-10-12  
[30] US (62/596,135) 2017-12-08

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[21] **3,075,095**  
[13] A1

[51] **Int.Cl. A61K 31/58 (2006.01)**  
[25] EN  
[54] **ABIRATERONE-CYCLIC OLIGOMER PHARMACEUTICAL FORMULATIONS AND METHODS OF FORMATION AND ADMINISTRATION THEREOF**

[54] **FORMULATIONS PHARMACEUTIQUES D'OLIGOMERE CYCLIQUE ET D'ABIRATERONE ET PROCEDES DE FORMATION ET D'ADMINISTRATION DE CELLES-CI**

[72] MILLER, DAVE, US  
[72] GALA, URVI, US  
[71] DISPERSOL TECHNOLOGIES, LLC, US

[85] 2020-03-05  
[86] 2018-09-20 (PCT/US2018/051914)  
[87] (WO2019/060525)  
[30] US (62/562,081) 2017-09-22

[21] **3,075,096**  
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01) G06F 3/01 (2006.01)**  
[25] EN  
[54] **AUGMENTED REALITY DISPLAY WITH WAVEGUIDE CONFIGURED TO CAPTURE IMAGES OF EYE AND/OR ENVIRONMENT**

[54] **AFFICHAGE A REALITE AUGMENTEE COMPORTANT UN GUIDE D'ONDES CONFIGURE POUR CAPTURER DES IMAGES DE L'ENVIRONNEMENT**

[72] SINAY, ASIF, US  
[72] FREEDMAN, BARAK, US  
[72] KLUG, MICHAEL ANTHONY, US  
[72] OH, CHULWOO, US  
[72] MEITAV, NIZAN, US  
[71] MAGIC LEAP, INC., US

[85] 2020-03-05  
[86] 2018-09-21 (PCT/US2018/052241)  
[87] (WO2019/060741)  
[30] US (62/561,645) 2017-09-21

[21] **3,075,097**  
[13] A1

[51] **Int.Cl. A61K 39/02 (2006.01) C07K 16/12 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS AGAINST P. AERUGINOSA INFECTIONS**

[54] **COMPOSITIONS ET METHODES CONTRE DES INFECTIONS PAR P. AERUGINOSA**

[72] TRUONG, VU, L., US  
[71] ARIDIS PHARMACEUTICALS, INC., US

[85] 2020-03-05  
[86] 2018-10-01 (PCT/US2018/053763)  
[87] (WO2019/070586)  
[30] US (62/566,938) 2017-10-02

[21] **3,075,098**  
[13] A1

[51] **Int.Cl. B29B 11/14 (2006.01) B29C 49/06 (2006.01) B65D 1/02 (2006.01)**  
[25] EN  
[54] **BLOW MOLDED ARTICLE WITH VISUAL EFFECTS**

[54] **ARTICLE AVEC EFFETS VISUELS**

[72] NEUFARTH, BRADLEY SCOTT, US  
[72] HORTON, ANDREW JOSEPH, US  
[72] MAMAX, MARC ANDREW, US  
[72] AGERTON, MARK LEWIS, US  
[72] SAWIN, PHILIP ANDREW, US  
[72] CONSTANTINIDES, IOANNIS CONSTANTINE, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2020-03-05  
[86] 2018-10-12 (PCT/US2018/055607)  
[87] (WO2019/075324)  
[30] EP (17196087.5) 2017-10-12

[21] **3,075,099**  
[13] A1

[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/48 (2006.01) A61L 27/56 (2006.01)**  
[25] EN  
[54] **ADIPOSE TISSUE PRODUCTS AND METHODS OF PRODUCTION**

[54] **PRODUITS DE TISSU ADIPEUX ET PROCEDES DE PRODUCTION**

[72] XU, HUI, US  
[72] FANG, CARRIE, US  
[72] SHAH, MRINAL, US  
[72] JESSOP, ISRAEL JAMES, US  
[71] LIFECELL CORPORATION, US

[85] 2020-03-05  
[86] 2018-10-18 (PCT/US2018/056473)  
[87] (WO2019/079570)  
[30] US (62/573,892) 2017-10-18

[21] **3,075,101**  
[13] A1

[51] **Int.Cl. A22C 13/00 (2006.01)**  
[25] EN  
[54] **METHODS OF FLAVORING COLLAGEN CASINGS**

[54] **PROCEDES D'AROMATISATION D'ENVELOPPES DE COLLAGENE**

[72] GOLDFARB, EUGENE, US  
[72] MATHEWS, DAVID, US  
[72] HATCH, STEPHEN, US  
[72] KISHIMOTO, MASANORI, JP  
[71] VISCOFAN COLLAGEN USA INC., US

[85] 2020-03-05  
[86] 2018-10-04 (PCT/US2018/054282)  
[87] (WO2019/079038)  
[30] US (62/572,601) 2017-10-16  
[30] US (62/627,970) 2018-02-08

[21] **3,075,103**  
[13] A1

[51] **Int.Cl. C11D 3/40 (2006.01) C11D 3/42 (2006.01) C11D 11/00 (2006.01)**  
[25] EN  
[54] **METHODS OF USING LEUCO COLORANTS AS BLUING AGENTS IN LAUNDRY CARE COMPOSITIONS**

[54] **PROCEDES D'UTILISATION DE LEUCO-COLORANTS COMME AGENTS D'AZURAGE DANS DES COMPOSITIONS D'ENTRETIEN DU LINGE**

[72] MIRACLE, GREGORY SCOT, US  
[72] DITULLIO, DANIEL DALE JR., US  
[72] FREUND, WESLEY A., US  
[72] BALASCA, DIANA C., US  
[72] DEY, SANJEEV KUMAR, US  
[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2020-03-05  
[86] 2018-10-11 (PCT/US2018/055323)  
[87] (WO2019/075147)  
[30] US (62/571,290) 2017-10-12  
[30] US (62/596,132) 2017-12-08

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[21] **3,075,106**  
[13] A1

[51] **Int.Cl. A61L 27/48 (2006.01)**  
[25] EN  
[54] **FLOWABLE ACELLULAR TISSUE MATRIX PRODUCTS AND METHODS OF PRODUCTION**  
[54] **PRODUITS DE MATRICE TISSULAIRE ACELLULAIRE FLUIDES ET PROCEDES DE PRODUCTION**  
[72] XU, HUI, US  
[72] LI, HUI, US  
[72] POMERLEAU, MING F., US  
[72] MESSINA, DARIN, US  
[71] LIFECELL CORPORATION, US  
[85] 2020-03-05  
[86] 2018-10-19 (PCT/US2018/056630)  
[87] (WO2019/079672)  
[30] US (62/574,678) 2017-10-19

[21] **3,075,109**  
[13] A1

[51] **Int.Cl. H04W 48/12 (2009.01)**  
[25] EN  
[54] **TECHNIQUES FOR RMSI PDCCH TRANSMISSION AND MONITORING**  
[54] **TECHNIQUES DE TRANSMISSION ET DE SURVEILLANCE DE PDCCH RMSI**  
[72] LY, HUNG DINH, US  
[72] LUO, TAO, US  
[72] LEE, HEECHOON, US  
[72] ISLAM, MUHAMMAD NAZMUL, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-03-05  
[86] 2018-10-24 (PCT/US2018/057280)  
[87] (WO2019/084116)  
[30] US (62/577,088) 2017-10-25  
[30] US (16/168,085) 2018-10-23

[21] **3,075,116**  
[13] A1

[51] **Int.Cl. E21D 20/02 (2006.01)**  
[25] EN  
[54] **ENCAPSULATION SYSTEM AND METHOD OF INSTALLING A ROCK BOLT**  
[54] **SYSTEME D'ENCAPSULATION ET PROCEDE D'INSTALLATION D'UN BOULON D'ANCRAGE**  
[72] EVANS, DAVID WILLIAM, AU  
[72] HIRD, DEREK COLIN, AU  
[71] DYWIDAG-SYSTEMS INTERNATIONAL PTY LIMITED, AU  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/AU2018/000170)  
[87] (WO2019/046883)  
[30] AU (2017903643) 2017-09-08

[21] **3,075,118**  
[13] A1

[51] **Int.Cl. C02F 1/60 (2006.01) C02F 5/02 (2006.01)**  
[25] EN  
[54] **WATER TREATMENT PROCESS**  
[54] **PROCEDE DE TRAITEMENT D'EAU**  
[72] DOUGLAS, GRANT, AU  
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU  
[85] 2020-03-06  
[86] 2018-09-06 (PCT/AU2018/050967)  
[87] (WO2019/046897)  
[30] AU (2017903640) 2017-09-08  
[30] AU (2018901121) 2018-04-05

[21] **3,075,119**  
[13] A1

[51] **Int.Cl. G06T 17/05 (2011.01) G06F 17/00 (2019.01)**  
[25] EN  
[54] **SPATIAL DATA PROCESSING SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE DONNEES SPATIALES**  
[72] SENNERSTEN, CHARLOTTE, AU  
[72] LINDLEY, CRAIG A., AU  
[72] EVANS, BEN, AU  
[72] GRACE, ALEX, AU  
[72] WISE, JULIAN, AU  
[71] CMTE DEVELOPMENT LIMITED, AU  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/AU2018/050969)  
[87] (WO2019/046899)  
[30] AU (2017903626) 2017-09-07

[21] **3,075,122**  
[13] A1

[51] **Int.Cl. A61K 36/73 (2006.01) A61K 31/352 (2006.01) A61P 25/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION AND METHOD FOR TREATING AUTISM**  
[54] **COMPOSITION ET METHODE DE TRAITEMENT DE L'AUTISME**  
[72] KARELIS, HARRY, AU  
[71] ZELDA THERAPEUTICS OPERATIONS PTY LTD, AU  
[85] 2020-03-06  
[86] 2018-09-14 (PCT/AU2018/051010)  
[87] (WO2019/051560)  
[30] AU (2017903766) 2017-09-15  
[30] AU (2018900276) 2018-01-18

[21] **3,075,123**  
[13] A1

[51] **Int.Cl. A01N 43/42 (2006.01) A01N 47/08 (2006.01) A01P 21/00 (2006.01)**  
[25] EN  
[54] **BLEND OF A FOLCYSTEINE-BASED BIOSTIMULANT AND AN AGROTOXIC OF INTEREST RESULTING IN A QUANTITATIVELY, QUALITATIVELY AND TIME-RELATED RESULT-POTENTIATING ACTION AS OBSERVED IN AN AGRICULTURAL CROP OF A PLANT OF INTEREST**  
[54] **MELANGE D'UN BIOSTIMULANT A BASE DE FOLCYSTEINE AVEC UN PRODUIT AGROTOXIQUE D'INTERET POUR OBTENIR UNE ACTION POTENTIALISATRICE DES RESULTATS D'ORDRE QUALITATIF, QUANTITATIF ET TEMPOREL OBSERVES DANS UNE CULTURE AGRICOLE D'UNE PLANTE D'INTERET**  
[72] YEPEZ GIL, GUSTAVO, BR  
[71] UPL CORPORATION LIMITED, MU  
[85] 2020-03-06  
[86] 2018-09-05 (PCT/BR2018/050323)  
[87] (WO2019/046921)  
[30] BR (BR 10 2017 019120 6) 2017-09-06

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[21] **3,075,129**  
[13] A1

[51] **Int.Cl. B60L 13/06 (2006.01) B60W 40/112 (2012.01) B60L 13/03 (2006.01) B60L 13/10 (2006.01) B60W 40/06 (2012.01) B60W 40/10 (2012.01)**

[25] EN

[54] **VEHICLE FOR TRAVELLING ALONG A LINEAR ROUTE GUIDEWAY**

[54] **VEHICULE POUR DEPLACEMENT LE LONG D'UNE VOIE DE GUIDAGE D'ITINERAIRE LINEAIRE**

[72] JANZEN, RYAN, CA  
[71] TRANSPOD INC., CA  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/CA2017/051060)  
[87] (WO2018/045470)  
[30] US (62/385,094) 2016-09-08

[21] **3,075,131**  
[13] A1

[51] **Int.Cl. B60L 5/00 (2006.01) B60L 5/04 (2006.01) B60L 5/18 (2006.01) B60L 5/38 (2006.01) B60L 5/42 (2006.01) B60L 15/00 (2006.01) H02J 13/00 (2006.01)**

[25] EN

[54] **PLASMA-BASED HIGH-SPEED POWER TRANSMISSION SYSTEM**

[54] **SYSTEME DE TRANSMISSION DE PUISSANCE A GRANDE VITESSE A BASE DE PLASMA**

[72] JANZEN, RYAN, CA  
[71] TRANSPOD INC., CA  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/CA2017/051061)  
[87] (WO2018/045471)  
[30] US (62/385,101) 2016-09-08

[21] **3,075,134**  
[13] A1

[51] **Int.Cl. G01F 23/18 (2006.01) G01F 23/00 (2006.01)**

[25] EN

[54] **TANK VOLUME MONITORING USING SENSED FLUID PRESSURE**

[54] **SURVEILLANCE DE VOLUME DE RESERVOIR A L'AIDE D'UNE PRESSION DE FLUIDE DETECTEE**

[72] SHANKS, KELLY, L., US  
[71] GRACO MINNESOTA INC., US  
[85] 2020-03-05  
[86] 2018-09-07 (PCT/US2018/049827)  
[87] (WO2019/051145)  
[30] US (62/555,508) 2017-09-07

[21] **3,075,138**  
[13] A1

[51] **Int.Cl. A61H 23/04 (2006.01) A61H 19/00 (2006.01) A61H 21/00 (2006.01) F15B 1/26 (2006.01) F15B 7/00 (2006.01) F15B 21/12 (2006.01) F15C 3/00 (2006.01) F16K 31/06 (2006.01)**

[25] EN

[54] **DEVICES EXPLOITING FLUIDIC SYSTEMS AND ACTUATORS**

[54] **DISPOSITIFS EXPLOITANT DES SYSTEMES FLUIDIQUES ET DES ACTIONNEURS**

[72] MURISON, BRUCE, CA  
[72] CARSON, DYLAN, CA  
[71] MURISON, BRUCE, CA  
[71] CARSON, DYLAN, CA  
[85] 2020-03-05  
[86] 2018-09-07 (PCT/CA2018/000168)  
[87] (WO2019/046927)  
[30] US (62/555,158) 2017-09-07

[21] **3,075,141**  
[13] A1

[51] **Int.Cl. B62D 55/08 (2006.01) B62D 11/00 (2006.01) B62D 55/084 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING A TRACK SYSTEM FOR TRACTION OF A VEHICLE**

[54] **SYSTEME ET PROCEDE POUR SURVEILLER UN SYSTEME DE CHENILLES POUR LA TRACTION D'UN VEHICULE**

[72] POULIN, ETIENNE, CA  
[72] LUSSIER, ALAIN, CA  
[71] CAMSO INC., CA  
[85] 2020-03-06  
[86] 2018-08-28 (PCT/CA2018/051036)  
[87] (WO2019/046929)  
[30] US (62/556,101) 2017-09-08

[21] **3,075,163**  
[13] A1

[51] **Int.Cl. G06N 99/00 (2019.01)**

[25] EN

[54] **QUANTUM ERROR CORRECTION**

[54] **CORRECTION D'ERREUR QUANTIQUE**

[72] FOWLER, AUSTIN GREIG, US  
[71] GOOGLE LLC, US  
[85] 2020-03-06  
[86] 2017-09-13 (PCT/US2017/051290)  
[87] (WO2019/054995)

[21] **3,075,164**  
[13] A1

[51] **Int.Cl. H04N 13/282 (2018.01) H04N 5/247 (2006.01)**

[25] EN

[54] **MULTIVIEW CAMERA ARRAY, MULTIVIEW SYSTEM, AND METHOD HAVING CAMERA SUB-ARRAYS WITH A SHARED CAMERA**

[54] **RESEAU DE CAMERAS A VUES MULTIPLES, SYSTEME A VUES MULTIPLES ET PROCEDE AYANT DES SOUS-RESEAUX DE CAMERAS AVEC UNE CAMERA PARTAGEE**

[72] FATTAL, DAVID A., US  
[71] LEIA INC., US  
[85] 2020-03-06  
[86] 2018-07-03 (PCT/US2018/040819)  
[87] (WO2019/070317)  
[30] US (62/567,138) 2017-10-02

[21] **3,075,165**  
[13] A1

[51] **Int.Cl. C07D 223/16 (2006.01)**

[25] EN

[54] **A PROCESS FOR THE PRODUCTION OF ALKYLAROMATICS**

[54] **PROCEDE DE PRODUCTION D'ALKYLAROMATIQUES**

[72] WEAVER, DANIEL R., US  
[71] INDORAMA VENTURES OXIDES LLC, US  
[85] 2020-03-06  
[86] 2018-07-23 (PCT/US2018/043212)  
[87] (WO2019/060034)  
[30] US (62/561,924) 2017-09-22

[21] **3,075,166**  
[13] A1

[51] **Int.Cl. G03F 7/038 (2006.01) G03F 7/075 (2006.01) G03F 7/32 (2006.01) G03F 7/40 (2006.01)**

[25] EN

[54] **CALCITE CHANNEL NANOFUIDICS**

[54] **CANAL EN CALCITE POUR NANOFUIDIQUE**

[72] CHA, DONG KYU, SA  
[72] AL OTAIBI, MOHAMMED, SA  
[72] AL-YOUSEF, ALI ABDALLAH, SA  
[71] SAUDI ARABIAN OIL COMPANY, SA  
[85] 2020-03-06  
[86] 2018-08-09 (PCT/US2018/046118)  
[87] (WO2019/032903)  
[30] US (15/673,147) 2017-08-09

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[21] **3,075,167**  
[13] A1

[51] **Int.Cl. B29C 51/16 (2006.01) B29C 49/24 (2006.01) B29C 49/64 (2006.01) B29C 51/42 (2006.01) B31C 3/00 (2006.01) B65D 25/54 (2006.01)**

[25] EN

[54] **CONTAINER WITH PRODUCT VISUALIZATION APERTURE**

[54] **RECIPIENT DOTE D'UNE OUVERTURE DE VISUALISATION DE PRODUIT**

[72] CLOUGHERTY, KENAN J., US

[71] SONOCO DEVELOPMENT, INC., US

[85] 2020-03-06

[86] 2018-08-23 (PCT/US2018/047686)

[87] (WO2019/050691)

[30] US (15/698,226) 2017-09-07

[21] **3,075,168**  
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01) C12N 15/09 (2006.01) C12N 15/63 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **MODIFIED CLOSED-ENDED DNA (CEDNA)**

[54] **ADN A EXTREMITE FERMEE (CEDNA) MODIFIE**

[72] KOTIN, ROBERT MICHAEL, US

[72] ALKAN, OZAN, US

[72] JONES, ANNALIESE, US

[72] KERR, DOUGLAS ANTHONY, US

[72] MALAKIAN, ARA KARL, US

[72] SIMMONS, MATTHEW JOHN, US

[72] WRIGHT, TERESA L., US

[71] GENERATION BIO CO., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049996)

[87] (WO2019/051255)

[30] US (62/556,319) 2017-09-08

[30] US (62/556,324) 2017-09-08

[30] US (62/556,329) 2017-09-08

[30] US (62/556,331) 2017-09-08

[30] US (62/556,281) 2017-09-08

[30] US (62/556,335) 2017-09-08

[21] **3,075,169**  
[13] A1

[51] **Int.Cl. F16H 7/10 (2006.01) F16H 7/12 (2006.01)**

[25] EN

[54] **TENSIONER AND METHOD**

[54] **TENDEUR ET PROCEDE**

[72] LIU, KEMING, US

[72] HAO, MIN CHUN, CN

[72] ZHAN, JIN, CN

[72] WICK, ENRICO, DE

[72] MARTINEZ, ARNAUD, NL

[72] BASSI, FRANCESCO, IT

[71] GATES CORPORATION, US

[85] 2020-03-06

[86] 2018-09-05 (PCT/US2018/049501)

[87] (WO2019/050914)

[30] US (15/699,859) 2017-09-08

[21] **3,075,170**  
[13] A1

[51] **Int.Cl. B29C 70/06 (2006.01)**

[25] EN

[54] **SWIMMING POOL WITH COMPOSITE WALL**

[54] **PISCINE A PAROI COMPOSITE**

[72] COHEN, STEVEN, US

[72] SPIEGEL, JONATHAN, US

[72] VALLEE, DAVID, US

[72] PILPEL, BENJAMIN, US

[72] INMAN, PATRICK MASTERSON, US

[72] HORNICKEL, JOHN H., US

[71] WILBAR INTERNATIONAL, INC., US

[71] POLYONE CORPORATION, US

[85] 2020-03-06

[86] 2018-09-06 (PCT/US2018/049697)

[87] (WO2019/051049)

[30] US (62/556,055) 2017-09-08

[30] US (62/666,457) 2018-05-03

[21] **3,075,171**  
[13] A1

[51] **Int.Cl. B02C 17/18 (2006.01) G01N 3/56 (2006.01)**

[25] EN

[54] **SYSTEM FOR IN-LINE MEASUREMENT OF MILL LINER WEAR AND MILL BOLT TENSION BY MEANS OF AN ECHOGRAPHIC SENSOR INSERTED INTO THE THREADED END OF BOLTS**

[54] **SYSTEME DE MESURE EN LIGNE D'USURE DE REVETEMENTS ET TENSION DE BOULONS DE BROUYEUR PAR CAPTEUR ECHOGRAPHIQUE INSERE A L'EXTREMITE FILETEE DES BOULONS**

[72] BUSTOS ROBLEDO, JUAN PABLO, CL

[72] VILLAVICENCIO ARAYA, CRISTIAN, CL

[71] ASESORIAS EN INNOVACION BUSTOS Y ORTUZAR LTDA., CL

[85] 2020-03-06

[86] 2018-09-06 (PCT/CL2018/050083)

[87] (WO2019/046984)

[30] CL (2260-2017) 2017-09-07

[21] **3,075,172**  
[13] A1

[51] **Int.Cl. A61B 5/0488 (2006.01) A61M 16/04 (2006.01) A61N 1/05 (2006.01)**

[25] EN

[54] **ENDOTRACHEAL TUBE WITH TUBE COATING**

[54] **TUBE ENDOTRACHEAL A REVETEMENT DE TUBE**

[72] HACKER, DAVID C., US

[72] LI, WENJENG, US

[72] CANTWELL, MATTHEW L., US

[71] MEDTRONIC XOMED, INC., US

[85] 2020-03-06

[86] 2018-09-06 (PCT/US2018/049713)

[87] (WO2019/051061)

[30] US (15/697,762) 2017-09-07

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[21] **3,075,173**  
[13] A1

[51] **Int.Cl. C07J 63/00 (2006.01) A61K 31/133 (2006.01) A61K 31/5375 (2006.01) A61K 31/575 (2006.01) C07J 53/00 (2006.01)**

[25] EN

[54] **URSOLIC ACID MORPHOLINE AND DIETHANOLAMINE SALTS**

[54] **SELS DE DIETHANOLAMINE ET DE MORPHOLINE D'ACIDE URSOLIQUE**

[72] TALLEY, JOHN J., US

[71] EMMYON, INC., US

[85] 2020-03-06

[86] 2018-09-06 (PCT/US2018/049742)

[87] (WO2019/055280)

[30] US (62/558,004) 2017-09-13

[30] US (62/649,938) 2018-03-29

[21] **3,075,174**  
[13] A1

[51] **Int.Cl. A47B 47/00 (2006.01) A47B 47/02 (2006.01) F16B 12/00 (2006.01) F16B 12/10 (2006.01)**

[25] EN

[54] **CABINET ASSEMBLY**

[54] **ENSEMBLE MEUBLE DE RANGEMENT**

[72] DESMET, JUSTIN ALBERT, US

[72] DESMET, ALBERT JEAN, US

[71] CRAWFORD AND BURKE COMPANY LIMITED, CN

[71] DESMET, JUSTIN ALBERT, US

[85] 2020-03-06

[86] 2018-09-06 (PCT/US2018/049786)

[87] (WO2019/051112)

[30] US (62/554,902) 2017-09-06

[21] **3,075,175**  
[13] A1

[51] **Int.Cl. H04L 29/08 (2006.01) H04L 29/14 (2006.01)**

[25] EN

[54] **AUTOMATED ADDRESS FAILOVER FOR RECEIVERS AND BROWSERS USING A CLOUD SERVICE**

[54] **BASCULEMENT D'ADRESSE AUTOMATISE POUR RECEPTEURS ET NAVIGATEURS UTILISANT UN SERVICE EN NUAGE**

[72] INNES, ANDREW, GB

[71] CITRIX SYSTEMS, INC., AU

[85] 2020-03-06

[86] 2018-09-11 (PCT/US2018/050441)

[87] (WO2019/060178)

[30] US (15/712,405) 2017-09-22

[21] **3,075,176**  
[13] A1

[51] **Int.Cl. F16B 35/06 (2006.01) F16B 25/00 (2006.01)**

[25] EN

[54] **THREADED FASTENER**

[54] **ELEMENT DE FIXATION FILETE**

[72] TRUONG, VICTOR, US

[72] DILL, MICHAEL C., US

[72] GONG, YONGPING, US

[72] LATZ, MARK D., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2020-03-06

[86] 2018-08-30 (PCT/US2018/048838)

[87] (WO2019/055226)

[30] US (62/558,084) 2017-09-13

[30] US (62/633,181) 2018-02-21

[30] US (16/115,797) 2018-08-29

[21] **3,075,177**  
[13] A1

[51] **Int.Cl. G06F 30/10 (2020.01) B33Y 50/00 (2015.01)**

[25] EN

[54] **QUADOR: QUADRIC-OF-REVOLUTION BEAMS FOR LATTICES**

[54] **QUADRIQUE : FAISCEAUX QUADRIQUES DE REVOLUTION POUR DES RESEAUX**

[72] GUPTA, ASHISH, US

[72] ALLEN, GEORGE, JP

[72] ROSSIGNAC, JAROSLAW, US

[72] MUSUVATHY, SURAJ RAVI, US

[72] DALLORO, LIVIO, US

[71] SIEMENS CORPORATION, US

[71] GEORGIA TECH RESEARCH CORPORATION, US

[71] SIEMENS INDUSTRY SOFTWARE, INC., US

[85] 2020-03-06

[86] 2018-09-04 (PCT/US2018/049356)

[87] (WO2019/050842)

[30] US (62/555,884) 2017-09-08

[21] **3,075,178**  
[13] A1

[51] **Int.Cl. A63B 21/062 (2006.01) A63B 21/065 (2006.01) A63B 21/072 (2006.01) A63B 21/075 (2006.01) A63B 21/078 (2006.01)**

[25] EN

[54] **EXERCISE APPARATUS**

[54] **APPAREIL D'EXERCICE**

[72] HENESEY, BRIAN P., US

[71] HENESEY, BRIAN P., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/050034)

[87] (WO2019/051283)

[30] US (62/555,322) 2017-09-07

[21] **3,075,179**  
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) G06F 1/26 (2006.01) H01M 10/48 (2006.01)**

[25] EN

[54] **POWER SYSTEMS AND METHODS OF USING THE SAME TO DELIVER POWER**

[54] **SYSTEMES ELECTRIQUES ET PROCEDES D'UTILISATION DE CES DERNIERS POUR FOURNIR DE L'ENERGIE**

[72] COOPER, ANTHONY, US

[72] NEY, PATRICK, US

[72] RICHARDS, JOSEPH, US

[72] ALOBAIDI, MOHAMMED, US

[71] GREEN CUBES TECHNOLOGY CORPORATION, US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/050038)

[87] (WO2019/051286)

[30] US (62/555,279) 2017-09-07

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[21] **3,075,180**  
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01)**  
[25] EN  
[54] **LIPID NANOPARTICLE FORMULATIONS OF NON-VIRAL, CAPSID-FREE DNA VECTORS**

[54] **FORMULATIONS DE NANOPARTICULES LIPIDIQUES DE VECTEURS D'ADN EXEMPTS DE CAPSIDE NON VIRAUX**

[72] KOTIN, ROBERT MICHAEL, US  
[72] ALKAN, OZAN, US  
[72] KERR, DOUGLAS ANTHONY, US  
[72] MALAKIAN, ARA KARL, US  
[72] SIMMONS, MATTHEW JOHN, US  
[72] STANTON, MATTHEW G., US  
[72] SU, JIE, US  
[72] WRIGHT, TERESA L., US  
[71] GENERATION BIO CO., US  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/US2018/050042)  
[87] (WO2019/051289)  
[30] US (62/556,334) 2017-09-08  
[30] US (62/556,333) 2017-09-08  
[30] US (62/556,381) 2017-09-09  
[30] US (62/675,324) 2018-05-23  
[30] US (62/675,322) 2018-05-23  
[30] US (62/675,317) 2018-05-23  
[30] US (62/675,327) 2018-05-23

[21] **3,075,181**  
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01) C10M 101/02 (2006.01) H01B 3/22 (2006.01)**  
[25] EN  
[54] **TRANSFORMER OIL BASESTOCK AND TRANSFORMER OIL COMPOSITION COMPRISING THE SAME**

[54] **HUILE DE BASE DE TRANSFORMATEUR ET COMPOSITION D'HUILE DE TRANSFORMATEUR LA COMPRENANT**

[72] HILL, RONALD R., JR., US  
[72] TRAN, CATERINA T. H., US  
[72] BROENEN, ANDREW P., US  
[72] MEHTA, SHAIVAL R., US  
[72] BIEN, DANIEL X., BE  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2020-03-06  
[86] 2018-09-10 (PCT/US2018/050182)  
[87] (WO2019/051363)  
[30] US (62/556,571) 2017-09-11  
[30] EP (18160969.4) 2018-03-09

[21] **3,075,182**  
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01) G16B 30/00 (2019.01) G16B 40/00 (2019.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR LEVERAGING RELATEDNESS IN GENOMIC DATA ANALYSIS**

[54] **SYSTEMES ET PROCEDES D'EXPLOITATION DE LA PARENTE DANS L'ANALYSE DE DONNEES GENOMIQUES**

[72] STAPLES, JEFFREY, US  
[72] HABEGGER, LUKAS, US  
[72] REID, JEFFREY, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/US2018/049967)  
[87] (WO2019/051238)  
[30] US (62/555,597) 2017-09-07

[21] **3,075,183**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01)**  
[25] EN  
[54] **SIGNAL REPORTING METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE DE NOTIFICATION DE SIGNAL, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**

[72] CHEN, WENHONG, CN  
[72] ZHANG, ZHI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-03-06  
[86] 2017-09-07 (PCT/CN2017/100947)  
[87] (WO2019/047122)

[21] **3,075,184**  
[13] A1

[51] **Int.Cl. B32B 27/00 (2006.01) B32B 38/00 (2006.01)**  
[25] EN  
[54] **METHOD OF LAMINATING MULTILAYER STRUCTURE USED IN MAKING OF CREDIT AND GIFT CARDS**

[54] **PROCEDE DE STRATIFICATION D'UNE STRUCTURE MULTICOUCHE DANS UN PROCESSUS ROULEAU A ROULEAU POUR FABRIQUER UNE PRE-STRATIFICATION QUI PEUT ETRE UTILISEE LORS DE LA FABRICATION DE CARTES DE CREDITS ET CARTES-CADEAUX ET DES VARIANTES A IMAGE MIROIR ASSOCIEES**

[72] ROCHE, TIMOTHY, US  
[71] GRIFF AND ASSOCIATES, L.P., US  
[85] 2019-11-18  
[86] 2017-05-17 (PCT/US2017/033136)  
[87] (WO2017/201182)  
[30] US (62/337,756) 2016-05-17  
[30] US (62/483,490) 2017-04-10

[21] **3,075,185**  
[13] A1

[51] **Int.Cl. B62K 23/00 (2006.01) B62J 27/00 (2020.01) B62K 11/14 (2006.01) G06F 3/01 (2006.01) H03K 17/96 (2006.01)**  
[25] EN  
[54] **HAPTICALLY ENABLED MOTORCYCLE**

[54] **MOTOCYCLETTE A CAPACITE HAPTIQUE**

[72] GIRAUD, DAMON JAY, CA  
[72] KWONG, DOMINIQUE, CA  
[71] DAMON MOTORS INC., CA  
[85] 2020-03-06  
[86] 2018-09-06 (PCT/CA2018/051080)  
[87] (WO2019/046945)  
[30] US (62/554,697) 2017-09-06  
[30] US (62/570,028) 2017-10-09  
[30] US (62/580,610) 2017-11-02

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[21] **3,075,186**  
[13] A1

[51] **Int.Cl. H04W 36/00 (2009.01)**  
[25] EN  
[54] **WIRELESS COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE**  
[54] **PROCEDE DE COMMUNICATION SANS FIL, DISPOSITIF DE RESEAU ET DISPOSITIF TERMINAL**  
[72] CHEN, WENHONG, CN  
[72] ZHANG, ZHI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/CN2017/101134)  
[87] (WO2019/047186)

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[21] **3,075,187**  
[13] A1

[51] **Int.Cl. B60W 40/08 (2012.01) B60W 40/09 (2012.01) B60W 50/10 (2012.01) B60W 50/12 (2012.01) B60W 30/00 (2006.01) B60W 40/02 (2006.01) G01G 19/08 (2006.01) G01G 19/44 (2006.01) G01M 1/12 (2006.01)**  
[25] EN  
[54] **DETERMINATION OF A MOTORCYCLE RIDER'S STATE**  
[54] **DETERMINATION DE L'ETAT D'UN MOTARD**  
[72] GIRAUD, DAMON JAY, CA  
[72] KWONG, DOMINIQUE, CA  
[71] DAMON MOTORS INC., CA  
[85] 2020-03-06  
[86] 2018-09-06 (PCT/CA2018/051082)  
[87] (WO2019/046947)  
[30] US (62/554,697) 2017-09-06  
[30] US (62/570,028) 2017-10-09  
[30] US (62/580,629) 2017-11-02

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[21] **3,075,188**  
[13] A1

[51] **Int.Cl. F16H 21/36 (2006.01) F01B 7/20 (2006.01) F16C 3/22 (2006.01) F16H 21/28 (2006.01) F16H 21/34 (2006.01)**  
[25] EN  
[54] **ENGINE WITH AT LEAST ONE OF NON-SINUSOIDAL MOTION AND EMBEDDED PISTONS**  
[54] **MOTEUR AVEC AU MOINS UN MOUVEMENT NON SINUSOIDAL ET DES PISTONS INTEGRES**  
[72] MACDONALD, BRENDAN DAVID, CA  
[72] DUDMAN, MATTHEW LESTER MURRAY, CA  
[72] RANIERI, SALVATORE, CA  
[71] UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY, CA  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/CA2018/051088)  
[87] (WO2019/046951)  
[30] US (62/555,832) 2017-09-08

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[21] **3,075,189**  
[13] A1

[51] **Int.Cl. E05B 9/08 (2006.01) E05B 9/00 (2006.01) E05B 9/04 (2006.01) E05B 27/00 (2006.01)**  
[25] EN  
[54] **ELECTRO-MECHANICAL LOCK CORE**  
[54] **PARTIE CENTRALE DE VERROU ELECTROMECHANIQUE**  
[72] ALLEN, BRENDON, US  
[72] BARNETT III, STREET ANTHONY, US  
[72] VIKLUND, MICHAEL HANS, US  
[72] SNODGRASS, JOHN ANDREW, US  
[71] DORMAKABA USA INC., US  
[85] 2020-03-05  
[86] 2018-09-07 (PCT/US2018/050117)  
[87] (WO2019/051337)  
[30] US (62/556,195) 2017-09-08

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[21] **3,075,190**  
[13] A1

[51] **Int.Cl. F24F 1/14 (2011.01) F24F 3/06 (2006.01) F24F 13/04 (2006.01) F25B 19/00 (2006.01) G06F 1/20 (2006.01) H05K 7/20 (2006.01)**  
[25] EN  
[54] **HYBRID DIRECT AND INDIRECT AIR COOLING SYSTEM**  
[54] **SYSTEME HYBRIDE DE REFROIDISSEMENT DIRECT ET INDIRECT D'AIR**  
[72] ABDEL-SALAM, AHMED HAMDI, CA  
[72] LEPOUDRE, PHILIP PAUL, CA  
[72] GERBER, MANFRED, CA  
[71] NORTEK AIR SOLUTIONS CANADA, INC., CA  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/CA2018/051094)  
[87] (WO2019/046956)  
[30] US (62/556,250) 2017-09-08

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[21] **3,075,191**  
[13] A1

[51] **Int.Cl. A61K 31/55 (2006.01) A61P 1/16 (2006.01) A61P 37/06 (2006.01) C07D 471/14 (2006.01)**  
[25] EN  
[54] **USE OF MIRTAZAPINE IN THE TREATMENT OF INFLAMMATORY DISORDERS, AUTOIMMUNE DISEASE AND PBC**  
[54] **UTILISATION DE MIRTAZAPINE DANS LE TRAITEMENT DE TROUBLES INFLAMMATOIRES, DE MALADIES AUTO-IMMUNES ET DE LA CBP**  
[72] SHAHEEN, ABDEL AZIZ, CA  
[72] ALMISHRI, WAGDI, CA  
[72] KAPLAN, GILAAD G., CA  
[72] SWAIN, MARK G., CA  
[71] UTI LIMITED PARTNERSHIP, CA  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/CA2018/051098)  
[87] (WO2019/046959)  
[30] US (62/555,397) 2017-09-07

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[21] **3,075,192**  
[13] A1

[51] **Int.Cl. A61M 25/092 (2006.01) A61M 25/01 (2006.01) A61M 25/14 (2006.01)**  
[25] EN  
[54] **CATHETER DEVICE FOR LUMEN RE-ENTRY AND METHODS FOR USE THEREOF**  
[54] **DISPOSITIF DE CATHETER POUR RE-ENTREE DE LUMIERE ET SES PROCEDES D'UTILISATION**  
[72] TENNANT, RYAN, CA  
[72] DI BARTOLOMEO, LINDSEY, CA  
[72] STRAUSS, BRADLEY, CA  
[72] ABUZEID, WAEL, CA  
[72] ARDESHIRI, RAMTIN, CA  
[72] CIBULSKI, GILAD, CA  
[71] SUNNYBROOK RESEARCH INSTITUTE, CA  
[85] 2020-03-06  
[86] 2018-09-11 (PCT/CA2018/051124)  
[87] (WO2019/046976)  
[30] US (62/556,610) 2017-09-11

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[21] **3,075,193**  
[13] A1

[51] **Int.Cl. H04B 7/26 (2006.01)**  
[25] EN  
[54] **SEQUENCE-BASED SIGNAL PROCESSING METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL DE TRAITEMENT DE SIGNAL BASE SUR UNE SEQUENCE**  
[72] QU, BINGYU, CN  
[72] SUN, HAO, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2020-03-06  
[86] 2018-07-18 (PCT/CN2018/096168)  
[87] (WO2019/047622)  
[30] CN (201710806190.X) 2017-09-08  
[30] CN (201711140559.4) 2017-11-16

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[21] **3,075,194**  
[13] A1

[51] **Int.Cl. C08G 79/06 (2006.01) A01N 57/18 (2006.01) A01P 1/00 (2006.01) B01J 20/26 (2006.01) C09K 21/14 (2006.01)**  
[25] EN  
[54] **POLYMERIZATION OF PRIMARY PHOSPHINES WITH OLEFINS TO GENERATE PHOSPHORUS BASED POLYMER NETWORKS**  
[54] **POLYMERISATION DE PHOSPHINES PRIMAIRES AVEC DES OLEFINES POUR GENERER DES RESEAUX DE POLYMERES A BASE DE PHOSPHORE**  
[72] CUTHBERT, TYLER J., CA  
[72] GUTERMAN, RYAN, CA  
[72] GILLIES, ELIZABETH RACHEL, CA  
[72] BLACQUIERE, JOHANNA, CA  
[72] GILLROY, JOE, CA  
[72] RAGOGNA, PAUL JOSEPH, CA  
[71] THE UNIVERSITY OF WESTERN ONTARIO, CA  
[85] 2020-03-06  
[86] 2018-09-13 (PCT/CA2018/051136)  
[87] (WO2019/051598)  
[30] US (62/558,093) 2017-09-13

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[21] **3,075,195**  
[13] A1

[51] **Int.Cl. F04B 19/00 (2006.01) B01D 61/42 (2006.01) B01D 69/02 (2006.01) F04B 43/04 (2006.01)**  
[25] EN  
[54] **LAYERED ELECTROOSMOTIC STRUCTURE**  
[54] **STRUCTURE ELECTROOSMOTIQUE EN COUCHES**  
[72] HELDAL, TROND, CH  
[72] YAROSHCHUK, ANDRIY, ES  
[71] OSMOTEX AG, CH  
[71] UNIVERSITAT POLITECNICA DE CATALUNYA, ES  
[71] INSTITUCIO CATALANA DE RECERCA I ESTUDIS AVANCATS, ES  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/EP2017/072574)  
[87] (WO2018/046659)  
[30] ES (P201631175) 2016-09-08

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[21] **3,075,196**  
[13] A1

[51] **Int.Cl. H04W 56/00 (2009.01) H04W 72/12 (2009.01)**  
[25] EN  
[54] **METHOD, NETWORK APPARATUS, AND TERMINAL APPARATUS FOR INDICATING POSITION OF SYNCHRONIZATION SIGNAL BLOCK**  
[54] **PROCEDE, APPAREIL DE RESEAU ET APPAREIL TERMINAL POUR INDIQUER LA POSITION D'UN BLOC DE SIGNAL DE SYNCHRONISATION**  
[72] ZHANG, ZHI, CN  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/CN2017/101143)  
[87] (WO2019/047192)

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[21] **3,075,197**  
[13] A1

[51] **Int.Cl. H01M 2/22 (2006.01) H01M 2/04 (2006.01) H01M 2/30 (2006.01) H01M 2/02 (2006.01) H01M 2/06 (2006.01) H01M 10/06 (2006.01)**  
[25] EN  
[54] **CONNECTION POLE FOR A RECHARGEABLE BATTERY AND RECHARGEABLE-BATTERY HOUSING**  
[54] **POLE DE CONNEXION POUR UN ACCUMULATEUR ET BOITIER D'ACCUMULATEUR**  
[72] WIEGMANN, MARTIN, DE  
[71] CLARIOS ADVANCED SOLUTIONS GMBH, DE  
[85] 2020-03-06  
[86] 2017-10-25 (PCT/EP2017/077283)  
[87] (WO2019/081007)

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[21] **3,075,198**  
[13] A1

[51] **Int.Cl. B60C 11/16 (2006.01)**  
[25] EN  
[54] **PNEUMATIC VEHICLE TYRES HAVING A PROFILED TREAD WITH STUDS**  
[54] **PNEUMATIQUE DE VEHICULE AUTOMOBILE EQUIPE DE BANDE DE ROULEMENT PROFILEE A CRAMPONS**  
[72] SCHLITTENHARD, JAN, DE  
[72] KOTTER, MAIK, DE  
[72] SPECHTMEYER, TORBEN, DE  
[72] WIESE, KLAUS, DE  
[71] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE  
[85] 2020-03-06  
[86] 2018-07-12 (PCT/EP2018/068914)  
[87] (WO2019/081080)  
[30] DE (10 2017 219 036.1) 2017-10-25

[21] **3,075,199**  
[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 27/00 (2016.01) A23L 27/60 (2016.01) A23D 7/00 (2006.01) A23D 7/01 (2006.01) A23D 7/06 (2006.01) C11B 5/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION COMPRISING VEGETABLE OIL, A SOURCE OF ORGANIC ACIDS, PHENOLIC COMPOUNDS AND AMINO ACIDS**  
[54] **COMPOSITION COMPRENANT UNE HUILE VEGETALE, UNE SOURCE D'ACIDES ORGANIQUES, DES COMPOSES PHENOLIQUES ET DES ACIDES AMINES**  
[72] ERMACORA, ALESSIA, NL  
[72] SILVA PAES, SABRINA, NL  
[72] VAN ADRICHEM, LINDA JOHANNA ALIDA, NL  
[71] UNILEVER PLC, GB  
[85] 2020-03-06  
[86] 2018-08-16 (PCT/EP2018/072168)  
[87] (WO2019/057407)  
[30] EP (17192658.7) 2017-09-22  
[30] EP (17192661.1) 2017-09-22

[21] **3,075,200**  
[13] A1

[51] **Int.Cl. C21D 1/42 (2006.01) C21D 9/56 (2006.01) C21D 9/60 (2006.01) C21D 9/62 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR RAPIDLY HEATING COLD-ROLLED STRIP STEEL**  
[54] **APPAREIL ET PROCEDE PERMETTANT DE CHAUFFER RAPIDEMENT UN ACIER EN BANDE LAMINE A FROID**  
[72] ZHANG, HUABING, CN  
[72] LI, GUOBAO, CN  
[72] LIU, BAOJUN, CN  
[72] HAN, DAN, CN  
[72] ZHANG, XINQIANG, CN  
[72] CUI, GUANGHUA, CN  
[72] CHEN, JIANBING, CN  
[72] XIAO, WEN, CN  
[72] ZHAO, ZIPENG, CN  
[71] BAOSHAN IRON & STEEL CO., LTD., CN  
[85] 2020-03-06  
[86] 2018-05-16 (PCT/CN2018/087069)  
[87] (WO2019/080482)  
[30] CN (201711004691.2) 2017-10-24

[21] **3,075,201**  
[13] A1

[51] **Int.Cl. B66D 5/18 (2006.01) B66D 1/22 (2006.01) B66D 1/50 (2006.01) B66D 5/26 (2006.01) B66D 5/30 (2006.01)**  
[25] EN  
[54] **FREE FALL WINCH**  
[54] **TREUIL A CHUTE LIBRE**  
[72] HAUSLADEN, NORBERT, DE  
[72] FUHRLE, DAVID, DE  
[71] LIEBHERR-COMPONENTS BIBERACH GMBH, DE  
[85] 2020-03-06  
[86] 2018-08-27 (PCT/EP2018/073042)  
[87] (WO2019/048282)  
[30] DE (10 2017 120 490.3) 2017-09-06

[21] **3,075,202**  
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01) B01F 7/20 (2006.01) B03B 1/00 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR RESIN EXTRACTION**  
[54] **APPAREIL ET PROCEDES D'EXTRACTION DE RESINE**  
[72] LANTELA, DANIEL ERIK, CA  
[72] KAMAL, BRISHNA SORAYA, CA  
[72] WONG, KELVIN KIN-WING, CA  
[71] WHISTLER TECHNOLOGIES CORP., CA  
[85] 2020-03-06  
[86] 2018-09-21 (PCT/CA2018/051197)  
[87] (WO2019/056126)  
[30] US (62/561,535) 2017-09-21  
[30] US (62/580,102) 2017-11-01

[21] **3,075,203**  
[13] A1

[51] **Int.Cl. F16D 65/12 (2006.01) F16D 61/00 (2006.01)**  
[25] EN  
[54] **BRAKE PAD WITH INTEGRATED THERMOELECTRIC ENERGY HARVESTER FOR BRAKING SYSTEM**  
[54] **PLAQUETTE DE FREIN A RECUPERATEUR D'ENERGIE THERMOELECTRIQUE INTEGRE POUR SYSTEME DE FREINAGE**  
[72] SERRA, STEFANO, IT  
[72] TRUCCONE, PAOLO, IT  
[72] VIGNOLO, UMBERTO, IT  
[72] ASGHAR ENKESHAFI, ALI, DK  
[72] AISTRUP ROSENDAHL, LASSE, DK  
[72] VESTERGARD MORTENSEN, PAW, DK  
[72] SIN, AGUSTI, IT  
[71] ITT ITALIA S.R.L., IT  
[85] 2020-03-06  
[86] 2018-09-05 (PCT/EP2018/073821)  
[87] (WO2019/052865)  
[30] IT (102017000102064) 2017-09-12

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[21] **3,075,204**  
[13] A1

[51] **Int.Cl. C08F 220/18 (2006.01) A61K 9/28 (2006.01) C09D 133/10 (2006.01) C08F 220/34 (2006.01) C09D 133/06 (2006.01) C09D 133/14 (2006.01)**

[25] EN

[54] **POLYMER AND DOSAGE FORM WITH SUSTAINED RELEASE PROPERTIES AND RESISTANCE AGAINST THE INFLUENCE OF ETHANOL**

[54] **POLYMER ET FORME PHARMACEUTIQUE AVEC PROPRIETES DE LIBERATION PROLONGEE ET RESISTANCE A L'INFLUENCE DE L'ETHANOL**

[72] ENDRES, THOMAS, US  
[72] MEIER, CHRISTIAN, DE  
[72] HERMES, FLORIAN, DE  
[72] DEL ROSARIO FERRAND, JESSICA, DE  
[72] JUNG, HERBERT, DE  
[72] EURICH, THOMAS, DE  
[72] SCHATTKA, JAN HENDRIK, DE  
[71] EVONIK OPERATIONS GMBH, DE  
[85] 2020-03-06  
[86] 2018-09-04 (PCT/EP2018/073652)  
[87] (WO2019/052845)  
[30] EP (17191129.0) 2017-09-14  
[30] EP (PCT/EP2018/055856) 2018-03-09

[21] **3,075,206**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 31/52 (2006.01) A61K 31/522 (2006.01) A61P 31/20 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **COMBINATION THERAPIES OF HEPATITIS B VIRUS (HBV)-INFECTED INDIVIDUALS USING PARAPOXVIRUS OVIS (PPVO) AND AT LEAST ONE FURTHER ANTIVIRAL DRUG**

[54] **POLYTHEAPIES POUR DES INDIVIDUS ATTEINTS D'UNE INFECTION AU VIRUS DE L'HEPATITE B (VHB) UTILISANT PARAPOXVIRUS OVIS (PPVO) ET AU MOINS UN AUTRE MEDICAMENT ANTIVIRAL**

[72] PAULSEN, DANIELA, DE  
[72] URBAN, ANDREAS, DE  
[72] ADDY, IBIRONKE, DE  
[72] PFAFF, TAMARA, DE  
[72] MENNE, STEPHAN, US  
[72] SLOOT, WILLEM, DE  
[71] AICURIS GMBH & CO. KG, DE  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/EP2018/074202)  
[87] (WO2019/048640)  
[30] EP (17189890.1) 2017-09-07  
[30] EP (17196684.9) 2017-10-16

[21] **3,075,208**  
[13] A1

[51] **Int.Cl. C07C 221/00 (2006.01) A61K 41/00 (2020.01) A61P 35/00 (2006.01) C07C 225/32 (2006.01) C07C 249/02 (2006.01) C07C 251/24 (2006.01)**

[25] EN

[54] **HYPOCRELLIN DERIVATIVE SUBSTITUTED BOTH IN A PERI-POSITION AND IN 2-POSITION BY AMINO, PREPARATION METHOD, AND APPLICATION THEREOF**

[54] **DERIVES D'HYPOCRELLINE AYANT UNE PERI-POSITION ET UNE POSITION 2 SIMULTANEMENT SUBSTITUES PAR DES GROUPES AMINO**

[72] WANG, PENGFEI, CN  
[72] WU, JIASHENG, CN  
[72] LIU, WEIMIN, CN  
[72] ZHENG, XIULI, CN  
[72] GU, YING, CN  
[71] TECHNICAL INSTITUTE OF PHYSICS AND CHEMISTRY OF THE CHINESE ACADEMY OF SCIENCES, CN  
[85] 2020-03-06  
[86] 2018-09-05 (PCT/CN2018/104124)  
[87] (WO2019/047846)  
[30] CN (201710794566.X) 2017-09-06  
[30] CN (201811020381.4) 2018-09-03

[21] **3,075,205**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01)**

[25] EN

[54] **STABILIZED HNF4A SARNA COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS STABILISEES DE PETITS ARN ACTIVATEURS (PARNA) DE HNF4A ET PROCEDES D'UTILISATION**

[72] HUBER, HANS E., US  
[72] BLAKEY, DAVID, GB  
[72] VOUTILA, JON, GB  
[72] REEBYE, VIKASH, GB  
[71] MINA THERAPEUTICS LIMITED, GB  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/EP2018/074192)  
[87] (WO2019/048632)  
[30] US (62/555,937) 2017-09-08  
[30] US (62/555,951) 2017-09-08  
[30] EP (PCT/EP2017/074130) 2017-09-22

[21] **3,075,207**  
[13] A1

[51] **Int.Cl. A61K 39/245 (2006.01) A61K 39/00 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **HUMAN CYTOME GALOVIRUS IMMUNOGENIC COMPOSITION**

[54] **COMPOSITION IMMUNOGENE CONTRE LE CYTOME GALOVIRUS HUMAIN**

[72] CHAUX, PASCAL, FR  
[72] DUMAS, RAFAELA, FR  
[72] HAENSLER, JEAN, FR  
[72] PICHON, SYLVIE, FR  
[72] PIRAS-DOUCE, FABIENNE, FR  
[71] SANOFI PASTEUR, FR  
[85] 2020-03-06  
[86] 2018-09-11 (PCT/EP2018/074369)  
[87] (WO2019/052975)  
[30] EP (17306179.7) 2017-09-13

[21] **3,075,209**  
[13] A1

[51] **Int.Cl. G01N 27/83 (2006.01) B65G 47/31 (2006.01)**

[25] EN

[54] **PIPE INSPECTION**

[54] **INSPECTION DE TUYAU**

[72] NICOLINI, ALBERTO, NL  
[72] ETCHEVERRY, JAVIER, NL  
[72] NUNEZ, FERNANDO, AR  
[71] TENARIS CONNECTIONS B.V., NL  
[85] 2020-03-06  
[86] 2018-09-11 (PCT/EP2018/074456)  
[87] (WO2019/053005)  
[30] US (15/702,389) 2017-09-12

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[51] <b>Int.Cl. A61B 5/00 (2006.01) G16H 50/20 (2018.01) A61B 5/0476 (2006.01) A61B 5/16 (2006.01)</b>	[51] <b>Int.Cl. G01R 31/58 (2020.01) G01R 31/54 (2020.01) G01R 31/12 (2020.01)</b>	[51] <b>Int.Cl. A61F 2/16 (2006.01)</b>
[25] EN	[25] FR	[25] EN
[54] <b>DECODING THE VISUAL ATTENTION OF AN INDIVIDUAL FROM ELECTROENCEPHALOGRAPHIC SIGNALS</b>	[54] <b>DEVICE FOR MONITORING THE INSULATION AND/OR CONTINUITY OF AT LEAST ONE ELECTRIC CABLE AND ASSOCIATED MONITORING METHOD</b>	[54] <b>METHODS AND APPARATUSES TO INCREASE INTRAOCULAR LENSES POSITIONAL STABILITY</b>
[54] <b>DECODAGE DE L'ATTENTION VISUELLE D'UN INDIVIDU A PARTIR DE SIGNAUX ELECTROENCEPHALOGRAPHIQUES</b>	[54] <b>DISPOSITIF DE CONTROLE D'ISOLEMENT ET/OU DE CONTINUITE D'AU MOINS UN CABLE ELECTRIQUE ET PROCEDE DE CONTROLE ASSOCIE</b>	[54] <b>PROCEDES ET APPAREILS POUR AUGMENTER LA STABILITE DE POSITION DE LENTILLES INTRAOCULAIRES</b>
[72] KOUIDER, SID, FR	[72] PAROIS-QUELENNEC, ERIC, FR	[72] ALARCON HEREDIA, AIXA, NL
[72] LEONETTI, JEAN-MAURICE, FR	[72] CHERUEL, RICHARD, FR	[72] KOOPMAN, BRAM, NL
[72] BARASCUD, NICOLAS, FR	[71] NAVAL GROUP, FR	[72] VAN DER MOOREN, MARRIE, NL
[72] ZERAFA, ROBIN, FR	[85] 2020-03-06	[72] ROSEN, ROBERT, NL
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR	[86] 2018-09-07 (PCT/EP2018/074184)	[72] GRAVER, JACOLIE, NL
[71] ECOLE NORMALE SUPERIEURE DE PARIS, FR	[87] (WO2019/048627)	[72] BOERSMA, SELMA, NL
[71] ECOLE DES HAUTES ETUDES EN SCIENCES SOCIALES, FR	[30] FR (17 00904) 2017-09-08	[72] FRANSSEN, LUUK, NL
[85] 2020-03-06		[72] VAN DEN BERG, JOHN, NL
[86] 2018-09-06 (PCT/EP2018/073961)		[71] AMO GRONINGEN B.V., NL
[87] (WO2019/048525)		[85] 2020-03-06
[30] FR (1758305) 2017-09-08		[86] 2018-09-11 (PCT/EP2018/074496)
	[21] <b>3,075,213</b> [13] A1	[21] <b>3,075,215</b> [13] A1
	[51] <b>Int.Cl. H04W 24/10 (2009.01)</b>	[51] <b>Int.Cl. A61K 31/4155 (2006.01) A61K 31/395 (2006.01) A61K 31/40 (2006.01) A61K 31/404 (2006.01) A61K 31/4439 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)</b>
	[25] EN	[25] EN
	[54] <b>TECHNIQUES AND APPARATUSES FOR RADIO RESOURCE MANAGEMENT WITH MULTIPLE BANDWIDTH PARTS</b>	[54] <b>HDAC INHIBITOR IN COMBINATION WITH IMMUNE CHECKPOINT MODULATOR FOR CANCER THERAPY</b>
	[54] <b>TECHNIQUES ET APPAREILS DE GESTION DE RESSOURCES RADIO AVEC DE MULTIPLES PARTIES DE BANDE PASSANTE</b>	[54] <b>INHIBITEUR DE L'HISTONE DESACETYLASE EN ASSOCIATION AVEC UN MODULATEUR DE POINT DE CONTROLE IMMUNITAIRE POUR LA CANCEROTHERAPIE</b>
	[72] CHENG, PENG, US	[72] DANHAUSER-RIEDL, SUSANNE, DE
	[72] KITAZOE, MASATO, US	[72] HERMANN, FRANK, DE
	[72] DAMNJANOVIC, ALEKSANDAR, US	[72] BAUMGARTNER, ROLAND, DE
	[72] NAGARAJA, SUMEETH, US	[72] HAMM, SVETLANA, DE
	[72] KUBOTA, KEIICHI, US	[72] BARTZ, RENE, DE
	[72] CHEN, WANSHI, US	[71] 4SC AG, DE
	[72] GHEORGHIU, VALENTIN ALEXANDRU, US	[85] 2020-03-06
	[72] GAAL, PETER, US	[86] 2018-09-07 (PCT/EP2018/074186)
	[72] MONTOJO, JUAN, US	[87] (WO2019/048629)
	[71] QUALCOMM INCORPORATED, US	[30] EP (17190233.1) 2017-09-08
	[85] 2020-03-06	[30] EP (17190238.0) 2017-09-08
	[86] 2018-09-21 (PCT/CN2018/106901)	[30] EP (17190242.2) 2017-09-08
	[87] (WO2019/062658)	
	[30] CN (PCT/CN2017/103952) 2017-09-28	
[21] <b>3,075,211</b> [13] A1		
[51] <b>Int.Cl. A61F 2/16 (2006.01) G02C 7/02 (2006.01) G02C 7/04 (2006.01)</b>		
[25] EN		
[54] <b>INTRAOCULAR LENSES WITH CUSTOMIZED ADD POWER</b>		
[54] <b>LENTILLES INTRAOCULAIRES AYANT UNE PUISSANCE D'ADDITION PERSONNALISEE</b>		
[72] CANOVAS VIDAL, CARMEN, NL		
[72] ROSEN, ROBERT, NL		
[72] VAN DER MOOREN, MARRIE, NL		
[72] PIERS, PATRICIA A., NL		
[71] AMO GRONINGEN B.V., NL		
[85] 2020-03-06		
[86] 2018-09-11 (PCT/EP2018/074493)		
[87] (WO2019/048707)		
[30] US (62/556,752) 2017-09-11		

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[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 9/22 (2006.01) A01G 13/02 (2006.01) B32B 7/02 (2019.01) B32B 27/08 (2006.01) B32B 27/16 (2006.01) B32B 27/18 (2006.01) B32B 27/36 (2006.01)**

[25] EN  
[54] **GREENHOUSE SCREEN**  
[54] **ECRAN POUR SERRE**  
[72] HOLGERSON, PER, SE  
[72] ASPLUND, DANIEL, SE  
[71] AB LUDVIG SVENSSON, SE  
[85] 2020-03-06  
[86] 2018-09-13 (PCT/EP2018/074773)  
[87] (WO2019/053139)  
[30] SE (1751124-7) 2017-09-14

[21] **3,075,217**  
[13] A1

[51] **Int.Cl. C12P 21/00 (2006.01) A61K 47/42 (2017.01) C07K 16/28 (2006.01) C12N 9/12 (2006.01) C12N 9/42 (2006.01)**

[25] EN  
[54] **GENETICALLY ENGINEERED EUKARYOTIC CELLS PRODUCING SIALYLATED GLYCOPROTEINS**  
[54] **MOYENS ET PROCEDES DE PRODUCTION DE GLYCOPROTEINES COMPRENANT DES GLUCIDES SIALYLES HOMOGENES**  
[72] CALLEWAERT, NICO, BE  
[72] VAN BREEDAM, WANDER, BE  
[72] SANTENS, FRANCIS, BE  
[71] VIB VZW, BE  
[71] UNIVERSITEIT GENT, BE  
[85] 2020-03-06  
[86] 2018-09-13 (PCT/EP2018/074788)  
[87] (WO2019/053147)  
[30] GB (1714765.3) 2017-09-14

[21] **3,075,218**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 47/65 (2017.01) A61K 47/68 (2017.01) C07K 5/09 (2006.01) C07K 5/10 (2006.01) C07K 5/11 (2006.01) C07K 7/08 (2006.01) C07K 14/36 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 9/10 (2006.01) C12P 21/02 (2006.01) C12P 21/08 (2006.01)**

[25] EN  
[54] **TRANSGLUTAMINASE CONJUGATION METHOD AND LINKER**  
[54] **PROCEDE DE CONJUGAISON D'UNE TRANSGLUTAMINASE ET SEQUENCE DE LIAISON**  
[72] SPYCHER, PHILIPP, CH  
[72] SCHIBLI, ROGER, CH  
[72] BEHE, MARTIN, CH  
[72] WEHRMULLER, JORI, CH  
[71] PAUL SCHERRER INSTITUT, CH  
[85] 2020-03-06  
[86] 2018-09-19 (PCT/EP2018/075350)  
[87] (WO2019/057772)  
[30] EP (17191825.3) 2017-09-19  
[30] GB (1800878.9) 2018-01-19

[21] **3,075,219**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01)**

[25] EN  
[54] **HNF4A SARNA COMPOSITIONS AND METHODS OF USE**  
[54] **COMPOSITIONS DE PETITS ARN ACTIVEURS DE HNF4A ET PROCEDES D'UTILISATION**  
[72] HUBER, HANS E., US  
[72] BLAKEY, DAVID, GB  
[72] VOUTILA, JON, GB  
[72] KRAMPERT, MONIKA, DE  
[72] HOSSBACH, MARKUS, DE  
[71] MINA THERAPEUTICS LIMITED, GB  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/EP2018/074191)  
[87] (WO2019/048631)  
[30] US (62/555,937) 2017-09-08  
[30] US (62/555,951) 2017-09-08  
[30] EP (PCT/EP2017/074130) 2017-09-22

[21] **3,075,220**  
[13] A1

[51] **Int.Cl. A41D 13/002 (2006.01)**

[25] EN  
[54] **VAPOR-PERMEABLE INSERT FOR ITEMS OF CLOTHING AND ACCESSORIES, ITEM OF CLOTHING AND ACCESSORIES WITH SAID INSERT**  
[54] **INSERT PERMEABLE A LA VAPEUR POUR VETEMENTS ET ACCESSOIRES, VETEMENTS ET ACCESSOIRES AVEC LEDIT INSERT**  
[72] POLEGATO MORETTI, MARIO, IT  
[72] BRUNO, MARCO, IT  
[72] RAMPIN, MICHELE, IT  
[71] GEOX S.P.A., IT  
[85] 2020-03-06  
[86] 2018-09-17 (PCT/EP2018/075002)  
[87] (WO2019/057648)  
[30] IT (102017000104874) 2017-09-20

[21] **3,075,221**  
[13] A1

[25] EN  
[54] **AGONISTIC CD40 ANTIBODIES**  
[54] **ANTICORPS CD40 AGONISTES**  
[72] FISCHER, STEPHAN, DE  
[72] BECKMANN, KARSTEN, DE  
[71] MAB DISCOVERY GMBH, DE  
[85] 2020-03-06  
[86] 2018-09-19 (PCT/EP2018/075388)  
[87] (WO2019/057792)  
[30] EP (17191974.9) 2017-09-19

[21] **3,075,222**  
[13] A1

[51] **Int.Cl. G01N 17/00 (2006.01) G01N 17/04 (2006.01)**

[25] EN  
[54] **MONITORING DEVICE AND METHOD FOR MONITORING CORROSION OF A WIRE MESH**  
[54] **DISPOSITIF DE SURVEILLANCE ET PROCEDE POUR LA SURVEILLANCE D'UNE CORROSION D'UN TREILLIS METALLIQUE**  
[72] WENDELER-GOGGELMANN, CORINNA, CH  
[71] GEOBRUGG AG, CH  
[85] 2020-03-06  
[86] 2018-09-28 (PCT/EP2018/076389)  
[87] (WO2019/072587)  
[30] DE (10 2017 123 810.7) 2017-10-12

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[21] **3,075,223**  
[13] A1

[51] **Int.Cl. A61M 16/08 (2006.01) A61M 16/14 (2006.01) A61M 16/16 (2006.01) A61M 11/02 (2006.01) A61M 16/06 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR ADMINISTERING A HUMIDIFIED AEROSOL TO A PATIENT INTERFACE**

[54] **PROCEDE ET DISPOSITIF D'ADMINISTRATION D'UN AEROSOL HUMIDIFIE A UNE INTERFACE PATIENT**

[72] POHLMANN, GERHARD, DE

[72] IWATSCHENKO, PETER, DE

[72] PANKALLA, JELENA, DE

[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2020-03-06

[86] 2018-09-17 (PCT/EP2018/075082)

[87] (WO2019/053264)

[30] EP (17191624.0) 2017-09-18

[21] **3,075,224**  
[13] A1

[51] **Int.Cl. B61L 1/06 (2006.01) B61L 1/16 (2006.01)**

[25] EN

[54] **METHOD FOR MOUNTING A RAIL MONITORING MEMBER**

[54] **PROCEDE DE MONTAGE D'UN ELEMENT DE SURVEILLANCE DE RAIL**

[72] SCHICKER, KAI, DE

[72] HOFFMANN, LARS, DE

[71] THALES MANAGEMENT & SERVICES DEUTSCHLAND GMBH, DE

[85] 2020-03-06

[86] 2018-09-21 (PCT/EP2018/075572)

[87] (WO2019/057875)

[30] DE (10 2017 216 811.0) 2017-09-22

[21] **3,075,225**  
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) B82Y 40/00 (2011.01) B29C 33/42 (2006.01) B29C 39/02 (2006.01) B29C 39/10 (2006.01)**

[25] EN

[54] **STRUCTURING OF SURFACE-ACTIVE MACROMOLECULES**

[54] **STRUCTURATION DE MACROMOLECULES TENSIOACTIVES**

[72] HEDHAMMAR, MY, SE

[72] GUSTAFSSON, LINNEA, SE

[72] JANSSON, RONNIE, SE

[72] VAN DER WIJNGAART, WOUTER, SE

[71] SPIBER TECHNOLOGIES AB, SE

[85] 2020-03-06

[86] 2018-09-26 (PCT/EP2018/076066)

[87] (WO2019/063590)

[30] EP (17193218.9) 2017-09-26

[21] **3,075,226**  
[13] A1

[51] **Int.Cl. A23K 40/35 (2016.01) A23K 50/10 (2016.01) A23K 50/15 (2016.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR IMPROVING NITROGEN UTILIZATION IN A RUMINANT**

[54] **COMPOSITIONS ET PROCEDES PERMETTANT D'AMELIORER L'UTILISATION D'AZOTE CHEZ UN RUMINANT**

[72] HAUSSNER, THOMAS, DE

[72] FISCHER, FRANK, DE

[72] BORCHERS, GEORG, DE

[72] KOTTKE, ULRIKE, DE

[72] KOBLER, CHRISTOPH, DE

[72] BORGMANN, CORNELIA, DE

[72] PORTNER, KARSTEN, DE

[71] EVONIK OPERATIONS GMBH, DE

[85] 2020-03-06

[86] 2018-09-27 (PCT/EP2018/076234)

[87] (WO2019/063678)

[30] EP (17193721.2) 2017-09-28

[21] **3,075,227**  
[13] A1

[51] **Int.Cl. G01R 33/30 (2006.01)**

[25] EN

[54] **NMR ARRANGEMENT AND METHOD FOR TRANSPORTING A SAMPLE TUBE IN AN NMR ARRANGEMENT**

[54] **AGENCEMENT RMN ET PROCEDE DE TRANSPORT D'UN TUBE D'ECHANTILLON DANS UN AGENCEMENT RMN**

[72] BANGEMANN, RICO, DE

[72] KASTNER, ANDREAS, DE

[72] ENDERS, WOLF-DIETER, DE

[72] NIGGL, LUTZ, DE

[72] ZUCKER, MAXIMILIAN, DE

[71] NUMARES AG, DE

[85] 2020-03-06

[86] 2018-11-16 (PCT/EP2018/081489)

[87] (WO2019/096963)

[30] DE (10 2017 220 605.5) 2017-11-17

[21] **3,075,228**  
[13] A1

[51] **Int.Cl. A23B 4/28 (2006.01)**

[25] EN

[54] **NEEDLE REGISTER**

[54] **SYSTEME D'AIGUILLES**

[72] DANWERTH, PETER J., DE

[71] SCHRODER MASCHINENBAU GMBH & CO. KG, DE

[85] 2020-03-03

[86] 2018-08-21 (PCT/EP2018/072540)

[87] (WO2019/042821)

[30] EP (17189274.8) 2017-09-04

[21] **3,075,229**  
[13] A1

[51] **Int.Cl. A24D 1/14 (2006.01) A24F 47/00 (2020.01)**

[25] EN

[54] **EVAPORATION DEVICES CONTAINING PLANT MATERIAL**

[54] **DISPOSITIFS D'EVAPORATION CONTENANT UNE MATIERE VEGETALE**

[72] ENGQVIST, HAKAN, SE

[71] EMP LICURE AB, SE

[85] 2020-03-06

[86] 2018-09-07 (PCT/GB2018/052554)

[87] (WO2019/048880)

[30] GB (1714412.2) 2017-09-07

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[21] **3,075,230**  
[13] A1

[51] **Int.Cl. G01T 1/04 (2006.01)**  
[25] FR  
[54] **DEVICE FOR OPTICALLY MEASURING DOSES OF RADIATION ABSORBED BY A GEL DOSIMETER BY MEANS OF POLARIZED LIGHT**  
[54] **DISPOSITIF DE MESURE OPTIQUE PAR LUMIERE POLARISEE DE DOSES D'IRRADIATION ABSORBEE PAR UN GEL DOSIMETRIQUE**  
[72] BLEUSE, OLIVIER, FR  
[72] BAILLY, YANNICK, FR  
[72] GSCHWIND, REGINE, FR  
[72] MAKOVICKA, LIBOR, FR  
[72] LAURENT, KEVIN, FR  
[72] GUERMEUR, FRANCOIS, FR  
[71] UNIVERSITE DE FRANCHE-COMTE, FR  
[85] 2020-03-05  
[86] 2018-09-07 (PCT/FR2018/052193)  
[87] (WO2019/048796)  
[30] FR (1758268) 2017-09-07

[21] **3,075,231**  
[13] A1

[51] **Int.Cl. G01N 27/416 (2006.01) A61B 5/00 (2006.01) G01N 27/414 (2006.01)**  
[25] EN  
[54] **PH SENSOR AND CALIBRATION METHOD FOR THE PH SENSOR**  
[54] **CAPTEUR DE PH ET PROCEDE D'ETALONNAGE DU CAPTEUR DE PH**  
[72] MORGAN, HYWEL, GB  
[72] MINGELS, ROEL, GB  
[71] UNIVERSITY OF SOUTHAMPTON, GB  
[85] 2020-03-06  
[86] 2018-09-13 (PCT/GB2018/052612)  
[87] (WO2019/053442)  
[30] GB (1714735.6) 2017-09-13

[21] **3,075,232**  
[13] A1

[51] **Int.Cl. B01F 5/06 (2006.01)**  
[25] EN  
[54] **STATIC MIXING DEVICES AND METHOD OF MANUFACTURE**  
[54] **MELANGEURS STATIQUES ET PROCEDE DE FABRICATION**  
[72] NIEUWOUDT, IZAK, US  
[72] ARMBRISTER, CLARENCE, US  
[71] KOCH-GLITSCH, LP, US  
[85] 2020-03-06  
[86] 2018-09-05 (PCT/IB2018/056785)  
[87] (WO2019/049050)

[21] **3,075,233**  
[13] A1

[51] **Int.Cl. H04N 21/854 (2011.01) H04N 21/8543 (2011.01) H04N 21/858 (2011.01) H04W 4/30 (2018.01) G06K 9/62 (2006.01) G06Q 30/02 (2012.01)**  
[25] EN  
[54] **GENERATING SEQUENTIAL VISUAL NARRATIVES**  
[54] **GENERATION DE NARRATIONS VISUELLES SEQUENTIELLES**  
[72] BETAN, NIR, CA  
[72] ROSE, REBECCA EVA, CA  
[72] HANBUCH, BRODIE, CA  
[71] STUDEO REALTY MARKETING INC., CA  
[85] 2020-03-06  
[86] 2018-09-06 (PCT/IB2018/056817)  
[87] (WO2019/049068)  
[30] US (62/555,376) 2017-09-07

[21] **3,075,234**  
[13] A1

[51] **Int.Cl. G10K 11/172 (2006.01) B64D 15/04 (2006.01) B64D 33/02 (2006.01) F02C 7/045 (2006.01) F02C 7/047 (2006.01)**  
[25] FR  
[54] **METHOD FOR MANUFACTURING A CELLULAR CORE FOR AN ACOUSTIC PANEL**  
[54] **PROCEDE DE FABRICATION D'UNE AME ALVEOLAIRE POUR PANNEAU ACOUSTIQUE**  
[72] BENARD, QUENTIN ALBAN  
GUILLAUME, FR  
[72] DIGEOS, VIRGINIE EMMANUELLE ANNE MARIE, FR  
[71] SAFRAN NACELLES, FR  
[85] 2020-03-05  
[86] 2018-09-04 (PCT/FR2018/052159)  
[87] (WO2019/048772)  
[30] FR (1758216) 2017-09-06

[21] **3,075,235**  
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01) A61P 1/00 (2006.01) A61P 31/04 (2006.01)**  
[25] EN  
[54] **NEW USE FOR TREATMENT OF CLOSTRIDIUM DIFFICILE INFECTIONS**  
[54] **NOUVEL UTILISATION POUR LE TRAITEMENT D'INFECTIONS PAR CLOSTRIDIUM DIFFICILE**  
[72] BIFFI, ANDREA, IT  
[71] SOFAR S.P.A., IT  
[85] 2020-03-06  
[86] 2018-09-12 (PCT/IB2018/056956)  
[87] (WO2019/053604)  
[30] IT (102017000101704) 2017-09-12

[21] **3,075,236**  
[13] A1

[51] **Int.Cl. A61K 36/752 (2006.01) A61K 36/60 (2006.01)**  
[25] EN  
[54] **METHOD FOR PREPARING A BOTANICAL EXTRACT OF ABSCISIC ACID**  
[54] **PROCEDE DE PREPARATION D'UN EXTRAIT BOTANIQUE D'ACIDE ABSCISSIQUE**  
[72] RULL PROUS, SANTIAGO, ES  
[72] MULA DALTELL, ANNA, ES  
[72] ROIG ALMIRALL, FRANCISCO JAVIER, ES  
[72] VILLAR GONZALEZ, AGUSTIN, ES  
[71] EUROMED, S.A., ES  
[85] 2020-03-06  
[86] 2018-09-17 (PCT/IB2018/057113)  
[87] (WO2019/053673)  
[30] EP (17382616.5) 2017-09-18

[21] **3,075,237**  
[13] A1

[51] **Int.Cl. F16H 61/431 (2010.01) F16H 61/47 (2010.01) H02G 1/04 (2006.01)**  
[25] EN  
[54] **HYDRAULIC APPARATUS FOR STRETCHING CONDUCTORS FOR POWER LINES**  
[54] **APPAREIL HYDRAULIQUE SERVANT A ETIRER DES CONDUCTEURS POUR DES LIGNES ELECTRIQUES**  
[72] OSCAR, ALBERTO, IT  
[72] PEDROCCHI, ROBERTO, IT  
[71] TESMEC S.P.A., IT  
[85] 2020-03-06  
[86] 2018-09-20 (PCT/IB2018/057258)  
[87] (WO2019/058301)  
[30] IT (102017000107028) 2017-09-25

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[21] **3,075,239**  
[13] A1

[51] **Int.Cl. B29C 63/10 (2006.01)**  
[25] EN  
[54] **TAPE APPLICATION DEVICE FOR HELICAL APPLICATION OF A TAPE ON A TUBE**  
[54] **DISPOSITIF D'APPLICATION DE BANDE POUR APPLICATION HELICOIDALE D'UNE BANDE SUR UN TUBE**  
[72] KLOOSTER, VAN DER, JOS, NL  
[71] COMPOVATION PIPELINE B.V., NL  
[85] 2020-01-17  
[86] 2018-07-16 (PCT/NL2018/050491)  
[87] (WO2019/017777)  
[30] NL (2019282) 2017-07-19

[21] **3,075,240**  
[13] A1

[51] **Int.Cl. C07F 7/28 (2006.01) C07F 7/10 (2006.01) C08F 2/38 (2006.01) C08F 4/646 (2006.01) C08F 4/659 (2006.01) C08F 4/6592 (2006.01) C08F 10/02 (2006.01) C08F 36/20 (2006.01) C08F 210/16 (2006.01)**  
[25] EN  
[54] **NOVEL INDENE-BASED TRANSITION METAL COMPOUND, TRANSITION METAL CATALYST COMPOSITION COMPRISING SAME, AND METHOD FOR PREPARING ETHYLENE HOMOPOLYMER OR COPOLYMER OF ETHYLENE AND .ALPHA.-OLEFIN BY USING SAME**  
[54] **NOUVEAU COMPOSE DE METAL DE TRANSITION A BASE D'INDENE, COMPOSITION DE CATALYSEUR DE METAL DE TRANSITION LE CONTENANT, ET PROCEDE DE PREPARATION D'HOMOPOLYMERE OU DE COPOLYMERE D'ETHYLENE ET D'.ALPHA.-OLEFINE EN UTILISANT CETTE COMPOSITION**  
[72] SHIN, DONG-CHEOL, KR  
[72] OH, YEONOCK, KR  
[71] SABIC SK NEXLENE COMPANY PTE. LTD., SG  
[85] 2020-03-06  
[86] 2018-09-28 (PCT/IB2018/057534)  
[87] (WO2019/064247)  
[30] KR (10-2017-0127528) 2017-09-29  
[30] KR (10-2018-0115040) 2018-09-27

[21] **3,075,242**  
[13] A1

[51] **Int.Cl. C07D 209/48 (2006.01) H01M 4/137 (2010.01) H01M 10/056 (2010.01) C08G 75/14 (2006.01)**  
[25] FR  
[54] **SULFUR-CONTAINING COMPOUNDS AND POLYMERS AND THE USE THEREOF IN ELECTROCHEMICAL CELLS**  
[54] **POLYMERES ET COMPOSES SOUFRES ET LEUR UTILISATION DANS LES CELLULES ELECTROCHIMIQUES**  
[72] LEVESQUE-BELANGER, RACHEL, CA  
[72] PAOLELLA, ANDREA, CA  
[72] DAIGLE, JEAN-CHRISTOPHE, CA  
[72] COMMARIEU, BASILE, CA  
[72] ARMAND, MICHEL, FR  
[72] ZAGHIB, KARIM, CA  
[71] HYDRO-QUEBEC, CA  
[85] 2020-03-06  
[86] 2018-10-02 (PCT/CA2018/051239)  
[87] (WO2019/068182)  
[30] CA (2,981,012) 2017-10-02

[21] **3,075,244**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61B 5/113 (2006.01) A61M 16/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR TRACKING SPONTANEOUS BREATHING IN A MECHANICALLY VENTILATED PATIENT**  
[54] **SYSTEMES ET PROCEDES DE SUIVI DE LA RESPIRATION SPONTANEE CHEZ UN PATIENT VENTILE MECANIQUEMENT**  
[72] ELIA, LIRON, IL  
[72] IDAN, GAVRIEL J., IL  
[71] ART MEDICAL LTD., IL  
[85] 2020-03-06  
[86] 2018-09-05 (PCT/IL2018/050987)  
[87] (WO2019/058362)  
[30] US (62/560,723) 2017-09-20  
[30] US (16/000,922) 2018-06-06

[21] **3,075,245**  
[13] A1

[51] **Int.Cl. F16L 5/04 (2006.01) F16L 5/08 (2006.01)**  
[25] EN  
[54] **A SAFETY DEVICE FOR PASSAGE OF PIPES ON BOATS**  
[54] **DISPOSITIF DE SECURITE POUR LE PASSAGE DE TUYAUX SUR DES BATEAUX**  
[72] LOMBARDI, LUCIANO, IT  
[71] LOMBARDI, LUCIANO, IT  
[71] SPITA, BARBARA, IT  
[85] 2020-03-06  
[86] 2018-09-26 (PCT/IB2018/057433)  
[87] (WO2019/064191)  
[30] IT (102017000107809) 2017-09-26  
[30] IT (102018000007599) 2018-07-27

[21] **3,075,246**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 8/64 (2006.01) A61P 17/00 (2006.01) A61P 17/16 (2006.01) A61P 39/00 (2006.01) A61Q 17/00 (2006.01)**  
[25] FR  
[54] **USE OF SCLERITINE AS AGENT FOR PROTECTING CELLS AGAINST TOXIC AGENTS**  
[54] **UTILISATION DE LA SCLERITINE EN TANT QU'AGENT PROTECTEUR DE CELLULES CONTRE DES AGENTS TOXIQUES**  
[72] BENCHAOUIR, RACHID, FR  
[72] BUCLEZ, PIERRE-OLIVIER, FR  
[71] CENTRE SCIENTIFIQUE DE MONACO, MC  
[71] CORALIOTECH, MC  
[85] 2020-03-05  
[86] 2018-09-11 (PCT/EP2018/074455)  
[87] (WO2019/048703)  
[30] FR (17 58347) 2017-09-11

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[21] **3,075,247**  
[13] A1

[51] **Int.Cl. G01C 21/34 (2006.01) G01C 21/26 (2006.01) G08G 1/0969 (2006.01)**

[25] EN

[54] **DRIVING ASSISTANCE METHOD AND DRIVING ASSISTANCE DEVICE**

[54] **PROCEDE D'AIDE A LA CONDUITE ET DISPOSITIF D'AIDE A LA CONDUITE**

[72] HATAYAMA, JUNICHI, JP  
[71] NISSAN MOTOR CO., LTD., JP  
[85] 2020-03-06  
[86] 2017-09-08 (PCT/JP2017/032524)  
[87] (WO2019/049323)

[21] **3,075,248**  
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 21/3577 (2014.01) G01N 21/59 (2006.01)**

[25] EN

[54] **ANALYSIS DEVICE AND ANALYSIS METHOD**

[54] **DISPOSITIF D'ANALYSE ET PROCEDE D'ANALYSE**

[72] NISHIMURA, KAZUYA, JP  
[72] DOI, YOSUKE, JP  
[72] FUKUMOTO, YUKO, JP  
[72] WU, SHIQIN, JP  
[71] ALFRESA PHARMA CORPORATION, JP  
[85] 2020-03-06  
[86] 2018-03-02 (PCT/JP2018/008048)  
[87] (WO2019/049395)  
[30] JP (2017-173405) 2017-09-08

[21] **3,075,249**  
[13] A1

[51] **Int.Cl. G10L 15/28 (2013.01) H04H 20/28 (2009.01) G10L 19/018 (2013.01) G06F 3/16 (2006.01) G10L 15/00 (2013.01)**

[25] EN

[54] **INFORMATION PROCESSING APPARATUS AND INFORMATION PROCESSING METHOD**

[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS ET PROCEDE DE TRAITEMENT D'INFORMATIONS**

[72] YAMAGISHI, YASUAKI, JP  
[71] SONY CORPORATION, JP  
[85] 2020-03-06  
[86] 2018-08-31 (PCT/JP2018/032323)  
[87] (WO2019/054199)  
[30] JP (2017-177754) 2017-09-15

[21] **3,075,250**  
[13] A1

[51] **Int.Cl. H04W 16/14 (2009.01) H04W 72/08 (2009.01)**

[25] EN

[54] **INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, PROGRAM, AND WIRELESS COMMUNICATION APPARATUS**

[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCEDE DE TRAITEMENT D'INFORMATIONS, PROGRAMME, ET DISPOSITIF DE COMMUNICATION SANS FIL**

[72] FURUICHI, SHO, JP  
[71] SONY CORPORATION, JP  
[85] 2020-03-06  
[86] 2018-08-30 (PCT/JP2018/032085)  
[87] (WO2019/054186)  
[30] JP (2017-175455) 2017-09-13

[21] **3,075,251**  
[13] A1

[51] **Int.Cl. C12N 15/12 (2006.01) A61K 47/66 (2017.01) A61K 47/68 (2017.01) A61K 35/12 (2015.01) A61K 38/48 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01) A61P 1/02 (2006.01) A61P 1/04 (2006.01) A61P 1/18 (2006.01) A61P 9/02 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 13/08 (2006.01) A61P 13/12 (2006.01) A61P 15/00 (2006.01) A61P 25/18 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 14/81 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12P 21/02 (2006.01) A61K 49/00 (2006.01)**

[25] EN

[54] **PEPTIDES INHIBITING KLK1, KLK4, OR KLK4 AND KLK8**

[54] **PEPTIDES INHIBITEURS DE KLK1, KLK4 OU KLK4 ET KLK8**

[72] NISHIMIYA, DAISUKE, JP  
[72] TAMURA, MASAKAZU, JP  
[71] DAIICHI SANKYO COMPANY LIMITED, JP  
[85] 2020-03-06  
[86] 2018-09-06 (PCT/JP2018/033037)  
[87] (WO2019/049933)  
[30] JP (2017-171776) 2017-09-07

[21] **3,075,252**  
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/65 (2017.01) A61K 38/09 (2006.01)**

[25] EN

[54] **LONG-ACTING PALMITIC ACID-CONJUGATED GNRH DERIVATIVE AND PHARMACEUTICAL COMPOSITIONS CONTAINING SAME**

[54] **DERIVE DE GNRH CONJUGUE A DE L'ACIDE PALMITIQUE A ACTION PROLONGEE ET COMPOSITION PHARMACEUTIQUE CONTENANT CELUI-CI**

[72] JIN, DONG KYU, KR  
[71] NOVEL PHARMA INC., KR  
[85] 2020-03-06  
[86] 2018-06-20 (PCT/KR2018/006954)  
[87] (WO2019/066199)  
[30] KR (10-2017-0125291) 2017-09-27

[21] **3,075,253**  
[13] A1

[51] **Int.Cl. G06N 99/00 (2019.01)**

[25] EN

[54] **QUANTUM ERROR CORRECTION**

[54] **CORRECTION D'ERREUR QUANTIQUE**

[72] FOWLER, AUSTIN GREIG, US  
[71] GOOGLE LLC, US  
[85] 2020-03-06  
[86] 2017-09-12 (PCT/US2017/051193)  
[87] (WO2019/054990)

[21] **3,075,254**  
[13] A1

[51] **Int.Cl. C11D 17/06 (2006.01) C11D 17/04 (2006.01)**

[25] EN

[54] **LAUNDRY SHEET**

[54] **FEUILLE DE LESSIVE**

[72] CHO, MIN-SEOK, KR  
[72] CHA, KYUNG-ON, KR  
[72] KWAK, SANG-WOON, KR  
[71] LG HOUSEHOLD & HEALTH CARE LTD., KR  
[85] 2020-03-06  
[86] 2018-09-07 (PCT/KR2018/010514)  
[87] (WO2019/050341)  
[30] KR (10-2017-0114878) 2017-09-08

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[21] **3,075,255**  
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) B63B 21/27 (2006.01) E02D 23/00 (2006.01) E02D 27/10 (2006.01) E02D 27/50 (2006.01) E02D 27/52 (2006.01) E21B 33/035 (2006.01)**

[25] EN

[54] **MARINE SUCTION ANCHOR**

[54] **ANCRE MARINE A ASPIRATION**

[72] REINAS, LORENTS, NO

[72] ELLINGSEN, KJELL EINAR, NO

[72] EIDE, ASLE, NO

[72] EIDENSEN, BJORGULF HAUKEIDSATER, NO

[72] NESSE, HARALD SIGURD, NO

[72] VANGSNES, ROGER, NO

[72] SATHER, MORTEN, NO

[71] EQUINOR ENERGY AS, NO

[85] 2020-03-06

[86] 2018-01-23 (PCT/NO2018/050015)

[87] (WO2019/050410)

[30] GB (1714402.3) 2017-09-07

[21] **3,075,256**  
[13] A1

[51] **Int.Cl. A01B 35/22 (2006.01)**

[25] EN

[54] **QUICK-FIT COUPLING FOR A WEARING PART OF A SOIL-WORKING TOOL**

[54] **ELEMENT D'ACCOUPLLEMENT A MONTAGE RAPIDE POUR UNE PIECE D'USURE D'UN OUTIL DE TRAVAIL DU SOL**

[72] FURRE, ARNOLD, NO

[72] SOLVBERG, ERLEND, NO

[72] EGELAND, OYVIND, NO

[71] KVERNELAND GROUP OPERATIONS NORWAY AS, NO

[85] 2020-03-06

[86] 2018-11-07 (PCT/NO2018/050267)

[87] (WO2019/093902)

[30] EP (17200596.9) 2017-11-08

[21] **3,075,257**  
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/122 (2006.01) A61K 31/343 (2006.01) A61K 31/353 (2006.01) A61K 31/4192 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **5-LIPOXYGENASE ANTAGONISTS**

[54] **ANTAGONISTES DE 5-LIPOXYGENASE**

[72] BERNARDES, GONCALO, PT

[72] RODRIGUES, TIAGO, PT

[71] INSTITUTO DE MEDICINA MOLECULAR JOAO LOBO ANTUNES, PT

[85] 2020-03-06

[86] 2018-09-06 (PCT/PT2018/050029)

[87] (WO2019/050422)

[30] GB (1714496.5) 2017-09-08

[21] **3,075,258**  
[13] A1

[51] **Int.Cl. G07F 1/04 (2006.01) F16L 27/12 (2006.01) G07D 1/00 (2006.01)**

[25] EN

[54] **A COIN HANDLING APPARATUS**

[54] **APPAREIL DE MANIPULATION DE PIECES DE MONNAIE**

[72] BENGTTSSON, KRISTIAN, SE

[72] WALLMAN-CARLSSON, VICTOR, SE

[72] WIGENSTAM, DAN, SE

[71] SCAN COIN AB, SE

[85] 2020-03-06

[86] 2018-08-29 (PCT/SE2018/050863)

[87] (WO2019/050452)

[30] SE (1751101-5) 2017-09-11

[21] **3,075,259**  
[13] A1

[51] **Int.Cl. C02F 1/02 (2006.01)**

[25] EN

[54] **FLUID TREATMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE FLUIDES**

[72] CLEGG, BENJAMIN, US

[71] PURESTREAM SERVICES, LLC, US

[85] 2020-03-06

[86] 2018-08-24 (PCT/US2018/047873)

[87] (WO2019/060087)

[30] US (62/560,916) 2017-09-20

[21] **3,075,260**  
[13] A1

[51] **Int.Cl. G01V 1/32 (2006.01)**

[25] EN

[54] **FALSE IMAGE REMOVAL IN REVERSE TIME MIGRATION**

[54] **ELIMINATION D'UNE IMAGE FAUSSE EN MIGRATION A REBOURS**

[72] YANG, JIARUI, CN

[72] FEI, TONG WANG, SA

[72] LUO, YI, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049834)

[87] (WO2019/051151)

[30] US (15/701,038) 2017-09-11

[21] **3,075,261**  
[13] A1

[51] **Int.Cl. F42C 17/04 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR INDUCTIVE PROGRAMMING OF A FUZE**

[54] **PROCEDE ET SYSTEME DE PROGRAMMATION INDUCTIVE D'UNE FUSEE**

[72] LARSSON, JONAS, SE

[72] OLSSON, MIKAEL, SE

[72] SARNMAR, THOMAS, SE

[71] BAE SYSTEMS BOFORS AB, SE

[85] 2020-03-06

[86] 2018-09-12 (PCT/SE2018/050925)

[87] (WO2019/066697)

[30] SE (1700228-8) 2017-09-28

[21] **3,075,262**  
[13] A1

[51] **Int.Cl. B29B 17/04 (2006.01) B29B 17/02 (2006.01)**

[25] EN

[54] **TIRE DOWNSIZING APPARATUS**

[54] **APPAREIL ET PROCEDE DE REDUCTION DE DIMENSION DE PNEUMATIQUE**

[72] SALVADORI, SAMUEL, IT

[71] TECHNICAL RUBBER COMPANY, INC., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049892)

[87] (WO2019/051186)

[30] US (62/556,263) 2017-09-08

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[21] **3,075,263**  
[13] A1

[51] **Int.Cl. H04W 88/06 (2009.01) H04L 29/04 (2006.01)**

[25] EN

[54] **NETWORK BONDING FOR MEDICAL IMAGE STREAMING FROM A MOBILE SYSTEM**

[54] **LIAISON DE RESEAU POUR UNE DIFFUSION CONTINUE D'IMAGES MEDICALES DEPUIS UN SYSTEME MOBILE**

[72] NEVILLE, CODY, US

[71] WELSH FAMILY LIMITED PARTNERSHIP D/B/A POINT OF CARE, US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049968)

[87] (WO2019/051239)

[30] US (62/555,217) 2017-09-07

[21] **3,075,264**  
[13] A1

[51] **Int.Cl. B27K 5/02 (2006.01) B27K 5/04 (2006.01) B27K 5/06 (2006.01)**

[25] EN

[54] **SELECTIVELY DEPOLYMERIZING CELLULOSIC MATERIALS FOR USE AS THERMAL AND ACOUSTIC INSULATORS**

[54] **DEPOLYMERISATION SELECTIVE DE MATERIAUX CELLULOSIQUES DESTINES A ETRE UTILISES EN TANT QU'ISOLANTS THERMIQUES ET ACOUSTIQUES**

[72] JOLLY, TANNER, US

[72] URIZAR, JOSE, US

[71] DTE MATERIALS INCORPORATED, US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049934)

[87] (WO2019/051212)

[30] US (62/555,899) 2017-09-08

[30] US (62/676,812) 2018-05-25

[21] **3,075,265**  
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) G16H 50/00 (2018.01) G16B 20/00 (2019.01)**

[25] EN

[54] **METHOD OF USING BIOMARKERS AND CLINICAL VARIABLES FOR PREDICTING CHEMOTHERAPY BENEFIT**

[54] **PROCEDE D'UTILISATION DE BIOMARQUEURS ET DE VARIABLES CLINIQUES POUR PREDIRE L'INTERET D'UNE CHIMIOTHERAPIE**

[72] GUTIN, ALEXANDER, US

[72] REID, JULIA, US

[72] KRONENWETT, RALF, US

[72] SCHEER, MARSEL, US

[71] MYRIAD GENETICS, INC., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/050014)

[87] (WO2019/051266)

[30] US (62/555,738) 2017-09-08

[21] **3,075,266**  
[13] A1

[25] EN

[54] **SYSTEM AND METHOD FOR PREDICTING RELATEDNESS IN A HUMAN POPULATION**

[54] **SYSTEME ET PROCEDE DE PREDICTION DE PARENTE DANS UNE POPULATION HUMAINE**

[72] STAPLES, JEFFREY, US

[72] HABEGGER, LUKAS, US

[72] REID, JEFFREY, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/049960)

[87] (WO2019/051233)

[30] US (62/555,597) 2017-09-07

[21] **3,075,267**  
[13] A1

[51] **Int.Cl. C12Q 1/04 (2006.01) G01N 21/64 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR FLOW CYTOMETRY FLUORESCENT DETECTION OF REACTIVE MATERIALS IN VISCOUS NON-FILTERABLE MATERIALS**

[54] **PROCEDE ET SYSTEME DE DETECTION DE FLUORESCENCE PAR CYTOMETRIE DE FLUX DE MATERIAUX REACTIFS DANS DES MATERIAUX VISQUEUX NON FILTRABLES**

[72] CAPUTO, ROSS A., US

[71] EAGLE ANALYTICAL SERVICES, INC., US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/050021)

[87] (WO2019/051272)

[21] **3,075,268**  
[13] A1

[51] **Int.Cl. A61K 39/02 (2006.01) A61K 35/66 (2015.01)**

[25] EN

[54] **BACTERIAL EXTRACELLULAR VESICLES**

[54] **VESICULES EXTRACELLULAIRES (EV) BACTERIENNES**

[72] GOODMAN, BRIAN, US

[72] BOSE, BAUNDAUNA, US

[72] DAVITT, CHRISTOPHER J. H., US

[71] EVELO BIOSCIENCES, INC., US

[85] 2020-03-06

[86] 2018-09-10 (PCT/US2018/050211)

[87] (WO2019/051380)

[30] US (62/556,015) 2017-09-08

[30] US (62/669,151) 2018-05-09

[21] **3,075,269**  
[13] A1

[51] **Int.Cl. B65G 47/76 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONVEYOR MAINTENANCE**

[54] **SYSTEME ET PROCEDE D'ENTRETIEN DE CONVOYEURS**

[72] ICE, KENNETH JAY, US

[71] AEGIS SORTATION LLC, US

[85] 2020-03-06

[86] 2018-09-07 (PCT/US2018/050025)

[87] (WO2019/051276)

[30] US (62/555,061) 2017-09-07

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[21] **3,075,270**  
[13] A1

[51] **Int.Cl. C07K 14/195 (2006.01) A61K 35/74 (2015.01) C12N 1/20 (2006.01)**

[25] EN

[54] **EXTRACELLULAR VESICLES FROM PREVOTELLA**

[54] **VESICULES EXTRACELLULAIRES PROVENANT DE PREVOTELLA**

[72] GOODMAN, BRIAN, US

[72] BOSE, BAUNDAUNA, US

[72] DAVITT, CHRISTOPHER J. H., US

[72] CARLTON, SOFIA M. R., US

[72] CAFFRY, WILL, US

[72] WU, HANK, US

[71] EVELO BIOSCIENCES, INC., US

[85] 2020-03-06

[86] 2018-09-10 (PCT/US2018/050212)

[87] (WO2019/051381)

[30] US (62/556,020) 2017-09-08

[30] US (62/632,859) 2018-02-20

[30] US (62/668,556) 2018-05-08

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[21] **3,075,271**  
[13] A1

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 9/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **METHODS OF USING DIPIVEFRIN**

[54] **PROCEDES D'UTILISATION DE LA DIPIVEFRINE**

[72] ZHANG, MINGBAO, US

[71] INSIGNIS THERAPEUTICS, INC., US

[85] 2020-03-06

[86] 2018-09-10 (PCT/US2018/050223)

[87] (WO2019/051387)

[30] US (62/555,854) 2017-09-08

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[21] **3,075,272**  
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) B08B 7/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS TO PREVENT BIOFOULING**

[54] **APPAREIL ET PROCEDES POUR EMPECHER L'ENCRASSEMENT BIOLOGIQUE**

[72] WOELK, EGBERT, US

[71] INNOVENT TECHNOLOGIES, LLC, US

[85] 2020-03-06

[86] 2018-09-14 (PCT/US2018/051142)

[87] (WO2019/055823)

[30] US (62/559,971) 2017-09-18

[30] US (16/131,617) 2018-09-14

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[21] **3,075,274**  
[13] A1

[51] **Int.Cl. B65B 11/04 (2006.01) B25J 9/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ADAPTIVE BIN PICKING FOR MANUFACTURING**

[54] **SYSTEME ET PROCEDE DE PRELEVEMENT EN BAC ADAPTATIF POUR FABRICATION**

[72] ZAK, ALEXANDER, US

[71] MAGNA INTERNATIONAL INC., CA

[85] 2020-03-06

[86] 2018-09-20 (PCT/US2018/051924)

[87] (WO2019/060529)

[30] US (62/560,968) 2017-09-20

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[21] **3,075,276**  
[13] A1

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 21/10 (2006.01) E21B 44/00 (2006.01)**

[25] EN

[54] **ROTATING CONTROL DEVICE**

[54] **DISPOSITIF DE COMMANDE ROTATIF**

[72] TRAN, LAP, US

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2020-03-06

[86] 2018-09-17 (PCT/US2018/051270)

[87] (WO2019/060233)

[30] US (62/560,651) 2017-09-19

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[21] **3,075,277**  
[13] A1

[51] **Int.Cl. G01T 1/204 (2006.01) G01T 1/208 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EMULATING SCINTILLATION EVENTS USING AN ELECTRONIC TEST SOURCE**

[54] **SYSTEMES ET PROCEDES D'EMULATION D'EVENEMENTS DE SCINTILLATION AU MOYEN D'UNE SOURCE D'ESSAI ELECTRONIQUE**

[72] HARAZIN, RICHARD, US

[71] PERKINELMER HEALTH SCIENCES, INC., US

[85] 2020-03-06

[86] 2018-09-14 (PCT/US2018/051116)

[87] (WO2019/055805)

[30] US (62/559,064) 2017-09-15

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[21] **3,075,278**  
[13] A1

[51] **Int.Cl. H02K 41/02 (2006.01) G01N 21/84 (2006.01)**

[25] EN

[54] **OPTICAL SENSING, NON-TETHERED LOCATION MONITORING SYSTEMS AND METHODS OF USE**

[54] **SYSTEMES DE SURVEILLANCE D'EMPLACEMENT NON CAPTIFS A DETECTION OPTIQUE ET LEURS PROCEDES D'UTILISATION**

[72] MARZANO, DOMENIC P., US

[71] VELOCITY MAGNETICS, INC., US

[85] 2020-03-06

[86] 2018-09-10 (PCT/US2018/050259)

[87] (WO2019/051409)

[30] US (62/555,967) 2017-09-08

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[21] **3,075,279**  
[13] A1

[51] **Int.Cl. C12N 15/74 (2006.01) C12P 7/24 (2006.01) C12P 7/40 (2006.01)**

[25] EN

[54] **GENETIC KNOCKOUTS IN WOOD-LJUNGDAHL MICROORGANISMS**

[54] **BLOQUAGES GENETIQUES CHEZ LES MICRO-ORGANISMES A VOIE DE WOOD-LJUNGDAHL**

[72] DANIELL, JAMES, US

[71] LANZATECH, INC., US

[85] 2020-03-06

[86] 2018-09-28 (PCT/US2018/053587)

[87] (WO2019/068011)

[30] US (62/565,000) 2017-09-28

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[21] **3,075,280**  
[13] A1

[51] **Int.Cl. C40B 50/06 (2006.01) C12Q 1/6869 (2018.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01) C40B 40/06 (2006.01)**

[25] EN

[54] **SELECTIVE LABELING OF 5-METHYLCYTOSINE IN CIRCULATING CELL-FREE DNA**

[54] **MARQUAGE SELECTIF DE 5-METHYLCYTOSINE DANS UN ADN ACELLULAIRE CIRCULANT**

[72] SONG, CHUNXIAO, GB

[72] SIEJKA, PAULINA, GB

[71] LUDWIG INSTITUTE FOR CANCER RESEARCH LTD, CH

[85] 2020-03-06

[86] 2018-09-11 (PCT/US2018/050465)

[87] (WO2019/051484)

[30] US (62/556,718) 2017-09-11

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[21] **3,075,281**  
[13] A1

[51] **Int.Cl. H04W 72/12 (2009.01) H04W 52/02 (2009.01) H04L 5/00 (2006.01) H04W 72/04 (2009.01) H04L 27/26 (2006.01)**

[25] EN

[54] **CONFIGURATION ASPECTS OF A TRACKING REFERENCE SIGNAL IN NEW RADIO**

[54] **ASPECTS DE CONFIGURATION D'UN SIGNAL DE REFERENCE DE SUIVI DANS UNE TECHNOLOGIE NEW RADIO**

[72] NAM, WOOSEOK, US

[72] LUO, TAO, US

[72] MANOLAKOS, ALEXANDROS, US

[72] LEE, HEECHOON, US

[72] YANG, YANG, US

[72] GAAL, PETER, US

[71] QUALCOMM INCORPORATED, US

[85] 2020-03-06

[86] 2018-10-03 (PCT/US2018/054204)

[87] (WO2019/074742)

[30] US (62/569,940) 2017-10-09

[30] US (16/149,723) 2018-10-02

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[21] **3,075,282**  
[13] A1

[51] **Int.Cl. H04B 7/0456 (2017.01)**

[25] EN

[54] **PORT-TO-BEAM PRECODING TO ENABLE CODEBOOK BASED MU-MIMO OPERATION IN ACTIVE ANTENNA SYSTEMS**

[54] **PRECODAGE PORT-FAISCEAU POUR PERMETTRE UN FONCTIONNEMENT MU-MIMO BASE SUR UN LIVRE DE CODES DANS DES SYSTEMES D'ANTENNE ACTIVE**

[72] BETHANABHOTLA, DILIP, US

[72] NG, CHRIS TSUN KIT, US

[72] BANU, MIHAI, US

[71] BLUE DANUBE SYSTEMS, INC., US

[85] 2020-03-06

[86] 2018-09-12 (PCT/US2018/050595)

[87] (WO2019/055474)

[30] US (62/558,971) 2017-09-15

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[21] **3,075,283**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) G01M 3/32 (2006.01)**

[25] EN

[54] **EMBOSSSED FILM BIOPROCESSING CONTAINERS AND INTEGRITY TESTING OF BIOPROCESSING CONTAINERS**

[54] **RECIPIENTS DE BIOTRAITEMENT EN FILM GAUFRE ET TEST D'INTEGRITE DE RECIPIENTS DE BIOTRAITEMENT**

[72] PEREIRA, BRIAN, US

[72] PROULX, STEPHEN, US

[71] EMD MILLIPORE CORPORATION, US

[85] 2020-03-06

[86] 2018-09-27 (PCT/US2018/053109)

[87] (WO2019/070502)

[30] US (62/567,266) 2017-10-03

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[21] **3,075,284**  
[13] A1

[51] **Int.Cl. A23G 1/40 (2006.01) A23L 29/212 (2016.01) A23G 3/42 (2006.01) A23G 4/10 (2006.01)**

[25] EN

[54] **CHEWY CONFECTIONERY PRODUCT**

[54] **PRODUIT DE CONFISERIE A MACHER**

[72] HAVRANEK, JIRI, US

[72] JINDRICH, JOSEF, US

[72] KASPAROVA, KATERINA, US

[72] BARON, JIRI, US

[71] WM. WRIGLEY JR. COMPANY, US

[85] 2020-03-06

[86] 2018-09-13 (PCT/US2018/050838)

[87] (WO2019/055626)

[30] US (62/558,929) 2017-09-15

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[21] **3,075,285**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **ANTI-TREM2 ANTIBODIES AND METHODS OF USE THEREOF**  
[54] **ANTICORPS ANTI-TREM2 ET LEURS PROCEDES D'UTILISATION**  
[72] CHEN, HANG, US  
[72] DI PAOLO, GILBERT, US  
[72] HAO, RUI, US  
[72] LEWCOCK, JOSEPH W., US  
[72] NUGENT, ALICIA A., US  
[72] RAKHIT, RISHI, US  
[72] SHI, JU, US  
[72] SHUKLA, RINKAN, US  
[72] VAN LENGERICH, BETTINA, US  
[72] ZHANG, YIN, US  
[72] MOERKE, NATHAN, US  
[71] DENALI THERAPEUTICS INC., US  
[85] 2020-03-06  
[86] 2018-09-14 (PCT/US2018/051166)  
[87] (WO2019/055841)  
[30] US (62/558,803) 2017-09-14  
[30] US (62/583,379) 2017-11-08  
[30] US (62/621,380) 2018-01-24

[21] **3,075,286**  
[13] A1

[51] **Int.Cl. A61M 39/24 (2006.01)**  
[25] EN  
[54] **DUAL CHECK VALVE**  
[54] **CLAPET ANTI-RETOUR DOUBLE**  
[72] FEITH, RAYMOND, US  
[72] MANSOUR, GEORGE, US  
[71] CAREFUSION 303, INC., US  
[85] 2020-03-06  
[86] 2018-09-21 (PCT/US2018/052243)  
[87] (WO2019/060743)  
[30] US (62/562,347) 2017-09-22

[21] **3,075,287**  
[13] A1

[51] **Int.Cl. G02B 7/28 (2006.01) G01B 9/04 (2006.01) G02B 21/00 (2006.01) G06K 9/20 (2006.01)**  
[25] EN  
[54] **REAL-TIME AUTOFOCUS FOCUSING ALGORITHM**  
[54] **ALGORITHME DE MISE AU POINT AUTOMATIQUE EN TEMPS REEL**  
[72] OLSON, ALLEN, US  
[72] SALIGRAMA, KIRAN, US  
[72] ZOU, YUNLU, US  
[72] NAJMABADI, PEYMAN, US  
[71] LEICA BIOSYSTEMS IMAGING, INC., US  
[85] 2020-03-06  
[86] 2018-09-28 (PCT/US2018/053629)  
[87] (WO2019/068038)  
[30] US (62/566,145) 2017-09-29

[21] **3,075,288**  
[13] A1

[51] **Int.Cl. G02B 7/28 (2006.01) G01B 9/04 (2006.01) G01B 11/24 (2006.01) G02B 21/00 (2006.01) G06K 9/20 (2006.01) G06K 9/28 (2006.01)**  
[25] EN  
[54] **REAL-TIME AUTOFOCUS SCANNING**  
[54] **BALAYAGE DE MISE AU POINT AUTOMATIQUE EN TEMPS REEL**  
[72] CHEN, LENG-CHUN, US  
[72] OLSON, ALLEN, US  
[72] ZOU, YUNLU, US  
[72] NAJMABADI, PEYMAN, US  
[72] CRANDALL, GREG, US  
[71] LEICA BIOSYSTEMS IMAGING, INC., US  
[85] 2020-03-06  
[86] 2018-09-28 (PCT/US2018/053637)  
[87] (WO2019/068043)  
[30] US (62/566,155) 2017-09-29

[21] **3,075,289**  
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01) B01D 21/02 (2006.01) B65D 90/06 (2006.01) B65D 90/10 (2006.01) C02F 1/00 (2006.01) E04B 7/00 (2006.01) E04B 7/16 (2006.01) E04H 4/10 (2006.01) E04H 15/00 (2006.01)**  
[25] EN  
[54] **SLOPED SUNSHADE COVER**  
[54] **COUVERCLE PARE-SOLEIL INCLINE**  
[72] HOWE, BRENT, CA  
[71] EVOQUA WATER TECHNOLOGIES LLC, US  
[85] 2020-03-06  
[86] 2018-10-02 (PCT/US2018/053877)  
[87] (WO2019/070647)  
[30] US (62/566,579) 2017-10-02

[21] **3,075,290**  
[13] A1

[51] **Int.Cl. B22D 2/00 (2006.01) G01N 27/411 (2006.01) G01N 33/20 (2019.01)**  
[25] EN  
[54] **IMMERSION SENSOR FOR DETERMINING CHEMICAL COMPOSITION OF MOLTEN METAL**  
[54] **CAPTEUR D'IMMERSION PERMETTANT DE DETERMINER LA COMPOSITION CHIMIQUE D'UN METAL FONDU**  
[72] SASSO, PETERNEY, BR  
[72] DE SOUZA, EZEQUIAS JOSE, BR  
[71] VESUVIUS REFRACTORIOS LTDA., BR  
[85] 2020-03-06  
[86] 2018-10-05 (PCT/US2018/054625)  
[87] (WO2019/071137)  
[30] US (62/568,380) 2017-10-05

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[21] **3,075,291**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TREATING DIFFUSE LARGE B CELL LYMPHOMA**  
[54] **COMPOSITIONS ET METHODES POUR TRAITER UN LYMPHOME DIFFUS A GRANDES CELLULES B**  
[72] ZIMMERMAN, ZACHARY, US  
[72] ZHANG, XIAOHONG, ALICIA, US  
[72] HOLLAND, PETER, CHRISTOPHER, US  
[72] FRANKLIN, JANET, US  
[72] FRIBERG, GREGORY, US  
[71] MERCK SHARP & DOHME CORP., US  
[71] AMGEN INC., US  
[85] 2020-03-06  
[86] 2018-10-12 (PCT/US2018/055667)  
[87] (WO2019/075366)  
[30] US (62/571,870) 2017-10-13

[21] **3,075,292**  
[13] A1

[51] **Int.Cl. A61K 9/52 (2006.01) A61K 9/22 (2006.01) A61K 9/48 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL DOSAGE FORMS**  
[54] **FORMES POSOLOGIQUES PHARMACEUTIQUES**  
[72] AKCAN, OZGUR, US  
[72] HARRIS, STEPHEN, US  
[72] MANNION, RICHARD, US  
[71] PURDUE PHARMA L.P., US  
[85] 2020-03-06  
[86] 2018-10-19 (PCT/US2018/056724)  
[87] (WO2019/079729)  
[30] US (62/574,978) 2017-10-20

[21] **3,075,293**  
[13] A1

[51] **Int.Cl. B23K 9/29 (2006.01) B23K 9/32 (2006.01) F16L 11/118 (2006.01) F16L 57/02 (2006.01) H01B 9/00 (2006.01) H02G 3/04 (2006.01)**  
[25] EN  
[54] **WELDING CABLE ASSEMBLY, WELDING TORCH ASSEMBLY, AND ROBOTIC WELDING SYSTEM, WITH A SPRING MECHANICALLY COUPLED TO THE CABLE**  
[54] **ENSEMBLE CABLE DE SOUDAGE, ENSEMBLE CHALUMEAU SOUDEUR ET SYSTEME DE SOUDAGE ROBOTISE COMPORTANT UN RESSORT ACCOUPLE MECANIQUEMENT AU CABLE**  
[72] MA, TIEJUN, US  
[72] COSSETTE, ROMEO, US  
[72] WELLS, JEFFREY, US  
[72] MARCHAND, ANDREW, US  
[71] ILLINOIS TOOL WORKS INC., US  
[85] 2020-03-06  
[86] 2018-10-23 (PCT/US2018/056996)  
[87] (WO2019/083929)  
[30] US (62/576,397) 2017-10-24  
[30] US (16/166,852) 2018-10-22

[21] **3,075,294**  
[13] A1

[51] **Int.Cl. A61K 35/763 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR TREATING LIVER CANCER**  
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DU CANCER DU FOIE**  
[72] GANSERT, JENNIFER LORRAINE, US  
[72] MURUGAPPAN, SWAMINATHAN, US  
[72] WOLF, MICHAEL KEVIN, US  
[71] MERCK SHARP & DOHME CORP., US  
[71] AMGEN INC., US  
[85] 2020-03-06  
[86] 2018-10-26 (PCT/US2018/057731)  
[87] (WO2019/084418)  
[30] US (62/578,071) 2017-10-27

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[51] **Int.Cl. G09B 23/28 (2006.01)**  
[25] EN  
[54] **HYSTERECTOMY MODEL**  
[54] **MODELE D'HYSTERECTOMIE**  
[72] HOFSTETTER, GREGORY K., US  
[72] FERNANDEZ, ANYSA, US  
[71] APPLIED MEDICAL RESOURCES CORPORATION, US  
[85] 2020-03-06  
[86] 2018-11-14 (PCT/US2018/060926)  
[87] (WO2019/099448)  
[30] US (62/586,059) 2017-11-14

[21] **3,075,296**  
[13] A1

[51] **Int.Cl. F21V 8/00 (2006.01)**  
[25] EN  
[54] **BACKLIT TRANSPARENT DISPLAY, TRANSPARENT DISPLAY SYSTEM, AND METHOD**  
[54] **DISPOSITIF D'AFFICHAGE TRANSPARENT RETROECLAIRE, SYSTEME D'AFFICHAGE TRANSPARENT ET PROCEDE**  
[72] FATTAL, DAVID A., US  
[71] LEIA INC., US  
[85] 2020-03-09  
[86] 2017-10-27 (PCT/US2017/058854)  
[87] (WO2019/083549)

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[13] A1

[51] **Int.Cl. E21B 47/12 (2012.01) H04B 7/24 (2006.01)**  
[25] EN  
[54] **ELECTROMAGNETIC TELEMETRY USING ACTIVE ELECTRONDES**  
[54] **TELEMESURE ELECTROMAGNETIQUE UTILISANT DES ELECTRODES ACTIVES**  
[72] WILSON, GLENN ANDREW, US  
[72] URQUHART, SCOTT, US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2020-03-09  
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[25] EN  
[54] **ACOUSTIC ABATEMENT PANEL FABRICATION**  
[54] **FABRICATION DE PANNEAU DE REDUCTION ACOUSTIQUE**  
[72] PENN, TIMOTHY DUSTIN, US  
[72] FRITZ, MATTHEW SHAUN, US  
[72] BENBENEK, JANE ALICE, US  
[71] THE NORDAM GROUP LLC, US  
[85] 2020-03-09  
[86] 2018-08-22 (PCT/US2018/047467)  
[87] (WO2019/050680)  
[30] US (62/555,320) 2017-09-07

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[13] A1

[51] **Int.Cl. A61K 8/898 (2006.01) A61K 8/06 (2006.01) A61K 8/34 (2006.01) A61Q 5/00 (2006.01)**  
[25] EN  
[54] **HYDROUS HAIR CARE COMPOSITIONS AND METHODS**  
[54] **COMPOSITIONS HYDRATEES POUR SOINS CAPILLAIRES ET PROCEDES ASSOCIES**  
[72] KRZYSIK, DUANE, US  
[71] INNOSPEC LIMITED, GB  
[85] 2020-03-09  
[86] 2018-08-24 (PCT/US2018/047875)  
[87] (WO2019/060088)  
[30] US (62/562,653) 2017-09-25

[21] **3,075,300**  
[13] A1

[51] **Int.Cl. A61K 8/898 (2006.01) A61Q 5/12 (2006.01)**  
[25] EN  
[54] **HAIR CARE COMPOSITIONS AND METHODS**  
[54] **COMPOSITIONS ET METHODES DE SOINS DES CHEVEUX**  
[72] KRZYSIK, DUANE, US  
[72] GRIFFITHS, ROBERT, US  
[71] INNOSPEC LIMITED, GB  
[85] 2020-03-09  
[86] 2018-08-24 (PCT/US2018/047911)  
[87] (WO2019/060089)  
[30] US (62/562,653) 2017-09-25

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[51] **Int.Cl. H04L 29/06 (2006.01) H04W 4/08 (2009.01) H04W 4/10 (2009.01) H04W 84/08 (2009.01) H04W 76/45 (2018.01) G10L 15/00 (2013.01) H04M 3/493 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR RESPONDING TO AN AUDIO INQUIRY**  
[54] **PROCEDE ET DISPOSITIF DE REPONSE A UNE REQUETE AUDIO**  
[72] BESTOR, DANIEL R., US  
[72] TAN, CHUN MUN, MY  
[72] THAM, WAI LOON, MY  
[72] KEE, CHEW YEE, MY  
[72] ONG, CHIN KUAN, MY  
[72] BONDAREVA, MARIYA, US  
[72] TAN, HAN ZHONG, MY  
[72] CHUAN, LI LI, MY  
[72] TAN, WEI HAN, MY  
[72] ZASLOW, BENJAMIN, US  
[71] MOTOROLA SOLUTIONS, INC., US  
[85] 2020-03-09  
[86] 2018-08-29 (PCT/US2018/048489)  
[87] (WO2019/055213)  
[30] US (15/701,470) 2017-09-12

[21] **3,075,302**  
[13] A1

[51] **Int.Cl. C02F 11/02 (2006.01) C02F 11/18 (2006.01) C10B 47/18 (2006.01) C10B 47/22 (2006.01) C10G 1/02 (2006.01) C10G 1/06 (2006.01) C10G 45/16 (2006.01) C10G 45/56 (2006.01)**  
[25] EN  
[54] **METHODS FOR BIOLOGICAL PROCESSING OF HYDROCARBON-CONTAINING SUBSTANCES AND SYSTEM FOR REALIZATION THEREOF**  
[54] **PROCEDES DE TRAITEMENT BIOLOGIQUE DE SUBSTANCES CONTENANT DES HYDROCARBURES ET SYSTEME PERMETTANT LEUR MISE EN □UVRE**  
[72] FINNEY, JERRY WAYNE, US  
[71] MCFINNEY, LLC, US  
[85] 2020-03-09  
[86] 2018-09-07 (PCT/US2018/050031)  
[87] (WO2019/051280)  
[30] US (62/555,410) 2017-09-07  
[30] US (62/568,874) 2017-10-06

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[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/00 (2006.01)**  
[25] EN  
[54] **MULTI-EFFECTOR CRISPR BASED DIAGNOSTIC SYSTEMS**  
[54] **SYSTEMES DE DIAGNOSTIC A BASE DE CRISPR MULTI-EFFECTEUR**  
[72] ZHANG, FENG, US  
[72] GOOTENBERG, JONATHAN, US  
[72] ABUDAYYEH, OMAR, US  
[71] THE BROAD INSTITUTE, INC., US  
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2020-03-09  
[86] 2018-09-07 (PCT/US2018/050091)  
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[30] US (62/556,408) 2017-09-09  
[30] US (62/610,121) 2017-12-22  
[30] US (62/630,808) 2018-02-14

[21] **3,075,304**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**  
[25] EN  
[54] **RECYCLING APP FOR CROWD-SOURCED RECYCLING**  
[54] **APPLICATION DE RECYCLAGE POUR RECYCLAGE PARTICIPATIF**  
[72] RODONI, PHILIP, US  
[71] RUBICON GLOBAL HOLDINGS, LLC, US  
[85] 2020-03-09  
[86] 2018-09-08 (PCT/US2018/050121)  
[87] (WO2019/051340)  
[30] US (15/700,070) 2017-09-08

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[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/165 (2006.01)**  
[25] EN  
[54] **CXCR-2 INHIBITORS FOR TREATING DISORDERS**  
[54] **INHIBITEURS DE CXCR-2 POUR LE TRAITEMENT DE TROUBLES**  
[72] NANAVATI, PAYAL, US  
[72] HOEGSTEDT, JOHAN, US  
[72] HALL, JESSE, US  
[71] ARDEA BIOSCIENCES, INC., US  
[85] 2020-03-09  
[86] 2018-09-12 (PCT/US2018/050656)  
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[51] **Int.Cl. E04B 1/16 (2006.01) E04B 1/18 (2006.01) E04B 1/30 (2006.01) E04B 1/35 (2006.01) E04B 1/48 (2006.01) E04B 2/86 (2006.01) E04B 5/40 (2006.01) E04C 2/30 (2006.01) E04C 3/34 (2006.01) E04G 11/02 (2006.01) E04H 1/00 (2006.01)**

[25] EN  
[54] **BUILDING CONSTRUCTION METHOD**  
[54] **PROCEDE DE CONSTRUCTION DE BATIMENT**

[72] JACKSON, IAN, AU  
[71] IAVILAER PTY LTD, AU  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/AU2018/050977)  
[87] (WO2019/051538)  
[30] AU (2017903701) 2017-09-12  
[30] AU (2018901613) 2018-05-10

[21] **3,075,307**  
[13] A1

[51] **Int.Cl. F17C 1/10 (2006.01)**

[25] EN  
[54] **A METHOD OF CLADDING THE INTERIOR OF A COMPONENT PART OF A PRESSURE VESSEL AND DEVICE FOR FUSING A LINING TO IT**

[54] **PROCEDE DE GAINAGE DE LA PARTIE INTERIEURE D'UNE PARTIE CONSTITUTIVE D'UN RECIPIENT SOUS PRESSION ET DISPOSITIF DE FUSION D'UN REVETEMENT SUR CELUI-CI**

[72] CLARK, DANIEL, GB  
[72] GIUDICE, SEBASTIANO, GB  
[72] BOETTCHER, CARL, GB  
[71] ROLLS-ROYCE PLC, GB  
[71] ROLLS-ROYCE POWER ENGINEERING PLC, GB  
[85] 2020-03-09  
[86] 2018-08-20 (PCT/EP2018/072454)  
[87] (WO2019/052780)  
[30] GB (1714864.4) 2017-09-15

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[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01) C12P 1/04 (2006.01) C12P 1/06 (2006.01)**

[25] EN  
[54] **METHODS AND COMPOSITIONS FOR THE BIOLOGICAL CONTROL OF PLANT PATHOGENS**

[54] **PROCEDES ET COMPOSITIONS POUR LA LUTTE BIOLOGIQUE CONTRE DES AGENTS PATHOGENES DE PLANTE**

[72] ROPER, MARGARET, AU  
[72] THATCHER, LOUISE, AU  
[72] O'SULLIVAN, CATHRYN, AU  
[72] ANDERSON, JONATHAN, AU  
[72] MYERS, CINDY, AU  
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU  
[85] 2020-03-09  
[86] 2018-09-11 (PCT/AU2018/050982)  
[87] (WO2019/046909)  
[30] AU (2017903676) 2017-09-11  
[30] AU (2018902770) 2018-07-31

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[13] A1

[51] **Int.Cl. C08L 43/02 (2006.01) C08L 83/04 (2006.01)**

[25] EN  
[54] **AQUEOUS POLYMER COMPOSITION**

[54] **COMPOSITION AQUEUSE DE POLYMERE**

[72] QIAN, ZHEN, CN  
[72] CUI, WEI, CN  
[72] WANG, JINFEI, CN  
[72] XU, JIANMING, CN  
[72] LIU, JINTAO, CN  
[72] LI, LING, CN  
[72] ZHANG, JINGCHAO, CN  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[71] ROHM AND HAAS COMPANY, US  
[85] 2020-03-09  
[86] 2017-09-25 (PCT/CN2017/103161)  
[87] (WO2019/056361)

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[13] A1

[51] **Int.Cl. F41A 9/32 (2006.01) F41A 9/55 (2006.01) F42B 39/08 (2006.01)**

[25] EN  
[54] **MITRAILLEUSE**

[54] **MACHINE GUN**

[72] FRANSSEN, PASCAL MARCEL HENRI DENIS, BE  
[72] VERHAEGEN, DAMIEN NICOLE FREDDY, BE  
[72] BECKERS, ROBERT, BE  
[72] MICHOTTE, PAUL, BE  
[72] GODBILLE, ANTOINE, BE  
[71] FN HERSTAL S.A., BE  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/EP2018/074287)  
[87] (WO2019/048671)  
[30] EP (17190388.3) 2017-09-11  
[30] EP (17198582.3) 2017-10-26

[21] **3,075,313**  
[13] A1

[51] **Int.Cl. A61F 2/44 (2006.01) A61F 2/30 (2006.01) A61F 2/46 (2006.01)**

[25] EN  
[54] **INTERVERTEBRAL IMPLANT**

[54] **IMPLANT INTERVERTEBRAL**

[72] BARTHOLD, CLEMENS, DE  
[72] RIES, WOLFGANG, DE  
[72] DURR, ALEXANDER, DE  
[71] JOIMAX GMBH, DE  
[85] 2020-03-09  
[86] 2018-09-05 (PCT/EP2018/000426)  
[87] (WO2019/052681)  
[30] DE (10 2017 008 592.7) 2017-09-13

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[13] A1

[51] **Int.Cl. A47D 13/02 (2006.01)**

[25] EN  
[54] **CARRYING DEVICE FOR BABIES OR SMALL CHILDREN**

[54] **DISPOSITIF PORTEUR POUR BEBES OU PETITS ENFANTS**

[72] SCHACHTNER, PETRA, DE  
[71] SCHACHTNER VERMOGENSVERWALTUNGS GMBH & CO. KG, DE  
[85] 2020-03-09  
[86] 2018-08-29 (PCT/EP2018/073240)  
[87] (WO2019/048314)  
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[25] EN  
[54] **LED LAMP HAVING LIGHT GUIDE BODY**  
[54] **LAMPE A DEL DOTEE D'UN CORPS DE GUIDAGE DE LUMIERE**  
[72] ZHAO, HUANXING, CN  
[71] CHANGZHOU FUXING ELECTRICAL APPLIANCE CO., LTD, CN  
[85] 2020-03-09  
[86] 2018-08-13 (PCT/CN2018/100153)  
[87] (WO2019/034012)  
[30] CN (201710701221.5) 2017-08-16

[21] **3,075,319**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) F16K 99/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS, METHODS AND HYDROGELS FOR CELL CULTURE AND ANALYSIS**  
[54] **SYSTEMES, PROCEDES ET HYDROGELS POUR CULTURE ET ANALYSE DE CELLULE**  
[72] KLEINE-BRUGGENEY, HANS, DE  
[72] WEINGARTEN, ROBERT, DE  
[72] BUHREN, SEBASTIAN, DE  
[71] EVORION BIOTECHNOLOGIES GMBH, DE  
[85] 2020-03-09  
[86] 2018-09-11 (PCT/EP2018/074526)  
[87] (WO2019/048713)  
[30] EP (17190298.4) 2017-09-11  
[30] EP (17190299.2) 2017-09-11  
[30] US (62/623,772) 2018-01-30

[21] **3,075,323**  
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01)**  
[25] EN  
[54] **PROCESSES FOR THE ISOLATION OF A CANNABINOID EXTRACT AND PRODUCT FROM CANNABIS PLANT MATERIAL**  
[54] **PROCEDES POUR L'ISOLEMENT D'UN EXTRAIT DE CANNABINOIDE ET D'UN PRODUIT A PARTIR D'UN MATERIEL DE PLANTE DE CANNABIS**  
[72] DIJKSTRA, ALBERT JAN, FR  
[71] DIJKSTRA, ALBERT JAN, FR  
[85] 2020-03-09  
[86] 2018-08-30 (PCT/EP2018/073392)  
[87] (WO2019/052830)

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[13] A1

[51] **Int.Cl. C07D 209/12 (2006.01) A61K 31/404 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01)**  
[25] EN  
[54] **DEUTERIUM ATOM-SUBSTITUTED INDOLE FORMAMIDE DERIVATIVE, PREPARATION METHOD THEREFOR, AND MEDICAL APPLICATIONS THEREOF**  
[54] **DERIVE D'INDOLE-FORMAMIDE SUBSTITUEE PAR UN ATOME DE DEUTERIUM, SON PROCEDE DE PREPARATION ET SES APPLICATIONS MEDICALES**  
[72] LIU, DONG, CN  
[72] CHEN, LEI, CN  
[72] LU, BIAO, CN  
[72] LIU, SUXING, CN  
[72] ZHANG, RUMIN, CN  
[72] HE, FENG, CN  
[72] TAO, WEIKANG, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2020-03-09  
[86] 2018-09-11 (PCT/CN2018/105008)  
[87] (WO2019/052440)  
[30] CN (201710817140.1) 2017-09-12

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[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01) H01M 10/0525 (2010.01) H01M 10/48 (2006.01) H02J 7/00 (2006.01) H04Q 9/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR MONITORING AND REMOTELY CONTROLLING A STATE OF CHARGE OF AT LEAST ONE BATTERY PACK**  
[54] **SYSTEME ET PROCEDE POUR LA SURVEILLANCE ET LA COMMANDE A DISTANCE D'UN ETAT DE CHARGE D'AU MOINS UNE BATTERIE**  
[72] THANNHUBER, MARKUS, DE  
[71] EINHELL GERMANY AG, DE  
[85] 2020-03-09  
[86] 2018-09-25 (PCT/EP2018/075957)  
[87] (WO2019/063541)  
[30] DE (10 2017 122 734.2) 2017-09-29

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[13] A1

[51] **Int.Cl. A61B 8/14 (2006.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01) G06T 7/00 (2017.01) G06T 7/20 (2017.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR DETERMINING MOTION OF AN ULTRASOUND PROBE**  
[54] **APPAREIL ET PROCEDE POUR DETERMINER LE MOUVEMENT D'UNE SONDE ULTRASONORE**  
[72] SPRUNG, JULIAN, DE  
[72] BAUER, ROBERT, DE  
[72] PREVOST, RAPHAEL, DE  
[72] WEIN, WOLFGANG, DE  
[71] PIUR IMAGING GMBH, AT  
[71] IMFUSION GMBH, DK  
[85] 2020-03-09  
[86] 2018-09-05 (PCT/EP2018/073875)  
[87] (WO2019/048482)  
[30] AT (A60088/2017) 2017-09-07

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[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**  
[25] EN  
[54] **ANTIBODIES TARGETING CD137 AND METHODS OF USE THEREOF**  
[54] **ANTICORPS CIBLANT LE CD137 ET LEURS METHODES D'UTILISATION**  
[72] GUNDE, TEA, CH  
[72] BROCK, MATTHIAS, CH  
[72] HESS, CHRISTIAN, CH  
[72] SIMONIN, ALEXANDRE, FR  
[71] NUMAB THERAPEUTICS AG, CH  
[85] 2020-03-09  
[86] 2018-10-09 (PCT/EP2018/077514)  
[87] (WO2019/072870)  
[30] EP (17195780.6) 2017-10-10  
[30] EP (18167092.8) 2018-04-12  
[30] EP (18180815.5) 2018-06-29

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[13] A1

[51] **Int.Cl. F41A 9/32 (2006.01) F41A 9/59 (2006.01) F41A 9/60 (2006.01) F42B 39/08 (2006.01)**  
[25] EN  
[54] **MACHINE GUN**  
[54] **MITRAILLEUSE**  
[72] FRANSSSEN, PASCAL MARCEL HENRI DENIS, BE  
[72] VERHAEGEN, DAMIEN NICOLE FREDDY, BE  
[72] BECKERS, ROBERT, BE  
[72] MICHOTTE, PAUL, BE  
[72] GODBILLE, ANTOINE, BE  
[71] FN HERSTAL S.A., BE  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/EP2018/074285)  
[87] (WO2019/048669)  
[30] EP (17190388.3) 2017-09-11  
[30] EP (17198584.9) 2017-10-26

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[13] A1

[51] **Int.Cl. G08C 17/00 (2006.01)**  
[25] EN  
[54] **WIRELESS REMOTE CONTROL FOR THE WIRELESS REMOTE CONTROL OF A MACHINE, IN PARTICULAR A CRANE**  
[54] **APPAREIL DE RADIOCOMMANDE POUR LA RADIOCOMMANDE D'UNE MACHINE, EN PARTICULIER D'UNE GRUE**  
[72] BRENDDEL, WOLFGANG, DE  
[71] BRENDDEL HOLDING GMBH & CO. KG, DE  
[85] 2020-03-09  
[86] 2018-09-19 (PCT/EP2018/075329)  
[87] (WO2019/057759)  
[30] DE (20 2017 105 701.1) 2017-09-20

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[13] A1

[51] **Int.Cl. B60K 15/06 (2006.01) C08J 3/24 (2006.01) C08L 21/00 (2006.01) C10L 1/10 (2006.01) C10L 10/00 (2006.01)**  
[25] EN  
[54] **COPOLYMER VULCANIZATES FOR USE IN CONTACT WITH OXYMETHYLENE ETHER COMPRISING MEDIA**  
[54] **VULCANISATS DE COPOLYMERE DESTINES A ETRE UTILISES EN CONTACT AVEC DES MILIEUX COMPRENANT DE L'ETHER D'OXYMETHYLENE**  
[72] LIEBER, SUSANNA, DE  
[72] KULBABA, KEVIN, DE  
[71] ARLANXEO DEUTSCHLAND GMBH, DE  
[71] ARLANXEO CANADA INC., CA  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/EP2018/074323)  
[87] (WO2019/052948)  
[30] EP (17190622.5) 2017-09-12

[21] **3,075,360**  
[13] A1

[51] **Int.Cl. H04W 68/02 (2009.01)**  
[25] EN  
[54] **NODES AND METHODS FOR HANDLING PAGING**  
[54] **NŃUDS ET PROCEDES DE GESTION DE RADIOMESSAGERIE**  
[72] CHEN, QIAN, SE  
[72] SCHLIWA-BERTLING, PAUL, SE  
[72] ROMMER, STEFAN, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2020-03-09  
[86] 2018-10-05 (PCT/EP2018/077198)  
[87] (WO2019/068898)  
[30] US (62/568833) 2017-10-06

[21] **3,075,364**  
[13] A1

[51] **Int.Cl. C08G 18/76 (2006.01) C08G 18/00 (2006.01) C08G 18/22 (2006.01)**  
[25] EN  
[54] **CATALYSTS FOR MAKING OXAZOLIDINONE MATERIALS**  
[54] **CATALYSEURS POUR FABRIQUER DES MATERIAUX D'OXAZOLIDINONE**  
[72] VERBEKE, HUGO, BE  
[72] MERCIER, ELS ELISABETH, BE  
[72] BONAMI, LIES, BE  
[72] BOSMAN, JORIS KAREL PETER, BE  
[72] GIANNINI, GIACOMO, BE  
[71] HUNTSMAN INTERNATIONAL LLC, US  
[85] 2020-03-09  
[86] 2018-10-10 (PCT/EP2018/077593)  
[87] (WO2019/081210)  
[30] EP (17198780.3) 2017-10-27

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[21] **3,075,367**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN  
[54] **SPECIFIC BINDING MOLECULES MOLECULES DE LIAISON SPECIFIQUES**

[72] UBAH, OBINNA, GB  
[72] BARELLE, CAROLINE, GB  
[72] PORTER, ANDREW, GB  
[71] ELASMOGEN LTD, GB  
[85] 2020-03-09  
[86] 2018-09-27 (PCT/EP2018/076333)  
[87] (WO2019/063726)  
[30] US (62/563,948) 2017-09-27  
[30] US (62/667,126) 2018-05-04

[21] **3,075,371**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/282 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**

[25] EN  
[54] **POTENTIATING THE EFFECT OF ATP RELEASE**

[54] **POTENTIALISATION DE L'EFFET DE LIBERATION D'ATP**

[72] CHANTEUX, STEPHANIE, FR  
[72] GOURDIN, NICOLAS, FR  
[72] PATUREL, CARINE, FR  
[72] PERROT, IVAN, FR  
[72] ROSSI, BENJAMIN, FR  
[71] INNATE PHARMA, FR  
[85] 2020-03-09  
[86] 2018-11-15 (PCT/EP2018/081364)  
[87] (WO2019/096900)  
[30] US (62/586,224) 2017-11-15  
[30] US (62/686,149) 2018-06-18  
[30] US (62/733,175) 2018-09-19

[21] **3,075,372**  
[13] A1

[51] **Int.Cl. A23L 3/28 (2006.01) A23C 3/07 (2006.01) A23L 2/50 (2006.01) B01J 19/12 (2006.01) C02F 1/32 (2006.01) C12M 1/12 (2006.01)**

[25] EN  
[54] **A PHOTO BIOREACTOR FOR COLD PASTEURIZATION OF LIQUID FOOD PRODUCTS AND THE USE OF THE REACTOR**

[54] **PHOTO-BIOREACTEUR DE PASTEURISATION A FROID DE PRODUITS ALIMENTAIRES LIQUIDES ET UTILISATION DU REACTEUR**

[72] MORTENSEN, RASMUS, DK  
[71] LYRAS HOLDING APS, DK  
[85] 2020-03-09  
[86] 2018-09-19 (PCT/DK2018/050230)  
[87] (WO2019/057257)  
[30] DK (PA 2017 70708) 2017-09-21

[21] **3,075,374**  
[13] A1

[51] **Int.Cl. F16B 31/04 (2006.01) B23P 19/06 (2006.01) B25B 29/02 (2006.01)**

[25] EN  
[54] **PRETENSIONING ELEMENT PRESSURE SCREW AND PRETENSIONING ELEMENT HAVING A PLURALITY OF SUCH PRETENSIONING ELEMENT PRESSURE SCREWS AND PRETENSIONING SCREW BODY ELEMENT HAVING A PLURALITY OF SUCH PRETENSIONING ELEMENT PRESSURE SCREWS**

[54] **VIS DE PRESSION POUR ELEMENT DE PRECONTRAINTE ET ELEMENT DE PRECONTRAINTE COMPRENANT PLUSIEURS TELLES VIS DE PRESSION POUR ELEMENT DE PRECONTRAINTE AINSI QU'ELEMENT DE CORPS DE VIS DE PRECONTRAINTE COMPRENANT PLUSIEURS TELLES VIS DE PRESSION POUR ELEMENT DE PRECONTRAINTE**

[72] PLOKE, ROBERT, CH  
[71] PLOKE ENGINEERING AG, CH  
[85] 2020-03-09  
[86] 2017-10-03 (PCT/IB2017/056095)  
[87] (WO2018/065898)  
[30] DE (10 2016 219 131.4) 2016-10-03

[21] **3,075,375**  
[13] A1

[51] **Int.Cl. B60J 11/00 (2006.01) B29C 63/40 (2006.01) G01K 11/12 (2006.01)**

[25] EN  
[54] **WRAPPING**

[54] **EMBALLAGE**

[72] HAMBLIN, WILLIAM, GB  
[71] SEVEN STAR WRAPS LIMITED, GB  
[85] 2020-03-09  
[86] 2017-09-14 (PCT/GB2017/052708)  
[87] (WO2018/073558)  
[30] GB (1617665.3) 2016-10-19

[21] **3,075,376**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/39 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01)**

[25] EN  
[54] **NOVEL BISPECIFIC CD3/CD19 POLYPEPTIDE COMPLEXES**

[54] **NOUVEAUX COMPLEXES POLYPEPTIDIQUES CD3/CD19 BISPECIFIQUES**

[72] LIU, JIEYING, CN  
[72] XU, JIANQING, CN  
[72] WANG, ZHUOZHI, CN  
[72] MEI, QIN, CN  
[72] LI, JING, CN  
[71] WUXI BIOLOGICS IRELAND LIMITED., IE  
[85] 2020-03-09  
[86] 2018-09-20 (PCT/CN2018/106776)  
[87] (WO2019/057124)  
[30] CN (PCT/CN2017/103032) 2017-09-22

[21] **3,075,377**  
[13] A1

[51] **Int.Cl. E21B 34/10 (2006.01)**

[25] EN  
[54] **VALVE APPARATUS**

[54] **APPAREIL DE VANNE**

[72] MOYES, PETER BARNES, GB  
[72] STEWART, STEFAN NEIL LEWIS, GB  
[71] WELLENG SCIENCE AND TECHNOLOGY LTD, GB  
[85] 2020-03-09  
[86] 2018-09-13 (PCT/GB2018/052599)  
[87] (WO2019/053431)  
[30] GB (1714738.0) 2017-09-13

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[21] **3,075,379**  
[13] A1

[51] **Int.Cl. B22D 11/049 (2006.01) B22D 11/18 (2006.01) B22D 41/56 (2006.01)**

[25] EN

[54] **DYNAMICALLY POSITIONED DIFFUSER FOR METAL DISTRIBUTION DURING A CASTING OPERATION**

[54] **DIFFUSEUR POSITIONNE DE FACON DYNAMIQUE POUR LA DISTRIBUTION DE METAL PENDANT UNE OPERATION DE COULEE**

[72] ZHANG, BIN, US  
[72] SHABER, CRAIG LEE, US  
[72] ANDERSON, MIKE, US  
[71] WAGSTAFF, INC., US  
[85] 2020-03-09  
[86] 2018-09-11 (PCT/IB2018/056947)  
[87] (WO2019/053596)  
[30] US (15/701,536) 2017-09-12

[21] **3,075,381**  
[13] A1

[51] **Int.Cl. A01K 67/033 (2006.01) A23K 10/26 (2016.01) C02F 11/02 (2006.01)**

[25] EN

[54] **INSECT LARVAE REARING**

[54] **ELEVAGE DE LARVES D'INSECTES**

[72] FOTIADIS, FOTIS, GB  
[71] ENTOMICS BIOSYSTEMS LIMITED, GB  
[85] 2020-03-09  
[86] 2018-09-13 (PCT/GB2018/052608)  
[87] (WO2019/053439)  
[30] GB (1714964.2) 2017-09-18  
[30] GB (1811973.5) 2018-07-23

[21] **3,075,382**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) B27N 3/00 (2006.01) B27N 3/08 (2006.01) B29C 43/00 (2006.01) C08J 5/04 (2006.01) C08L 97/02 (2006.01) C08L 99/00 (2006.01) E04C 2/16 (2006.01) B29C 35/08 (2006.01) B29C 43/02 (2006.01) B29C 43/52 (2006.01)**

[25] EN

[54] **ALTERNATIVE USES OF FOOD PROCESSING BY-PRODUCTS**

[54] **UTILISATIONS ALTERNATIVES DE SOUS-PRODUITS DE TRANSFORMATION ALIMENTAIRE**

[72] SANTOS LIMA, ANA MARIA, PT  
[71] SANTOS LIMA, ANA MARIA, PT  
[85] 2020-03-09  
[86] 2018-09-17 (PCT/IB2018/057109)  
[87] (WO2019/053671)  
[30] PT (110291) 2017-09-15

[21] **3,075,383**  
[13] A1

[51] **Int.Cl. C12Q 1/6848 (2018.01) C12Q 1/6853 (2018.01)**

[25] EN

[54] **REVERSIBLE THERMODYNAMIC TRAP (THERMOTRAP) IN AMPLIFICATION OF NUCLEIC ACIDS**

[54] **PIEGE THERMODYNAMIQUE REVERSIBLE (THERMOPIEGE) DANS L'AMPLIFICATION D'ACIDES NUCLEIQUES**

[72] LIPINSKI, KAMIL ANDRZEJ, GB  
[72] PAILLIER, FRANCOIS JOEL, GB  
[72] MCKEOWN, BRIAN JAMES, GB  
[71] DNAE DIAGNOSTICS LTD, GB  
[85] 2020-03-09  
[86] 2018-09-24 (PCT/GB2018/052708)  
[87] (WO2019/058139)  
[30] GB (1715465.9) 2017-09-25

[21] **3,075,384**  
[13] A1

[51] **Int.Cl. B62K 19/16 (2006.01) B62K 3/00 (2006.01)**

[25] EN

[54] **MOLD MANUFACTURING METHOD, AND MOLD**

[54] **PROCEDE DE FABRICATION DE MOULE, ET MOULE**

[72] BOTRUGNO, SALVATORE, IT  
[71] GREGARIO S.R.L., IT  
[85] 2020-03-09  
[86] 2018-10-10 (PCT/IB2018/057832)  
[87] (WO2019/077441)  
[30] IT (102017000116676) 2017-10-17

[21] **3,075,385**  
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) B09B 5/00 (2006.01) C05F 9/00 (2006.01) C12M 1/00 (2006.01) C12P 5/02 (2006.01) C12P 7/10 (2006.01)**

[25] EN

[54] **INTEGRATED WASTE CONVERSION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE CONVERSION DE DECHETS INTEGRES**

[72] INGOLFSSON, ODDUR, IS  
[72] MATTHIASON, ASGEIR, IS  
[72] INGOLFSSON, SIGURDUR, IS  
[71] YMIR TECHNOLOGIES EHF., IS  
[85] 2020-03-09  
[86] 2018-09-17 (PCT/IS2018/050009)  
[87] (WO2019/053750)  
[30] IS (050189) 2017-09-15

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[21] **3,075,386**  
[13] A1

[51] **Int.Cl. A01K 80/00 (2006.01)**  
[25] EN  
[54] **FISHING TOOL FOR BOTTOM-DWELLING MARINE ORGANISMS, FOR FISHING ICELAND SCALLOPS, OTHER SCALLOPS AND POTENTIALLY OTHER BOTTOM SPECIES SUCH AS SEA CUCUMBERS, SEA URCHINS, OTHER TYPES OF SHELLFISH AND SPECIES OF CRAB**

[54] **OUTIL DE PECHE POUR ORGANISMES MARINS BENTHIQUES, POUR PETONCLES D'ISLANDE D'AUTRES PETONCLES ET POTENTIELLEMENT D'AUTRES ESPECES BENTHIQUES TELLES QUE DES HOLOTHURIES, DES OURSINS, D'AUTRES TYPES DE FRUITS DE MER ET DES ESPECES DE CRABE**

[72] TVEDT, OYSTEIN, NO  
[72] ROGNE, BERNT, NO  
[72] ROPPEN, BJORN, NO  
[72] FARSTAD, SVERRE OLAV, NO  
[72] ROGNE, JAN, NO  
[72] SANDVIK, KARL FREDRIK, NO  
[71] TAU TECH AS, NO  
[85] 2020-03-09  
[86] 2018-10-24 (PCT/NO2018/050255)  
[87] (WO2019/083375)  
[30] NO (20171710) 2017-10-25

[21] **3,075,388**  
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01) E21B 7/04 (2006.01) E21B 17/16 (2006.01) E21B 17/22 (2006.01)**

[25] EN  
[54] **WELL BORE CONDITIONER AND STABILIZER**

[54] **CONDITIONNEUR ET STABILISATEUR DE Puits DE FORAGE**

[72] SMITH, JOSHUA J., US  
[72] ASCHENBRENNER, JOSEPH, US  
[72] MEIER, GILBERT TROY, US  
[71] EXTREME TECHNOLOGIES, LLC, US  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/US2018/050208)  
[87] (WO2019/051378)  
[30] US (62/556,379) 2017-09-09  
[30] US (62/649,666) 2018-03-29

[21] **3,075,389**  
[13] A1

[51] **Int.Cl. F03B 13/16 (2006.01)**  
[25] EN  
[54] **ROCKING LEVER ASSEMBLY FOR HARNESSING ENERGY FROM SURFACE WAVES**

[54] **ENSEMBLE LEVIER BASCULANT DESTINE A EXPLOITER L'ENERGIE DES VAGUES DE SURFACE**

[72] HUSSAIN, AHMAD, IN  
[71] HUSSAIN, AHMAD, IN  
[85] 2020-03-09  
[86] 2019-01-12 (PCT/IN2019/050031)  
[87] (WO2019/145970)  
[30] IN (201831002688) 2018-01-23

[21] **3,075,391**  
[13] A1

[51] **Int.Cl. C10L 1/08 (2006.01)**  
[25] EN  
[54] **NATURAL GAS CONDENSATES IN FUEL COMPOSITIONS**

[54] **CONDENSATS DE GAZ NATUREL DANS DES COMPOSITIONS DE CARBURANT**

[72] BERKHOUS, SCOTT K., US  
[72] RUBIN-PITEL, SHERYL B., US  
[72] KAR, KENNETH C. H., US  
[72] FRUCHEY, ERIN R., US  
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US  
[85] 2020-03-09  
[86] 2018-09-20 (PCT/US2018/051949)  
[87] (WO2019/060540)  
[30] US (62/561,737) 2017-09-22  
[30] US (62/561,752) 2017-09-22  
[30] US (62/561,756) 2017-09-22  
[30] US (62/561,766) 2017-09-22  
[30] US (62/561,775) 2017-09-22  
[30] US (62/561,762) 2017-09-22

[21] **3,075,394**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**  
[25] EN  
[54] **PHASE TRACKING REFERENCE SIGNAL**

[54] **SIGNAL DE REFERENCE DE SUIVI DE PHASE**

[72] BAI, TIANYANG, US  
[72] CEZANNE, JUERGEN, US  
[72] SUBRAMANIAN, SUNDAR, US  
[72] LI, JUNYI, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-03-09  
[86] 2018-09-18 (PCT/US2018/051531)  
[87] (WO2019/074633)  
[30] US (62/571,138) 2017-10-11  
[30] US (62/588,110) 2017-11-17  
[30] US (15/975,112) 2018-05-09

[21] **3,075,395**  
[13] A1

[51] **Int.Cl. A23F 5/16 (2006.01) A23F 5/24 (2006.01) A47J 42/00 (2006.01)**

[25] EN  
[54] **SEPERATION APARATUS, GRINDING APPARATUS AND BEVERAGE PRODUCING APPARATUS**

[54] **DISPOSITIF DE SEPARATION, DISPOSITIF DE PULVERISATION ET DISPOSITIF DE FABRICATION DE BOISSON**

[72] KIHARA, KAISHUN, JP  
[72] SAITO, TOSHIO, JP  
[71] TREE FIELD, INC., JP  
[85] 2020-03-09  
[86] 2017-08-07 (PCT/JP2017/028615)  
[87] (WO2019/030803)

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[21] <b>3,075,396</b> [13] A1	[21] <b>3,075,398</b> [13] A1	[21] <b>3,075,400</b> [13] A1
[51] <b>Int.Cl. B64G 1/64 (2006.01) B64G 1/00 (2006.01) B64G 1/22 (2006.01)</b>	[51] <b>Int.Cl. A61B 17/22 (2006.01) A61B 17/221 (2006.01) A61B 17/32 (2006.01) A61B 17/3207 (2006.01)</b>	[51] <b>Int.Cl. A23F 5/26 (2006.01) A23L 2/00 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>SYSTEMS AND METHODS FOR DELIVERING, STORING, AND PROCESSING MATERIALS IN SPACE</b>	[54] <b>INTRAVASCULAR THROMBOEMBOLECTOMY DEVICES AND METHODS</b>	[54] <b>EXTRACTING METHOD AND EXTRACTING APPARATUS</b>
[54] <b>SYSTEMES ET PROCEDES DE DISTRIBUTION, DE STOCKAGE ET DE TRAITEMENT DE MATERIAUX DANS L'ESPACE</b>	[54] <b>DISPOSITIFS ET METHODES DE THROMBO-EMBOLECTOMIE INTRAVASCULAIRE</b>	[54] <b>PROCEDE D'EXTRACTION ET DISPOSITIF D'EXTRACTION</b>
[72] FABER, DANIEL, US	[72] MARKS, MICHAEL P., US	[72] KIHARA, KAISHUN, JP
[71] ORBIT FAB, INC., US	[72] QUE, LIKE, US	[72] TOGASHI, KAZUKI, JP
[85] 2020-03-09	[72] KONKOL, TIMOTHY JOHN, US	[72] TORIZU, TAISUKE, JP
[86] 2018-09-10 (PCT/US2018/050286)	[71] THROMBX MEDICAL, INC., US	[72] NOAKE, NOBUHIRO, JP
[87] (WO2019/051423)	[85] 2020-03-09	[72] ABE, KAZUHIRO, JP
[30] US (62/556,468) 2017-09-10	[86] 2018-09-10 (PCT/US2018/050289)	[72] SAITO, TOSHIO, JP
[30] US (62/595,238) 2017-12-06	[87] (WO2019/051425)	[71] TREE FIELD, INC., JP
[30] US (62/614,835) 2018-01-08	[30] US (62/556,627) 2017-09-11	[85] 2020-03-09
	[30] US (62/556,658) 2017-09-11	[86] 2017-08-07 (PCT/JP2017/028618)
		[87] (WO2019/030805)
[21] <b>3,075,397</b> [13] A1	[21] <b>3,075,399</b> [13] A1	[21] <b>3,075,401</b> [13] A1
[51] <b>Int.Cl. C08K 5/3492 (2006.01) C08K 5/49 (2006.01)</b>	[51] <b>Int.Cl. C07K 16/28 (2006.01)</b>	[51] <b>Int.Cl. C08G 69/26 (2006.01) C08G 69/30 (2006.01) C08G 81/00 (2006.01) C08L 77/06 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>EPOXY RESIN SYSTEMS</b>	[54] <b>HEAVY CHAIN ANTIBODIES BINDING TO ECTOENZYMES</b>	[54] <b>POLYMERIZATION PROCESS</b>
[54] <b>SYSTEMES DE RESINE EPOXY</b>	[54] <b>ANTICORPS A CHAINE LOURDE SE LIANT A DES EXOENZYMES</b>	[54] <b>PROCEDE DE POLYMERISATION</b>
[72] BANSAL, AMITABH, US	[72] CLARKE, STARLYNN, US	[72] MUTEL, AHMET TURGUT, CA
[72] CORLEY, LARRY STEVEN, US	[72] DANG, KEVIN, US	[72] DOSHI, SHAILESH RATILAL, CA
[72] SEPULVEDA-CAMARENA, DIANA, US	[72] ALDRED, SHELLEY FORCE, US	[71] DUPONT POLYMERS, INC., US
[72] CHUNG, JENNIFER W., US	[72] TRINKLEIN, NATHAN, US	[85] 2020-03-09
[72] TAYLOR, LEEANNE, US	[72] VAN SCHOOTEN, WIM, US	[86] 2018-09-26 (PCT/US2018/052818)
[72] HALE, ALLA, US	[71] TENEOBIO, INC., US	[87] (WO2019/067517)
[71] HEXION INC., US	[85] 2020-03-09	[30] US (62/564,308) 2017-09-28
[85] 2020-03-09	[86] 2018-09-13 (PCT/US2018/050931)	
[86] 2018-09-10 (PCT/US2018/050256)	[87] (WO2019/055689)	
[87] (WO2019/055346)	[30] US (62/558,147) 2017-09-13	
[30] US (62/558,182) 2017-09-13		[21] <b>3,075,402</b> [13] A1
[30] US (16/126,612) 2018-09-10		[51] <b>Int.Cl. A01G 31/04 (2006.01) A01G 9/02 (2018.01) A01G 27/00 (2006.01)</b>
		[25] EN
		[54] <b>AGRICULTURAL APPARATUS AND METHOD</b>
		[54] <b>APPAREIL ET PROCEDE AGRICOLES</b>
		[72] JOHNSON, GARY LIND, US
		[72] JOHNSON, KIRK DAVID, US
		[71] JOHNSON, GARY LIND, US
		[71] JOHNSON, KIRK DAVID, US
		[85] 2020-03-09
		[86] 2018-09-28 (PCT/US2018/053252)
		[87] (WO2019/074684)
		[30] US (62/571,437) 2017-10-12
		[30] US (15/893,947) 2018-02-12

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[21] **3,075,403**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 47/68 (2017.01) A61K 38/00 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **COMPOSITION FOR RESTRAINING ACTIVITY OF REGULATORY T CELL, COMPRISING PEPTIDE BINDING SPECIFICALLY TO NEUROFILIN 1 (NRP1)**

[54] **COMPOSITION LIMITANT L'ACTIVITE D'UN LYMPHOCYTE T REGULATEUR, COMPRENANT UNE LIAISON PEPTIDIQUE SPECIFIQUE A LA NEUROFILINE 1 (NRP1)**

[72] KIM, YONG SUNG, KR  
[72] KIM, YE JIN, KR  
[72] JUNG, KEUNOK, KR  
[72] KIM, JEONG-AH, KR  
[71] AJOU UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION, KR

[85] 2020-03-09  
[86] 2018-09-07 (PCT/KR2018/010487)  
[87] (WO2019/050326)  
[30] KR (10-2017-0115262) 2017-09-08

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[21] **3,075,404**  
[13] A1

[51] **Int.Cl. B28B 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING AN ENGINEERED STONE AND AN ENGINEERED STONE**

[54] **PROCEDE DE FABRICATION D'UNE PIERRE ARTIFICIELLE ET PIERRE ARTIFICIELLE**

[72] ADAMS, TERRY, US  
[72] CASELLI, CLAUDIO, US  
[71] DAL TILE CORPORATION, US

[85] 2020-03-09  
[86] 2018-10-02 (PCT/US2018/053836)  
[87] (WO2019/070621)  
[30] US (15/722,804) 2017-10-02

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[21] **3,075,405**  
[13] A1

[51] **Int.Cl. G06K 19/077 (2006.01) G06K 19/02 (2006.01)**

[25] EN

[54] **TRANSACTION CARD WITH EMBEDDED ELECTRONIC COMPONENTS AND PROCESS FOR MANUFACTURE**

[54] **CARTE DE TRANSACTION AVEC COMPOSANTS ELECTRONIQUES INTEGRES ET PROCEDE DE FABRICATION**

[72] LOWE, ADAM, US  
[72] HUSSAIN, SYEDA, US  
[71] COMPOSECURE, LLC, US

[85] 2020-03-09  
[86] 2018-09-07 (PCT/US2018/049899)  
[87] (WO2019/051191)  
[30] US (62/555,367) 2017-09-07

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[21] **3,075,406**  
[13] A1

[51] **Int.Cl. H04L 1/18 (2006.01) H04L 5/00 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR DEVICE-TO-DEVICE FEEDBACK**

[54] **PROCEDES ET APPAREIL DESTINES A UNE RETROACTION DE DISPOSITIF A DISPOSITIF**

[72] GULATI, KAPIL, US  
[72] PATIL, SHAILESH, US  
[72] NGUYEN, TIEN VIET, US  
[72] BAGHEL, SUDHIR KUMAR, US  
[71] QUALCOMM INCORPORATED, US

[85] 2020-03-09  
[86] 2018-10-11 (PCT/US2018/055467)  
[87] (WO2019/075238)  
[30] US (62/571,037) 2017-10-11  
[30] US (16/156,646) 2018-10-10

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[21] **3,075,407**  
[13] A1

[51] **Int.Cl. A61M 11/02 (2006.01) C07C 237/44 (2006.01)**

[25] EN

[54] **METHODS OF INTRANASAL METOCLOPRAMIDE DOSING**

[54] **METHODES D'ADMINISTRATION PAR VOIE INTRANASALE DE METOCLOPRAMIDE**

[72] CARLSON, MARILYN R., US  
[72] ALVES, WAYNE, US  
[72] D'ONOFRIO, MATTHEW J., US  
[72] GONYER, DAVID A., US  
[71] EVOKE PHARMA, INC., US

[85] 2020-03-09  
[86] 2018-09-10 (PCT/US2018/050191)  
[87] (WO2019/051366)  
[30] US (62/556,904) 2017-09-11  
[30] US (62/575,302) 2017-10-20  
[30] US (62/595,323) 2017-12-06  
[30] US (62/631,366) 2018-02-15

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[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**

[25] EN

[54] **DIGITAL MICROFLUIDIC DEVICES INCLUDING DUAL SUBSTRATES WITH THIN-FILM TRANSISTORS AND CAPACITIVE SENSING**

[54] **DISPOSITIFS MICROFLUIDIQUES NUMERIQUES COMPRENANT DES SUBSTRATS DOUBLES A TRANSISTORS EN COUCHES MINCES ET DETECTION CAPACITIVE**

[72] FRENCH, IAN, TW  
[71] E INK CORPORATION, US

[85] 2020-03-09  
[86] 2018-10-16 (PCT/US2018/056037)  
[87] (WO2019/079267)  
[30] US (62/573,846) 2017-10-18

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[13] A1

[51] **Int.Cl. A61L 29/08 (2006.01) A61M 27/00 (2006.01)**  
[25] EN  
[54] **HYDROPHILIC MEDICAL DEVICE WITH REMOVABLE MOISTURE CONTROL/BARRIER LAYER**  
[54] **DISPOSITIF MEDICAL HYDROPHILE A COUCHE AMOVIBLE DE BARRIERE/REGULATION D'HUMIDITE**  
[72] FARRELL, DAVID J., US  
[71] HOLLISTER INCORPORATED, US  
[85] 2020-03-09  
[86] 2018-09-10 (PCT/US2018/050263)  
[87] (WO2019/051412)  
[30] US (62/556,743) 2017-09-11

[21] **3,075,410**  
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01) A01G 27/02 (2006.01) A01G 31/04 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL APPARATUS AND METHOD**  
[54] **DISPOSITIF ET PROCEDE AGRICOLES**  
[72] JOHNSON, GARY LIND, US  
[72] JOHNSON, KIRK DAVID, US  
[71] JOHNSON, GARY LIND, US  
[71] JOHNSON, KIRK DAVID, US  
[85] 2020-03-09  
[86] 2019-01-31 (PCT/US2019/015978)  
[87] (WO2019/156880)  
[30] US (15/893,947) 2018-02-12

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[13] A1

[51] **Int.Cl. A23C 9/137 (2006.01) A23L 9/10 (2016.01) A23L 23/00 (2016.01) A23L 29/212 (2016.01) A23D 7/005 (2006.01) A23L 2/52 (2006.01) C08B 30/12 (2006.01) C08B 30/14 (2006.01)**  
[25] EN  
[54] **THERMALLY INHIBITED WAXY CASSAVA STARCH**  
[54] **FECULE DE MANIOC CIREUX INHIBE THERMIQUEMENT**  
[72] HANCHETT, DOUGLAS, US  
[72] SHAH, TARAK, US  
[72] GARRISON, JOHN, US  
[72] JEGEDE, OYELAYO, US  
[72] CLUNE, HANNA, US  
[72] JERNIGAN, LYNETTE, US  
[72] KOR, BEE TIN, US  
[72] THNG, SUH FANG, US  
[71] CORN PRODUCTS DEVELOPMENT, INC., US  
[71] INGREDION SINGAPORE PTE. LTD., SG  
[85] 2020-03-09  
[86] 2018-09-11 (PCT/US2018/050377)  
[87] (WO2019/055381)  
[30] US (62/557,584) 2017-09-12

[21] **3,075,412**  
[13] A1

[51] **Int.Cl. A61K 36/07 (2006.01) A61K 36/8962 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **PROCESS AND APPARATUS FOR PRODUCING MYCELIUM BIOMATERIAL**  
[54] **PROCEDE ET APPAREIL POUR PRODUIRE UN BIOMATERIAU A BASE DE MYCELIUM**  
[72] MUELLER, PETER JAMES, US  
[72] WINISKI, JACOB MICHAEL, US  
[72] O'BRIEN, MEGHAN ANNE, US  
[71] ECOVATIVE DESIGN LLC, US  
[85] 2020-03-09  
[86] 2019-05-22 (PCT/US2019/033601)  
[87] (WO2019/226823)  
[30] US (62/675,922) 2018-05-24

[21] **3,075,413**  
[13] A1

[51] **Int.Cl. A01N 59/08 (2006.01) A01K 61/13 (2017.01) A61K 33/14 (2006.01) A61K 35/08 (2015.01)**  
[25] EN  
[54] **PARASITE TREATMENT COMPOUND**  
[54] **COMPOSE DE TRAITEMENT DE PARASITES**  
[72] BOUCHARD, DEBORAH A., US  
[72] BRICKNELL, IAN, US  
[71] UNIVERSITY OF MAINE SYSTEM BOARD OF TRUSTEES, US  
[85] 2020-03-09  
[86] 2018-09-12 (PCT/US2018/050663)  
[87] (WO2019/055515)  
[30] US (62/557,369) 2017-09-12  
[30] US (62/560,374) 2017-09-19

[21] **3,075,414**  
[13] A1

[51] **Int.Cl. A61K 31/197 (2006.01) A61K 9/08 (2006.01) A61K 31/167 (2006.01) A61K 47/12 (2006.01) A61K 47/24 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **ACETAMINOPHEN-PREGABALIN COMBINATIONS AND METHODS OF TREATING PAIN**  
[54] **COMBINAISONS D'ACETAMINOPHENE-PREGABALINE ET PROCEDES DE TRAITEMENT DE LA DOULEUR**  
[72] KHURANA, VARUN, US  
[72] LIPMAN, JACK MARTIN, US  
[72] PATEL, MILAN, US  
[72] ILITCHEV, IOURI, US  
[72] HINGORANI, TUSHAR, US  
[72] SOPPIMATH, KUMARESH, US  
[72] PURI, NAVNEET, US  
[71] NEVAKAR INC., US  
[85] 2020-03-09  
[86] 2018-10-02 (PCT/US2018/053864)  
[87] (WO2019/070641)  
[30] US (62/567,384) 2017-10-03

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[13] A1

[51] **Int.Cl. G01B 9/02 (2006.01) A61B 5/00 (2006.01)**  
[25] EN  
[54] **INTERFERENCE IMAGING DEVICE AND ITS APPLICATION**  
[54] **DISPOSITIF D'IMAGERIE D'INTERFERENCE ET SON APPLICATION**  
[72] HO, TUAN-SHU, TW  
[72] CHEN, I-LING, TW  
[72] JI, DAN, TW  
[72] LU, SUNG WEI, TW  
[72] LIU, TZU WEI, TW  
[72] TSENG, JEN YU, TW  
[72] LIN, TING YUEH, TW  
[72] LU, CHIH WEI, TW  
[72] LIN, JIA-WEI, TW  
[72] CHUANG, YO CHENG, TW  
[72] HUANG, SHENG-LUNG, TW  
[71] APOLLO MEDICAL OPTICS, LTD., TW  
[85] 2020-03-09  
[86] 2018-09-18 (PCT/US2018/051609)  
[87] (WO2019/056022)  
[30] US (62/560,131) 2017-09-18  
[30] US (62/560,090) 2017-09-18

[21] **3,075,416**  
[13] A1

[51] **Int.Cl. B29C 64/218 (2017.01) B33Y 30/00 (2015.01) B29C 64/209 (2017.01) B29C 64/214 (2017.01) B33Y 40/20 (2020.01) B33Y 70/10 (2020.01)**  
[25] EN  
[54] **SYSTEM, PRINT HEAD, AND COMPACTOR FOR CONTINUOUSLY MANUFACTURING COMPOSITE STRUCTURE**  
[54] **SYSTEME, TETE D'IMPRESSION ET COMPACTEUR POUR LA FABRICATION CONTINUE D'UNE STRUCTURE COMPOSITE**  
[72] BUDGE, TREVOR DAVID, US  
[72] TYLER, KENNETH LYLE, US  
[72] HAMBLING, COLIN HUGH, US  
[71] CC3D LLC, US  
[85] 2020-03-09  
[86] 2018-11-09 (PCT/US2018/060054)  
[87] (WO2019/133115)  
[30] US (62/611,922) 2017-12-29  
[30] US (16/184,228) 2018-11-08

[21] **3,075,417**  
[13] A1

[51] **Int.Cl. H01B 7/04 (2006.01) H01R 4/58 (2006.01) H01R 13/58 (2006.01) H01R 35/02 (2006.01)**  
[25] EN  
[54] **FLEXIBLE DEVICE AND METHOD**  
[54] **DISPOSITIF FLEXIBLE ET PROCEDE**  
[72] LOH, YUH, US  
[72] RENDALL, LORN, US  
[72] SCOTT, THOMAS MCCLAIN, US  
[72] DUAN, PING, US  
[72] ISIDRO, ERMANEL, US  
[71] BAKER HUGHES, A GE COMPANY, LLC, US  
[85] 2020-03-09  
[86] 2018-09-20 (PCT/US2018/051986)  
[87] (WO2019/060569)  
[30] US (62/562,609) 2017-09-25

[21] **3,075,418**  
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C07K 14/425 (2006.01)**  
[25] EN  
[54] **ZEIN-ENRICHED AND DEPLETED PROTEIN**  
[54] **PROTEINE ENRICHEE ET APPAUVRIE EN ZEINE**  
[72] MCCONVILLE, ERIKA LYN, US  
[72] PORTER, MICHAEL A., US  
[71] CARGILL, INCORPORATED, US  
[85] 2020-03-09  
[86] 2018-09-21 (PCT/US2018/052153)  
[87] (WO2019/060673)  
[30] US (62/561,931) 2017-09-22

[21] **3,075,419**  
[13] A1

[51] **Int.Cl. A61K 49/10 (2006.01) A61K 51/04 (2006.01) C07D 471/22 (2006.01) C07D 487/22 (2006.01)**  
[25] EN  
[54] **TETRAPYRROLIC CONJUGATES AND USES THEREOF FOR IMAGING**  
[54] **CONJUGUES TETRAPYRROLIQUES ET LEUR UTILISATION POUR L'IMAGERIE**  
[72] PANDEY, RAVINDRA K., US  
[72] GROSSMAN, ZACHARY, US  
[72] CHERUKU, RAVINDRA, US  
[72] MISSERT, JOSEPH, US  
[72] SPERNYAK, JOSEPH, US  
[72] HENDLER, CRAIG M., US  
[72] ALBERICO, RONALD A., US  
[72] SEXTON, SANDRA, US  
[72] DURRANI, FARUKH, US  
[71] HEALTH RESEARCH, INC., US  
[85] 2020-03-09  
[86] 2018-09-21 (PCT/US2018/052282)  
[87] (WO2019/060770)  
[30] US (62/561,503) 2017-09-21

[21] **3,075,421**  
[13] A1

[51] **Int.Cl. A47J 31/00 (2006.01) A47J 31/36 (2006.01) A47J 31/42 (2006.01) A47J 31/44 (2006.01) A47J 31/60 (2006.01) G07F 13/06 (2006.01) B67D 1/08 (2006.01)**  
[25] EN  
[54] **BEVERAGE PRODUCING APPARATUS**  
[54] **DISPOSITIF DE FABRICATION DE BOISSON**  
[72] KIHARA, KAISHUN, JP  
[72] TORIZU, TAISUKE, JP  
[71] TREE FIELD, INC., JP  
[85] 2020-03-09  
[86] 2018-08-01 (PCT/JP2018/028916)  
[87] (WO2019/031362)  
[30] JP (2017-152703) 2017-08-07



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[13] A1

[51] **Int.Cl. H01M 10/052 (2010.01) B82Y 40/00 (2011.01) C01D 15/00 (2006.01) C01G 23/00 (2006.01)**

[25] EN

[54] **SYNTHESIS OF LITHIUM TITANATE**

[54] **SYNTHÈSE DE TITANATE DE LITHIUM**

[72] REED, CHRISTOPHER JOHN, AU

[71] NEOMATERIALS PTY LTD, AU

[85] 2020-03-10

[86] 2018-08-23 (PCT/AU2018/050899)

[87] (WO2019/051534)

[30] AU (2017903743) 2017-09-14

[21] **3,075,429**  
[13] A1

[51] **Int.Cl. B64C 29/00 (2006.01) B64C 9/16 (2006.01) B64C 27/52 (2006.01)**

[25] EN

[54] **WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT**

[54] **SYSTEME D'ACTIONNEMENT D'INCLINAISON D'AILE POUR AERONEF ELECTRIQUE A DECOLLAGE ET ATTERRISSAGE VERTICAUX (ADAV)**

[72] MOORE, ANDREW DUDLEY, AU

[71] AMSL INNOVATIONS PTY LTD, AU

[85] 2020-03-10

[86] 2018-09-06 (PCT/AU2018/050962)

[87] (WO2019/056052)

[30] AU (2017903864) 2017-09-22

[30] AU (2017904036) 2017-10-06

[30] AU (2018901154) 2018-04-06

[21] **3,075,430**  
[13] A1

[51] **Int.Cl. B64C 29/00 (2006.01) B64C 9/16 (2006.01) B64C 27/52 (2006.01)**

[25] EN

[54] **WING TILT ACTUATION SYSTEM FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (VTOL) AIRCRAFT**

[54] **SYSTEME D'ACTIONNEMENT D'INCLINAISON POUR AERONEF A DECOLLAGE ET ATTERRISSAGE VERTICAUX (ADAV)**

[72] MOORE, ANDREW DUDLEY, AU

[71] AMSL INNOVATIONS PTY LTD, AU

[85] 2020-03-10

[86] 2018-09-06 (PCT/AU2018/050963)

[87] (WO2019/056053)

[30] AU (2017903864) 2017-09-22

[30] AU (2017904036) 2017-10-06

[30] AU (2018901154) 2018-04-06

[21] **3,075,431**  
[13] A1

[51] **Int.Cl. F28D 15/02 (2006.01) F28D 7/00 (2006.01)**

[25] EN

[54] **A HEAT EXCHANGER**

[54] **ECHANGEUR DE CHALEUR**

[72] CLEGG, ROBERT LOUIS, GB

[71] CLEGG, ROBERT LOUIS, GB

[85] 2020-03-10

[86] 2018-09-11 (PCT/AU2018/050983)

[87] (WO2019/046910)

[30] AU (2017903667) 2017-09-11

[21] **3,075,432**  
[13] A1

[51] **Int.Cl. A61F 6/08 (2006.01) A61B 5/00 (2006.01) A61B 5/107 (2006.01) A61B 5/22 (2006.01) A61B 8/12 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR VAGINAL THERAPEUTIC DEVICE FITTING**

[54] **PROCEDES ET SYSTEMES D'AJUSTEMENT DE DISPOSITIF THERAPEUTIQUE VAGINAL**

[72] SHAM, DEREK, CA

[71] SHAM, DEREK, CA

[85] 2020-03-10

[86] 2018-09-18 (PCT/CA2018/000173)

[87] (WO2019/051579)

[30] US (62/559,853) 2017-09-18

[21] **3,075,433**  
[13] A1

[51] **Int.Cl. C07C 67/03 (2006.01) C08G 63/91 (2006.01) C08J 11/24 (2006.01)**

[25] EN

[54] **TEREPHTHALIC ACID ESTERS FORMATION**

[54] **FORMATION D'ESTERS D'ACIDE TEREPHTALIQUE**

[72] ESSADDAM, ADEL, CA

[72] ESSADDAM, FARES, CA

[71] 9449710 CANADA INC., CA

[85] 2020-03-10

[86] 2018-09-13 (PCT/CA2018/051135)

[87] (WO2019/051597)

[30] US (15/706,484) 2017-09-15

[21] **3,075,434**  
[13] A1

[51] **Int.Cl. C12N 7/01 (2006.01) A23K 10/16 (2016.01) A23K 50/30 (2016.01) A23K 50/75 (2016.01) A61K 35/76 (2015.01) A61P 31/04 (2006.01) C12N 7/00 (2006.01) C12N 7/02 (2006.01) C12N 15/54 (2006.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **BACTERIOPHAGE COMPOSITION AND METHOD OF PREVENTING BACTERIAL INFECTIONS IN LIVESTOCK**

[54] **COMPOSITION BACTERIOPHAGE ET PROCEDE DE PREVENTION D'INFECTIONS BACTERIENNES CHEZ LE BETAIL**

[72] DUBAR, RODRIGUE, CA

[72] LABRIE, SIMON, CA

[71] SYNTBIOLAB INC., CA

[85] 2020-03-10

[86] 2018-09-14 (PCT/CA2018/051141)

[87] (WO2019/051603)

[30] US (62/558,924) 2017-09-15

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[13] A1

[51] **Int.Cl. C07D 495/14 (2006.01) A61K 31/551 (2006.01) A61P 29/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**

[25] EN  
[54] **BRD4 INHIBITOR**  
[54] **INHIBITEUR DE BRD4**

[72] FAN, LEI, CN  
[72] XU, KEXIN, CN  
[72] CHEN, KE, CN  
[72] WANG, FEL, CN  
[72] WU, XIAOQUAN, CN  
[72] LUO, TONGCHUAN, CN  
[72] ZHANG, SHAOHUA, CN  
[72] LI, XINGHAI, CN  
[72] CHEN, YUANWEI, CN  
[71] HINOVA PHARMACEUTICALS INC., CN  
[85] 2020-03-10  
[86] 2018-09-14 (PCT/CN2018/105620)  
[87] (WO2019/052519)  
[30] CN (201710828398.1) 2017-09-14

[21] **3,075,436**  
[13] A1

[51] **Int.Cl. F16L 57/00 (2006.01) F16L 3/015 (2006.01) F16L 5/00 (2006.01) H02G 7/04 (2006.01)**

[25] EN  
[54] **HOSE ASSEMBLY WITH FIELD ATTACHABLE BEND RESTRICTOR**  
[54] **ENSEMBLE TUYAU SOUPLE DOTE D'UN RESTRICTEUR DE COURBURE POUVANT ETRE FIXE SUR LE TERRAIN**

[72] FETCHKO, ERIC B., CA  
[72] BAROS, DAVOR, CA  
[72] FERGUSON, ART, US  
[71] MARINE CANADA ACQUISITION INC., CA  
[85] 2020-03-10  
[86] 2018-09-14 (PCT/CA2018/051148)  
[87] (WO2019/051610)  
[30] US (62/558,448) 2017-09-14

[21] **3,075,437**  
[13] A1

[51] **Int.Cl. B65D 5/06 (2006.01) B65D 5/10 (2006.01) B65D 5/468 (2006.01)**

[25] EN  
[54] **STORAGE AND TRANSPORTATION BOX**  
[54] **BOITE DE STOCKAGE ET DE TRANSPORT**

[72] LOPEZ MASAGUE, MANUEL, ES  
[71] EMBALAJES CAPSA, S.L., ES  
[85] 2020-03-10  
[86] 2018-09-07 (PCT/EP2018/074090)  
[87] (WO2019/048591)  
[30] EP (17382602.5) 2017-09-11

[21] **3,075,438**  
[13] A1

[51] **Int.Cl. B42D 25/305 (2014.01) B42D 25/485 (2014.01)**

[25] EN  
[54] **METHOD FOR PRODUCING DECORATIVE PAPER OR FILMS AND FOR PROTECTING AGAINST THE IMPERMISSIBLE REPRODUCTION THEREOF**  
[54] **PROCEDE DE FABRICATION DE PAPIER OU DE FILM DECORATIF ET DE PROTECTION CONTRE UNE DUPLICATION NON AUTORISEE**

[72] HEEGER, ROLAND, DE  
[71] SCHATTDECOR AG, DE  
[85] 2020-03-10  
[86] 2018-09-10 (PCT/EP2018/074329)  
[87] (WO2019/052953)  
[30] DE (10 2017 121 391.0) 2017-09-14  
[30] DE (10 2017 128 258.0) 2017-11-29

[21] **3,075,439**  
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 10/04 (2012.01)**

[25] EN  
[54] **CONTROL AND/OR REGULATION OF POWER GENERATING PLANTS**  
[54] **COMMANDE ET/OU REGULATION D'INSTALLATIONS DE PRODUCTION DE L'ELECTRICITE**

[72] THOMAS, MARX, DE  
[71] INNOGY SE, DE  
[85] 2020-03-10  
[86] 2018-09-11 (PCT/EP2018/074447)  
[87] (WO2019/048701)  
[30] DE (10 2017 120 946.8) 2017-09-11

[21] **3,075,440**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/74 (2006.01)**

[25] EN  
[54] **PRO-ADM AS A THERAPY MONITORING MARKER FOR CRITICALLY ILL PATIENTS**  
[54] **UTILISATION DE PROADM EN TANT QUE MARQUEUR DE SURVEILLANCE THERAPEUTIQUE POUR DES PATIENTS EN PHASE CRITIQUE**

[72] WILSON, DARIUS, DE  
[71] B.R.A.H.M.S GMBH, DE  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/EP2018/074722)  
[87] (WO2019/053115)  
[30] EP (17190912.0) 2017-09-13

[21] **3,075,441**  
[13] A1

[51] **Int.Cl. B07B 1/22 (2006.01) B07B 1/52 (2006.01) B07B 13/16 (2006.01) B65B 69/00 (2006.01)**

[25] FR  
[54] **DEPACKAGING APPARATUS WITH IMPROVED CLEANING**  
[54] **DECONDITIONNEUR A NETTOYAGE AMELIORE**

[72] GOMEZ, REMI, FR  
[71] GREEN CREATIVE, FR  
[85] 2020-03-10  
[86] 2018-09-11 (PCT/EP2018/074505)  
[87] (WO2019/053018)  
[30] FR (1758450) 2017-09-12

[21] **3,075,442**  
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**

[25] EN  
[54] **PCT AND PRO-ADM AS MARKERS FOR MONITORING ANTIBIOTIC TREATMENT**  
[54] **PCT ET PRO-ADM UTILISEES COMME MARQUEURS DE CONTROLE DANS UN TRAITEMENT ANTIBIOTIQUE**

[72] WILSON, DARIUS, DE  
[71] B.R.A.H.M.S GMBH, DE  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/EP2018/074724)  
[87] (WO2019/053117)  
[30] EP (17190913.8) 2017-09-13

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[21] **3,075,443**  
[13] A1

[51] **Int.Cl. A61K 31/7032 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ABX196 FOR USE IN THE TREATMENT OF BLADDER CANCER**

[54] **ABX196 POUR UTILISATION DANS LE TRAITEMENT DU CANCER DE LA VESSIE**

[72] CRABE, SANDRINE, FR  
[72] SCHERRER, DIDIER, FR  
[72] EHRLICH, HARTMUT, FR  
[72] POULETTY, PHILIPPE, FR  
[71] ABIVAX, FR  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/EP2018/074778)  
[87] (WO2019/053142)  
[30] EP (17306182.1) 2017-09-13

[21] **3,075,444**  
[13] A1

[51] **Int.Cl. G06F 9/445 (2018.01) G06F 21/51 (2013.01) G06F 21/57 (2013.01) G06F 8/61 (2018.01) G16H 40/40 (2018.01) H04L 9/32 (2006.01) G06F 21/62 (2013.01) A61B 5/00 (2006.01) G06F 11/36 (2006.01)**

[25] EN

[54] **METHOD FOR VALIDATING A MEDICAL APPLICATION, END USER DEVICE AND MEDICAL SYSTEM**

[54] **PROCEDE DE VALIDATION D'UNE APPLICATION MEDICALE, DISPOSITIF D'UTILISATEUR FINAL ET SYSTEME MEDICAL**

[72] THAYYIL, BIMAL, DE  
[72] EISSENLOEFFEL, THOMAS, DE  
[72] SCHWENKER, KAI-OLIVER, DE  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2020-03-10  
[86] 2018-09-19 (PCT/EP2018/075386)  
[87] (WO2019/057791)  
[30] EP (17192247.9) 2017-09-20

[21] **3,075,445**  
[13] A1

[51] **Int.Cl. B01L 1/04 (2006.01) B01L 9/06 (2006.01) B08B 15/02 (2006.01) B25J 21/02 (2006.01) F24F 3/16 (2006.01)**

[25] EN

[54] **TRANSPORTABLE CLEAN ROOM, METHOD FOR PRODUCING A TRANSPORTABLE CLEAN ROOM, AND METHOD FOR FILLING A MEDICINE CONTAINER IN A TRANSPORTABLE CLEAN ROOM**

[54] **SALLE BLANCHE TRANSPORTABLE, PROCEDE DE FABRICATION D'UNE SALLE BLANCHE TRANSPORTABLE ET PROCEDE DE REMPLISSAGE D'UN RECIPIENT DE MEDICAMENT DANS UNE SALLE BLANCHE TRANSPORTABLE**

[72] MOSSIG, STEFAN, DE  
[71] VETTER PHARMA-FERTIGUNG GMBH & CO. KG, DE  
[85] 2020-03-10  
[86] 2018-09-14 (PCT/EP2018/074872)  
[87] (WO2019/053186)  
[30] DE (10 2017 216 366.6) 2017-09-14

[21] **3,075,446**  
[13] A1

[51] **Int.Cl. C12P 21/00 (2006.01) A61K 38/19 (2006.01) A61K 47/42 (2017.01) C07K 14/535 (2006.01) C07K 16/28 (2006.01) C12N 9/42 (2006.01)**

[25] EN

[54] **MEANS AND METHODS FOR THE PRODUCTION OF GLYCOPROTEINS COMPRISING HOMOGENEOUS GALACTOSYLATED CARBOHYDRATES**

[54] **MOYENS ET PROCEDES DE PRODUCTION DE GLYCOPROTEINES COMPRENANT DES GLUCIDES GALACTOSYLES HOMOGENES**

[72] CALLEWAERT, NICO, BE  
[72] VAN BREEDAM, WANDER, BE  
[72] SANTENS, FRANCIS, BE  
[71] VIB VZW, BE  
[71] UNIVERSITEIT GENT, BE  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/EP2018/074784)  
[87] (WO2019/053145)  
[30] GB (1714764.6) 2017-09-14  
[30] EP (18171657.2) 2018-05-09

[21] **3,075,447**  
[13] A1

[51] **Int.Cl. B01D 24/00 (2006.01) B01D 24/08 (2006.01) B01D 24/10 (2006.01) B01D 24/40 (2006.01) B01D 24/46 (2006.01) C02F 1/28 (2006.01) C02F 3/06 (2006.01)**

[25] EN

[54] **APPARATUS FOR FILTERING LIQUIDS**

[54] **APPAREIL POUR LE FILTRAGE DE LIQUIDES**

[72] BUSSINELLI, FILIPPO, IT  
[71] BUSSINELLI, FILIPPO, IT  
[85] 2020-03-10  
[86] 2018-09-07 (PCT/IB2018/056822)  
[87] (WO2019/053569)  
[30] IT (2017000103653) 2017-09-15

[21] **3,075,448**  
[13] A1

[51] **Int.Cl. A61G 5/04 (2013.01)**

[25] EN

[54] **DRIVE DEVICE FOR A WHEELCHAIR**

[54] **DISPOSITIF D'ENTRAINEMENT POUR FAUTEUIL ROULANT**

[72] KUSCHALL, RAINER, CH  
[71] KUSCHALL, RAINER, CH  
[85] 2020-03-10  
[86] 2018-09-20 (PCT/EP2018/075405)  
[87] (WO2019/057799)  
[30] CH (01164/17) 2017-09-21

[21] **3,075,449**  
[13] A1

[51] **Int.Cl. B63B 1/24 (2020.01) B63H 1/22 (2006.01) B63H 5/07 (2006.01) B63H 21/17 (2006.01) B63H 21/21 (2006.01)**

[25] EN

[54] **WATERCRAFT DEVICE WITH HYDROFOIL AND ELECTRIC PROPELLER SYSTEM**

[54] **DISPOSITIF D'EMBARCATION A HYDROPTERE ET SYSTEME D'HELICE ELECTRIQUE**

[72] MONTAGUE, DONALD LEWIS, US  
[72] BROCK, JOSEPH ANDREW, US  
[72] SCHULTE, JAMIESON EDWARD, US  
[72] SCHABB, DANIEL ELLIOT, US  
[71] KAI CONCEPTS, LLC, US  
[85] 2020-03-10  
[86] 2018-03-23 (PCT/US2018/023959)  
[87] (WO2019/050570)  
[30] US (15/700,658) 2017-09-11

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[21] **3,075,450**  
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/10 (2006.01) C07K 16/18 (2006.01) C07K 16/26 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **MULTIVALENT MONO- OR BISPECIFIC RECOMBINANT ANTIBODIES FOR ANALYTIC PURPOSE**

[54] **ANTICORPS RECOMBINANTS MONO- OU BISPECIFIQUES MULTIVALENTS DESTINEES A DES FINS ANALYTIQUES**

[72] OELSCHLAEGEL, TOBIAS, DE

[72] KUBALEC, PAVEL, DE

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2020-03-10

[86] 2018-09-20 (PCT/EP2018/075464)

[87] (WO2019/057816)

[30] EP (17192532.4) 2017-09-22

[21] **3,075,451**  
[13] A1

[51] **Int.Cl. A61N 7/00 (2006.01)**

[25] EN

[54] **MULTI-CHANNEL REAL-TIME PHASE MODULATION FOR EMI REDUCTION IN AN ULTRASOUND DEVICE**

[54] **MODULATION DE PHASE EN TEMPS REEL MULTICANAL POUR LA REDUCTION D'INTERFERENCES ELECTROMAGNETIQUES DANS UN DISPOSITIF ULTRASONORE**

[72] KURTZ, RON, CA

[72] LEONARD, PATRICK, CA

[72] ZHANG, XIAOYU, CA

[71] PROFOUND MEDICAL INC., CA

[85] 2020-03-10

[86] 2017-10-03 (PCT/IB2017/001388)

[87] (WO2019/069113)

[21] **3,075,452**  
[13] A1

[51] **Int.Cl. B65D 77/06 (2006.01) B67D 1/00 (2006.01)**

[25] EN

[54] **BOX WITH INNER BAG FOR LIQUID FOOD**

[54] **BOITE DOTE E D'UN SAC INTERNE DESTINE A UN ALIMENT LIQUIDE**

[72] TACHENY, THIERRY, BE

[72] MERTENS DE MILMARS, ETIENNE, BE

[71] INVINEO S.A., BE

[85] 2020-03-10

[86] 2017-11-27 (PCT/IB2017/001452)

[87] (WO2018/100424)

[30] US (15/366,313) 2016-12-01

[21] **3,075,453**  
[13] A1

[51] **Int.Cl. B01D 61/24 (2006.01) B01D 61/02 (2006.01) B01D 61/12 (2006.01) B01D 61/14 (2006.01) B01D 61/28 (2006.01) B01D 61/32 (2006.01) B01D 61/44 (2006.01) B01D 61/48 (2006.01) B01D 61/50 (2006.01) B01D 61/54 (2006.01) B01D 61/58 (2006.01) C02F 1/469 (2006.01)**

[25] EN

[54] **DIALYSATE FREE ARTIFICIAL KIDNEY DEVICE**

[54] **DISPOSITIF DE REIN ARTIFICIEL SANS DIALYSAT**

[72] HESTEKIN, JAMIE ALLEN, US

[72] HESTEKIN, CHRISTA NOEL, US

[72] MORRISON, GRACE ANN C., US

[72] PARACHA, SADIA ALI, US

[71] US KIDNEY RESEARCH CORPORATION, US

[85] 2020-03-10

[86] 2018-01-26 (PCT/US2018/000004)

[87] (WO2019/067007)

[30] US (15/732,169) 2017-09-27

[21] **3,075,454**  
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) A61B 34/00 (2016.01) A61B 5/01 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **PROCESSING SYSTEM AND DYNAMIC CORRECTION METHOD FOR THERMAL THERAPY**

[54] **SYSTEME DE TRAITEMENT ET PROCEDE DE CORRECTION DYNAMIQUE POUR THERAPIE THERMIQUE**

[72] BIGOT, ALEXANDRE, CA

[72] LEONARD, PATRICK, CA

[71] PROFOUND MEDICAL INC., CA

[85] 2020-03-10

[86] 2017-10-19 (PCT/IB2017/001506)

[87] (WO2019/077385)

[21] **3,075,455**  
[13] A1

[51] **Int.Cl. C08L 1/28 (2006.01)**

[25] EN

[54] **BIOMIMETIC, MOLDABLE, SELF-ASSEMBLED CELLULOSE SILICA-BASED TRIMERIC HYDROGELS AND THEIR USE AS VISCOSITY MODIFYING CARRIERS IN INDUSTRIAL APPLICATIONS**

[54] **HYDROGELS TRIMERES AUTOASSEMBLES BIOMIMETIQUES MOULABLES A BASE DE SILICE ET DE CELLULOSE ET LEUR UTILISATION EN TANT QUE VECTEURS DE MODIFICATION DE VISCOSITE DANS DES APPLICATIONS INDUSTRIELLES**

[72] APPEL, ERIC A., US

[72] YU, ANTHONY C., US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2020-03-09

[86] 2018-09-25 (PCT/US2018/052570)

[87] (WO2019/067406)

[30] US (15/716,500) 2017-09-26

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[21] **3,075,456**  
[13] A1

[51] **Int.Cl. G08B 21/02 (2006.01)**  
[25] EN  
[54] **AUTOMATED WIRELESS APPARATUS FOR REAL-TIME EMERGENCY SUPPORT**  
[54] **APPAREIL AUTOMATISE SANS FIL POUR UNE PRISE EN CHARGE D'URGENCE EN TEMPS REEL**  
[72] GOPALAKRISHNAN, MURALIDHARAN, IN  
[71] GOPALAKRISHNAN, MURALIDHARAN, IN  
[85] 2020-03-10  
[86] 2018-11-08 (PCT/IB2018/058760)  
[87] (WO2019/049118)  
[30] US (62/557,069) 2017-09-11  
[30] US (62/638,315) 2018-03-05  
[30] US (16/127,236) 2018-09-11

[21] **3,075,457**  
[13] A1

[51] **Int.Cl. G06T 1/00 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR GPU-BASED WATERMARKING**  
[54] **DISPOSITIF ET PROCEDE DE TATOUAGE NUMERIQUE BASE SUR UNE GPU**  
[72] GOODE, GRANT, CA  
[72] SOUKUP, MARTIN, CA  
[72] MURDOCH, DANIEL, CA  
[71] IRDETO B.V., NL  
[85] 2020-03-10  
[86] 2018-09-12 (PCT/IB2018/001151)  
[87] (WO2019/053511)  
[30] US (62/557,187) 2017-09-12

[21] **3,075,458**  
[13] A1

[51] **Int.Cl. A47J 31/00 (2006.01) B67D 1/00 (2006.01) G06F 3/00 (2006.01) G06F 13/00 (2006.01)**  
[25] EN  
[54] **DISPENSING SYSTEM FOR DELIVERING CUSTOMIZED QUANTITIES OF DIETARY AND NUTRACEUTICAL SUPPLEMENTS**  
[54] **SYSTEME DE DISTRIBUTION POUR DISTRIBUER DES QUANTITES PERSONNALISEES DE SUPPLEMENTS DIETETIQUES ET NUTRACEUTIQUES**  
[72] IOTTI, MARCO, CH  
[72] BEQIRAJ, ENALD, US  
[72] ZANJANI, REZA, US  
[72] CARUSO, JESSE, US  
[71] MIXFIT INC., US  
[85] 2020-03-10  
[86] 2018-07-25 (PCT/US2018/043682)  
[87] (WO2019/023338)  
[30] US (15/662,422) 2017-07-28

[21] **3,075,459**  
[13] A1

[51] **Int.Cl. A61F 2/28 (2006.01) A61F 2/30 (2006.01)**  
[25] EN  
[54] **PATIENT-SPECIFIC MANDIBLE GRAFT CAGE**  
[54] **CAGE DE GREFFE DE MANDIBULE SPECIFIQUE A UN PATIENT**  
[72] DANIEL, STEFFAN, CH  
[72] FURRER, ANDRE, CH  
[71] DEPUY SYNTHES PRODUCTS, INC., US  
[85] 2020-03-10  
[86] 2018-09-05 (PCT/IB2018/056773)  
[87] (WO2019/049041)  
[30] US (15/700,904) 2017-09-11

[21] **3,075,460**  
[13] A1

[51] **Int.Cl. C02F 1/40 (2006.01) B01D 17/02 (2006.01) B01D 17/04 (2006.01) E02B 15/04 (2006.01)**  
[25] EN  
[54] **TRANSPORTABLE MODULAR SYSTEM FOR EMERGENCY TREATMENT OF WATER POLLUTED BY LIQUID HYDROCARBON SPILLAGE**  
[54] **SYSTEME MODULAIRE TRANSPORTABLE POUR LE TRAITEMENT D'URGENCE D'EAU POLLUEE PAR DES HYDROCARBURES LIQUIDES**  
[72] ALLARA, PAOLO MARIO ALESSANDRO, IT  
[72] BONIFACIO, FABRIZIO, IT  
[71] SAIPEM S.P.A., IT  
[85] 2020-03-10  
[86] 2018-09-20 (PCT/IB2018/057260)  
[87] (WO2019/058302)  
[30] IT (102017000105300) 2017-09-20

[21] **3,075,461**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01)**  
[25] EN  
[54] **4-[[[(7-AMINOPYRAZOLO[1,5-A]PYRIMIDIN-5-YL)AMINO]METHYL]PIPERIDIN-3-OL COMPOUNDS AS CDK INHIBITORS**  
[54] **COMPOSES DE 4-[[[(7-AMINOPYRAZOLO[1,5-A]PYRIMIDIN-5-YL)AMINO]METHYL]PIPERIDIN-3-OL UTILISES EN TANT QU'INHIBITEURS DE CDK**  
[72] BAHL, ASH, IE  
[72] AINSCOW, ED, IE  
[72] BONDKE, ALEXANDER, DE  
[72] BARRETT, ANTHONY G.M., BR  
[72] SUNOSE, MIHIRO, GB  
[72] SHIERS, JASON JOHN, GB  
[72] CHOHAN, KAMALDEEP, GB  
[71] CARRICK THERAPEUTICS LIMITED, IE  
[71] CANCER RESEARCH TECHNOLOGY LIMITED, GB  
[71] IP2IPO INNOVATIONS LIMITED, GB  
[85] 2020-03-10  
[86] 2018-09-20 (PCT/EP2018/075482)  
[87] (WO2019/057825)  
[30] GB (1715194.5) 2017-09-20

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[21] **3,075,462**  
[13] A1

[51] **Int.Cl. A47J 31/42 (2006.01) A47J 31/44 (2006.01)**  
[25] EN  
[54] **BEVERAGE PRODUCING APPARATUS**  
[54] **APPAREIL DE FABRICATION DE BOISSON**  
[72] KIHARA, KAISHUN, JP  
[72] SAITO, TOSHIO, JP  
[71] TREE FIELD, INC., JP  
[85] 2020-03-10  
[86] 2018-08-01 (PCT/JP2018/028918)  
[87] (WO2019/031364)  
[30] JP (2017-152699) 2017-08-07

[21] **3,075,463**  
[13] A1

[51] **Int.Cl. E21B 21/06 (2006.01) E21B 49/08 (2006.01)**  
[25] EN  
[54] **DEGASSING AND ANALYZING DRILLING FLUID**  
[54] **DEGAZAGE ET ANALYSE DE FLUIDE DE FORAGE**  
[72] BINGHAM, RICHARD, US  
[72] KAROUM, REDA, US  
[71] M-I L.L.C., US  
[85] 2020-03-10  
[86] 2018-08-28 (PCT/US2018/048216)  
[87] (WO2019/060098)  
[30] US (62/560,662) 2017-09-19

[21] **3,075,464**  
[13] A1

[51] **Int.Cl. C22B 15/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR RECOVERING CU AND METHOD OF PREPARING ELECTROLYTIC COPPER**  
[54] **PROCEDE DE RECUPERATION DE CU ET PROCEDE DE PREPARATION DE CUIVRE ELECTROLYTIQUE**  
[72] FUKANO, YUKEN, JP  
[71] JX NIPPON MINING & METALS CORPORATION, JP  
[85] 2020-03-10  
[86] 2018-12-27 (PCT/JP2018/048383)  
[87] (WO2019/131977)  
[30] JP (2017-252011) 2017-12-27

[21] **3,075,465**  
[13] A1

[51] **Int.Cl. B60J 1/20 (2006.01) B60J 11/02 (2006.01)**  
[25] EN  
[54] **PROTECTIVE SCREEN FOR GLASSES OF VEHICLES**  
[54] **ECRAN DE PROTECTION POUR VITRES DE VEHICULES**  
[72] TOSETTO, INNOCENTE, IT  
[72] PERRICONE, LORENZO, IT  
[71] PARTS SOLUTION S.R.L., IT  
[71] GRUPPO TOSETTO S.R.L., IT  
[85] 2020-03-10  
[86] 2018-09-20 (PCT/IB2018/057264)  
[87] (WO2019/058306)  
[30] IT (102017000104871) 2017-09-20

[21] **3,075,466**  
[13] A1

[51] **Int.Cl. B29C 65/82 (2006.01) B29C 55/28 (2006.01) G01N 27/20 (2006.01) G01R 27/26 (2006.01) G01R 31/12 (2020.01)**  
[25] EN  
[54] **PLASTIC FILM SENSOR**  
[54] **CAPTEUR POUR FILM DE MATIERE PLASTIQUE**  
[72] ISBERG, ERIK, SE  
[71] SEALWACS AB, SE  
[85] 2020-03-10  
[86] 2018-09-26 (PCT/SE2018/000022)  
[87] (WO2019/070176)  
[30] SE (1700240-3) 2017-10-06

[21] **3,075,467**  
[13] A1

[51] **Int.Cl. B01D 45/12 (2006.01) B01D 45/14 (2006.01) B01D 46/00 (2006.01) F01M 13/04 (2006.01) F04C 29/02 (2006.01)**  
[25] EN  
[54] **TURBOMACHINE CENTRIFUGAL DEAERATOR COMPONENT AND METHOD FOR MANUFACTURING SAID COMPONENT**  
[54] **PIECE POUR DEGAZEUR CENTRIFUGE DE TURBOMACHINE ET PROCEDE DE FABRICATION DE LADITE PIECE**  
[72] NIFENECKER, ARNAUD, FR  
[72] FULLERINGER, BENJAMIN, FR  
[72] LEMPEGNAT, CEDRIC, FR  
[72] JOUSSELIN, SAMUEL, FR  
[72] GAYMU, PIERRE, FR  
[72] GEORGET, CEDRIC, FR  
[72] LANQUETIN, REMI, FR  
[72] OLHARAN, PHILIPPE, FR  
[71] SAFRAN HELICOPTER ENGINES, FR  
[85] 2020-03-10  
[86] 2018-09-24 (PCT/EP2018/075741)  
[87] (WO2019/063458)  
[30] FR (1758909) 2017-09-26

[21] **3,075,468**  
[13] A1

[51] **Int.Cl. H01P 5/18 (2006.01) H01P 5/12 (2006.01)**  
[25] EN  
[54] **POWER PASSING DIRECTIONAL COUPLER HAVING A SPLIT FERRITE ELEMENT**  
[54] **COUPLEUR DIRECTIONNEL A PASSAGE DE PUISSANCE COMPRENANT UN ELEMENT DE FERRITE DIVISE**  
[72] WU, JINQUAN, US  
[72] TANG, NEIL, US  
[71] ANTRONIX INC., US  
[85] 2020-03-10  
[86] 2018-09-11 (PCT/US2018/050351)  
[87] (WO2019/051448)  
[30] US (62/556,695) 2017-09-11

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[21] **3,075,469**  
[13] A1

[51] **Int.Cl. G01B 9/02 (2006.01) A61B 3/10 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **DUAL-EDGE SAMPLING WITH K-CLOCK TO AVOID ALIASING IN OPTICAL COHERENCE TOMOGRAPHY**

[54] **ECHANTILLONNAGE A DOUBLE FRONT A HORLOGE K POUR EVITER LE REPLIEMENT EN TOMOGRAPHIE PAR COHERENCE OPTIQUE**

[72] WANG, BING, US  
[72] AL-QAISI, MUHAMMAD, US  
[72] REN, HUGANG, US  
[71] ALCON INC., CH  
[85] 2020-03-10  
[86] 2018-10-29 (PCT/IB2018/058451)  
[87] (WO2019/087040)  
[30] US (62/580,825) 2017-11-02

[21] **3,075,470**  
[13] A1

[51] **Int.Cl. B01F 3/04 (2006.01) B01F 15/00 (2006.01)**

[25] EN

[54] **LOADING AND UNLOADING OF MATERIAL CONTAINERS**

[54] **CHARGEMENT ET DECHARGEMENT DE CONTENEURS DE MATERIAU**

[72] SURJAATMADJA, JIM BASUKI, US  
[72] HUNTER, TIM H., US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2020-03-10  
[86] 2017-12-05 (PCT/US2017/064737)  
[87] (WO2019/112570)

[21] **3,075,471**  
[13] A1

[51] **Int.Cl. A61K 38/06 (2006.01) A23L 33/18 (2016.01) A61K 38/05 (2006.01)**

[25] EN

[54] **USE OF PEPTIDES AS THERAPEUTIC AGENT FOR AUTOIMMUNE DISEASES AND BONE DISEASES**

[54] **UTILISATION DE PEPTIDES EN TANT QU'AGENT THERAPEUTIQUE CONTRE DES MALADIES AUTO-IMMUNES ET DES MALADIES OSSEUSES**

[72] CHO, DAE HO, KR  
[72] KIM, KYUNG EUN, KR  
[72] KIM, MYUN SOO, KR  
[72] PARK, SUN YOUNG, KR  
[72] JUNG, HEE YOUNG, KR  
[71] KINE SCIENCES CO., LTD., KR  
[85] 2020-03-10  
[86] 2018-09-14 (PCT/KR2018/010874)  
[87] (WO2019/054809)  
[30] KR (10-2017-0118950) 2017-09-15  
[30] KR (10-2017-0118952) 2017-09-15  
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[21] **3,075,474**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

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[54] **NON-INVASIVE MULTIFUNCTIONAL TELEMETRY APPARATUS AND REAL-TIME SYSTEM FOR MONITORING CLINICAL SIGNALS AND HEALTH PARAMETERS**

[54] **APPAREIL MULTIFONCTIONNEL NON INVASIF DE TELEMESURE ET SYSTEME EN TEMPS REEL DE SURVEILLANCE DE SIGNAUX CLINIQUES ET DE PARAMETRES DE SANTE**

[72] GOPALAKRISHNAN, MURALIDHARAN, IN  
[71] GOPALAKRISHNAN, MURALIDHARAN, IN  
[85] 2020-03-10  
[86] 2018-11-06 (PCT/IB2018/058718)  
[87] (WO2019/049116)  
[30] US (62/557,069) 2017-09-11  
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[30] US (16/127,228) 2018-09-11

[21] **3,075,475**  
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/073 (2010.01) C12N 5/0775 (2010.01) A61K 35/407 (2015.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING LIVER DISEASE AND DYSFUNCTION**

[54] **COMPOSITIONS ET METHODES PERMETTANT DE TRAITER UNE MALADIE HEPATIQUE ET UN DYSFONCTIONNEMENT HEPATIQUE**

[72] FISHER, ROBERT A., US  
[72] PETTINATO, GIUSEPPE, US  
[71] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US  
[71] VIRGINIA COMMONWEALTH UNIVERSITY, US  
[85] 2020-03-10  
[86] 2018-09-10 (PCT/US2018/050254)  
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[30] US (62/557,533) 2017-09-12

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[51] **Int.Cl. B65D 85/68 (2006.01) B25H 1/00 (2006.01) B62J 23/00 (2006.01)**  
[25] EN  
[54] **IMPROVEMENTS IN AND RELATING TO TRANSPORTATION**  
[54] **AMELIORATIONS APPOORTEES ET RELATIVES AU TRANSPORT**  
[72] ROGERS, JASON PAUL, NZ  
[72] BREWSTER, GRAHAM, NZ  
[72] LIM, DAVID TIEN ANG, NZ  
[71] DLIP LIMITED, NZ  
[85] 2020-03-10  
[86] 2018-09-18 (PCT/NZ2018/050124)  
[87] (WO2019/059781)  
[30] NZ (735635) 2017-09-19

[21] **3,075,477**  
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01) C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 471/04 (2006.01)**  
[25] EN  
[54] **NOVEL HETEROCYCLIC COMPOUNDS AS CDK8/19 INHIBITORS**  
[54] **NOUVEAUX COMPOSES HETEROCYCLIQUES COMME INHIBITEURS DE CDK8/19**  
[72] MINDICH, ALEKSEI LEONIDOVICH, RU  
[72] GORBUNOVA, SVETLANA LEONIDOVNA, RU  
[72] POPKOVA, ALEKSANDRA VLADIMIROVNA, RU  
[72] SHEKHAUTSOU, ARTSIOM EVGENIEVICH, BY  
[72] ALAFINOV, ANDREI IVANOVICH, RU  
[72] ALESHUNIN, PAVEL ALEKSANDROVICH, RU  
[72] EVDOKIMOV, ANTON ALEKSANDROVICH, RU  
[72] ZAVIALOV, KIRILL VADIMOVICH, RU  
[72] KASATKINA, MARIIA ANDREEVNA, RU  
[72] KOZHEMYAKINA, NATALIA VLADIMIROVNA, RU  
[72] KUSHAKOVA, ANNA SERGEEVNA, RU  
[72] MAKSIMENKO, ELENA ALEKSANDROVNA, RU  
[72] MISHINA, MARIIA SERGEEVNA, RU  
[72] REKHARSKY, MIKHAIL VLADIMIROVICH, RU  
[72] CHESTNOVA, ANNA JUR'EVNA, RU  
[72] IAKOVLEV, PAVEL ANDREEVICH, RU  
[72] MOROZOV, DMITRY VALENTINOVICH, RU  
[71] JOINT STOCK COMPANY "BIOCAD", RU  
[85] 2020-03-10  
[86] 2018-07-30 (PCT/RU2018/050089)  
[87] (WO2019/031990)  
[30] RU (2017128123) 2017-08-07  
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[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01)**  
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[54] **USE OF GABOXADOL IN THE TREATMENT OF NARCOLEPSY**  
[54] **UTILISATION DE GABOXADOL DANS LE TRAITEMENT DE LA NARCOLEPSIE**  
[72] DURING, MATTHEW, US  
[71] OVID THERAPEUTICS INC., US  
[85] 2020-03-10  
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[30] US (62/557,412) 2017-09-12

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[13] A1

[51] **Int.Cl. C08L 5/08 (2006.01) A61K 31/726 (2006.01) A61K 31/728 (2006.01) A61K 47/36 (2006.01) C08J 3/075 (2006.01)**  
[25] EN  
[54] **RESORBABLE IMPLANTABLE DEVICES BASED ON CROSSLINKED GLYCOSAMINOGLYCANS, AND PROCESS FOR THE PREPARATION THEREOF**  
[54] **DISPOSITIFS IMPLANTABLES RESORBABLES A BASE DE GLYCOSAMINOGLYCANES RETICULES, ET LEUR PROCEDE DE PREPARATION**  
[72] SOLIMANDO, NICOLA, IT  
[72] PAGLIUCA, MAURIZIO, IT  
[71] ALTERGON SA, CH  
[85] 2020-03-10  
[86] 2018-11-14 (PCT/IB2018/058965)  
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[30] IT (102017000131879) 2017-11-17

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[13] A1

[51] **Int.Cl. C12N 9/64 (2006.01)**  
[25] EN  
[54] **MEANS AND METHODS FOR SINGLE MOLECULE PEPTIDE SEQUENCING**  
[54] **MOYENS ET PROCEDES DE SEQUENCAGE DES PEPTIDES D'UNE SEULE MOLECULE**  
[72] CALLEWAERT, NICO, BE  
[72] EYCKERMAN, SVEN, BE  
[72] DEVOS, SIMON, BE  
[71] VIB VZM, BE  
[71] UNIVERSITEIT GENT, BE  
[85] 2020-03-10  
[86] 2018-09-28 (PCT/EP2018/076532)  
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[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01) A61B 6/00 (2006.01) A61D 7/00 (2006.01) A61J 1/20 (2006.01) A61J 7/00 (2006.01) A61M 5/00 (2006.01) A61M 5/14 (2006.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/168 (2006.01) A61M 5/178 (2006.01) A61M 5/20 (2006.01) A61M 5/315 (2006.01) A61M 39/20 (2006.01) A61M 39/22 (2006.01) A61M 39/24 (2006.01) B65B 3/00 (2006.01) B65B 3/28 (2006.01) B65B 3/30 (2006.01) B65B 5/04 (2006.01) B65B 7/28 (2006.01) B65B 57/02 (2006.01)**  
[25] EN  
[54] **SLIDING SYRINGE CAP FOR SEPARATE FILLING AND DELIVERY**  
[54] **CAPUCHON COULISSANT DE SERINGUE POUR REMPLISSAGE ET DISTRIBUTION SEPARES**  
[72] COWAN, KEVIN, US  
[72] SPOHN, MICHAEL, US  
[72] TUCKER, BARRY, US  
[72] WALKER, MATTHEW, US  
[72] DEDIG, JAMES, US  
[72] FENTRESS, JAMES, US  
[72] RANALLETTA, JOSEPH, US  
[71] BAYER HEALTHCARE LLC, US  
[85] 2020-03-10  
[86] 2018-09-12 (PCT/US2018/050640)  
[87] (WO2019/055497)  
[30] US (62/558,012) 2017-09-13  
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[13] A1

[51] **Int.Cl. A61K 38/30 (2006.01) A61P 11/00 (2006.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR TREATING CHRONIC LUNG DISEASES**  
[54] **PROCEDES ET COMPOSITIONS POUR TRAITER DES MALADIES PULMONAIRES CHRONIQUES**  
[72] BARTON, NORMAN, US  
[72] MANGILI, ALEXANDRA, US  
[71] SHIRE HUMAN GENETIC THERAPIES, INC., US  
[85] 2020-03-10  
[86] 2018-09-11 (PCT/US2018/050427)  
[87] (WO2019/051474)  
[30] US (62/557,113) 2017-09-11

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[13] A1

[51] **Int.Cl. C22C 30/00 (2006.01) B08B 17/02 (2006.01) C10G 9/14 (2006.01) C10G 9/20 (2006.01) C21D 1/74 (2006.01) C21D 9/08 (2006.01) C22C 19/05 (2006.01) F16L 9/02 (2006.01) F28F 19/00 (2006.01) F28F 21/08 (2006.01)**  
[25] EN  
[54] **ALUMINUM OXIDE FORMING HEAT TRANSFER TUBE FOR THERMAL CRACKING**  
[54] **TUBE DE TRANSFERT DE CHALEUR POUR CRAQUAGE THERMIQUE FORMANT UN OXYDE D'ALUMINIUM**  
[72] CHUN, CHANGMIN, US  
[72] PERDOMO, JORGE J., US  
[71] EXXONMOBIL CHEMICAL PATENTS INC., US  
[85] 2020-03-10  
[86] 2018-08-20 (PCT/US2018/000360)  
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[30] US (62/557,516) 2017-09-12

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[13] A1

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[25] EN  
[54] **USER EXPERIENCE FOR INFUSION PUMPS**  
[54] **EXPERIENCE UTILISATEUR POUR POMPES A PERFUSION**  
[72] SURINE, JAMES, US  
[72] ADAMS, GRANT A., US  
[72] HEILMAN, RYAN D., US  
[72] LEDFORD, RICKY, US  
[72] BAYER, NANCY, US  
[72] BYNUM, GAIL B., US  
[72] DROST, JAMES B., US  
[72] PICKLES, CHRIS, US  
[72] HOH, LISA, US  
[72] TSAI, JENNIFER, US  
[72] WILKOWSKE, ERIC J., US  
[72] VANG, NATHAN, US  
[72] LOR, KOU, US  
[72] SHALLBETTER, JANET, US  
[71] SMITHS MEDICAL ASD, INC., US  
[85] 2020-03-10  
[86] 2018-09-12 (PCT/US2018/050664)  
[87] (WO2019/055516)  
[30] US (62/557,243) 2017-09-12

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[13] A1

[51] **Int.Cl. C08B 37/00 (2006.01) A61K 31/737 (2006.01) A61P 7/02 (2006.01)**  
[25] EN  
[54] **PENTOSAN POLYSULFATE AND METHOD FOR PRODUCING PENTOSAN POLYSULFATE**  
[54] **POLYSULFATE DE PENTOSANE ET PROCEDE DE PRODUCTION DE POLYSULFATE DE PENTOSANE**  
[72] ISHIKAWA, KOTARO, JP  
[72] KASHIWAMURA, TAKURO, JP  
[72] KATO, TAKUYA, JP  
[72] KOGA, TORU, JP  
[72] ISHIKAWA, SUGURU, JP  
[71] OJI HOLDINGS CORPORATION, JP  
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[86] 2018-09-11 (PCT/JP2018/033535)  
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[30] JP (2017-175133) 2017-09-12

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[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) G01R 25/00 (2006.01) H02J 13/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING THE PHASE USED FOR POWERING A LOAD**

[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE LA PHASE UTILISEE POUR ALIMENTER UNE CHARGE**

[72] DALE, ROBERT, US

[71] SENSUS SPECTRUM LLC, US

[85] 2020-03-10

[86] 2018-05-11 (PCT/US2018/032297)

[87] (WO2019/055072)

[30] US (15/707,297) 2017-09-18

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[13] A1

[51] **Int.Cl. A61B 5/06 (2006.01) A61B 1/06 (2006.01) A61B 8/12 (2006.01) H04R 17/00 (2006.01)**

[25] EN

[54] **ENDOSCOPY SYSTEMS AND METHODS OF USE THEREOF**

[54] **SYSTEMES D'ENDOSCOPIE ET LEURS PROCEDES D'UTILISATION**

[72] BASADONNA, GIACOMO, US

[72] LUCAS, ALAN, US

[71] ENLIGHTENVUE LLC, US

[85] 2020-03-10

[86] 2018-06-28 (PCT/US2018/039934)

[87] (WO2019/006081)

[30] US (62/527,625) 2017-06-30

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[13] A1

[51] **Int.Cl. G05B 13/04 (2006.01) G05B 23/02 (2006.01)**

[25] EN

[54] **PLANT MANAGEMENT SYSTEM AND MANAGEMENT DEVICE**

[54] **SYSTEME DE GESTION D'INSTALLATION ET DISPOSITIF DE GESTION**

[72] FURUICHI, KAZUYA, JP

[72] IKAWA, SHIZUKA, JP

[71] CHIYODA CORPORATION, JP

[85] 2020-03-10

[86] 2018-11-12 (PCT/JP2018/041848)

[87] (WO2019/098158)

[30] JP (2017-219077) 2017-11-14

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[13] A1

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

[25] EN

[54] **DEVICES AND METHODS FOR CONTACTING LIVING TISSUE**

[54] **DISPOSITIFS ET PROCEDES DE MISE EN CONTACT AVEC UN TISSU VIVANT**

[72] GANDOLA, KENT R., US

[72] AARESTAD, JEROME K., US

[71] ISL, LLC, US

[85] 2020-03-10

[86] 2018-09-12 (PCT/US2018/050693)

[87] (WO2019/055531)

[30] US (62/557,587) 2017-09-12

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[13] A1

[51] **Int.Cl. B25B 23/12 (2006.01) B25B 13/46 (2006.01) B25B 23/00 (2006.01) F16D 41/064 (2006.01) F16D 41/08 (2006.01)**

[25] EN

[54] **SOCKET WRENCH**

[54] **CLE A DOUILLE**

[72] ALBERTSON, ROBERT V., US

[71] ALBERTSON, ROBERT V., US

[85] 2020-03-10

[86] 2018-09-11 (PCT/US2018/050492)

[87] (WO2019/055423)

[30] US (62/557,474) 2017-09-12

[30] US (16/127,555) 2018-09-11

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[13] A1

[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/13 (2014.01) H04N 19/91 (2014.01)**

[25] EN

[54] **BINARY ARITHMETIC CODING WITH PROGRESSIVE MODIFICATION OF ADAPTATION PARAMETERS**

[54] **CODAGE ARITHMETIQUE BINAIRE AVEC MODIFICATION PROGRESSIVE DE PARAMETRES D'ADAPTATION**

[72] SAID, AMIR, US

[72] EGILMEZ, HILMI ENES, US

[72] KARCZEWICZ, MARTA, US

[72] SEREGIN, VADIM, US

[72] ZHANG, LI, US

[72] ZHAO, XIN, US

[71] QUALCOMM INCORPORATED, US

[85] 2020-03-10

[86] 2018-10-10 (PCT/US2018/055214)

[87] (WO2019/075063)

[30] US (62/570,560) 2017-10-10

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[13] A1

[51] **Int.Cl. H04W 72/12 (2009.01)**

[25] EN

[54] **TECHNIQUES AND APPARATUSES FOR TIME DIVISION MULTIPLEXING FOR DUAL-RAT COMMUNICATION**

[54] **TECHNIQUES ET APPAREILS POUR MULTIPLEXAGE PAR REPARTITION DANS LE TEMPS POUR COMMUNICATION A DOUBLE RAT**

[72] LEE, HEECHOON, US

[72] GAAL, PETER, US

[72] CHEN, WANSI, US

[71] QUALCOMM INCORPORATED, US

[85] 2020-03-10

[86] 2018-10-10 (PCT/US2018/055194)

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[30] US (62/571,176) 2017-10-11

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[54] **MESSAGERIE VOCALE INSTANTANEE POUR L'INTERNET DES OBJETS**  
[72] SAADOUN, FABRICE, IL  
[72] MIZRACHI, DAVID, IL  
[72] GILOR, TAL, IL  
[72] TOV, JACOB SHEM, IL  
[72] SHTEIN, EVGENY, IL  
[71] MOTOROLA SOLUTIONS, INC., US  
[85] 2020-03-10  
[86] 2018-08-30 (PCT/US2018/048670)  
[87] (WO2019/055218)  
[30] US (15/706,795) 2017-09-18

[21] **3,075,494**  
[13] A1

[51] **Int.Cl. A01N 25/10 (2006.01) A01N 25/08 (2006.01) A01N 37/46 (2006.01) A01N 43/56 (2006.01) A01N 47/24 (2006.01) A01P 3/00 (2006.01) A01P 7/04 (2006.01)**  
[25] EN  
[54] **NEW AGROCHEMICAL PESTICIDE COMPOSITIONS**  
[54] **NOUVELLES COMPOSITIONS AGROCHIMIQUES PESTICIDES**  
[72] XU, WEN, US  
[72] DIECKMANN, YVONNE, DE  
[72] LEVY, ANTOINE, US  
[72] BENTON, KARA, US  
[72] SCHNEIDER, KARL-HEINRICH, DE  
[71] BASF SE, DE  
[85] 2020-03-10  
[86] 2018-10-01 (PCT/EP2018/076555)  
[87] (WO2019/072602)  
[30] EP (17195449.8) 2017-10-09

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[13] A1

[51] **Int.Cl. H04W 36/14 (2009.01) H04W 16/22 (2009.01) H04W 40/02 (2009.01) H04W 48/04 (2009.01) H04W 48/06 (2009.01) H04W 48/18 (2009.01) H04B 10/118 (2013.01) H04B 7/185 (2006.01) H04K 3/00 (2006.01)**  
[25] EN  
[54] **SATELLITE SYSTEM AND METHOD FOR ADDRESSING RAIN FADE**  
[54] **SYSTEME DE SATELLITE ET PROCEDE POUR TRAITER UN AFFAIBLISSEMENT DU A LA PLUIE**  
[72] WYLER, GREGORY THANE, US  
[71] WORLDVU SATELLITES LIMITED, US  
[85] 2020-03-10  
[86] 2018-09-11 (PCT/US2018/050505)  
[87] (WO2019/051500)  
[30] US (62/557,020) 2017-09-11

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[13] A1

[51] **Int.Cl. D21C 9/14 (2006.01) D21C 11/00 (2006.01) D21C 11/06 (2006.01)**  
[25] EN  
[54] **METHOD OF CONTROLLING THE CHEMICAL BALANCE OF A PULP MILL**  
[54] **PROCEDE DE REGULATION DE L'EQUILIBRE CHIMIQUE D'UNE USINE DE PATE A PAPIER**  
[72] PEHU-LEHTONEN, LAURI, FI  
[71] ANDRITZ OY, FI  
[85] 2020-03-10  
[86] 2018-09-25 (PCT/FI2018/050691)  
[87] (WO2019/058032)  
[30] FI (20175852) 2017-09-25

[21] **3,075,497**  
[13] A1

[51] **Int.Cl. A63H 33/08 (2006.01) E04B 1/02 (2006.01) E04B 2/02 (2006.01)**  
[25] EN  
[54] **SYSTEM FOR BUILDING A LOAD BEARING STRUCTURE**  
[54] **SYSTEME DE CONSTRUCTION D'UNE STRUCTURE PORTEUSE**  
[72] JENNER, VAUGHAN MATHEW, AU  
[71] JENNER INNOVATION PTY LTD, AU  
[85] 2020-03-11  
[86] 2018-09-14 (PCT/AU2018/051004)  
[87] (WO2019/051555)  
[30] AU (2017903740) 2017-09-14

[21] **3,075,498**  
[13] A1

[51] **Int.Cl. G10D 13/02 (2020.01)**  
[25] EN  
[54] **TENSIONING SYSTEM FOR VIBRATING MEMBRANES**  
[54] **SYSTEME DE TENSION POUR MEMBRANES VIBRANTES**  
[72] WELCH, SAMUEL JUSTIN, US  
[72] AUPELL, PATRICK B., US  
[71] WELCH, SAMUEL JUSTIN, US  
[85] 2020-03-10  
[86] 2018-09-04 (PCT/US2018/049350)  
[87] (WO2019/055244)  
[30] US (62/560,060) 2017-09-18  
[30] US (16/120,866) 2018-09-04

[21] **3,075,499**  
[13] A1

[51] **Int.Cl. B01D 61/06 (2006.01) B01D 61/00 (2006.01) F03G 7/00 (2006.01) F03G 7/04 (2006.01) H02N 3/00 (2006.01)**  
[25] EN  
[54] **FERTILIZER GRADIENT ENERGY SYSTEM**  
[54] **SYSTEME ENERGETIQUE DE GRADIENTS BASE SUR UN FERTILISANT**  
[72] MAISONNEUVE, JONATHAN, US  
[71] OAKLAND UNIVERSITY, US  
[85] 2020-03-10  
[86] 2018-09-10 (PCT/US2018/050159)  
[87] (WO2019/051350)  
[30] US (62/556,702) 2017-09-11

[21] **3,075,500**  
[13] A1

[51] **Int.Cl. B63B 1/24 (2020.01) B63B 1/26 (2006.01) B63H 20/34 (2006.01)**  
[25] FR  
[54] **REAR SUPPORTING HYDRODYNAMIC ASSEMBLY OF AN OUTBOARD MOTOR FOR A LOWERED MOTOR POSITION**  
[54] **ENSEMBLE HYDRODYNAMIQUE PORTANT ARRIERE DE HORS-BORD POUR POSITION MOTEUR ABAISSE**  
[72] RAISON, DAVID, FR  
[72] LEQUIN, BENOIT, FR  
[71] SEAIR, FR  
[85] 2020-03-10  
[86] 2018-09-04 (PCT/FR2018/000210)  
[87] (WO2019/048745)  
[30] FR (17/70947) 2017-09-11  
[30] FR (17/01178) 2017-11-15

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[13] A1

[51] **Int.Cl. C01B 3/00 (2006.01) C01B 6/13 (2006.01) C01B 21/00 (2006.01) C07C 259/00 (2006.01)**

[25] FR

[54] **NEW METHOD FOR STORING HYDROGEN**

[54] **NOUVEAU PROCEDE DE STOCKAGE DE L'HYDROGENE**

[72] PUCHEAULT, MATHIEU  
JONATHAN DAMIEN, FR

[71] UNIVERSITE DE BORDEAUX, FR

[71] INSTITUT POLYTECHNIQUE DE BORDEAUX, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2020-03-10

[86] 2018-09-13 (PCT/FR2018/052250)

[87] (WO2019/053382)

[30] FR (1758543) 2017-09-14

[21] **3,075,502**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) H04W 12/08 (2009.01) G06F 3/0482 (2013.01) H04W 4/80 (2018.01) H04W 76/10 (2018.01) G06F 1/16 (2006.01) G06F 3/01 (2006.01) H04L 29/06 (2006.01) H04L 29/08 (2006.01)**

[25] EN

[54] **REMOTE INTERFACE WITH TYPE-SPECIFIC HANDSHAKE FOR CONNECTED PERSONAL PROTECTIVE EQUIPMENT**

[54] **INTERFACE DISTANTE AVEC ETABLISSEMENT DE CONNEXION SPECIFIQUE AU TYPE POUR UN EQUIPEMENT DE PROTECTION PERSONNELLE CONNECTE**

[72] LOBNER, ERIC C., US

[72] BLACKFORD, MATTHEW J., US

[72] GULLBERG, DANIEL E. G., SE

[72] ERIKSSON, EMIL R., SE

[72] JOHNSON, MICAYLA A., US

[71] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2020-03-10

[86] 2018-09-10 (PCT/US2018/050161)

[87] (WO2019/051351)

[30] US (62/556,771) 2017-09-11

[30] US (62/639,958) 2018-03-07

[21] **3,075,503**  
[13] A1

[51] **Int.Cl. B60R 21/00 (2006.01) B60R 22/02 (2006.01)**

[25] EN

[54] **PASSENGER RECEPTACLE FOR AN AMUSEMENT RIDE, METHOD FOR OPERATING SUCH A PASSENGER RECEPTACLE, AND AMUSEMENT RIDE HAVING SUCH A PASSENGER RECEPTACLE**

[54] **ACCUEIL PASSAGER POUR UN TRAJET, PROCEDE DE FONCTIONNEMENT D'UN TEL ACCUEIL PASSAGER ET VEHICULE AYANT UN TEL ACCUEIL PASSAGER**

[72] SORNIK, FRANK, DE

[72] BECHERER, MARKUS, DE

[72] SCHRADE, STEPHAN, DE

[71] MACK RIDES GMBH & CO. KG, DE

[85] 2020-03-11

[86] 2018-06-29 (PCT/EP2018/067601)

[87] (WO2019/057357)

[30] DE (10 2017 121 730.4) 2017-09-19

[21] **3,075,504**  
[13] A1

[51] **Int.Cl. F42B 12/20 (2006.01) F42C 13/00 (2006.01)**

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[54] **STAND-OFF BREACHING ROUND**

[54] **CARTOUCHE DE PERCEMENT DE BARRIERE**

[72] THORNHILL, LEE JONATHAN, GB

[71] THE SECRETARY OF STATE FOR DEFENCE, GB

[85] 2020-03-10

[86] 2018-09-01 (PCT/GB2018/000118)

[87] (WO2019/053393)

[30] GB (1714624.2) 2017-09-12

[21] **3,075,505**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) C07K 16/42 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C40B 30/04 (2006.01) C40B 40/02 (2006.01) C40B 40/10 (2006.01)**

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[54] **GPCR BINDING PROTEINS AND SYNTHESIS THEREOF**

[54] **PROTEINES SE LIANT AU GPCR ET LEURS PROCEDES DE SYNTHESE**

[72] GLANVILLE, JACOB, US

[71] TWIST BIOSCIENCE CORPORATION, US

[85] 2020-03-10

[86] 2018-09-11 (PCT/US2018/050511)

[87] (WO2019/051501)

[30] US (62/556,863) 2017-09-11

[21] **3,075,506**  
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01)**

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[54] **METHODS OF PREPARING COMPOSITIONS CONTAINING THYMOQUINONE**

[54] **PROCEDES DE PREPARATION DE COMPOSITIONS CONTENANT DE LA THYMOQUINONE**

[72] ALI, SHOUKATH M., US

[72] SHEIKH, SAIFUDDIN, US

[72] AHMAD, ATEEQ, US

[72] AHMAD, MOGHIS U., US

[72] CHEN, PAUL, US

[72] AHMAD, IMRAN, US

[71] JINA PHARMACEUTICALS, INC., US

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[86] 2018-09-12 (PCT/US2018/050728)

[87] (WO2019/055550)

[30] US (62/557,649) 2017-09-12

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[13] A1

[51] **Int.Cl. C12N 5/10 (2006.01) C12N 15/113 (2010.01) C07K 14/705 (2006.01) C12N 5/16 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **ANTIBODY-MEDIATED DELIVERY OF CAS9 TO MAMMALIAN CELLS**

[54] **ADMINISTRATION MEDIEE PAR ANTICORPS DE CAS9 A DES CELLULES DE MAMMIFERE**

[72] CORN, JACOB, CH  
[72] DEWITT, MARK, US  
[72] SHAMS, ARIK, US  
[72] FOSS, DANA V., US  
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2020-03-10  
[86] 2018-09-10 (PCT/US2018/050299)  
[87] (WO2019/051428)  
[30] US (62/557,021) 2017-09-11

[21] **3,075,508**  
[13] A1

[51] **Int.Cl. B65H 16/00 (2006.01) B65H 75/18 (2006.01)**

[25] EN

[54] **DISPENSER**

[54] **DISTRIBUTEUR**

[72] WORTHINGTON, SIMON, GB  
[71] MELITTA UK LTD, GB

[85] 2020-03-10  
[86] 2018-09-11 (PCT/GB2018/052578)  
[87] (WO2019/053416)  
[30] GB (1714866.9) 2017-09-15

[21] **3,075,509**  
[13] A1

[51] **Int.Cl. H01J 29/04 (2006.01) H01J 31/48 (2006.01) H01J 31/49 (2006.01)**

[25] EN

[54] **THERMALLY ASSISTED NEGATIVE ELECTRON AFFINITY PHOTOCATHODE**

[54] **PHOTOCATHODE A AFFINITE ELECTRONIQUE NEGATIVE ASSISTEE THERMIQUEMENT**

[72] COSTELLO, KENNETH A., US  
[72] AEBI, VERLE, US  
[72] JURKOVIC, MICHAEL, US  
[72] ZENG, XI, US  
[71] INTEVAC, INC., US

[85] 2020-03-10  
[86] 2018-09-12 (PCT/US2018/050735)  
[87] (WO2019/055554)  
[30] US (15/702,647) 2017-09-12

[21] **3,075,510**  
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/42 (2006.01) A61P 31/12 (2006.01) A61P 37/04 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTI-RESPIRATORY SYNCYTIAL VIRUS ANTIBODIES, METHODS OF THEIR GENERATION AND USE**

[54] **ANTICORPS CONTRE LE VIRUS RESPIRATOIRE SYNCYTIAL ET METHODES POUR LEURS GENERATION ET UTILISATION**

[72] WALKER, LAURA M., US  
[71] ADIMAB, LLC, US

[85] 2020-03-10  
[86] 2018-10-12 (PCT/US2018/055750)  
[87] (WO2019/075433)  
[30] US (62/572,400) 2017-10-13

[21] **3,075,511**  
[13] A1

[51] **Int.Cl. B65H 35/00 (2006.01) A47K 10/38 (2006.01) B65H 16/00 (2006.01) B65H 16/06 (2006.01) B65H 19/12 (2006.01) B65H 75/18 (2006.01)**

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[54] **DISPENSER**

[54] **DISTRIBUTEUR**

[72] WORTHINGTON, SIMON, GB  
[71] MELITTA UK LTD, GB

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[30] GB (1714865.1) 2017-09-15

[21] **3,075,512**  
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) B81B 1/00 (2006.01) B81B 7/00 (2006.01)**

[25] EN

[54] **DEVICES, SYSTEMS, AND METHODS FOR HIGH THROUGHPUT SINGLE CELL ANALYSIS**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR ANALYSE DE CELLULE UNIQUE A HAUT DEBIT**

[72] YELLEN, BENJAMIN, US  
[72] LI, YING, US  
[72] MOTSCHMAN, JEFF, US  
[71] DUKE UNIVERSITY, US

[85] 2020-03-10  
[86] 2018-10-17 (PCT/US2018/056221)  
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[30] US (62/574,865) 2017-10-20

[21] **3,075,513**  
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 20/02 (2012.01)**

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[54] **UNIFIED ELECTRONIC TRANSACTION MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DE TRANSACTIONS ELECTRONIQUES UNIFIEES**

[72] SCHNITT, DAVID, US  
[71] SCHNITT, DAVID, US

[85] 2020-03-10  
[86] 2018-09-12 (PCT/US2018/050780)  
[87] (WO2019/055584)  
[30] US (62/557,417) 2017-09-12

[21] **3,075,514**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04W 72/12 (2009.01) H04B 7/06 (2006.01)**

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[54] **APERIODIC TRACKING REFERENCE SIGNAL**

[54] **SIGNAL DE REFERENCE DE SUIVI APERIODIQUE**

[72] NAM, WOOSOOK, US  
[72] LUO, TAO, US  
[71] QUALCOMM INCORPORATED, US

[85] 2020-03-10  
[86] 2018-10-17 (PCT/US2018/056229)  
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[13] A1

[51] **Int.Cl. C23C 8/02 (2006.01) C23G 5/00 (2006.01)**

[25] EN

[54] **IMPROVED PRE-TREATMENT PROCESS OF A SURFACE OF A METALLIC SUBSTRATE**

[54] **PROCEDE DE PRETRAITEMENT AMELIORE D'UNE SURFACE D'UN SUBSTRAT METALLIQUE**

[72] HUNGER, RALPH, DE  
[72] HUNGER, ANDREAS, DE  
[72] BERGER, ROBIN, DE  
[71] BORTEC GMBH & CO. KG, DE  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/EP2018/074461)  
[87] (WO2019/057555)  
[30] EP (17191877.4) 2017-09-19

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[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01) A61M 5/14 (2006.01) B01D 19/00 (2006.01)**

[25] EN

[54] **REMOVAL OF MICROBUBBLES THROUGH DRIP CHAMBER NUCLEATION SITES**

[54] **ELIMINATION DE MICROBULLES A TRAVERS DES SITES DE NUCLEATION DE CHAMBRE D'EGOUTTAGE**

[72] YUDS, DAVID, US  
[72] CRNKOVICH, MARTIN JOSEPH, US  
[72] WEAVER, COLIN, US  
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US  
[85] 2020-03-10  
[86] 2018-10-24 (PCT/US2018/057196)  
[87] (WO2019/099157)  
[30] US (62/585,838) 2017-11-14

[21] **3,075,517**  
[13] A1

[51] **Int.Cl. A61M 5/24 (2006.01) A61M 5/00 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01) A61M 5/32 (2006.01)**

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[54] **SYRINGE WITH LOCKING MECHANISM**

[54] **SERINGUE A MECANISME DE VERROUILLAGE**

[72] COMBES, CHRISTOPHE, FR  
[72] FOULON, RICHARD, FR  
[71] SOFIC (STE FRANCAISE D'INSTRUMENTS DE CHIRURGIE), FR  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/EP2018/074629)  
[87] (WO2019/053072)  
[30] EP (17306173.0) 2017-09-12

[21] **3,075,518**  
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **BIOMARKERS AND METHODS FOR ASSESSING MYOCARDIAL INFARCTION AND SERIOUS INFECTION RISK IN RHEUMATOID ARTHRITIS PATIENTS**

[54] **BIOMARQUEURS ET METHODES D'EVALUATION DE RISQUE D'INFARCTUS DU MYOCARDE ET D'INFECTION GRAVE CHEZ DES PATIENTS ATTEINTS DE POLYARTHRITE RHUMATOIDE**

[72] CURTIS, JEFF, US  
[72] FORD, KERRI, US  
[71] CRESCENDO BIOSCIENCE, INC., US  
[71] UAB RESEARCH FOUNDATION, US  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/US2018/050817)  
[87] (WO2019/055609)  
[30] US (62/558,436) 2017-09-14

[21] **3,075,519**  
[13] A1

[51] **Int.Cl. B07B 1/00 (2006.01) B62B 1/18 (2006.01) B62B 5/00 (2006.01) B65F 1/14 (2006.01) B65G 69/12 (2006.01) B65G 69/30 (2006.01) F16M 11/00 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM AND METHOD FOR CLEANING A WHEELBARROW**

[54] **APPAREIL, SYSTEME ET PROCEDE POUR NETTOYER UNE BROUETTE**

[72] HUDSON, ANGUS JAMES, AU  
[72] VAUPEL, KARL MANNING, AU  
[72] DAVIES, SAM RHYS, AU  
[71] CLEAN BARROW PTY LTD, AU  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/AU2018/050981)  
[87] (WO2019/051539)  
[30] AU (2017903698) 2017-09-12

[21] **3,075,520**  
[13] A1

[51] **Int.Cl. A47D 9/00 (2006.01) A47C 19/04 (2006.01) A47C 19/22 (2006.01) A47D 15/00 (2006.01) B60B 33/00 (2006.01) F21V 33/00 (2006.01)**

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[54] **BASSINET**

[54] **BERCEAU**

[72] TULLY, KRISTIN, PATRICIA, US  
[72] SULLIVAN, CATHERINE, US  
[72] SEASHORE, CARL, JOHN, US  
[72] STUEBE, ALISON, MANN, US  
[72] HAGLER, TY, US  
[72] MURPHY, PATRICK, US  
[72] JOSHI, PRASAD, US  
[72] KIRK, CHARITY, GRACE, US  
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US  
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[86] 2018-09-13 (PCT/US2018/050906)  
[87] (WO2019/055671)  
[30] US (62/558,535) 2017-09-14

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[13] A1

[51] **Int.Cl. A61B 1/06 (2006.01) A61B 1/227 (2006.01)**  
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[54] **OTOSCOPE**  
[72] HOLLAND, JENNIFER LOUISE, AU  
[71] THROAT SCOPE PTY LTD, AU  
[85] 2020-03-11  
[86] 2017-09-15 (PCT/AU2017/051007)  
[87] (WO2018/049480)  
[30] AU (2016903740) 2016-09-16

[21] **3,075,522**  
[13] A1

[51] **Int.Cl. C12N 15/74 (2006.01) A61K 35/74 (2015.01) C07K 14/195 (2006.01) C12N 9/06 (2006.01)**  
[25] EN  
[54] **GENE EXPRESSION SYSTEM FOR PROBIOTIC MICROORGANISMS**  
[54] **SYSTEME D'EXPRESSION GENIQUE POUR MICROORGANISMES PROBIOTIQUES**  
[72] ABBOTT, ZACHARY, US  
[71] ZBIOTICS COMPANY, US  
[85] 2020-03-10  
[86] 2018-09-13 (PCT/US2018/050957)  
[87] (WO2019/055707)  
[30] US (62/558,346) 2017-09-13  
[30] US (16/048,147) 2018-07-27

[21] **3,075,523**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 7/02 (2006.01)**  
[25] EN  
[54] **BINDING PROTEINS TO THE HUMAN THROMBIN RECEPTOR, PAR4**  
[54] **PROTEINES DE LIAISON AU RECEPTEUR DE LA THROMBINE HUMAINE, PAR4**  
[72] HAMILTON, JUSTIN, AU  
[72] SLEEMAN, MARK, AU  
[71] MONASH UNIVERSITY, AU  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/AU2018/050985)  
[87] (WO2019/046912)  
[30] AU (2017903685) 2017-09-11

[21] **3,075,524**  
[13] A1

[51] **Int.Cl. G01N 27/82 (2006.01) G01M 17/013 (2006.01) G01M 17/10 (2006.01)**  
[25] EN  
[54] **METHOD OF AND APPARATUS FOR INSPECTING A FERROMAGNETIC OBJECT**  
[54] **PROCEDE ET APPAREIL D'INSPECTION D'UN OBJET FERROMAGNETIQUE**  
[72] BLUM, DIETER WOLFGANG, CA  
[71] KAL TIRE, CA  
[85] 2020-03-11  
[86] 2018-08-29 (PCT/CA2018/051042)  
[87] (WO2019/051583)  
[30] CA (2,979,118) 2017-09-12  
[30] US (62/568,153) 2017-10-04

[21] **3,075,525**  
[13] A1

[51] **Int.Cl. F15B 21/04 (2019.01) G01N 15/06 (2006.01)**  
[25] EN  
[54] **FILTER ASSEMBLY**  
[54] **UNITE DE FILTRATION**  
[72] FALK, THORSTEN, DE  
[71] HYDAC FILTER SYSTEMS GMBH, DE  
[85] 2020-03-11  
[86] 2018-09-05 (PCT/EP2018/073858)  
[87] (WO2019/052872)  
[30] DE (10 2017 008 580.3) 2017-09-13

[21] **3,075,526**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) A61K 31/739 (2006.01) A61K 31/787 (2006.01) A61K 38/16 (2006.01) A61K 39/102 (2006.01) A61P 15/14 (2006.01) C12N 9/12 (2006.01)**  
[25] EN  
[54] **METHODS FOR REDUCING OR SHUTTING DOWN LACTATION IN NON-HUMAN MAMMALS AND REAGENTS THEREFOR**  
[54] **PROCEDES DE REDUCTION OU D'ARRET DE LACTATION CHEZ DES MAMMIFERES NON-HUMAINS ET REACTIFS ASSOCIES**  
[72] ORMANDY, CHRIS, AU  
[72] OAKES, SAMANTHA, AU  
[72] HORSEMAN, NELSON, US  
[71] GARVAN INSTITUTE OF MEDICAL RESEARCH, AU  
[71] AMELGO LLC, US  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/AU2018/050986)  
[87] (WO2019/051540)  
[30] US (62/557,280) 2017-09-12

[21] **3,075,527**  
[13] A1

[51] **Int.Cl. A61F 13/534 (2006.01) A61F 13/53 (2006.01)**  
[25] EN  
[54] **ABSORBENT CORES AND ABSORBENT ARTICLES HAVING ANISOTROPIC FOAM STRUCTURES**  
[54] **COEURS ABSORBANTS ET ARTICLES ABSORBANTS AYANT DES STRUCTURES DE MOUSSE ANISOTROPE**  
[72] HOUBEN, ANNEMIE, BE  
[72] RODRIGUEZ PEREZ, MIGUEL ANGEL, ES  
[72] LOPEZ GIL, ALBERTO, ES  
[72] TIRADO MEDIAVILLA, JOSIAS, ES  
[72] GARCIA GONZALEZ JAVIER, ES  
[72] DHOOGHE, LIEVEN, BE  
[72] ROETS, KAREN, BR  
[71] ONTEX BVBA, BE  
[71] ONTEX GROUP NV, BE  
[85] 2020-03-11  
[86] 2018-09-13 (PCT/EP2018/074712)  
[87] (WO2019/053110)  
[30] EP (17191491.4) 2017-09-15

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[21] **3,075,528**  
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6895 (2018.01) C12N 9/02 (2006.01) C12N 9/58 (2006.01) C12N 15/52 (2006.01)**

[25] EN

[54] **HUMAN THERAPEUTIC TARGETS AND MODULATORS THEREOF**

[54] **CIBLES THERAPEUTIQUES HUMAINES ET MODULATEURS ASSOCIES**

[72] BIGGINS, JOHN BAXTER, US  
[72] BOWMAN, BRIAN ROGER, US  
[72] VERDINE, GREGORY L., US  
[71] LIFEMINE THERAPEUTICS, INC., US

[85] 2020-03-10  
[86] 2018-09-14 (PCT/US2018/051134)  
[87] (WO2019/055816)  
[30] US (62/558,744) 2017-09-14

[21] **3,075,529**  
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/30 (2006.01) E21B 43/34 (2006.01)**

[25] EN

[54] **EXTRACTION METHODS AND SYSTEMS FOR RECOVERY OF OIL FROM RESERVOIRS CONTAINING MOBILE WATER**

[54] **PROCEDES ET SYSTEMES D'EXTRACTION POUR RECUPERER DU PETROLE A PARTIR DE RESERVOIRS CONTENANT DE L'EAU LIBRE**

[72] KANTZAS, APOSTOLOS, CA  
[72] BRYAN, JONATHAN L., CA  
[72] RICHARDSON, ROBERT, CA  
[72] JONES, DONALD E. H., CA  
[71] CEC NORTH STAR ENERGY LTD., CA

[85] 2020-03-11  
[86] 2018-09-05 (PCT/CA2018/051070)  
[87] (WO2019/046938)

[21] **3,075,531**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C12N 15/113 (2010.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **AXL-SPECIFIC ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS SPECIFIQUES D'AXL ET LEURS UTILISATIONS**

[72] HENRY, KEVIN, CA  
[72] JARAMILLO, MARIA LUZ, CA  
[72] MACKENZIE, COLIN ROGER, CA  
[72] MARCIL, ANNE, CA  
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2020-03-11  
[86] 2018-09-10 (PCT/CA2018/051108)  
[87] (WO2019/051586)  
[30] US (62/557,870) 2017-09-13

[21] **3,075,532**  
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/90 (2006.01) C40B 30/06 (2006.01)**

[25] EN

[54] **MULTIPLEX PRODUCTION AND BARCODING OF GENETICALLY ENGINEERED CELLS**

[54] **PRODUCTION MULTIPLEXE ET CODIFICATION A BARRES DE CELLULES GENETIQUEMENT MODIFIEES**

[72] ROY, KEVIN, US  
[72] SMITH, JUSTIN D., US  
[72] ST. ONGE, ROBERT P., US  
[72] STEINMETZ, LARS M., US  
[72] HABER, JAMES E., US  
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[71] BRANDEIS UNIVERSITY, US

[85] 2020-03-10  
[86] 2018-09-14 (PCT/US2018/051240)  
[87] (WO2019/055878)  
[30] US (62/559,493) 2017-09-15

[21] **3,075,534**  
[13] A1

[51] **Int.Cl. C12N 5/07 (2010.01) C12N 5/0789 (2010.01) A61K 35/36 (2015.01) C12M 1/34 (2006.01)**

[25] EN

[54] **HUMAN IN VITRO ORTHOTOPIC AND METASTATIC MODELS OF CANCER**

[54] **MODELES DE CANCER METASTASIQUES ET ORTHOTOPIQUES IN VITRO HUMAINS**

[72] GOYAL, GIRIJA, US  
[72] HASSELL, BRYAN, US  
[72] INGBER, DONALD E., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2020-03-10  
[86] 2018-09-18 (PCT/US2018/051492)  
[87] (WO2019/094107)  
[30] US (62/559,958) 2017-09-18

[21] **3,075,538**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 9/00 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **TREATMENT OF INFLAMMATORY CONDITIONS BY DELIVERY OF INTERLEUKIN-1 RECEPTOR ANTAGONIST FUSION PROTEIN**

[54] **TRAITEMENT D'ETATS INFLAMMATOIRES PAR ADMINISTRATION D'UNE PROTEINE DE FUSION ANTAGONISTE DU RECEPTEUR D'INTERLEUKINE-1**

[72] TESSARI, EBEN, US  
[72] PAOLINI, JOHN, US  
[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2020-03-10  
[86] 2018-09-26 (PCT/US2018/052985)  
[87] (WO2019/067639)  
[30] US (62/563,387) 2017-09-26  
[30] US (62/616,819) 2018-01-12  
[30] US (62/625,075) 2018-02-01  
[30] US (62/639,425) 2018-03-06  
[30] US (62/654,291) 2018-04-06  
[30] US (62/691,552) 2018-06-28  
[30] US (62/716,331) 2018-08-08

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[21] **3,075,540**  
[13] A1

[51] **Int.Cl. B65D 85/68 (2006.01) B65D 19/12 (2006.01)**  
[25] EN  
[54] **FOLDABLE CRATE FOR A LAWN MAINTENANCE VEHICLE**  
[54] **CAISSE PLIABLE POUR VEHICULE D'ENTRETIEN DE PELOUSE**  
[72] KOLECKI, JASON, US  
[72] MENKE, MICHAEL D., US  
[71] MTD PRODUCTS INC, US  
[85] 2020-03-10  
[86] 2018-09-27 (PCT/US2018/053020)  
[87] (WO2019/067664)  
[30] US (62/565,409) 2017-09-29  
[30] US (16/142,204) 2018-09-26

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[21] **3,075,542**  
[13] A1

[51] **Int.Cl. B01J 20/20 (2006.01) B01J 20/28 (2006.01)**  
[25] EN  
[54] **LOW EMISSIONS, HIGH WORKING CAPACITY ADSORBENT AND CANISTER SYSTEM**  
[54] **ADSORBANT A FAIBLE EMISSION, A CAPACITE DE FONCTIONNEMENT ELEVEE ET SYSTEME ABSORBEUR**  
[72] HILTZIK, LAURENCE H., US  
[72] MILLER, JAMES R., US  
[72] WILLIAMS, ROGER S., US  
[72] THOMSON, CAMERON I., US  
[72] HEIM, MICHAEL G., US  
[72] CARD, EMMA M., US  
[71] INGEVITY SOUTH CAROLINA, LLC, US  
[85] 2020-03-10  
[86] 2018-10-01 (PCT/US2018/053823)  
[87] (WO2019/068111)  
[30] US (62/565,699) 2017-09-29

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[21] **3,075,544**  
[13] A1

[51] **Int.Cl. G06T 3/40 (2006.01)**  
[25] EN  
[54] **IMAGE SIGNAL PROCESSOR FOR PROCESSING IMAGES**  
[54] **PROCESSEUR DE SIGNAUX D'IMAGES CONCU POUR TRAITER DES IMAGES**  
[72] HWANG, HAU, US  
[72] PANKAJ, TUSHAR SINHA, US  
[72] GUPTA, VISHAL, US  
[72] LEE, JISOO, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-03-10  
[86] 2018-10-05 (PCT/US2018/054764)  
[87] (WO2019/074804)  
[30] US (62/571,182) 2017-10-11  
[30] US (15/993,223) 2018-05-30

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[21] **3,075,545**  
[13] A1

[51] **Int.Cl. D06M 15/07 (2006.01) D06M 15/09 (2006.01)**  
[25] EN  
[54] **POLYMER FIBRE HAVING IMPROVED LONG-TERM DISPERSIBILITY**  
[54] **FIBRE POLYMERE AYANT UNE MEILLEURE APTITUDE A LA DISPERSION A LONG TERME**  
[72] DAHRINGER, JORG, DE  
[72] KLANERT, MICHAEL, DE  
[72] ENGELHARDT, PETER, DE  
[72] NOTARNICOLA, ANTONIO, DE  
[71] TREVIRA GMBH, DE  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/EP2018/074633)  
[87] (WO2019/053074)  
[30] DE (10 2017 008 637.0) 2017-09-14

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[21] **3,075,547**  
[13] A1

[51] **Int.Cl. E05B 47/06 (2006.01) E05B 47/00 (2006.01)**  
[25] FR  
[54] **ELECTRONIC DEVICE FOR OPENING AND/OR CLOSING A DOOR, COMPRISING AN ELECTRIC LOCK, AND METHOD FOR THE FITTING THEREOF**  
[54] **DISPOSITIF ELECTRONIQUE POUR OUVRIR ET/OU FERMER UNE PORTE, COMPRENANT UNE SERRURE ELECTRIQUE, AINSI QUE SON PROCEDE DE POSE**  
[72] DUPREZ, GUILLAUME, FR  
[72] BALLET, ALEXANDRE, FR  
[72] LAURENT, SIMON, FR  
[71] HAVR, FR  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/FR2018/052213)  
[87] (WO2019/053363)  
[30] FR (17 58530) 2017-09-14

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[21] **3,075,549**  
[13] A1

[51] **Int.Cl. C12N 5/074 (2010.01) C12N 15/86 (2006.01)**  
[25] EN  
[54] **RNA REPLICON FOR REPROGRAMMING SOMATIC CELLS**  
[54] **REPLICON D'ARN POUR LA REPROGRAMMATION DE CELLULES SOMATIQUES**  
[72] POLEGANOV, MARCO ALEXANDER, DE  
[72] PERKOVIC, MARIO, DE  
[72] SAHIN, UGUR, DE  
[72] BEISSERT, TIM, DE  
[71] BIONTECH RNA PHARMACEUTICALS GMBH, DE  
[71] TRON-TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZIN DER JOHANNES TENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/EP2018/074486)  
[87] (WO2019/053012)  
[30] EP (PCT/EP2017/073063) 2017-09-13

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[21] **3,075,553**  
[13] A1

[51] **Int.Cl. F23N 5/00 (2006.01) F22B 35/18 (2006.01) F23B 90/00 (2011.01) F23G 5/50 (2006.01) F23L 1/02 (2006.01) F23N 3/00 (2006.01)**

[25] EN

[54] **DYNAMIC HEAT RELEASE CALCULATION FOR IMPROVED FEEDBACK CONTROL OF SOLID-FUEL-BASED COMBUSTION PROCESSES**

[54] **CALCUL DE LIBERATION DE CHALEUR DYNAMIQUE POUR UNE COMMANDE DE RETROACTION AMELIOREE DE PROCESSUS DE COMBUSTION A BASE DE COMBUSTIBLE SOLIDE**

[72] JANVIER, BENOIT, CA  
[71] ENERO SOLUTIONS INC., CA  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/CA2018/051119)  
[87] (WO2019/046972)  
[30] US (62/557,120) 2017-09-11

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[21] **3,075,557**  
[13] A1

[51] **Int.Cl. E04B 1/348 (2006.01) E04B 2/00 (2006.01)**

[25] EN

[54] **WALL MODULE FOR BUILDINGS**

[54] **MODULE DE PAROI POUR BATIMENTS**

[72] CORAINI, VINCENT, CA  
[72] MCGUIRE, RINA, CA  
[72] SALEM, JAD, CA  
[72] MCGUIRE, ERIC, CA  
[71] 10163511 CANADA INC., CA  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/CA2018/051122)  
[87] (WO2019/046974)  
[30] US (62/556,808) 2017-09-11

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[21] **3,075,558**  
[13] A1

[51] **Int.Cl. G01B 5/25 (2006.01) B29C 33/00 (2006.01) G01B 7/16 (2006.01)**

[25] EN

[54] **INJECTION MOLDING APPARATUS AND METHOD OF DETECTING MISALIGNMENT IN THE INJECTION MOLDING APPARATUS**

[54] **APPAREIL DE MOULAGE PAR INJECTION ET PROCEDE DE DETECTION DE DEFAUT D'ALIGNEMENT DANS L'APPAREIL DE MOULAGE PAR INJECTION**

[72] HALTER, CHRISTOPHE, BE  
[72] GUO, TENG, CA  
[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/CA2018/051126)  
[87] (WO2019/075554)  
[30] US (62/574,272) 2017-10-19

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[21] **3,075,559**  
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01)**

[25] EN

[54] **WALL ATTACHMENT DEVICE FOR HANDRAIL AND HANDRAIL ASSEMBLY COMPRISING THE SAME**

[54] **DISPOSITIF DE FIXATION MURALE POUR MAIN COURANTE ET ENSEMBLE MAIN COURANTE LE COMPRENANT**

[72] WARSHAW, WILLIAM KELL, CA  
[71] 9220-6820 QUEBEC INC., CA  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/CA2018/051130)  
[87] (WO2019/051593)  
[30] US (62/557,524) 2017-09-12

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[21] **3,075,561**  
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/00 (2006.01) A61P 37/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **IL-6R ANTIBODY AND ANTIGEN-BINDING FRAGMENT THEREOF AND MEDICAL USE**

[54] **ANTICORPS ANTI-IL-6R, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION MEDICALE ASSOCIEE**

[72] YING, HUA, CN  
[72] JIN, HOUCONG, CN  
[72] HU, QIYUE, CN  
[72] GE, HU, CN  
[72] WANG, YIFANG, CN  
[72] TAO, WEIKANG, CN  
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/CN2018/105180)  
[87] (WO2019/052457)  
[30] CN (201710821975.4) 2017-09-13

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[21] **3,075,562**  
[13] A1

[51] **Int.Cl. A61L 2/04 (2006.01) A61L 2/26 (2006.01)**

[25] EN

[54] **HEAT STERILIZER**

[54] **STERILISATEUR THERMIQUE**

[72] SCHONING, LARS, DK  
[71] JAKOBSSGAARD, HENNY, DK  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/DK2018/000095)  
[87] (WO2019/052612)  
[30] DK (PA 2017 70690) 2017-09-13

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[21] **3,075,563**  
[13] A1

[51] **Int.Cl. F16L 5/04 (2006.01) H02G 3/04 (2006.01) H02G 3/22 (2006.01)**  
[25] EN  
[54] **CONDUIT THROUGH WHICH AT LEAST ONE PIPE OR CABLE EXTENDS, AND METHOD FOR SEALING SUCH A CONDUIT**  
[54] **CONDUIT A TRAVERS LEQUEL S'ETEND AU MOINS UN TUYAU OU UN CABLE ET PROCEDE DE SCHELLEMENT D'UN TEL CONDUIT**  
[72] BEELE, JOHANNES ALFRED, NL  
[71] BEELE ENGINEERING B.V., NL  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/EP2018/074395)  
[87] (WO2019/048691)  
[30] NL (1042540) 2017-09-11

[21] **3,075,581**  
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01) G02B 6/52 (2006.01) G02B 6/54 (2006.01)**  
[25] EN  
[54] **CABLE SHEATH MATERIAL**  
[54] **MATERIAU DE GAINÉ DE CABLE**  
[72] SKARGARD, FREDRIK, SE  
[72] EKSTEDT, JONAS, SE  
[72] LINDROTH, ANDERS, SE  
[72] FARLIN, ROGER, SE  
[71] HEXATRONIC CABLES & INTERCONNECT SYSTEMS AB, SE  
[85] 2020-03-11  
[86] 2018-09-13 (PCT/EP2018/074787)  
[87] (WO2019/053146)  
[30] EP (17190947.6) 2017-09-13

[21] **3,075,582**  
[13] A1

[51] **Int.Cl. A61K 31/7004 (2006.01) A61L 33/00 (2006.01) A61P 15/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS, USES AND METHODS FOR TREATMENT OF INFERTILITY AND SUBFERTILITY**  
[54] **COMPOSITIONS, UTILISATIONS ET METHODES POUR LE TRAITEMENT DE L'INFERTILITE ET DE LA SOUS-FERTILITE**  
[72] UNFER, VITTORIO, IT  
[71] LO.LI. PHARMA S.R.L., IT  
[85] 2020-03-11  
[86] 2018-09-18 (PCT/EP2018/075203)  
[87] (WO2019/057709)  
[30] IT (102017000104446) 2017-09-19

[21] **3,075,585**  
[13] A1

[51] **Int.Cl. C09K 5/06 (2006.01) A61F 7/02 (2006.01) A61L 26/00 (2006.01) C08K 3/36 (2006.01) F28D 20/02 (2006.01)**  
[25] EN  
[54] **GEL COMPOSITION COMPRISING A PHASE CHANGE MATERIAL**  
[54] **COMPOSITION DE GEL COMPRENANT UN MATERIAU A CHANGEMENT DE PHASE**  
[72] ALTAY, ALTUG, GB  
[72] AUERBACH, MARCO MARIA, GB  
[71] CRODA INTERNATIONAL PLC, GB  
[85] 2020-03-11  
[86] 2018-09-18 (PCT/EP2018/075237)  
[87] (WO2019/068458)  
[30] GB (1715950.0) 2017-10-02

[21] **3,075,588**  
[13] A1

[51] **Int.Cl. C09K 8/584 (2006.01) C11D 1/29 (2006.01)**  
[25] EN  
[54] **ROBUST ALKYL ETHER SULFATE MIXTURE FOR ENHANCED OIL RECOVERY**  
[54] **MELANGE DE SULFATE D'ETHER ALKYLIQUE ROBUSTE POUR RECUPERATION AMELIOREE D'HUILE**  
[72] BITTNER, CHRISTIAN, DE  
[72] MISHRA, ASHOK KUMAR, SG  
[72] COHEN, KATHRIN, DE  
[72] HERNANDEZ MORALES, CLARA MARIA, DE  
[72] LOHATEERAPARP, PRAPAS, US  
[72] RATHS, HANS-CHRISTIAN, DE  
[72] BUESCHEL, MICHAEL, DE  
[72] ALVAREZ JUERGENSEN, GABRIELA, DE  
[72] ALTMANN, THOMAS, DE  
[72] WENZKE, BENJAMIN, DE  
[71] BASF SE, DE  
[85] 2020-03-11  
[86] 2018-09-19 (PCT/EP2018/075345)  
[87] (WO2019/057769)  
[30] EP (17192299.0) 2017-09-21

[21] **3,075,589**  
[13] A1

[51] **Int.Cl. B01J 13/04 (2006.01) B01J 13/00 (2006.01) C04B 20/10 (2006.01)**  
[25] EN  
[54] **CORE-SHELL EXPANDING AGENTS AND THEIR USE IN CEMENTITIOUS SYSTEMS**  
[54] **AGENTS D'EXPANSION A NOYAU ET ENVELOPPE ET LEUR UTILISATION DANS DES SYSTEMES CIMENTAIRES**  
[72] CHOI, SUNG YEUN, DE  
[72] BERGNER, KAI, DE  
[72] KIERAT, RADOSLAW, DE  
[72] MUELLER, MICHAEL KLEMENS, DE  
[71] BASF SE, DE  
[85] 2020-03-11  
[86] 2018-09-25 (PCT/EP2018/075858)  
[87] (WO2019/076585)  
[30] EP (17196347.3) 2017-10-13

[21] **3,075,591**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) B01J 19/18 (2006.01) C12M 1/36 (2006.01)**  
[25] EN  
[54] **OPTIMIZATION OF FERMENTATION PROCESSES**  
[54] **OPTIMISATION D'UN PROCEDE DE FERMENTATION**  
[72] CHRISTENSEN, IB, DK  
[72] PETERSEN, LEANDER, DK  
[72] DREJER, ANDRE KOFOED, DK  
[72] JORGENSEN, JOHN BAGTERP, SE  
[72] JORGENSEN, STEN BAY, DK  
[72] KNUDSEN, JORGEN K. H., DK  
[71] UNIBIO A/S, DK  
[85] 2020-03-11  
[86] 2018-09-28 (PCT/EP2018/076502)  
[87] (WO2019/063809)  
[30] DK (PA 2017 00539) 2017-09-29

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[21] **3,075,592**  
[13] A1

[51] **Int.Cl. C12P 19/14 (2006.01) C12P 7/10 (2006.01)**  
[25] EN  
[54] **PROCESS FOR ENZYMATIC HYDROLYSIS OF LIGNOCELLULOSIC MATERIAL AND FERMENTATION OF SUGARS**  
[54] **PROCEDE POUR L'HYDROLYSE ENZYMATIQUE DE MATIERE LIGNOCELLULOSIQUE ET LA FERMENTATION DE SUCRES**  
[72] KROON, JOHANNES AUGUSTINUS, NL  
[72] WOESTENBORGH, PIERRE LOUIS, NL  
[71] DSM IP ASSETS B.V., NL  
[85] 2020-03-11  
[86] 2018-10-08 (PCT/EP2018/077255)  
[87] (WO2019/072732)  
[30] EP (17195379.7) 2017-10-09

[21] **3,075,594**  
[13] A1

[51] **Int.Cl. F16F 9/32 (2006.01) F15B 15/14 (2006.01) F16F 9/02 (2006.01) F16J 13/12 (2006.01)**  
[25] EN  
[54] **SEAL HOUSING**  
[54] **BOITIER D'ETANCHEITE**  
[72] PEGRAM, CHRISTOPHER JOHN, GB  
[72] HYNES, PAUL TERENCE, GB  
[71] METROL SPRINGS LIMITED, GB  
[85] 2020-03-11  
[86] 2018-08-28 (PCT/GB2018/052421)  
[87] (WO2019/053397)  
[30] GB (1714654.9) 2017-09-12

[21] **3,075,595**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/497 (2006.01)**  
[25] EN  
[54] **BIOMARKER**  
[54] **COMPOSES ORGANIQUES VOLATILS UTILISES EN TANT QUE BIOMARQUEURS DU CANCER**  
[72] HANNA, GEORGE, GB  
[72] MARKAR, SHERAZ, GB  
[71] IP2IPO INNOVATIONS LIMITED, GB  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/GB2018/052574)  
[87] (WO2019/053414)  
[30] GB (1714797.6) 2017-09-14

[21] **3,075,596**  
[13] A1

[51] **Int.Cl. B28B 19/00 (2006.01) H02S 20/26 (2014.01) B24C 1/00 (2006.01) B32B 7/12 (2006.01) B32B 13/00 (2006.01)**  
[25] EN  
[54] **METHOD OF MANUFACTURING A CONCRETE ELEMENT**  
[54] **PROCEDE DE FABRICATION D'UN ELEMENT EN BETON**  
[72] HORGNIER, MATTHIEU, FR  
[72] LEGRAND, FABIENNE, FR  
[72] MOLINES, GERARD, FR  
[72] MEUNIER, LAURENT, FR  
[72] DUBOIS-BRUGGER, ISABELLE, FR  
[71] HOLCIM TECHNOLOGY LTD, CH  
[85] 2020-03-11  
[86] 2018-09-05 (PCT/IB2018/056766)  
[87] (WO2019/049036)  
[30] EP (17290116.7) 2017-09-11

[21] **3,075,600**  
[13] A1

[51] **Int.Cl. B22F 1/02 (2006.01) C01B 32/949 (2017.01) B22F 5/00 (2006.01) C22C 26/00 (2006.01)**  
[25] EN  
[54] **WEAR RESISTANT LAYER**  
[54] **COUCHE RESISTANT A L'USURE**  
[72] LIU, WEI, US  
[72] WANG, ZHONGMING, US  
[72] BELL, ANDREW, US  
[71] OERLIKON METCO (US) INC., US  
[85] 2020-03-11  
[86] 2018-10-31 (PCT/IB2018/058540)  
[87] (WO2019/087097)  
[30] US (62/579,778) 2017-10-31

[21] **3,075,601**  
[13] A1

[51] **Int.Cl. F41G 7/22 (2006.01) G01S 7/48 (2006.01) G01S 17/42 (2006.01)**  
[25] EN  
[54] **ACTIVE SEEKER HEAD SYSTEM**  
[54] **SYSTEME DE TETE CHERCHEUSE ACTIVE**  
[72] LEVY, SHAHAR, IL  
[71] ISRAEL AEROSPACE INDUSTRIES LTD., IL  
[85] 2020-03-11  
[86] 2018-09-05 (PCT/IL2018/050988)  
[87] (WO2019/053707)  
[30] IL (254460) 2017-09-12

[21] **3,075,602**  
[13] A1

[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 80/00 (2015.01) B29C 64/20 (2017.01) B29C 64/245 (2017.01)**  
[25] EN  
[54] **A GANTRY-TYPE THREE DIMENSIONAL PRINTING APPARATUS FOR PRINTING A THREE DIMENSIONAL WORK PIECE IN A LAYER WISE MANNER**  
[54] **APPAREIL D'IMPRESSION EN TROIS DIMENSIONS DE TYPE PORTIQUE POUR IMPRIMER UNE PIECE A TRAVAILLER EN TROIS DIMENSIONS PAR COUCHES**  
[72] SCHURMANN, STEPHAN, NL  
[71] BLACKBELT HOLDING B.V., NL  
[85] 2020-03-11  
[86] 2018-04-16 (PCT/NL2018/050236)  
[87] (WO2018/194446)  
[30] NL (2018728) 2017-04-18

[21] **3,075,603**  
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01)**  
[25] EN  
[54] **HIGH FREQUENCY TREATMENT DEVICE, HIGH FREQUENCY TREATMENT DEVICE KNIFE, AND HIGH FREQUENCY TREATMENT DEVICE DISTAL TREATMENT INSTRUMENT**  
[54] **OUTIL DE TRAITEMENT HAUTE FREQUENCE, COUTEAU D'OUTIL DE TRAITEMENT HAUTE FREQUENCE ET OUTIL DE TRAITEMENT D'EXTREMITE DE POINTE D'OUTIL DE TRAITEMENT HAUTE FREQUENCE**  
[72] ITAMI, YASUHIRO, JP  
[72] IKEDA, MASAO, JP  
[72] ISHII, YASUHISA, JP  
[71] SUMITOMO BAKELITE CO., LTD., JP  
[85] 2020-03-11  
[86] 2018-09-10 (PCT/JP2018/033372)  
[87] (WO2019/050025)  
[30] JP (2017-174238) 2017-09-11  
[30] JP (2017-174239) 2017-09-11  
[30] JP (2018-076776) 2018-04-12  
[30] JP (2018-076777) 2018-04-12

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[21] **3,075,606**  
[13] A1

[51] **Int.Cl. B65D 81/24 (2006.01) B65D 77/04 (2006.01) B65D 88/22 (2006.01)**

[25] EN

[54] **A BAG FOR PREVENTION OF PUTREFACTION OF FOODSTUFFS, AND A STRUCTURE FOR PREVENTION OF PUTREFACTION OF FOODSTUFFS CONTAINED IN THE BAG**

[54] **SAC POUR EMPECHER LA DETERIORATION D'ALIMENTS ET STRUCTURE DE PREVENTION DE DETERIORATION D'ALIMENTS POUR UN SAC DANS LEQUEL DES ALIMENTS SONT ENFERMES**

[72] OKI, HISAHARU, JP  
[72] MURATA, YUKIO, JP  
[71] OKI, HISAHARU, JP  
[71] MURATA, YUKIO, JP  
[71] TANAKA, AKIRA, JP  
[71] OGURA, HIDEHUMI, JP  
[85] 2020-03-11  
[86] 2018-09-18 (PCT/JP2018/034463)  
[87] (WO2019/054520)  
[30] JP (2017-178083) 2017-09-15

[21] **3,075,607**  
[13] A1

[51] **Int.Cl. A61K 38/06 (2006.01) A23L 33/18 (2016.01)**

[25] EN

[54] **USE OF PEPTIDES AS THERAPEUTIC AGENT FOR AUTOIMMUNE DISEASES AND BONE DISEASES**

[54] **UTILISATION DE PEPTIDES EN TANT QU'AGENT THERAPEUTIQUE CONTRE DES MALADIES AUTO-IMMUNES ET DES MALADIES OSSEUSES**

[72] CHO, DAE HO, KR  
[72] KIM, KYUNG EUN, KR  
[72] KIM, MYUN SOO, KR  
[72] PARK, SUN YOUNG, KR  
[72] JUNG, HEE YOUNG, KR  
[71] KINE SCIENCES CO., LTD., KR  
[85] 2020-03-11  
[86] 2018-09-14 (PCT/KR2018/010873)  
[87] (WO2019/054808)  
[30] KR (10-2017-0118947) 2017-09-15  
[30] KR (10-2017-0118949) 2017-09-15  
[30] KR (10-2018-0110473) 2018-09-14  
[30] KR (10-2018-0110480) 2018-09-14

[21] **3,075,609**  
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C23C 22/00 (2006.01) H01F 1/147 (2006.01) C22C 38/60 (2006.01)**

[25] EN

[54] **GRAIN-ORIENTED ELECTRICAL STEEL SHEET**

[54] **TOLE D'ACIER ELECTRIQUE A GRAINS ORIENTES**

[72] SENDA, KUNIHIRO, JP  
[72] WATANABE, MAKOTO, JP  
[72] OKABE, SEIJI, JP  
[72] YOSHIZAKI, SOUICHIRO, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2020-03-11  
[86] 2018-09-25 (PCT/JP2018/035495)  
[87] (WO2019/065645)  
[30] JP (2017-188734) 2017-09-28

[21] **3,075,610**  
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 50/00 (2012.01) H04L 29/08 (2006.01)**

[25] EN

[54] **DEVICE, SYSTEM, AND METHOD FOR A POST BENCHMARK AND PROJECTION**

[54] **DISPOSITIF, SYSTEME ET PROCEDE DESTINES A UNE REFERENCE DE MESSAGE ET A UNE PROJECTION**

[72] BERZIN, DAVID, US  
[72] MARELLA, SASHI, US  
[72] MANOHAR, TANMAY, US  
[71] VIACOM INTERNATIONAL INC., US  
[85] 2020-03-11  
[86] 2018-07-19 (PCT/US2018/042910)  
[87] (WO2019/055123)  
[30] US (15/703,622) 2017-09-13

[21] **3,075,611**  
[13] A1

[51] **Int.Cl. H01P 5/18 (2006.01)**

[25] EN

[54] **HIGHLY DIRECTIVE ELECTROMAGNETIC COUPLER WITH ELECTRICALLY LARGE CONDUCTOR**

[54] **COUPLEUR ELECTROMAGNETIQUE HAUTEMENT DIRECTIF COMPRENANT UN CONDUCTEUR ELECTRIQUEMENT GRAND**

[72] STEWART, KELLY RYAN, US  
[72] SALEM, MATTHEW, US  
[72] WARGO, MATTHEW J., US  
[72] ANDERSON, JOSEPH M., US  
[71] RAYTHEON COMPANY, US  
[85] 2020-03-11  
[86] 2018-08-14 (PCT/US2018/046596)  
[87] (WO2019/078947)  
[30] US (15/789,288) 2017-10-20

[21] **3,075,612**  
[13] A1

[51] **Int.Cl. A47C 31/12 (2006.01) G06Q 50/22 (2018.01) A47C 27/08 (2006.01) A47C 31/00 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **AIR MATTRESS SYSTEM AND CONTROL METHOD OF AIR MATTRESS SYSTEM**

[54] **SYSTEME DE MATELAS PNEUMATIQUE ET PROCEDE DE COMMANDE DE SYSTEME DE MATELAS PNEUMATIQUE**

[72] YU, YOUNG JUN, KR  
[72] LEE, DONG HUN, KR  
[72] LEE, KEON YONG, KR  
[72] SHIN, DONG WOOK, KR  
[72] KIM, SEUNG MO, KR  
[71] IOBED INC., KR  
[85] 2020-03-11  
[86] 2017-10-16 (PCT/KR2017/011410)  
[87] (WO2019/050080)  
[30] KR (10-2017-0115955) 2017-09-11

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[21] **3,075,613**  
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 34/14 (2006.01)**

[25] EN

[54] **ELECTRONIC INITIATOR SLEEVES AND METHODS OF USE**

[54] **MANCHONS D'INITIATEUR ELECTRONIQUE ET PROCEDES D'UTILISATION**

[72] MERRON, MATTHEW JAMES, US

[72] FRIPP, MICHAEL LINLEY, US

[72] MEIJS, RAYMUNDUS JOZEF, US

[72] ROSEMAN, MATTEW BRYAN, US

[72] WALTON, ZACHARY WILLIAM, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2020-03-11

[86] 2017-12-06 (PCT/US2017/064931)

[87] (WO2019/112579)

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[21] **3,075,615**  
[13] A1

[51] **Int.Cl. A47C 27/08 (2006.01) A47C 31/12 (2006.01)**

[25] EN

[54] **AIR POCKET MODULE, AND AIR MATTRESS COMPRISING SAME**

[54] **MODULE A POCHE D'AIR ET MATELAS PNEUMATIQUE COMPRENANT CELUI-CI**

[72] YU, YOUNG JUN, KR

[72] LEE, DONG HUN, KR

[72] LEE, KEON YONG, KR

[72] SHIN, DONG WOOK, KR

[72] KIM, SEUNG MO, KR

[71] IOBED INC., KR

[85] 2020-03-11

[86] 2017-10-16 (PCT/KR2017/011412)

[87] (WO2019/050081)

[30] KR (10-2017-0115956) 2017-09-11

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[21] **3,075,617**  
[13] A1

[51] **Int.Cl. G07F 17/00 (2006.01)**

[25] EN

[54] **DEVICE FOR PACKAGING DOSED QUANTITIES OF SOLID MEDICINES**

[54] **DISPOSITIF DE CONDITIONNEMENT DE QUANTITES DOSEES DE MEDICAMENTS SOLIDES**

[72] VAN WIJNGAARDEN, ARIE, NL

[72] VAN WIJNGAARDEN, CAROLINE, NL

[71] CANISTER DEVELOPMENTS B.V., NL

[85] 2020-03-11

[86] 2018-09-12 (PCT/NL2018/050600)

[87] (WO2019/054864)

[30] NL (2019530) 2017-09-12

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[21] **3,075,614**  
[13] A1

[51] **Int.Cl. G06T 5/20 (2006.01) G06T 17/05 (2011.01) G06T 3/40 (2006.01)**

[25] EN

[54] **GRIDDING GLOBAL DATA INTO A MINIMALLY DISTORTED GLOBAL RASTER**

[54] **MAILLAGE DE DONNEES GLOBALES EN UNE TRAME GLOBALE A DISTORSION MINIMALE**

[72] KOHLMANN, FABIAN, GB

[72] BAINES, GRAHAM, GB

[71] LANDMARK GRAPHICS CORPORATION, US

[85] 2020-03-11

[86] 2017-12-28 (PCT/US2017/068626)

[87] (WO2019/132906)

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[21] **3,075,616**  
[13] A1

[51] **Int.Cl. G07F 11/42 (2006.01)**

[25] EN

[54] **APPARATUSES, SYSTEMS, AND METHODS FOR THE AUTOMATED DISPENSING OF ARTICLES**

[54] **APPAREILS, SYSTEMES ET PROCEDES POUR LA DISTRIBUTION AUTOMATISEE D'ARTICLES**

[72] GREYSHOCK, SHAWN T., US

[72] BRAUN, PATRICK JOSEPH, US

[72] PATTISON, WILLIAM B., US

[71] OMNICELL, INC., US

[85] 2020-03-11

[86] 2018-09-05 (PCT/US2018/049588)

[87] (WO2019/067174)

[30] US (15/719,671) 2017-09-29

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[21] **3,075,618**  
[13] A1

[51] **Int.Cl. A61G 1/00 (2006.01) A61G 1/003 (2006.01) A61G 1/013 (2006.01) A61G 1/044 (2006.01) A61G 7/10 (2006.01)**

[25] EN

[54] **AIR-BEARING PATIENT TRANSFER SYSTEM**

[54] **SYSTEME DE TRANSFERT DE PATIENT A PALIER A AIR**

[72] EMERSON, AARON J., US

[72] RUST, MATTHEW, US

[71] CEGA INNOVATIONS, INC., US

[85] 2020-03-11

[86] 2018-05-29 (PCT/US2018/034904)

[87] (WO2019/067025)

[30] US (62/563,906) 2017-09-27

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[21] **3,075,619**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR PERFORMING A PATIENT-SPECIFIC IMMUNOTHERAPY PROCEDURE WITH CHAIN-OF-CUSTODY AND CHAIN-OF-IDENTITY BIOLOGICAL SAMPLE TRACKING**

[54] **PROCEDES ET SYSTEMES PERMETTANT D'EFFECTUER UNE PROCEDURE D'IMMUNOTHERAPIE PROPRE A UN PATIENT AVEC SUIVI D'ECHANTILLON BIOLOGIQUE DE CHAINE DE CONTROLE ET DE CHAINE D'IDENTITE**

[72] SUSARCHICK, DEBRA, US  
[72] UHRIN, JOHN, US  
[72] KORFIN, MICHELE, US  
[71] KITE PHARMA, INC., US  
[85] 2020-03-11  
[86] 2018-09-17 (PCT/US2018/051298)  
[87] (WO2019/055896)  
[30] US (62/559,330) 2017-09-15  
[30] US (62/566,912) 2017-10-02

[21] **3,075,620**  
[13] A1

[51] **Int.Cl. H04N 21/44 (2011.01) H04N 21/81 (2011.01) G06K 9/00 (2006.01)**

[25] EN

[54] **FLAGGING ADVERTISEMENT FRAMES FOR AUTOMATIC CONTENT RECOGNITION**

[54] **BALISAGE DE TRAMES PUBLICITAIRES POUR UNE RECONNAISSANCE AUTOMATIQUE DE CONTENU**

[72] CHEN, JUIKUN, US  
[71] THE NIELSEN COMPANY (US), LLC, US  
[85] 2020-03-11  
[86] 2018-09-10 (PCT/US2018/050184)  
[87] (WO2019/055338)  
[30] US (15/703,391) 2017-09-13

[21] **3,075,621**  
[13] A1

[51] **Int.Cl. B65D 85/02 (2006.01) G02B 6/00 (2006.01) G02B 6/36 (2006.01) G02B 6/44 (2006.01)**

[25] EN

[54] **REEL ENCLOSURES**

[72] DAoust, DANIEL, US  
[72] CARAPPELLA, PETER A., US  
[72] MONTENA, NOAH P., US  
[71] PPC BROADBAND, INC., US  
[85] 2020-03-11  
[86] 2018-09-11 (PCT/US2018/050536)  
[87] (WO2019/051508)  
[30] US (62/557,139) 2017-09-11  
[30] US (62/584,647) 2017-11-10  
[30] US (62/613,047) 2018-01-02

[21] **3,075,622**  
[13] A1

[51] **Int.Cl. A47B 3/06 (2006.01) A21B 1/00 (2006.01) A47B 3/12 (2006.01) A47B 31/00 (2006.01)**

[25] EN

[54] **CONVERTIBLE BREAKFAST STATION**

[54] **STATION DE PETIT-DEJEUNER CONVERTIBLE**

[72] DURAND, SELMA, US  
[72] SMALL, NICOLE, US  
[71] SIX CONTINENTS, INC., US  
[85] 2020-03-11  
[86] 2018-09-17 (PCT/US2018/051338)  
[87] (WO2019/055917)  
[30] US (62/559,055) 2017-09-15

[21] **3,075,623**  
[13] A1

[51] **Int.Cl. A23L 27/40 (2016.01) A23L 29/294 (2016.01) A23L 33/10 (2016.01)**

[25] EN

[54] **LOW SODIUM SALT SUBSTITUTE WITH POTASSIUM CHLORIDE**

[54] **SUBSTITUT DE SEL PAUVRE EN SODIUM COMPRENANT DU CHLORURE DE POTASSIUM**

[72] BROPHY, JAMES S., US  
[72] DAVIS, FRANK E., US  
[72] CHIGURUPATI, SAMBASIVA RAO, US  
[72] TROTTER, CHRIS, US  
[71] S & P INGREDIENT DEVELOPMENT, LLC, US  
[85] 2020-03-11  
[86] 2018-06-15 (PCT/US2018/037857)  
[87] (WO2019/055082)  
[30] US (62/560,117) 2017-09-18

[21] **3,075,624**  
[13] A1

[51] **Int.Cl. A23J 3/22 (2006.01) A23L 29/262 (2016.01) A23J 1/00 (2006.01) A23J 1/16 (2006.01) A23J 3/14 (2006.01) A23J 3/28 (2006.01)**

[25] EN

[54] **POTATO PROTEIN BASED FIBROUS STRUCTURES AND FOOD ITEMS COMPRISING THE SAME**

[54] **STRUCTURES FIBREUSES A BASE DE PROTEINES DE POMME DE TERRE ET PRODUITS ALIMENTAIRES COMPRENANT CELLES-CI**

[72] ZHU, SICONG, NL  
[72] PHAN, VAN ANH, NL  
[72] LAUS, MARC CHRISTIAAN, NL  
[71] COOPERATIE AVEBE U.A., NL  
[85] 2020-03-11  
[86] 2018-10-31 (PCT/NL2018/050726)  
[87] (WO2019/088834)  
[30] EP (17199381.9) 2017-10-31

[21] **3,075,625**  
[13] A1

[51] **Int.Cl. E21B 29/00 (2006.01) E21B 31/16 (2006.01) E21B 31/20 (2006.01)**

[25] EN

[54] **INSTALLING MULTIPLE TUBULAR STRINGS THROUGH BLOWOUT PREVENTER**

[54] **INSTALLATION DE MULTIPLES RAMES TUBULAIRES PAR L'INTERMEDIAIRE D'UN BLOC OBTURATEUR DE PUIIS**

[72] MELTON, MATTHEW E., US  
[72] WIESNER, BRIAN C., US  
[72] KIRKSEY, STEVEN L., US  
[72] JEANES, SEAN A., US  
[72] BURROWS, STEVEN K., US  
[71] DOWNING WELLHEAD EQUIPMENT, LLC, US  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/US2018/050614)  
[87] (WO2019/055482)  
[30] US (62/557,617) 2017-09-12  
[30] US (62/667,279) 2018-05-04

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[21] **3,075,626**  
[13] A1

[51] **Int.Cl. B63H 25/46 (2006.01) B63H 11/08 (2006.01) B64D 33/04 (2006.01) F02K 1/00 (2006.01)**

[25] EN

[54] **MULTI-NOZZLE JET PROPULSOR**

[54] **PROPULSEUR A JETS A BUSES MULTIPLES**

[72] IVANOV, VLADIMIR  
EVGENIEVICH, RU

[71] IVANOV, VLADIMIR  
EVGENIEVICH, RU

[85] 2020-03-11

[86] 2019-02-20 (PCT/RU2019/000106)

[87] (WO2019/172808)

[30] RU (2018108167) 2018-03-06

[21] **3,075,627**  
[13] A1

[51] **Int.Cl. G06F 3/0484 (2013.01) G06F 3/0482 (2013.01) G06F 3/0488 (2013.01)**

[25] EN

[54] **INTEGRATED DOCUMENT EDITOR**

[54] **EDITEUR DE DOCUMENT INTEGRE**

[72] ZEEVI, ELI, US

[71] ZEEVI, ELI, US

[85] 2020-03-11

[86] 2018-09-18 (PCT/US2018/051400)

[87] (WO2019/055952)

[30] US (62/559,269) 2017-09-15

[21] **3,075,629**  
[13] A1

[51] **Int.Cl. C12Q 1/6858 (2018.01) C12Q 1/683 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/6874 (2018.01)**

[25] EN

[54] **DETECTION OF RECOMBINASE POLYMERASE AMPLIFICATION USING DUAL-HAPTEN PROBE**

[54] **DETECTION D'AMPLIFICATION PAR POLYMERASE RECOMBINASE A L'AIDE D'UNE SONDE A DOUBLE HAPTENE**

[72] POWELL, MICHAEL L., US

[72] BOWLER, FRANK RAY, US

[72] GREENWOOD, CATHERINE JEAN, US

[72] PIEPENBURG, OLAF, US

[72] ARMES, NIAL A., US

[71] ALERE SAN DIEGO, INC., US

[85] 2020-03-11

[86] 2018-09-14 (PCT/US2018/051078)

[87] (WO2019/055780)

[30] US (62/558,705) 2017-09-14

[21] **3,075,630**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **CD1D AND TCR-NKT CELLS**

[54] **CELLULES CD1D ET TCR-NKT**

[72] SOON-SHIONG, PATRICK, US

[72] NIAZI, KAYVAN, US

[71] NANTCELL, INC., US

[85] 2020-03-11

[86] 2018-09-28 (PCT/US2018/053506)

[87] (WO2019/067951)

[30] US (62/565,776) 2017-09-29

[30] US (62/585,498) 2017-11-13

[21] **3,075,631**  
[13] A1

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

[25] EN

[54] **A CARTRIDGE CONFIGURED TO FORM A PART OF A TEATCUP, AND A TEATCUP**

[54] **CARTOUCHE CONCUE POUR FORMER UNE PARTIE D'UN GOBELET TRAYEUR, ET GOBELET TRAYEUR**

[72] ANDERSSON, ANNA, SE

[71] DELAVAL HOLDING AB, SE

[85] 2020-03-11

[86] 2018-10-23 (PCT/SE2018/051080)

[87] (WO2019/083433)

[30] SE (1751322-7) 2017-10-26

[21] **3,075,632**  
[13] A1

[51] **Int.Cl. A61B 5/16 (2006.01) A61B 3/113 (2006.01)**

[25] EN

[54] **EYE TRACKING SYSTEM**

[54] **SYSTEME DE SUIVI OCULAIRE**

[72] SAMADANI, ROSINA, US

[72] SANDERSON, DANIEL O., US

[71] OCULOGICA INC., US

[85] 2020-03-11

[86] 2018-09-12 (PCT/US2018/050650)

[87] (WO2019/055504)

[30] US (62/558,069) 2017-09-13

[21] **3,075,633**  
[13] A1

[51] **Int.Cl. A41F 1/06 (2006.01) A41D 13/06 (2006.01) A41D 19/00 (2006.01) A41D 19/015 (2006.01) A41F 1/00 (2006.01)**

[25] EN

[54] **PROTECTIVE GLOVE HAVING SELF-OCCLUDING CUFF**

[54] **GANT DE PROTECTION MUNI D'UN POIGNET AUTO-OBTURANT**

[72] BADER, YVES, FR

[71] DUPONT SAFETY & CONSTRUCTION, INC., US

[85] 2020-03-11

[86] 2018-09-18 (PCT/US2018/051473)

[87] (WO2019/060286)

[30] US (62/561,324) 2017-09-21

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[21] **3,075,634**  
[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 7/10 (2016.01) A23L 7/126 (2016.01) A23L 7/139 (2016.01) A23L 7/196 (2016.01)**

[25] EN

[54] **METHOD OF PRODUCING ROASTED OATS AND ROASTED OAT-BASED PEANUT BUTTER-FLAVORED COMPOSITIONS**

[54] **PROCEDE DE PRODUCTION D'AVOINE TORREFIEE ET COMPOSITIONS AU GOUT DE BEURRE DE CACAHUETE A BASE D'AVOINE TORREFIEE**

[72] GUGGER, ERIC T., US  
[72] GALUSKA, PETE, US  
[71] GENERAL MILLS, INC., US  
[85] 2020-03-11  
[86] 2017-10-13 (PCT/US2017/056572)  
[87] (WO2019/074520)

[21] **3,075,635**  
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 35/742 (2015.01) A61K 8/46 (2006.01) A61K 8/64 (2006.01) A61K 8/99 (2017.01) A61K 9/00 (2006.01) A61P 17/08 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING TRIPEPTIDE CONTAINING OLEANOLIC ACID AND ITS THERAPEUTIC APPLICATIONS THEREOF**

[54] **PROCEDE DE PREPARATION DE TRIPEPTIDE CONTENANT DE L'ACIDE OLEANOLIQUE ET APPLICATIONS THERAPEUTIQUES ASSOCIEES**

[72] MAJEED, MUHAMMED, US  
[72] NAGABHUSHANAM, KALYANAM, US  
[72] MUNDKUR, LAKSHMI, IN  
[72] RAMANUJAM, RAJENDRAN, IN  
[71] MAJEED, MUHAMMED, US  
[71] NAGABHUSHANAM, KALYANAM, US  
[71] MUNDKUR, LAKSHMI, IN  
[71] RAMANUJAM, RAJENDRAN, IN  
[85] 2020-03-11  
[86] 2018-09-19 (PCT/US2018/051653)  
[87] (WO2019/060357)  
[30] IN (201741033476) 2017-09-21

[21] **3,075,636**  
[13] A1

[51] **Int.Cl. A61F 2/958 (2013.01)**

[25] EN

[54] **DELIVERY BALLOON WITH RETRACTABLE RETENTION CUFFS**

[54] **BALLONNET DE MISE EN PLACE DOTE DE MANCHONS DE RETENUE RETRACTABLES**

[72] PAQUIN, MARK, US  
[72] BROECKER, DAVID, US  
[71] ZORION MEDICAL, INC., US  
[85] 2020-03-11  
[86] 2018-10-04 (PCT/US2018/054382)  
[87] (WO2019/070987)  
[30] US (62/568,123) 2017-10-04

[21] **3,075,637**  
[13] A1

[51] **Int.Cl. B41J 3/407 (2006.01) B41J 2/005 (2006.01)**

[25] EN

[54] **CONTAINER DECORATION APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE DECORATION DE CONTENANT**

[72] STOWITTS, ADAM P.C., US  
[72] ELLEFSON, DEAN C., US  
[71] BALL CORPORATION, US  
[85] 2020-03-11  
[86] 2018-09-19 (PCT/US2018/051719)  
[87] (WO2019/060396)  
[30] US (62/560,354) 2017-09-19  
[30] US (62/579,236) 2017-10-31

[21] **3,075,638**  
[13] A1

[51] **Int.Cl. A61K 31/351 (2006.01) A61K 31/453 (2006.01) A61K 31/536 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY USING A CHEMOKINE RECEPTOR 2 (CCR2) ANTAGONIST AND A PD-1/PD-L1 INHIBITOR**

[54] **POLYTHERAPIE UTILISANT UN ANTAGONISTE DU RECEPTEUR 2 DE LA CHIMIOKINE (CCR2) ET UN INHIBITEUR PD-1/PD-L1**

[72] CAMPBELL, JAMES J., US  
[72] MIAO, ZHENHUA, US  
[72] CHARO, ISRAEL, US  
[72] SINGH, RAJINDER, US  
[72] JANSON, CHRISTINE MARIE, US  
[72] SCHALL, THOMAS J., US  
[72] EBSWORTH, KAREN, US  
[72] LI, SHIJIE, US  
[71] CHEMOCENTRYX, INC., US  
[85] 2020-03-11  
[86] 2018-09-24 (PCT/US2018/052408)  
[87] (WO2019/060820)  
[30] US (62/562,952) 2017-09-25

[21] **3,075,639**  
[13] A1

[51] **Int.Cl. F25B 9/00 (2006.01) C09K 5/04 (2006.01)**

[25] EN

[54] **HEAT TRANSFER METHODS, SYSTEMS AND COMPOSITIONS**

[54] **PROCEDES, SYSTEMES ET COMPOSITIONS DE TRANSFERT DE CHALEUR**

[72] SETHI, ANKIT, US  
[72] YANA MOTTA, SAMUEL, US  
[72] VERA BECERRA, ELIZABET DEL CARMEN, US  
[72] ZHOU, YANG, US  
[72] TANGRI, HENNA, US  
[72] SMITH, GREGORY L., US  
[71] HONEYWELL INTERNATIONAL INC., US  
[85] 2020-03-11  
[86] 2018-09-19 (PCT/US2018/051802)  
[87] (WO2019/060447)  
[30] US (62/560,558) 2017-09-19  
[30] US (62/587,600) 2017-11-17  
[30] US (16/135,962) 2018-09-19

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[21] **3,075,640**  
[13] A1

[51] **Int.Cl. B05C 11/00 (2006.01) G09B 5/06 (2006.01) G09B 19/00 (2006.01)**

[25] EN

[54] **SIMULATOR FOR SKILL-ORIENTED TRAINING**

[54] **SIMULATEUR POUR FORMATION ORIENTEE VERS L'ACQUISITION DE COMPETENCES**

[72] ZBORAY, DAVID, US  
[72] FUDGE, ALEJANDRO, US  
[72] ANDERSON, KATERINE, US  
[72] ARMOUR, JOSHUA, US  
[72] ONG, PAUL, US  
[72] POULIN, JAY, US  
[72] LENKER, ZACHARY, US  
[72] SHISHKIN, VASILY, US  
[72] BLACKSTOCK, SARA, US  
[72] KENNEDY, SHAWN, US  
[72] MANVILLE, CLAUDE, US  
[72] WALLACE, MATTHEW, US  
[71] VRSIM, INC., US  
[71] ZBORAY, DAVID, US  
[71] FUDGE, ALEJANDRO, US  
[71] ANDERSON, KATERINE, US  
[71] ARMOUR, JOSHUA, US  
[71] ONG, PAUL, US  
[71] POULIN, JAY, US  
[71] LENKER, ZACHARY, US  
[71] SHISHKIN, VASILY, US  
[71] BLACKSTOCK, SARA, US  
[71] KENNEDY, SHAWN, US  
[71] MANVILLE, CLAUDE, US  
[71] WALLACE, MATTHEW, US  
[85] 2020-03-11  
[86] 2018-09-14 (PCT/US2018/051140)  
[87] (WO2019/055821)  
[30] US (62/558,623) 2017-09-14

[21] **3,075,641**  
[13] A1

[51] **Int.Cl. H04N 19/80 (2014.01) H04N 19/11 (2014.01) H04N 19/117 (2014.01) H04N 19/136 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE PROCESSING DEVICE AND METHOD**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'IMAGE**

[72] TSUKUBA, TAKESHI, JP  
[71] SONY CORPORATION, JP  
[85] 2020-03-09  
[86] 2018-08-31 (PCT/JP2018/032324)  
[87] (WO2019/054200)  
[30] JP (2017-177379) 2017-09-15

[21] **3,075,642**  
[13] A1

[51] **Int.Cl. C12C 12/00 (2006.01) A61K 35/74 (2015.01) A61K 47/10 (2017.01) A61P 1/00 (2006.01) C12C 11/00 (2006.01) C12G 1/00 (2019.01) C12G 3/00 (2019.01) C12N 1/20 (2006.01)**

[25] EN

[54] **ALCOHOLIC BEVERAGE COMPOSITION CONTAINING BACILLUS COAGULANS**

[54] **COMPOSITION DE BOISSON ALCOOLISEE CONTENANT BACILLUS COAGULANS**

[72] MAJEED, MUHAMMED, US  
[72] NAGABHUSHANAM, KALYANAM, US  
[72] ARUMUGAM, SIVAKUMAR, IN  
[72] ALI, FURQAN, IN  
[72] MAJEED, SHAHEEN, US  
[72] BEEDE, KIRANKUMAR, IN  
[71] MAJEED, MUHAMMED, US  
[71] NAGABHUSHANAM, KALYANAM, US  
[71] ARUMUGAM, SIVAKUMAR, IN  
[71] ALI, FURQAN, IN  
[71] MAJEED, SHAHEEN, US  
[71] BEEDE, KIRANKUMAR, IN  
[85] 2020-03-11  
[86] 2018-09-20 (PCT/US2018/051879)  
[87] (WO2019/060501)  
[30] IN (201741033477) 2017-09-21

[21] **3,075,643**  
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 31/7105 (2006.01) A61K 35/76 (2015.01) A61K 38/00 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **SOD1 DUAL EXPRESSION VECTORS AND USES THEREOF**

[54] **NOUVEAUX VECTEURS D'EXPRESSION DOUBLE DE SOD1 ET UTILISATIONS ASSOCIEES**

[72] MUELLER, CHRISTIAN, US  
[72] BROWN, ROBERT H., JR., US  
[71] UNIVERSITY OF MASSACHUSETTS, US  
[85] 2020-03-11  
[86] 2018-09-21 (PCT/US2018/052173)  
[87] (WO2019/060686)  
[30] US (62/561,932) 2017-09-22

[21] **3,075,644**  
[13] A1

[51] **Int.Cl. C08K 5/00 (2006.01) C08L 67/02 (2006.01) D06M 15/51 (2006.01)**

[25] EN

[54] **AQUEOUS BINDER COMPOSITIONS**

[54] **COMPOSITIONS LIANTES AQUEUSES**

[72] ZHANG, XIUJUAN, US  
[72] MUELLER, GERT, US  
[72] SMITH, KENDEL, US  
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US  
[85] 2020-03-11  
[86] 2018-10-09 (PCT/US2018/054910)  
[87] (WO2019/074867)  
[30] US (62/569,778) 2017-10-09

[21] **3,075,645**  
[13] A1

[51] **Int.Cl. A61K 31/7072 (2006.01) A61K 31/7076 (2006.01) C07H 19/04 (2006.01)**

[25] EN

[54] **4'-FLUORO-2'-METHYL SUBSTITUTED NUCLEOSIDE DERIVATIVES AS INHIBITORS OF HCV RNA REPLICATION**

[54] **DERIVES NUCLEOSIDIQUES A SUBSTITUTION 4'-FLUORO-2'-METHYLE UTILISES COMME INHIBITEURS DE LA REPLICATION DE L'ARN DU VHC**

[72] SMITH, MARK, US  
[72] KLUMPP, KLAUS G., US  
[71] RIBOSCIENCE LLC, US  
[85] 2020-03-11  
[86] 2018-09-21 (PCT/US2018/052239)  
[87] (WO2019/060740)  
[30] US (62/561,237) 2017-09-21

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[13] A1

[51] **Int.Cl. G03F 1/56 (2012.01) G02B 5/20 (2006.01)**  
[25] EN  
[54] **PHOTO RESIST AS OPAQUE APERTURE MASK ON MULTISPECTRAL FILTER ARRAYS**  
[54] **RESINE PHOTOSENSIBLE EN TANT QUE MASQUE D'OUVERTURE OPAQUE SUR DES RESEAUX DE FILTRES MULTISPECTRAUX**  
[72] DOWNING, KEVIN R., US  
[71] MATERION CORPORATION, US  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/US2018/050678)  
[87] (WO2019/055522)  
[30] US (62/557,909) 2017-09-13

[21] **3,075,647**  
[13] A1

[51] **Int.Cl. C01D 3/06 (2006.01)**  
[25] EN  
[54] **CRYSTAL MORPHOLOGY FOR SODIUM REDUCTION**  
[54] **MORPHOLOGIE CRISTALLINE POUR LA REDUCTION DU SODIUM**  
[72] FEVZIOGLU, MEHTAP, US  
[72] KALIAPPAN, SIVARAJ, US  
[72] STALDER, JAMES, US  
[71] FRITO-LAY NORTH AMERICA, INC., US  
[85] 2020-03-11  
[86] 2018-10-26 (PCT/US2018/057777)  
[87] (WO2019/084447)  
[30] US (15/795,910) 2017-10-27

[21] **3,075,648**  
[13] A1

[51] **Int.Cl. A61B 1/04 (2006.01) A61B 1/06 (2006.01) A61B 1/227 (2006.01) A61B 1/233 (2006.01) A61B 1/24 (2006.01)**  
[25] EN  
[54] **ORIFICE INSPECTION SYSTEM**  
[54] **SYSTEME D'INSPECTION D'ORIFICE**  
[72] HOLLAND, JENNIFER LOUISE, AU  
[71] THROAT SCOPE PTY LTD, AU  
[85] 2020-03-12  
[86] 2017-09-15 (PCT/AU2017/051004)  
[87] (WO2018/049479)  
[30] AU (2016903740) 2016-09-16  
[30] AU (2016903742) 2016-09-16

[21] **3,075,649**  
[13] A1

[51] **Int.Cl. C07D 239/91 (2006.01) A61K 31/517 (2006.01) C07D 239/95 (2006.01)**  
[25] EN  
[54] **A NOVEL SMALL MOLECULE COMPOUND**  
[54] **NOUVEAU COMPOSE A PETITES MOLECULES**  
[72] LU, BINGWEI, US  
[71] CEREPTEUT, INC., US  
[85] 2020-03-11  
[86] 2018-09-12 (PCT/US2018/050689)  
[87] (WO2019/055528)  
[30] US (62/558,323) 2017-09-13

[21] **3,075,650**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 47/64 (2017.01) A61K 33/36 (2006.01) A61P 35/00 (2006.01) C07F 9/76 (2006.01) C07F 9/78 (2006.01)**  
[25] EN  
[54] **ANTI-CANCER AGENT**  
[54] **AGENT ANTICANCEREUX**  
[72] DILLON, CAROLYN THERESE, AU  
[72] CARRALL, JUDITH ANNE, AU  
[71] UNIVERSITY OF WOLLONGONG, AU  
[85] 2020-03-12  
[86] 2018-10-17 (PCT/AU2018/000202)  
[87] (WO2019/075507)  
[30] AU (2017904199) 2017-10-17

[21] **3,075,651**  
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/659 (2006.01) C08F 4/6592 (2006.01) C08J 5/18 (2006.01)**  
[25] EN  
[54] **DUAL CATALYST SYSTEM FOR PRODUCING LLDPE COPOLYMERS WITH IMPROVED PROCESSABILITY**  
[54] **SYSTEME CATALYSEUR DOUBLE POUR LA PRODUCTION DE COPOLYMERES DE LLDPE PRESENTANT UNE APTITUDE AU TRAITEMENT AMELIOREE**  
[72] DING, ERRUN, US  
[72] TSO, CHUNG CHING, US  
[72] MUNINGER, RANDALL, US  
[72] YANG, QING, US  
[72] YU, YOULU, US  
[72] INN, YONGWOO, US  
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LLP, US  
[85] 2020-03-11  
[86] 2018-09-25 (PCT/US2018/052509)  
[87] (WO2019/070440)  
[30] US (15/723,225) 2017-10-03

[21] **3,075,652**  
[13] A1

[51] **Int.Cl. A01N 25/30 (2006.01) C09K 17/14 (2006.01)**  
[25] EN  
[54] **TREATED MEDIUM FOR PLANT GROWTH THAT HAS INCREASED WATER RETENTION**  
[54] **MILIEU TRAITE POUR LA CROISSANCE DE PLANTES AYANT UNE RETENTION D'EAU ACCRUE**  
[72] DICKESS, SHAWN, US  
[72] OESTER, DEAN A., US  
[71] BASF SE, DE  
[85] 2020-03-12  
[86] 2018-09-14 (PCT/EP2018/074837)  
[87] (WO2019/057617)  
[30] US (62/560850) 2017-09-20

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[21] **3,075,653**  
[13] A1

[51] **Int.Cl. F04D 15/00 (2006.01) E04H 4/12 (2006.01) F04B 49/06 (2006.01) F04B 49/20 (2006.01) F04D 27/00 (2006.01)**

[25] EN

[54] **PUMP CONTROL DEVICES, APPLICATIONS AND SYSTEMS**

[54] **DISPOSITIFS, APPLICATIONS ET SYSTEMES DE COMMANDE DE POMPE**

[72] BUONSANTO, DAMIEN, AU

[72] CARETTI, PETER, AU

[71] NYMET INNOVATIONS PTY LTD, AU

[85] 2020-03-12

[86] 2018-09-13 (PCT/AU2018/050995)

[87] (WO2019/051547)

[30] AU (2017903722) 2017-09-13

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[21] **3,075,654**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

[25] EN

[54] **OPTICAL SYSTEMS AND METHODS FOR EXAMINING A TOOTH**

[54] **SYSTEMES ET PROCEDES OPTIQUES POUR EXAMINER UNE DENT**

[72] BERGHEIM, BJARNE, US

[72] SHARMA, MANU, US

[72] KHAKPOUR, MEHRZAD, US

[71] SONENDO, INC., US

[85] 2020-03-11

[86] 2018-09-12 (PCT/US2018/050753)

[87] (WO2019/055569)

[30] US (62/557,648) 2017-09-12

[30] US (62/569,260) 2017-10-06

[30] US (62/570,037) 2017-10-09

[30] US (62/571,081) 2017-10-11

[30] US (62/584,638) 2017-11-10

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[21] **3,075,655**  
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/34 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR LOW PRESSURE GAS LIFT ARTIFICIAL LIFT**

[54] **SYSTEME ET PROCEDE D'ASCENSION ARTIFICIELLE A ASCENSION AU GAZ BASSE PRESSION**

[72] WHITEMAN, PAUL ANTHONY, AU

[72] FEKETE, DEREK SHANE, AU

[71] INTELLIGAS CSM SERVICES LIMITED, AU

[85] 2020-03-12

[86] 2018-09-17 (PCT/AU2018/051012)

[87] (WO2019/051561)

[30] AU (2017903748) 2017-09-15

[30] AU (2017904037) 2017-10-06

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[21] **3,075,656**  
[13] A1

[51] **Int.Cl. C12N 7/01 (2006.01) C12N 15/113 (2010.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01) C07K 14/015 (2006.01) C07K 14/47 (2006.01) C12N 15/12 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **RESCUE OF CENTRAL AND PERIPHERAL NEUROLOGICAL PHENOTYPE OF FRIEDREICH'S ATAXIA BY INTRAVENOUS DELIVERY**

[54] **SAUVETAGE DE PHENOTYPE NEUROLOGIQUE CENTRAL ET PERIPHERIQUE DE L'ATAXIE DE FRIEDREICH PAR ADMINISTRATION INTRAVEINEUSE**

[72] SAH, DINAH WEN-YEE, US

[72] GOULET, MARTIN, US

[72] PATZKE, HOLGER, US

[72] SHU, YANQUN, US

[72] HOU, JINZHAO, US

[72] PUCCIO, HELENE, FR

[71] VOYAGER THERAPEUTICS, INC., US

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR

[71] UNIVERSITE DE STRASBOURG, FR

[85] 2020-03-11

[86] 2018-09-28 (PCT/US2018/053312)

[87] (WO2019/067840)

[30] US (62/565,840) 2017-09-29

[30] US (62/663,835) 2018-04-27

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[21] **3,075,657**  
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN

[54] **APPARATUS FOR HEATING SMOKABLE MATERIAL**

[54] **APPAREIL POUR CHAUFFER UNE SUBSTANCE A FUMER**

[72] THORSEN, MITCHEL, GB

[72] WOODMAN, THOMAS, GB

[72] SHANNON, STEPHEN, GB

[71] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB

[85] 2020-03-12

[86] 2018-09-17 (PCT/EP2018/075093)

[87] (WO2019/053268)

[30] US (62/559,057) 2017-09-15

[30] US (62/609,799) 2017-12-22

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[21] **3,075,658**  
[13] A1

[51] **Int.Cl. A01N 43/40 (2006.01) A01N 43/54 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **PYRIDINE AND PYRIMIDINE CARBOXYLATE HERBICIDES AND METHODS OF USE THEREOF**

[54] **HERBICIDES CARBOXYLATES DE PYRIDINE ET DE PYRIMIDINE ET LEURS PROCEDES D'UTILISATION**

[72] BELL, JARED, US

[72] BUYASSE, ANN M., US

[72] DAEUBLE, JOHN F., US

[72] ECKELBARGER, JOSEPH D., US

[72] EPP, JEFFREY B., US

[72] IRVINE, NICHOLAS M., US

[72] KISTER, JEREMY, US

[72] LO, WILLIAM C., US

[72] LOSO, MICHAEL R., US

[72] LOWE, CHRISTIAN T., US

[72] ROHANNA, JOHN C., US

[72] SATCHIVI, NORBERT M., US

[72] SIDDALL, THOMAS L., US

[72] STEWARD, KIMBERLY M., US

[72] YERKES, CARLA N., US

[71] DOW AGROSCIENCES LLC, US

[85] 2020-03-11

[86] 2018-10-26 (PCT/US2018/057626)

[87] (WO2019/084353)

[30] US (62/577,972) 2017-10-27

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[21] **3,075,660**  
[13] A1

[51] **Int.Cl. E21B 43/04 (2006.01) E21B 43/08 (2006.01)**

[25] EN

[54] **EROSION RESISTANT SHUNT TUBE ASSEMBLY FOR WELLSCREEN**

[54] **ENSEMBLE TUBE DE DERIVATION RESISTANT A L'EROSION POUR FILTRE DE PUIITS**

[72] SESSA, MICHAEL, US

[72] MCNAMEE, STEPHEN, US

[72] SLADIC, JOHN, US

[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[85] 2020-03-11

[86] 2018-10-29 (PCT/US2018/057931)

[87] (WO2019/099177)

[30] US (15/814,522) 2017-11-16

[30] US (15/954,129) 2018-04-16

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[21] **3,075,661**  
[13] A1

[51] **Int.Cl. H04L 12/22 (2006.01) G06F 21/55 (2013.01) H04L 12/26 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ANALYZING INTERNET TRAFFIC TO DETECT DISTRIBUTED DENIAL OF SERVICE (DDOS) ATTACK**

[54] **SYSTEME ET PROCEDE D'ANALYSE DE TRAFIC INTERNET POUR DETECTER UNE ATTAQUE PAR DENI DE SERVICE DISTRIBUE (DDOS)**

[72] TERRAZAS GONZALEZ, JESUS DAVID, CA

[72] KINSNER, WITOLD, CA

[71] UNIVERSITY OF MANITOBA, CA

[85] 2020-03-12

[86] 2018-09-13 (PCT/CA2018/051132)

[87] (WO2019/051595)

[30] US (62/558,572) 2017-09-14

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[21] **3,075,662**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/609 (2006.01) A61K 47/10 (2017.01) A61K 47/20 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL COMPOSITION**

[54] **COMPOSITION ANTIMICROBIENNE**

[72] GUYONNET, JEROME, FR

[72] ZEMIRILINE, CLAUDINE, FR

[72] BUTTY, PASCAL, FR

[71] CEVA SANTE ANIMALE, FR

[71] UNION THERAPEUTICS A/S, DK

[85] 2020-03-12

[86] 2018-09-14 (PCT/EP2018/074863)

[87] (WO2019/053180)

[30] EP (17191465.8) 2017-09-15

[30] EP (17192055.6) 2017-09-20

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[21] **3,075,663**  
[13] A1

[51] **Int.Cl. C08L 101/06 (2006.01) C08K 5/3435 (2006.01) C08K 5/378 (2006.01)**

[25] EN

[54] **AQUEOUS POLYMER COMPOSITION**

[54] **COMPOSITION POLYMERE AQUEUSE**

[72] LIU, HAN, CN

[72] CHEN, JUNYU, CN

[72] ZHAO, YAGUANG, CN

[72] DONG, XIANGTING, CN

[72] ZHANG, QINGWEI, CN

[72] LI, LING, CN

[72] LUO, YAN, CN

[72] LIU, JINTAO, CN

[71] ROHM AND HAAS COMPANY, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2020-03-12

[86] 2017-09-26 (PCT/CN2017/103356)

[87] (WO2019/061011)

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[21] **3,075,664**  
[13] A1

[51] **Int.Cl. C07C 257/18 (2006.01) A61K 31/155 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MONO- AND DI-AMIDINE ENDO-EXONUCLEASE INHIBITORS AND METHODS FOR INHIBITING ENDO-EXONUCLEASE ACTIVITY**

[54] **INHIBITEURS D'ENDO-EXONUCLEASE MONO- ET DI-AMIDINE ET PROCEDES D'INHIBITION DE L'ACTIVITE ENDO-EXONUCLEASE**

[72] CHOW, TERRY, CA

[71] MONTDOREX INC., CA

[85] 2020-03-12

[86] 2018-11-08 (PCT/CA2018/051409)

[87] (WO2019/095046)

[30] US (62/587,118) 2017-11-16

## Demandes PCT entrant en phase nationale

[21] **3,075,666**  
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**  
[25] EN  
[54] **CAPSULE FOR A SOLUBLE AND NON-SOLUBLE PRODUCT, SUCH AS COFFEE AND ITS DERIVATIVES, TEA AND HERBAL TEAS AND BEVERAGES**  
[54] **CAPSULE POUR UN PRODUIT SOLUBLE ET NON SOLUBLE, TEL QUE DU CAFE ET SES DERIVES, DU THE, DES TISANES ET DES BOISSONS A BASE DE PLANTES**  
[72] PARISE, CARLO ALBERTO, IT  
[71] PKA SOLUTIONS S.R.L., IT  
[85] 2020-03-12  
[86] 2018-09-21 (PCT/EP2018/075571)  
[87] (WO2019/063427)  
[30] IT (102017000107829) 2017-09-27  
[30] IT (102018000001267) 2018-01-18

[21] **3,075,667**  
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01)**  
[25] EN  
[54] **WIND POWER GENERATING DEVICE AND TRANSPORTATION VEHICLE HAVING WIND POWER GENERATING DEVICE**  
[54] **EOLIENNE ET VEHICULE DE TRANSPORT DOTE DE CETTE EOLIENNE**  
[72] LEE, SHOU-HSUN, CN  
[72] LI, CHUN-I, CN  
[71] LEE, SHOU-HSUN, CN  
[71] LI, CHUN-I, CN  
[85] 2020-03-12  
[86] 2018-04-11 (PCT/CN2018/000137)  
[87] (WO2019/056653)  
[30] CN (2017110876077.9) 2017-09-25

[21] **3,075,668**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 9/00 (2006.01) A61K 47/46 (2006.01) A61P 15/00 (2006.01)**  
[25] EN  
[54] **COMPOSITION CONTAINING CANNABIDIOL AND/OR CANNABIDIVAROL AND APPLICATION THEREOF IN TREATMENT OF DYSMENORRHEA**  
[54] **COMPOSITION CONTENANT DU CANNABIDIOL ET/OU DU CANNABIDIVARINE ET APPLICATION DE LA COMPOSITION DANS LE TRAITEMENT DE LA DYSMENORRHEE**  
[72] YU, ZHAOHUI, CN  
[72] ZHANG, KE, CN  
[72] TAN, XIN, CN  
[71] HANYI BIO-TECHNOLOGY (BEIJING) CO., LTD, CN  
[85] 2020-03-12  
[86] 2018-08-16 (PCT/CN2018/100835)  
[87] (WO2019/052303)  
[30] CN (2017110835129.8) 2017-09-15

[21] **3,075,670**  
[13] A1

[51] **Int.Cl. A61K 47/00 (2006.01) A61K 39/44 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL CONSTRUCTS WITH ENHANCED BINDING AFFINITY WITH ALBUMIN**  
[54] **CONSTRUCTIONS PHARMACEUTIQUES PRESENTANT UNE AFFINITE DE LIAISON AMELIOREE AVEC L'ALBUMINE**  
[72] CHANG, TSE-WEN, CN  
[72] CHU, HSING-MAO, CN  
[72] LIN, CHIEN-JEN, CN  
[71] IMMUNWORK INC., CN  
[85] 2020-03-12  
[86] 2018-09-19 (PCT/CN2018/106515)  
[87] (WO2019/057087)  
[30] CN (PCT/CN2017/102242) 2017-09-19

[21] **3,075,672**  
[13] A1

[51] **Int.Cl. E04G 23/00 (2006.01)**  
[25] EN  
[54] **WALK-BEHIND FLOOR SCRAPER MACHINE**  
[54] **MACHINE RACLEUSE DE SOL POUSSEE**  
[72] ANDERSON, MARTIN L., US  
[72] ANDERSON, QUINN M., US  
[71] ANDERSON INNOVATIONS, LLC, US  
[85] 2020-03-11  
[86] 2018-10-04 (PCT/US2018/054390)  
[87] (WO2019/070993)  
[30] US (15/726,984) 2017-10-06

[21] **3,075,673**  
[13] A1

[51] **Int.Cl. G01K 11/00 (2006.01) H01L 39/22 (2006.01)**  
[25] EN  
[54] **CRYOGENIC MICROWAVE ANALYZER**  
[54] **ANALYSEUR CRYOGENIQUE A MICRO-ONDES**  
[72] MOTTONEN, MIKKO, FI  
[72] KOKKONIEMI, ROOPE, FI  
[72] VESTERINEN, VISA, FI  
[72] LAKE, RUSSELL, US  
[71] IQM FINLAND OY, FI  
[85] 2020-03-12  
[86] 2018-11-22 (PCT/FI2018/050851)  
[87] (WO2019/102071)  
[30] FI (20176051) 2017-11-23

[21] **3,075,674**  
[13] A1

[51] **Int.Cl. B60R 3/02 (2006.01) A61G 3/08 (2006.01) B60P 1/12 (2006.01) B60P 3/06 (2006.01) B60R 3/00 (2006.01) F16H 7/02 (2006.01)**  
[25] EN  
[54] **RAMP ASSEMBLY FOR MOTORIZED VEHICLE**  
[54] **ENSEMBLE RAMPE POUR VEHICULE MOTORISE**  
[72] HILL, ANTHONY S., US  
[72] BETTCHER, ROBERT E., US  
[71] THE BRAUN CORPORATION, US  
[85] 2020-03-11  
[86] 2018-10-08 (PCT/US2018/054823)  
[87] (WO2019/074825)  
[30] US (62/569,671) 2017-10-09

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[21] **3,075,676**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) C07K 1/14 (2006.01) C07K 14/47 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **WNT/SFRP COMPLEXES, WNT-CONTAINING COMPOSITIONS, WNT-EXPRESSING CELLS, AND METHODS OF MAKING, PURIFYING, AND USING SAME**

[54] **COMPLEXES WNT/SFRP, COMPOSITIONS CONTENANT WNT, CELLULES EXPRIMANT WNT ET LEURS PROCEDES DE PREPARATION, DE PURIFICATION ET D'UTILISATION**

[72] PERSON, ANTHONY, US  
[72] XIONG, LIWEN, US  
[72] BI, MING, US  
[72] TRACY, CAMRIN, US  
[71] BIO-TECHNE CORPORATION, US  
[85] 2020-03-11  
[86] 2018-10-09 (PCT/US2018/055001)  
[87] (WO2019/074918)  
[30] US (62/569,748) 2017-10-09

[21] **3,075,678**  
[13] A1

[51] **Int.Cl. A61B 17/3207 (2006.01) A61B 17/22 (2006.01) A61B 17/221 (2006.01) A61B 17/3203 (2006.01) A61B 18/26 (2006.01)**

[25] EN

[54] **TRANSCATHETER DEVICE FOR THE TREATMENT OF CALCIFIED HEART VALVE LEAFLETS**

[54] **DISPOSITIF TRANSCATHETER POUR LE TRAITEMENT DE FEUILLETS DE VALVES CARDIAQUES CALCIFIES**

[72] PASQUINO, ENRICO, CH  
[72] BONETTI, FRANCESCO, IT  
[72] OSTA, FRANCO, IT  
[71] AORTICLAB SARL, CH  
[85] 2020-03-12  
[86] 2018-08-28 (PCT/IB2018/056553)  
[87] (WO2019/053538)  
[30] IB (PCT/IB2017/055477) 2017-09-12

[21] **3,075,679**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/34 (2006.01)**

[25] EN

[54] **PERFUSION BIOREACTOR AND RELATED METHODS OF USE**

[54] **BIOREACTEUR A PERFUSION ET PROCEDES D'UTILISATION ASSOCIES**

[72] ANGELINI, MATTHEW, US  
[72] WITMER, ASHLEY, US  
[72] DEBIASE, ANTHONY, US  
[71] REGENERON PHARMACEUTICALS, INC., US  
[85] 2020-03-11  
[86] 2018-10-15 (PCT/US2018/055891)  
[87] (WO2019/079188)  
[30] US (62/572,918) 2017-10-16

[21] **3,075,681**  
[13] A1

[51] **Int.Cl. B29B 15/12 (2006.01) C08J 3/05 (2006.01) C08J 5/10 (2006.01) C08J 5/24 (2006.01)**

[25] FR

[54] **METHOD FOR IMPREGNATING REINFORCING FIBRES WITH POLYARYLETHETERKETONES AND SEMI-FINISHED PRODUCTS OBTAINED IN THIS WAY**

[54] **PROCEDE D'IMPREGNATION DE FIBRES DE RENFORT AVEC DES POLYARYLETHERCETONES ET SEMI-PRODUITS AINSI OBTENUS**

[72] LE, GUILLAUME, FR  
[72] SGUERRA, FABIEN, FR  
[71] ARKEMA FRANCE, FR  
[85] 2020-03-12  
[86] 2018-09-13 (PCT/FR2018/052244)  
[87] (WO2019/053379)  
[30] FR (1758625) 2017-09-18

[21] **3,075,682**  
[13] A1

[51] **Int.Cl. H03K 19/195 (2006.01) H03K 19/20 (2006.01) H03K 19/23 (2006.01)**

[25] EN

[54] **INVERTING PHASE MODE LOGIC GATES**

[54] **GRILLES LOGIQUES EN MODE DE PHASE INVERSE**

[72] BRAUN, ALEXANDER LOUIS, US  
[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US  
[85] 2020-03-11  
[86] 2018-10-17 (PCT/US2018/056310)  
[87] (WO2019/094161)  
[30] US (15/810,954) 2017-11-13

[21] **3,075,683**  
[13] A1

[51] **Int.Cl. C11D 17/04 (2006.01) B65D 81/32 (2006.01)**

[25] EN

[54] **POUCHED UNIT AND METHOD OF USING SAID POUCHED UNIT**

[54] **UNITE ENSACHEE ET PROCEDE D'UTILISATION DE LADITE UNITE ENSACHEE**

[72] BOOD, ARIE, NL  
[71] EME ENGEL MACHINEFABRIEK EN ENGINEERING B.V., NL  
[85] 2020-03-12  
[86] 2018-09-19 (PCT/NL2018/050617)  
[87] (WO2019/059762)  
[30] NL (2019573) 2017-09-19

[21] **3,075,684**  
[13] A1

[51] **Int.Cl. H04W 56/00 (2009.01)**

[25] EN

[54] **CHANNEL AND SYNCHRONIZATION RASTER**

[54] **RASTER DE CANAUX ET DE SYNCHRONISATION**

[72] GHEORGHIU, VALENTIN ALEXANDRU, US  
[72] KITAZOE, MASATO, US  
[72] GAAL, PETER, US  
[71] QUALCOMM INCORPORATED, US  
[85] 2020-03-11  
[86] 2018-10-23 (PCT/US2018/057141)  
[87] (WO2019/084032)  
[30] US (62/576,461) 2017-10-24  
[30] US (16/166,960) 2018-10-22

[21] **3,075,687**  
[13] A1

[51] **Int.Cl. B65D 1/00 (2006.01) B65D 1/02 (2006.01) B65D 41/00 (2006.01) B65D 41/02 (2006.01) B65D 41/04 (2006.01)**

[25] EN

[54] **BOTTLE FOR FLIPPING, CAP, ACCESSORIES AND METHOD OF USE THEREOF**

[54] **BOUEILLE A RETOURNER, BOUCHON, ACCESSOIRES ET PROCEDE D'UTILISATION CORRESPONDANT**

[72] MARINO, JOSEPH, US  
[71] MARINO, JOSEPH, US  
[85] 2020-03-11  
[86] 2018-10-25 (PCT/US2018/057432)  
[87] (WO2019/084221)  
[30] US (62/577,974) 2017-10-27

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[21] **3,075,688**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **PREECLAMPSIA BIOMARKERS AND RELATED SYSTEMS AND METHODS**  
[54] **BIOMARQUEURS DE PRE-ECLAMPSIE AINSI QUE SYSTEMES ET PROCEDES ASSOCIES**  
[72] COOPER, MATTHEW, US  
[72] SINGH, SHARAT, US  
[72] COPELAND, KAREN A. F., US  
[72] HESTERBERG, LYNDAL, US  
[72] MAZLOOM, AMIN R., US  
[72] ABBASI, MOHAMMAD, US  
[72] GIULIO DEL MASTRO, RICHARD, US  
[71] PROGENITY, INC., US  
[85] 2020-03-12  
[86] 2018-09-13 (PCT/US2018/050893)  
[87] (WO2019/055661)  
[30] US (62/558,184) 2017-09-13

[21] **3,075,689**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 38/00 (2006.01) B01F 15/00 (2006.01)**  
[25] EN  
[54] **MANUFACTURING OF PHARMACEUTICAL COMPOSITIONS**  
[54] **FABRICATION DE COMPOSITIONS PHARMACEUTIQUES**  
[72] RONNBACK, ROBERT, CH  
[72] SAUNIER, JOSSELIN, CH  
[71] FERRING INTERNATIONAL CENTER S.A., CH  
[85] 2020-03-12  
[86] 2018-09-17 (PCT/EP2018/075034)  
[87] (WO2019/053247)  
[30] EP (17191652.1) 2017-09-18

[21] **3,075,690**  
[13] A1

[51] **Int.Cl. F16H 1/48 (2006.01) F16H 1/28 (2006.01) F16H 48/10 (2012.01) F16H 55/06 (2006.01)**  
[25] EN  
[54] **DIFFERENTIAL PLANETARY GEARBOX**  
[54] **BOITE DE VITESSES A TRAINS PLANETAIRES DIFFERENTIELS**  
[72] KLASSEN, JAMES BRENT, CA  
[72] BOS, RICHARD, CA  
[71] GENESIS ADVANCED TECHNOLOGY INC., CA  
[85] 2020-03-12  
[86] 2018-09-17 (PCT/CA2018/051154)  
[87] (WO2019/051614)  
[30] US (62/559,552) 2017-09-16  
[30] US (62/560,129) 2017-09-18  
[30] US (62/576,067) 2017-10-23  
[30] US (62/590,568) 2017-11-25  
[30] US (62/591,162) 2017-11-27  
[30] US (62/593,860) 2017-12-01  
[30] US (62/622,105) 2018-01-25  
[30] US (62/630,759) 2018-02-14  
[30] US (62/717,763) 2018-08-10

[21] **3,075,691**  
[13] A1

[51] **Int.Cl. B82B 3/00 (2006.01) G06N 3/08 (2006.01) G01Q 60/04 (2010.01) G01Q 60/24 (2010.01)**  
[25] EN  
[54] **INITIATING AND MONITORING THE EVOLUTION OF SINGLE ELECTRONS WITHIN ATOM-DEFINED STRUCTURES**  
[54] **INITIATION ET SURVEILLANCE DE L'EVOLUTION D'ELECTRONS INDIVIDUELS DANS DES STRUCTURES DEFINIES PAR UN ATOME**  
[72] WOLKOW, ROBERT A., CA  
[72] RASHIDI, MOHAMMAD, CA  
[72] VINE, WYATT, CA  
[72] DIENEL, THOMAS, CA  
[72] LIVADARU, LUCIAN, CA  
[72] HUFF, TALEANA, CA  
[72] RETALLICK, JACOB, CA  
[72] WALUS, CONRAD, CA  
[71] QUANTUM SILICON INC., CA  
[85] 2020-03-12  
[86] 2018-09-28 (PCT/CA2018/051224)  
[87] (WO2019/060999)  
[30] US (62/564,734) 2017-09-28

[21] **3,075,692**  
[13] A1

[51] **Int.Cl. A61B 1/04 (2006.01) A61B 34/00 (2016.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61B 17/34 (2006.01) G02B 23/24 (2006.01)**  
[25] EN  
[54] **VIRTUAL REALITY SURGICAL CAMERA SYSTEM**  
[54] **SYSTEME DE CAMERA CHIRURGICALE A REALITE VIRTUELLE**  
[72] KLINE, ERIC, US  
[72] KHALIFA, SAMMY, US  
[72] WENTWORTH, MARSHALL, US  
[72] VAN ALBERT, ERIC, US  
[71] VICARIOUS SURGICAL INC., US  
[85] 2020-03-12  
[86] 2018-09-13 (PCT/US2018/050922)  
[87] (WO2019/055681)  
[30] US (62/558,583) 2017-09-14

[21] **3,075,693**  
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 38/17 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01)**  
[25] EN  
[54] **NOVEL BISPECIFIC POLYPEPTIDE COMPLEXES**  
[54] **NOUVEAUX COMPLEXES POLYPEPTIDIQUES BISPECIFIQUES**  
[72] XU, JIANQING, CN  
[72] WANG, ZHUOZHI, CN  
[72] LI, JING, CN  
[71] WUXI BIOLOGICS IRELAND LIMITED, IE  
[85] 2020-03-12  
[86] 2018-09-20 (PCT/CN2018/106766)  
[87] (WO2019/057122)  
[30] CN (PCT/CN2017/103030) 2017-09-22

[21] **3,075,694**  
[13] A1

[51] **Int.Cl. A61F 5/443 (2006.01) A61F 5/451 (2006.01)**  
[25] EN  
[54] **FAECAL COLLECTING SYSTEM**  
[54] **SYSTEME DE COLLECTE DE MATIERES FECALES**  
[72] NIELSEN, BRIAN, DK  
[71] FURINE APS, DK  
[85] 2020-03-12  
[86] 2017-09-15 (PCT/EP2017/073345)  
[87] (WO2018/050856)  
[30] DK (PA 2016 00545) 2016-09-16

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[21] **3,075,695**  
[13] A1

[51] **Int.Cl. A23L 7/126 (2016.01) A23L 25/00 (2016.01) A23L 29/206 (2016.01)**

[25] EN

[54] **SAVORY CLUSTER SNACK FOOD**

[54] **ALIMENT A GRIGNOTER A AGREGATS SALES**

[72] SZCZUCINSKA, MAJA, GB

[72] LYKOMITROS, DIMITRIS, GB

[72] SMITH, TODD, US

[72] WILLIAMS, JAMES, GB

[71] FRITO-LAY TRADING COMPANY GMBH, CH

[85] 2020-03-12

[86] 2018-09-26 (PCT/EP2018/025252)

[87] (WO2019/063131)

[30] GB (1715547.4) 2017-09-26

[21] **3,075,696**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C12N 5/074 (2010.01)**

[25] EN

[54] **METHOD OF ENHANCING RNA EXPRESSION IN A CELL**

[54] **PROCEDES PERMETTANT D'AMELIORER L'EXPRESSION DE L'ARN DANS UNE CELLULE**

[72] POLEGANOV, MARCO ALEXANDER, DE

[72] PERKOVIC, MARIO, DE

[72] SAHIN, UGUR, DE

[72] BEISSERT, TIM, DE

[72] KUHN, ANDREAS, DE

[71] BIONTECH RNA PHARMACEUTICALS GMBH, DE

[71] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNEGUTENBERG-UNIVERSITÄT MAINZ GEMEINNUTZIGE GMBH, DE

[85] 2020-03-12

[86] 2018-09-11 (PCT/EP2018/074449)

[87] (WO2019/053003)

[30] EP (PCT/EP2017/073065) 2017-09-13

[21] **3,075,697**  
[13] A1

[51] **Int.Cl. B29C 65/18 (2006.01) B29C 65/22 (2006.01) B29C 65/32 (2006.01)**

[25] EN

[54] **CONDUCTION WELDING**

[54] **SOUDAGE PAR CONDUCTION**

[72] VAN INGEN, JAAP WILLEM, NL

[72] DOLDERSUM, MARCO, NL

[72] TEUNISSEN, JOHN, NL

[72] OFFRINGA, ARNT, NL

[71] FOKKER AEROSTRUCTURES BV, NL

[85] 2020-03-12

[86] 2018-09-12 (PCT/EP2018/074655)

[87] (WO2019/053086)

[30] GB (1714799.2) 2017-09-14

[21] **3,075,698**  
[13] A1

[51] **Int.Cl. C02F 3/30 (2006.01) B01D 21/32 (2006.01) C02F 3/12 (2006.01)**

[25] EN

[54] **REACTOR AND METHOD FOR BIOLOGICAL TREATMENT OF WASTEWATER**

[54] **REACTEUR ET PROCEDE DE TRAITEMENT BIOLOGIQUE DES EAUX RESIDUAIRES**

[72] GINESTET, PHILIPPE, FR

[71] SUEZ GROUPE, FR

[85] 2020-03-12

[86] 2018-09-13 (PCT/EP2018/074720)

[87] (WO2019/053114)

[30] FR (1758519) 2017-09-14

[21] **3,075,699**  
[13] A1

[51] **Int.Cl. A23L 19/15 (2016.01) A23P 20/10 (2016.01)**

[25] EN

[54] **POTATO DOUGH**

[54] **PATE DE POMMES DE TERRE**

[72] VAN GENT, SJOERD, NL

[71] LAMBWESTON / MEIJER V.O.F., NL

[85] 2020-03-12

[86] 2018-09-14 (PCT/EP2018/074963)

[87] (WO2019/053225)

[30] NL (2019547) 2017-09-14

[21] **3,075,700**  
[13] A1

[51] **Int.Cl. G01N 33/49 (2006.01)**

[25] FR

[54] **PROCESS FOR CHARACTERIZING A BLOOD SAMPLE**

[54] **PROCEDE DE CARACTERISATION D'UN ECHANTILLON SANGUIN**

[72] RENDU, FRANCINE, FR

[72] DUFILHO, MONIQUE, FR

[72] DUGUE, FRANCOIS, FR

[71] SORBONNE UNIVERSITE, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] CONCEPTION DE SYSTEMES ET TECHNOLOGIE MECANIQUE : CSTM, FR

[85] 2020-03-12

[86] 2017-11-06 (PCT/EP2017/078372)

[87] (WO2018/083315)

[30] FR (1660749) 2016-11-07

[21] **3,075,701**  
[13] A1

[51] **Int.Cl. A61K 8/36 (2006.01) A01N 37/02 (2006.01) A61K 8/37 (2006.01) A61K 8/42 (2006.01) A61K 8/46 (2006.01) A61Q 17/00 (2006.01) A61Q 19/10 (2006.01)**

[25] EN

[54] **NON-SOAP LIQUID CLEANSER COMPOSITION COMPRISING CAPRYLIC ACID**

[54] **COMPOSITION NETTOYANTE LIQUIDE NON SAVON COMPRENANT DE L'ACIDE CAPRYLIQUE**

[72] AGARKHED, AJIT MANOHAR, IN

[72] BAPAT, MOHINI ANAND, IN

[72] CHANDAR, PREM, US

[72] GANDHI, POONAM MANOJ, IN

[72] SHILOACH, ANAT, US

[72] WU, GUOHUI, US

[71] UNILEVER PLC, GB

[85] 2020-03-12

[86] 2018-09-26 (PCT/EP2018/076145)

[87] (WO2019/081152)

[30] EP (17198910.6) 2017-10-27

# Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

## Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] <b>3,073,898</b> [13] A1	[21] <b>3,074,071</b> [13] A1	[21] <b>3,074,099</b> [13] A1
<p>[51] <b>Int.Cl. A61K 6/818 (2020.01) A61C 5/70 (2017.01) A61K 6/807 (2020.01) A61K 6/822 (2020.01) A61C 13/00 (2006.01) A61C 13/083 (2006.01) A61C 13/09 (2006.01) C04B 35/48 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHOD FOR PRODUCING A BLANK AND DENTAL RESTORATION</b></p> <p>[54] <b>PROCEDE DE PRODUCTION D'EBAUCHE ET DE RESTAURATION DENTAIRE</b></p> <p>[72] VOLKL, LOTHAR, DE</p> <p>[72] FECHER, STEFAN, DE</p> <p>[72] KUTZNER, MARTIN, DE</p> <p>[72] HORHOLD, HEINER, DE</p> <p>[71] DENTSPLY SIRONA INC., US</p> <p>[71] DEGUDENT GMBH, DE</p> <p>[22] 2016-12-23</p> <p>[41] 2017-07-06</p> <p>[62] 3,007,603</p> <p>[30] DE (10 2015 122 864.5) 2015-12-28</p>	<p>[51] <b>Int.Cl. A47J 37/07 (2006.01) F24B 13/02 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>FUEL EFFICIENT GRILL FOR DIRECT AND INDIRECT COOKING</b></p> <p>[54] <b>GRIL ECONOMIE EN COMBUSTIBLE POUR CUISSON DIRECTE ET INDIRECTE</b></p> <p>[72] SCHLOSSER, ERICH J., US</p> <p>[72] SUNICH, JAMES MICHAEL, US</p> <p>[72] CHILDRESS, HOLLICE, US</p> <p>[72] SIAZON, ROMUALDO SONNY, US</p> <p>[72] SHARMA, AMAN, US</p> <p>[71] WEBER-STEPHEN PRODUCTS, LLC, US</p> <p>[22] 2015-11-13</p> <p>[41] 2016-06-18</p> <p>[62] 2,911,929</p> <p>[30] US (14/575,227) 2014-12-18</p>	<p>[51] <b>Int.Cl. G10L 19/038 (2013.01) G10L 19/022 (2013.01) G10L 21/0388 (2013.01)</b></p> <p>[25] EN</p> <p>[54] <b>IMPROVED SUBBAND BLOCK BASED HARMONIC TRANSPOSITION</b></p> <p>[54] <b>TRANSPOSITION AMELIOREE D'HARMONIQUE FONDEE SUR UN BLOC DE SOUS-BANDE</b></p> <p>[72] VILLEMOES, LARS, SE</p> <p>[71] DOLBY INTERNATIONAL AB, NL</p> <p>[22] 2011-01-05</p> <p>[41] 2011-07-28</p> <p>[62] 3,038,582</p> <p>[30] US (61/296241) 2010-01-19</p> <p>[30] US (61/331545) 2010-05-05</p>
<p style="text-align: center;">[21] <b>3,073,899</b> [13] A1</p> <p>[51] <b>Int.Cl. B62D 21/15 (2006.01) B62D 21/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>VEHICLE LOWER SECTION STRUCTURE</b></p> <p>[54] <b>STRUCTURE DE SECTION INFERIEURE DE VEHICULE</b></p> <p>[72] ATSUMI, HYUGA, JP</p> <p>[72] TAKAYANAGI, JUNICHI, JP</p> <p>[72] YOSHIMOTO, KENICHIRO, JP</p> <p>[72] TANABE, DAISUKE, JP</p> <p>[72] KAWASE, KYOSUKE, JP</p> <p>[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP</p> <p>[22] 2017-10-27</p> <p>[41] 2018-05-08</p> <p>[62] 2,984,028</p> <p>[30] JP (2016-218460) 2016-11-08</p>	<p style="text-align: center;">[21] <b>3,074,075</b> [13] A1</p> <p>[51] <b>Int.Cl. E02F 3/43 (2006.01) E02F 9/20 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SWING AUTOMATION FOR ROPE SHOVEL</b></p> <p>[54] <b>AUTOMATISATION DE LA MANOEUVRE D'UNE PELLE A CORDE</b></p> <p>[72] TAYLOR, WESLEY P., US</p> <p>[72] LINSTROTH, MICHAEL J., US</p> <p>[71] JOY GLOBAL SURFACE MINING INC, US</p> <p>[22] 2012-04-13</p> <p>[41] 2012-10-14</p> <p>[62] 2,774,658</p> <p>[30] US (61/475,474) 2011-04-14</p>	

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,074,231**  
[13] A1

[25] EN  
[54] **INFORMATION STORAGE DEVICE, REMOVABLE DEVICE, DEVELOPER CONTAINER, AND IMAGE FORMING APPARATUS**  
[54] **DISPOSITIF DE MEMORISATION D'INFORMATIONS, DISPOSITIF AMOVIBLE, CONTENANT POUR DEVELOPPATEUR, ET APPAREIL DE FORMATION D'IMAGES**  
[72] TAKAHASHI, YASUFUMI, JP  
[72] OHYAMA, KUNIHIRO, JP  
[72] YAMANE, MASAYUKI, JP  
[72] UCHITANI, TAKESHI, JP  
[72] HAYAKAWA, TADASHI, JP  
[72] TAKAHASHI, TAKUJI, JP  
[72] OKABE, SHOUJI, JP  
[72] SHINSHI, AKIRA, JP  
[72] UEDA, YUICHIRO, JP  
[72] TAKAHASHI, MASAKI, JP  
[72] SATOH, YUUKI, JP  
[71] RICOH COMPANY, LIMITED, JP  
[22] 2011-06-13  
[41] 2011-12-15  
[62] 2,972,759  
[30] JP (2010-134560) 2010-06-11  
[30] JP (2011-062283) 2011-03-22  
[30] JP (2011-062216) 2011-03-22  
[30] JP (2011-084820) 2011-04-06  
[30] JP (2011-087786) 2011-04-11

[21] **3,074,279**  
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01)**  
[25] EN  
[54] **CARDIOVASCULAR RISK EVENT PREDICTION AND USES THEREOF**  
[54] **PREDICTION D'EVENEMENT DE RISQUE CARDIO-VASCULAIRE ET UTILISATIONS DE CELLE-CI**  
[72] GILL, ROSALYNN DIANNE, US  
[72] WILLIAMS, STEPHEN ALRIC, US  
[72] STEWART, ALEX A. E., US  
[72] MEHLER, ROBERT, US  
[72] FOREMAN, TRUDI, US  
[72] SINGER, BRITTA, US  
[71] SOMALOGIC, INC., US  
[22] 2012-09-28  
[41] 2013-04-04  
[62] 2,847,903  
[30] US (61/541,828) 2011-09-30

[21] **3,074,295**  
[13] A1

[51] **Int.Cl. F16L 55/027 (2006.01) F16K 47/12 (2006.01)**  
[25] EN  
[54] **FLUID FLOW CONTROL DEVICES AND SYSTEMS, AND METHODS OF FLOWING FLUIDS THERE THROUGH**  
[54] **DISPOSITIFS ET SYSTEMES DE REGULATION D'ECOULEMENT DE FLUIDE, ET PROCEDES POUR FAIRE CIRCULER DES FLUIDES A TRAVERS CEUX-CI**  
[72] PARISH, JEFF, US  
[72] HAINES, BRADFORD, US  
[72] DECKER, GIFFORD, US  
[71] FLOWSERVE MANAGEMENT COMPANY, US  
[22] 2013-03-26  
[41] 2014-09-18  
[62] 2,902,419  
[30] US (13/840,906) 2013-03-15

[21] **3,074,297**  
[13] A1

[51] **Int.Cl. A62C 35/68 (2006.01) F16L 3/24 (2006.01) F16L 41/06 (2006.01)**  
[25] EN  
[54] **FLEXIBLE ASSEMBLY FOR SPRINKLERS**  
[54] **ENSEMBLE FLEXIBLE POUR GICLEURS D'INCENDIE**  
[72] STEMPO, JONN, US  
[72] SZENTIMREY, RUDOLPH, US  
[72] THAU, LAWRENCE W., US  
[71] VICTAULIC COMPANY, US  
[22] 2010-09-08  
[41] 2011-03-17  
[62] 2,988,506  
[30] US (61/241615) 2009-09-11

[21] **3,074,308**  
[13] A1

[25] EN  
[54] **FORMED MATERIAL MANUFACTURING METHOD AND SURFACE TREATED METAL PLATE USED IN SAME**  
[54] **METHODE DE FABRICATION DE MATERIAU FORME ET PLAQUE DE METAL TRAITE EN SURFACE EMPLOYEE DANS LADITE METHODE**  
[72] NAKAMURA, NAOFUMI, JP  
[72] YAMAMOTO, YUDAI, JP  
[72] KUROBE, JUN, JP  
[71] NISSHIN STEEL CO., LTD., JP  
[22] 2014-10-23  
[41] 2015-06-25  
[62] 2,933,826  
[30] JP (2013-260072) 2013-12-17

[21] **3,074,315**  
[13] A1

[25] EN  
[54] **DEVICES, METHODS, AND SYSTEMS FOR PRIMING, SEPARATING, AND COLLECTING BLOOD COMPONENTS**  
[54] **DISPOSITIFS, PROCEDES ET SYSTEMES D'AMORCAGE, DE SEPARATION ET DE COLLECTE DE COMPOSANTS SANGUINS**  
[72] BRIGGS, DENNIS, US  
[72] DO, SIMON, US  
[72] RABENO, ERIC, US  
[72] SANGARE, ABDOULAYE, US  
[72] VANDLIK, MARK, US  
[72] FLUCK, VICKI, US  
[72] TUREK, CHRISTOPHER, US  
[71] MALLINCKRODT HOSPITAL PRODUCTS IP LIMITED, IE  
[22] 2016-06-16  
[41] 2016-12-22  
[62] 2,988,791  
[30] US (62/182,123) 2015-06-19  
[30] US (62/288,324) 2016-01-28

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,074,339**  
[13] A1

[25] EN  
[54] **IMPLANTABLE MEDICAL  
DEVICE CONSTRAINT AND  
DEPLOYMENT APPARATUS**  
[54] **APPAREIL DE DEPLOIEMENT ET  
DE CONTRAINTE DE  
DISPOSITIFS MEDICAUX  
IMPLANTABLES**  
[72] IRWIN, CRAIG W., US  
[72] SILVERMAN, JAMES D., US  
[71] W. L. GORE & ASSOCIATES, INC.,  
US  
[22] 2015-03-06  
[41] 2015-09-11  
[62] 2,940,704  
[30] US (61/949,100) 2014-03-06  
[30] US (14/639,699) 2015-03-05

[21] **3,074,353**  
[13] A1

[25] EN  
[54] **MESH NETWORK  
COMMISSIONING**  
[54] **MISE EN SERVICE D'UN RESEAU  
MAILLE**  
[72] TURON, MARTIN A., US  
[72] ERICKSON, GRANT M., US  
[72] BOROSS, CHRISTOPHER A., US  
[72] LOGUE, JAY D., US  
[71] GOOGLE LLC, US  
[22] 2015-06-24  
[41] 2015-12-30  
[62] 2,945,360  
[30] US (62/016,450) 2014-06-24  
[30] US (62/063,135) 2014-10-13  
[30] US (62/115,601) 2015-02-12  
[30] US (62/141,853) 2015-04-02

[21] **3,074,375**  
[13] A1

[25] EN  
[54] **CHUCK FOR RECIPROCATING  
SURGICAL INSTRUMENT**  
[54] **PIECE DE SERRAGE POUR LE  
MOUVEMENT EN VA-ET-VIENT  
D'INSTRUMENT CHIRURGICAL**  
[72] ESTES, LARRY D., US  
[71] MEDTRONIC XOMED, INC., US  
[22] 2009-05-28  
[41] 2010-01-07  
[62] 2,970,871  
[30] US (12/165,305) 2008-06-30

[21] **3,074,376**  
[13] A1

[25] EN  
[54] **BIDIRECTIONAL DOWNHOLE  
ISOLATION VALVE**  
[54] **CLAPET D'ISOLEMENT DE FOND  
DE TROU BIDIRECTIONNELLE**  
[72] NOSKE, JOE, US  
[71] WEATHERFORD TECHNOLOGY  
HOLDINGS, LLC, US  
[22] 2014-01-10  
[41] 2014-07-24  
[62] 2,977,804  
[30] US (61/754,294) 2013-01-18  
[30] US (14/150,137) 2014-01-08

[21] **3,074,393**  
[13] A1

[51] **Int.Cl. C07K 14/62 (2006.01) C07K  
17/04 (2006.01) C07K 17/08 (2006.01)**  
[25] EN  
[54] **METHOD FOR PREPARATION OF  
SITE-SPECIFIC PROTEIN  
CONJUGATES**  
[54] **PROCEDE DE PREPARATION DE  
CONJUGUES DE PROTEINES  
SPECIFIQUES DE SITE**  
[72] HINGS, KENNETH, US  
[72] LEWIS, DANNY, US  
[72] SCHMIDT, PAUL, US  
[72] CAMPBELL, KATHLEEN M., US  
[71] REZOLUTE, INC., US  
[22] 2004-04-08  
[41] 2004-10-28  
[62] 2,521,381  
[30] US (60/462,364) 2003-04-11

[21] **3,074,395**  
[13] A1

[25] EN  
[54] **SYSTEMS AND METHODS FOR  
JOINTLY OPTIMIZING WAN AND  
LAN NETWORK  
COMMUNICATIONS**  
[54] **SYSTEMES ET PROCEDES POUR  
OPTIMISER CONJOINTEMENT  
DES COMMUNICATIONS DE  
RESEAUX WAN ET LAN**  
[72] RHEE, WONJONG, US  
[72] TEHRANI, ARDAVAN MALEKI, US  
[72] GOLDBURG, MARC, US  
[72] CHOW, PETER, US  
[71] ADAPTIVE SPECTRUM AND  
SIGNAL ALIGNMENT, INC., US  
[22] 2011-01-12  
[41] 2012-07-19  
[62] 2,823,295

[21] **3,074,396**  
[13] A1

[25] EN  
[54] **HEART HELP DEVICE, SYSTEM,  
AND METHOD**  
[54] **DISPOSITIF, SYSTEME ET  
METHODE D'ASSISTANCE  
CARDIAQUE**  
[72] FORSELL, PETER, CH  
[71] MEDICALTREE PATENT LTD., MT  
[22] 2009-10-12  
[41] 2010-04-15  
[62] 2,776,444  
[30] SE (0802143-8) 2008-10-10  
[30] SE (0802146-1) 2008-10-10  
[30] SE (0802150-3) 2008-10-10  
[30] SE (0802157-8) 2008-10-10  
[30] SE (0802142-0) 2008-10-10  
[30] SE (0802144-6) 2008-10-10  
[30] SE (0802139-6) 2008-10-10  
[30] SE (0802140-4) 2008-10-10  
[30] SE (0802141-2) 2008-10-10  
[30] US (61/202,380) 2009-02-24  
[30] US (61/202,382) 2009-02-24  
[30] US (61/202,383) 2009-02-24  
[30] US (61/202,393) 2009-02-25  
[30] US (61/202,404) 2009-02-25  
[30] US (61/202,407) 2009-02-25  
[30] US (61/202,406) 2009-02-25  
[30] US (61/202,405) 2009-02-25  
[30] US (61/213,157) 2009-05-12  
[30] US (61/213,158) 2009-05-12  
[30] US (61/213,155) 2009-05-12

## Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,074,400**  
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C07K 14/74 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX MICE**

[54] **SOURIS AU COMPLEXE MAJEUR D'HISTOCOMPATIBILITE GENETIQUEMENT MODIFIEES**

[72] MACDONALD, LYNN, US  
[72] MURPHY, ANDREW J., US  
[72] GURER, CAGAN, US  
[72] MCWHIRTER, JOHN, US  
[72] VORONINA, VERA, US  
[72] HARRIS, FAITH, US  
[72] STEVENS, SEAN, US  
[71] REGENERON PHARMACEUTICALS, INC., US

[22] 2012-10-26  
[41] 2013-05-02  
[62] 2,850,387  
[30] US (61/552,582) 2011-10-28  
[30] US (61/552,587) 2011-10-28  
[30] US (61/700,908) 2012-09-14

[21] **3,074,402**  
[13] A1

[51] **Int.Cl. H04W 74/02 (2009.01)**

[25] EN

[54] **CONTROL FLOW ENHANCEMENTS FOR LTE-UNLICENSED**

[54] **AMELIORATIONS DE FLUX DE COMMANDE POUR LTE SANS LICENCE**

[72] YERRAMALLI, SRINIVAS, US  
[72] LUO, TAO, US  
[72] DAMNJANOVIC, ALEKSANDAR, US  
[72] CHEN, WANSHI, US  
[72] GAAL, PETER, US  
[71] QUALCOMM INCORPORATED, US

[22] 2016-05-10  
[41] 2016-12-01  
[62] 2,981,985  
[30] US (62/165,814) 2015-05-22  
[30] US (15/149,752) 2016-05-09

[21] **3,074,404**  
[13] A1

[51] **Int.Cl. H04N 19/65 (2014.01) H04N 19/34 (2014.01) H04N 19/70 (2014.01) H03M 13/27 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR GENERATING BROADCAST SIGNAL FRAME USING LAYERED DIVISION MULTIPLEXING**

[54] **APPAREIL ET PROCEDE POUR GENERER UNE TRAME DE SIGNAL DE DIFFUSION A L'AIDE D'UN MULTIPLEXAGE PAR REPARTITION EN COUCHES**

[72] LEE, JAE-YOUNG, KR  
[72] PARK, SUNG-IK, KR  
[72] KWON, SUN-HYOUNG, KR  
[72] KIM, HEUNG-MOOK, KR  
[72] HUR, NAM-HO, KR  
[71] ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KR

[22] 2015-08-25  
[41] 2016-03-03  
[62] 2,958,252  
[30] KR (10-2014-0111090) 2014-08-25  
[30] KR (10-2015-0118763) 2015-08-24

[21] **3,074,491**  
[13] A1

[51] **Int.Cl. F24C 15/20 (2006.01) B08B 15/00 (2006.01) F23J 11/00 (2006.01) F23J 15/00 (2006.01) F24F 7/007 (2006.01) F24F 12/00 (2006.01)**

[25] EN

[54] **MODULAR KITCHEN EXHAUST SYSTEM**

[54] **DISPOSITIF D'EVACUATION MODULAIRE POUR CUISINE**

[72] LIVCHAK, ANDREV V., US  
[72] SCHROCK, DEREK W., US  
[72] MEREDITH, PHILIP J., US  
[72] BEARDSLEE, DARRIN W., US  
[72] BAGWELL, RICK A., US  
[72] FALLER, ANDREW C., US  
[72] SIPILA, OLLI, FI  
[71] OY HALTON GROUP, LTD., FI

[22] 2007-04-18  
[41] 2007-10-25  
[62] 2,965,271  
[30] US (60/745,093) 2006-04-18  
[30] US (60/745,276) 2006-04-20

[21] **3,074,506**  
[13] A1

[51] **Int.Cl. C12Q 1/6897 (2018.01) C12M 1/34 (2006.01) C12Q 1/18 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **REAGENT CARTRIDGE AND METHODS FOR DETECTION OF CELLS**

[54] **CARTOUCHE DE REACTIF ET PROCEDES POUR DETECTION DE CELLULES**

[72] DE FOREST, NIKOL, US  
[72] FREI, WERNER, US  
[72] REY, DIEGO, US  
[72] ROY, SHAUNAK, US  
[72] SHUKLA, SONI, US  
[72] GRISWOLD, RYAN C., US  
[72] OLSON, KENNETH G., US  
[72] RICHARDSON, BRUCE J., US  
[72] YEE, VICTOR H., US  
[71] GENEWEAVE BIOSCIENCES, INC., US

[22] 2015-04-24  
[41] 2015-10-29  
[62] 2,946,752  
[30] US (61/983,765) 2014-04-24  
[30] US (14/617,631) 2015-02-09

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,074,537**  
[13] A1

[51] **Int.Cl. H04N 19/34 (2014.01) H04J 3/00 (2006.01) H04L 1/00 (2006.01) H04N 7/015 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR GENERATING BROADCASTING SIGNAL FRAME THAT INCLUDES PREAMBLE FOR SIGNALLING INJECTION LEVEL INFORMATION**

[54] **APPAREIL ET PROCÉDE POUR GÉNÉRER UNE TRAME DE SIGNAL DE DIFFUSION QUI COMPREND UN PREAMBULE AFIN DE SIGNALER DES INFORMATIONS DE NIVEAU D'INJECTION**

[72] PARK, SUNG-IK, KR  
[72] LEE, JAE-YOUNG, KR  
[72] KWON, SUN-HYOUNG, KR  
[72] KIM, HEUNG-MOOK, KR  
[71] ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KR

[22] 2016-11-01  
[41] 2017-05-11  
[62] 3,001,545  
[30] KR (10-2015-0153211) 2015-11-02  
[30] KR (10-2015-0160895) 2015-11-17  
[30] KR (10-2016-0139443) 2016-10-25

[21] **3,074,548**  
[13] A1

[25] EN

[54] **TRAILER STABILIZER AND RESTRAINT**

[54] **DISPOSITIF STABILISATEUR ET LIMITEUR DE REMORQUE**

[72] KIMENER, THOMAS TERRENCE, US

[71] STABILOCK, LLC, US

[22] 2016-08-19  
[41] 2017-02-19  
[62] 2,939,412  
[30] US (62/206,869) 2015-08-19

[21] **3,074,551**  
[13] A1

[51] **Int.Cl. C12N 15/38 (2006.01) C12Q 1/6844 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **COMPOSITIONS, METHODS AND KITS TO DETECT HERPES SIMPLEX VIRUS NUCLEIC ACIDS**

[54] **COMPOSITIONS, METHODES ET KITS PERMETTANT DE DÉTECTER L'ACIDE NUCLEIQUE DU VIRUS DE L'HERPES SIMPLEX**

[72] GETMAN, DAMON K., US  
[72] AIYER, APARNA, US  
[72] CHEN, WENDY, US  
[71] GEN-PROBE INCORPORATED, US

[22] 2011-04-21  
[41] 2011-10-27  
[62] 3,011,697  
[30] US (61/326,329) 2010-04-21

[21] **3,074,615**  
[13] A1

[51] **Int.Cl. G02C 7/06 (2006.01)**

[25] EN

[54] **PROGRESSIVE SPECTACLE LENS HAVING A VARIABLE REFRACTIVE INDEX AND METHOD FOR THE DESIGN AND PRODUCTION THEREOF**

[54] **VERRE DE LUNETTES PROGRESSIF PRESENTANT UN INDICE DE REFRACTION VARIABLE ET PROCÉDE DE CONCEPTION ET DE FABRICATION DUDIT VERRE**

[72] KELCH, GERHARD, DE  
[72] MENKE, CHRISTOPH, DE  
[72] WIETSCHORKE, HELMUT, DE  
[71] CARL ZEISS VISION INTERNATIONAL GMBH, DE

[22] 2018-01-19  
[41] 2018-07-26  
[62] 3,054,482  
[30] EP (17152384.8) 2017-01-20

[21] **3,074,632**  
[13] A1

[51] **Int.Cl. G02B 3/12 (2006.01) G02C 7/08 (2006.01)**

[25] EN

[54] **FLUID-FILLED LENSES AND ACTUATION SYSTEMS THEREOF**

[54] **VERRES REMPLIS DE LIQUIDE ET LEURS SYSTEMES D'ACTIONNEMENT**

[72] EGAN, WILLIAM, US  
[72] HAROUD, KARIM, CH  
[72] NIBAUER, LISA, US  
[72] PETERSON, MATTHEW WALLACE, US

[72] SCHNELL, URBAN, CH  
[72] SENATORE, DANIEL, US  
[71] ADLENS BEACON, INC., US

[22] 2011-11-10  
[41] 2012-05-18  
[62] 2,993,068  
[30] US (61/411,978) 2010-11-10

[21] **3,074,633**  
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/31 (2019.01) G06F 16/33 (2019.01) G06K 9/62 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DATA INDEXING AND PROCESSING**

[54] **SYSTEMES ET PROCÉDES D'INDEXATION ET DE TRAITEMENT DE DONNEES**

[72] MORVANT, JOSEPH MATTHEW, US  
[72] EBAUGH, MICHAEL JOHN, US  
[71] INDXIT SYSTEMS, INC., US

[22] 2006-07-14  
[41] 2007-01-25  
[62] 2,975,694  
[30] US (60/699,893) 2005-07-15

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[21] **3,074,762**  
[13] A1

[51] **Int.Cl. G08C 17/02 (2006.01) H04W 12/02 (2009.01) E05F 15/60 (2015.01) E05F 15/77 (2015.01)**

[25] EN

[54] **METHOD AND APPARATUS TO FACILITATE TRANSMISSION OF AN ENCRYPTED ROLLING CODE**

[54] **METHODE ET DISPOSITIF FACILITANT LA TRANSMISSION D'UN CODE CHIFFRE A DEFILEMENT VERTICAL**

[72] FITZGIBBON, JAMES J., US

[72] GREGORI, ERIC, US

[72] LAIRD, EDWARD T., US

[71] THE CHAMBERLAIN GROUP, US

[22] 2007-08-03

[41] 2008-02-09

[62] 2,926,281

[30] US (11/501,455) 2006-08-09

[21] **3,074,770**  
[13] A1

[51] **Int.Cl. H04L 1/22 (2006.01) H04L 12/955 (2013.01) H03M 13/11 (2006.01) H03M 13/15 (2006.01) H03M 13/29 (2006.01) H04L 27/34 (2006.01)**

[25] EN

[54] **TRANSMITTER AND SHORTENING METHOD THEREOF**

[54] **EMETTEUR ET SON PROCEDE DE RACCOURCISSEMENT**

[72] JEONG, HONG-SIL, KR

[72] KIM, KYUNG-JOONG, KR

[72] MYUNG, SE-HO, KR

[71] SAMSUNG ELECTRONICS CO., LTD., KR

[22] 2016-03-02

[41] 2016-09-09

[62] 2,977,214

[30] US (62/127,023) 2015-03-02

[30] KR (10-2015-0137183) 2015-09-27

[21] **3,074,776**  
[13] A1

[51] **Int.Cl. G05B 19/408 (2006.01) G05B 19/045 (2006.01) H04L 7/00 (2006.01) H04L 12/16 (2006.01)**

[25] EN

[54] **MACHINES, COMPUTER PROGRAM PRODUCTS, AND COMPUTER-IMPLEMENTED METHODS PROVIDING AN INTEGRATED NODE FOR DATA ACQUISITION AND CONTROL**

[54] **MACHINES, PRODUITS PROGRAMMES D'ORDINATEUR ET PROCEDES IMPLIMENTES DANS UN ORDINATEUR FOURNISSANT UN NOEUD INTEGRE PERMETTANT L'ACQUISITION ET LA COMMANDE DE DONNEES**

[72] AL-MADI, SOLOMAN M., SA

[72] AL-DHUBAIB, TOFIG A., SA

[72] AL-WALAIE, SOLIMAN A., SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[22] 2011-07-22

[41] 2012-01-26

[62] 2,804,954

[30] US (61/367,207) 2010-07-23

[21] **3,074,789**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING SENSITIVE AND SPECIFIC ALARMS**

[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'ALARMS SENSIBLES ET SPECIFIQUES**

[72] BHAVARAJU, NARESH, US

[72] COBELLI, CLAUDIO, IT

[72] FACCHINETTI, ANDREA, IT

[72] HAMPAPURAM, HARI, US

[72] KAMATH, APURV ULLAS, US

[72] RACK-GOMER, ANNA LEIGH, US

[72] SPARACINO, GIOVANNI, IT

[72] ZECCHIN, CHIARA, IT

[71] DEXCOM, INC., US

[22] 2013-10-16

[41] 2014-05-08

[62] 2,882,228

[30] US (61/720,286) 2012-10-30

[30] US (13/742,694) 2013-01-16

[30] US (13/742,841) 2013-01-16

[21] **3,074,790**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2019.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07K 1/06 (2006.01)**

[25] EN

[54] **PEPTIDE WITH ANTI-OBESITY AND ANTI-DIABETES ACTIVITY AND USE THEREOF**

[54] **PEPTIDE AYANT DES EFFETS ANTI-DIABETIQUES ET ANTI-OBESITE, ET SON UTILISATION**

[72] CHUNG, YONG JI, KR

[72] KIM, EUN MI, KR

[71] CAREGEN CO., LTD., KR

[22] 2015-05-12

[41] 2016-11-03

[62] 2,984,287

[30] KR (10-2015-0059648) 2015-04-28

[21] **3,074,799**  
[13] A1

[51] **Int.Cl. C12M 1/34 (2006.01) C12Q 1/00 (2006.01) C12Q 1/04 (2006.01) G01N 1/30 (2006.01) C12N 5/076 (2010.01)**

[25] EN

[54] **APPARATUS, METHODS AND PROCESSES FOR SORTING PARTICLES AND FOR PROVIDING SEX-SORTED ANIMAL SPERM**

[54] **DISPOSITIFS, PROCEDES ET PROCESSUS PERMETTANT DE TRIER DES PARTICULES ET D'OBTENIR DU SPERME ANIMAL PRODUISANT UNE PROGENITURE DE SEXE DONNE**

[72] DURACK, GARY, US

[72] HATCHER, JEREMY T., US

[72] WESTFALL, LON A., US

[72] WALLACE, JEFFREY D., US

[72] VANDRE, GARY P., US

[72] NAYAK, NIRAJ V., US

[72] HELBLING, DAVID, US

[71] INGURAN, LLC, US

[22] 2004-03-29

[41] 2004-10-14

[62] 2,952,056

[30] US (60/458,731) 2003-03-28

[30] US (60/458,607) 2003-03-28

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,074,800**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2019.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07K 1/06 (2006.01)**

[25] EN

[54] **PEPTIDE WITH ANTI-OBESITY AND ANTI-DIABETES ACTIVITY AND USE THEREOF**

[54] **PEPTIDE AYANT DES EFFETS ANTI-DIABETIQUES ET ANTI-OBESITE, ET SON UTILISATION**

[72] CHUNG, YONG JI, KR  
[72] KIM, EUN MI, KR  
[71] CAREGEN CO., LTD., KR  
[22] 2015-05-12  
[41] 2016-11-03  
[62] 2,984,287  
[30] KR (10-2015-0059648) 2015-04-28

[21] **3,074,836**  
[13] A1

[25] EN

[54] **PEPTIDE WITH ANTI-OBESITY AND ANTI-DIABETES ACTIVITY AND USE THEREOF**

[54] **PEPTIDE AYANT DES EFFETS ANTI-DIABETIQUES ET ANTI-OBESITE, ET SON UTILISATION**

[72] CHUNG, YONG JI, KR  
[72] KIM, EUN MI, KR  
[71] CAREGEN CO., LTD., KR  
[22] 2015-05-12  
[41] 2016-11-03  
[62] 2,984,287  
[30] KR (10-2015-0059648) 2015-04-28

[21] **3,074,852**  
[13] A1

[25] EN

[54] **APPLICATION OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY IN SENSOR SYSTEMS, DEVICES, AND RELATED METHODS**

[54] **APPLICATION DE SPECTROSCOPIE A IMPEDANCE ELECTROCHIMIQUE DANS DES SYSTEMES DE CAPTEUR, DISPOSITIFS ET PROCEDES ASSOCIES**

[72] YANG, NING, US  
[72] GAUTHAM, RAGHAVENDHAR, US  
[72] LIANG, BRADLEY C., US  
[72] SHAH, RAJIV, US  
[72] SZYMAN, CATHERINE M., US  
[72] MILLER, MICHAEL E., US  
[72] WANG, JENN-HANN LARRY, US  
[72] LI, YIWEN, US  
[72] MORGAN, WAYNE A., US  
[72] CHEN, PARIS, US  
[72] MUCIC, ROBERT C., US  
[72] DE BARROS, GENIVAL D., US  
[72] CALLIRGOS, CARLOS A., US  
[72] SIRIGIRI, MANJUNATH, US  
[72] BRINSON, JOSEPH PAUL, US  
[71] MEDTRONIC MINIMED, INC., US  
[22] 2013-05-24  
[41] 2013-12-12  
[62] 2,873,996  
[30] US (61/657,517) 2012-06-08  
[30] US (61/754,479) 2013-01-18  
[30] US (61/754,475) 2013-01-18  
[30] US (61/754,485) 2013-01-18  
[30] US (61/754,483) 2013-01-18  
[30] US (61/755,811) 2013-01-23  
[30] US (13/778,433) 2013-02-27  
[30] US (13/778,611) 2013-02-27  
[30] US (13/778,559) 2013-02-27  
[30] US (13/778,514) 2013-02-27  
[30] US (13/778,473) 2013-02-27  
[30] US (13/778,416) 2013-02-27  
[30] US (13/778,391) 2013-02-27  
[30] US (13/778,630) 2013-02-27

[21] **3,074,807**  
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING SENSITIVE AND SPECIFIC ALARMS**

[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'ALARMS SENSIBLES ET SPECIFIQUES**

[72] BHAVARAJU, NARESH, US  
[72] COBELLI, CLAUDIO, US  
[72] FACCHINETTI, ANDREA, US  
[72] HAMPAPURAM, HARI, US  
[72] KAMATH, APURV ULLAS, US  
[72] RACK-GOMER, ANNA LEIGH, US  
[72] SPARACINO, GIOVANNI, US  
[72] ZECCHIN, CHIARA, US  
[71] DEXCOM, INC., US  
[22] 2013-10-16  
[41] 2014-05-08  
[62] 2,882,228  
[30] US (61/720,286) 2012-10-30  
[30] US (13/742,694) 2013-01-16  
[30] US (13/742,841) 2013-01-16

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[21] **3,074,907**  
[13] A1

[25] EN  
[54] **BIOMATERIAL COLLECTION SYSTEM**  
[54] **SYSTEME DE COLLECTE DE BIOMATERIAUX**  
[72] KRAMER, HEIDI, US  
[72] WAGSCHAL, HERMAN, US  
[72] WAGSCHAL, JOSEPH, US  
[71] WK HOLDINGS, INC., US  
[22] 2015-11-11  
[41] 2016-11-10  
[62] 2,985,183  
[30] US (14/704,034) 2015-05-05

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[21] **3,074,916**  
[13] A1

[25] EN  
[54] **APPLICATION FOR DEVICE EVALUATION AND OTHER PROCESSES ASSOCIATED WITH DEVICE RECYCLING**  
[54] **APPLICATION POUR L'EVALUATION DE DISPOSITIF ET D'AUTRES PROCEDES ASSOCIES AU RECYCLAGE DE DISPOSITIF**  
[72] BOWLES, MARK VINCENT, US  
[72] ERMAN, RANDAL, US  
[72] HAMMES, JARROD, US  
[72] PLOETNER, JEFFREY, US  
[72] SILVA, JOHN, US  
[72] SEGIL, RICK, US  
[71] ECOATM, LLC, US  
[22] 2015-10-01  
[41] 2016-04-07  
[62] 2,964,223  
[30] US (62/059,132) 2014-10-02

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[21] **3,074,918**  
[13] A1

[25] EN  
[54] **HYBRID DEVICE FOR SURGICAL AORTIC REPAIR AND METHOD OF USING THE SAME**  
[54] **DISPOSITIF HYBRIDE POUR REPARATION CHIRURGICALE D'AORTE ET SON PROCEDE D'UTILISATION**  
[72] SHAHRIARI, ALI, US  
[72] LEOPOLD, ERIC, US  
[71] ASCYRUS MEDICAL, LLC, US  
[22] 2016-01-11  
[41] 2016-07-14  
[62] 3,007,346  
[30] US (62/102,094) 2015-01-11  
[30] US (62/185,750) 2015-06-29  
[30] US (62/237,531) 2015-10-05  
[30] US (62/259,045) 2015-11-23

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[21] **3,074,956**  
[13] A1

[25] EN  
[54] **GOLF CLUB HEADS WITH OPTIMIZED CHARACTERISTICS AND RELATED METHODS**  
[54] **TETES DE BATON DE GOLF A CARACTERISTIQUES OPTIMISEES ET METHODES ASSOCIEES**  
[72] SCHWEIGERT, BRADLEY D., US  
[72] STOKKE, RYAN M., US  
[71] KARSTEN MANUFACTURING CORPORATION, US  
[22] 2014-03-14  
[41] 2014-09-25  
[62] 2,994,141  
[30] US (13/826,111) 2013-03-14  
[30] US (13/804,917) 2013-03-14  
[30] US (13/804,859) 2013-03-14

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[21] **3,074,962**  
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/958 (2013.01) A61M 25/01 (2006.01)**  
[25] EN  
[54] **TRANSAPICAL DELIVERY SYSTEM FOR HEART VALVES**  
[54] **SYSTEME DE MISE EN PLACE TRANSAPICALE DE VALVULES CARDIAQUES**  
[72] JIMENEZ, TEODORO S., US  
[72] LEE, WALTER, US  
[72] DEHDASHTIAN, MARK, US  
[72] YEE, KRISTOPHER, US  
[71] EDWARDS LIFESCIENCES CORPORATION, US  
[22] 2010-07-14  
[41] 2011-01-20  
[62] 2,971,946  
[30] US (61/225,510) 2009-07-14  
[30] US (12/835,546) 2010-07-13

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[21] **3,074,965**  
[13] A1

[51] **Int.Cl. H04N 21/6336 (2011.01) H04N 21/235 (2011.01) H04N 19/46 (2014.01)**  
[25] EN  
[54] **APPARATUS FOR TRANSMITTING BROADCAST SIGNAL, APPARATUS FOR RECEIVING BROADCAST SIGNAL, METHOD FOR TRANSMITTING BROADCAST SIGNAL AND METHOD FOR RECEIVING BROADCAST SIGNAL**  
[54] **APPAREIL DE TRANSMISSION D'UN SIGNAL DIFFUSE, APPAREIL DE RECEPTION D'UN SIGNAL DIFFUSE, METHODE DE TRANSMISSION D'UN SIGNAL DIFFUSE ET METHODE DE RECEPTION D'UN SIGNAL DIFFUSE**  
[72] KWAK, MINSUNG, KR  
[72] MOON, KYOUNGSOO, KR  
[72] LEE, JANGWON, KR  
[72] KO, WOOSUK, KR  
[72] HONG, SUNGRYONG, KR  
[71] LG ELECTRONICS INC., KR  
[22] 2015-11-20  
[41] 2016-05-20  
[62] 2,925,273  
[30] US (62/082,132) 2014-11-20

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,074,969**  
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G16H 50/50 (2018.01) G16H 50/70 (2018.01) G01N 33/53 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TREATING, DIAGNOSING AND PREDICTING THE OCCURRENCE OF A MEDICAL CONDITION**

[54] **SYSTEMES ET METHODES DE TRAITEMENT, DIAGNOSTIC ET PREDICTION DE L'OCCURRENCE D'UN ETAT MEDICAL**

[72] DONOVAN, MICHAEL, US  
[72] KHAN, FAISAL, US  
[72] FERNANDEZ, GERARDO, US  
[72] TABESH, ALI, US  
[72] MESA-TEJADA, RICARDO, US  
[72] CARDON-CARDO, CARLOS, US  
[72] COSTA, JOSE, US  
[72] FOGARASI, STEPHEN, US  
[72] VENGRENYUK, YEVGEN, US  
[71] FUNDACAO D. ANNA SOMMER CHAMPALIMAUD E DR. CARLOS MONTEZ CHAMPALIMAUD, PT

[22] 2009-07-27  
[41] 2010-01-28  
[62] 2,731,747  
[30] US (61/135,925) 2008-07-25  
[30] US (61/135,926) 2008-07-25  
[30] US (61/190,537) 2008-08-28  
[30] US (61/204,606) 2009-01-07  
[30] US (61/217,832) 2009-06-04

[21] **3,074,971**  
[13] A1

[25] EN

[54] **A MOBILE SCREENING APPARATUS**

[54] **APPAREIL DE CRIBLAGE MOBILE**

[72] ANDERSON, JOHN, AU  
[71] AAA SCREENS PTY LTD, AU

[22] 2013-03-11  
[41] 2013-09-12  
[62] 2,903,563  
[30] AU (2012900959) 2012-03-09

[21] **3,074,976**  
[13] A1

[51] **Int.Cl. A01K 1/035 (2006.01) A01K 15/00 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **PET RAMP SYSTEM**

[54] **SYSTEME DE RAMPE POUR ANIMAL DE COMPAGNIE**

[72] MACNEIL, DAVID F., US  
[72] MASANEK, FREDERICK W., JR., US  
[72] IVERSON, DAVID S., US  
[71] MACNEIL IP LLC, US

[22] 2017-03-23  
[41] 2017-10-04  
[62] 2,961,858  
[30] US (15/090321) 2016-04-04

[21] **3,075,012**  
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR HEMODIALYSIS**

[54] **APPAREIL ET PROCEDES D'HEMODYALYSE**

[72] KAMEN, DEAN, US  
[72] GRANT, KEVIN L., US  
[72] DEMERS, JASON A., US  
[72] DALE, JAMES D., US  
[72] COLLINS, DAVID E., US  
[72] WILT, MICHAEL J., US  
[72] PRESCOTT, SHANNON, US  
[72] MARCEK, GEOFFREY A., US  
[72] BODWELL, JESSE T., US  
[72] CHAWAN, ARUN D., US  
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[22] 2008-10-10  
[41] 2009-04-23  
[62] 2,971,046  
[30] US (12/199,196) 2008-08-27  
[30] US (11/871,787) 2007-10-12  
[30] US (11/871,712) 2007-10-12  
[30] US (11/871,680) 2007-10-12  
[30] US (11/871,793) 2007-10-12  
[30] US (12/038,474) 2008-02-27  
[30] US (12/038,648) 2008-02-27  
[30] US (12/199,068) 2008-08-27  
[30] US (12/199,176) 2008-08-27  
[30] US (12/199,166) 2008-08-27  
[30] US (12/199,062) 2008-08-27  
[30] US (12/199,055) 2008-08-27  
[30] US (12/199,077) 2008-08-27  
[30] US (12/198,947) 2008-08-27

[21] **3,075,014**  
[13] A1

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR HEMODIALYSIS**

[54] **APPAREIL ET PROCEDES D'HEMODYALYSE**

[72] KAMEN, DEAN, US  
[72] GRANT, KEVIN L., US  
[72] DEMERS, JASON A., US  
[72] DALE, JAMES D., US  
[72] COLLINS, DAVID E., US  
[72] WILT, MICHAEL J., US  
[72] PRESCOTT, SHANNON, US  
[72] MARCEK, GEOFFREY A., US  
[72] BODWELL, JESSE T., US  
[72] CHAWAN, ARUN D., US  
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[22] 2008-10-10  
[41] 2009-04-23  
[62] 2,971,046  
[30] US (11/871,787) 2007-10-12  
[30] US (11/871,712) 2007-10-12  
[30] US (11/871,680) 2007-10-12  
[30] US (11/871,793) 2007-10-12  
[30] US (12/038,474) 2008-02-27  
[30] US (12/038,648) 2008-02-27  
[30] US (12/199,068) 2008-08-27  
[30] US (12/199,176) 2008-08-27  
[30] US (12/199,166) 2008-08-27  
[30] US (12/199,062) 2008-08-27  
[30] US (12/199,055) 2008-08-27  
[30] US (12/199,077) 2008-08-27  
[30] US (12/198,947) 2008-08-27  
[30] US (12/199,196) 2008-08-27

[21] **3,075,033**  
[13] A1

[25] EN

[54] **GEOCELL FOR MODERATE AND LOW LOAD APPLICATIONS**

[54] **GEOCELLULE POUR DES APPLICATIONS DE CHARGE MODEREE ET FAIBLE**

[72] EREZ, ODED, IL  
[72] EREZ, ADI, IL  
[72] HALAHMI, IZHAR, IL  
[71] GEOTECH TECHNOLOGIES LTD., IL

[22] 2012-03-02  
[41] 2013-08-15  
[62] 2,864,152  
[30] US (61/597,652) 2012-02-10

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[21] **3,075,047**  
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 15/113 (2010.01) C12N 15/00 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **CRISPR ENABLED MULTIPLICED GENOME ENGINEERING**

[54] **INGENIERIE GENOMIQUE MULTIPLEXE VALIDEE AYANT RECOURS AU SYSTEME CRISPR**

[72] GILL, RYAN T., US

[72] GARST, ANDREW, US

[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US

[22] 2015-02-11

[41] 2015-08-20

[62] 2,938,456

[30] US (61/938,608) 2014-02-11

[21] **3,075,050**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) A61P 15/00 (2006.01) A61P 31/20 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR TREATING CANCER ASSOCIATED WITH HPV INFECTION**

[54] **COMPOSITION POUR LE TRAITEMENT DU CANCER ASSOCIE A UNE INFECTION PAR LE HPV**

[72] SHIN, YOUNG KEE, KR

[72] KIM, YOUNG DEUG, KR

[72] JUNG, HUN SOON, KR

[72] KIM, DEUK AE, KR

[71] ENHANCEDBIO INC., KR

[22] 2013-08-01

[41] 2014-02-06

[62] 2,880,777

[30] KR (10-2012-0084820) 2012-08-02

[21] **3,075,070**  
[13] A1

[51] **Int.Cl. B01D 3/14 (2006.01) A61K 9/72 (2006.01)**

[25] EN

[54] **METHODS AND DRUG DELIVERY DEVICES USING CANNABIS**

[54] **PROCEDES ET DISPOSITIFS D'ADMINISTRATION DE MEDICAMENTS A L'AIDE DE CANNABIS**

[72] MCCULLOUGH, TIMOTHY, US

[71] MCCULLOUGH, TIMOTHY, US

[22] 2015-02-11

[41] 2015-08-20

[62] 2,939,088

[30] US (61/938,577) 2014-02-11

[30] US (14/264,999) 2014-04-29

[30] US (62/058,431) 2014-10-01

[30] US (14/574,591) 2014-12-18

[30] US (PCT/US2015/014418) 2015-02-04

[21] **3,075,048**  
[13] A1

[25] EN

[54] **DRIVE SYSTEM FOR PADDLE BELT CONVEYOR**

[54] **SYSTEME D'ENTRAINEMENT DESTINE A UN TRANSPORTEUR A COURROIE SEGMENTEE**

[72] JOHNSON, ZACHARY, CA

[72] KLASSEN, RONALD, CA

[71] AG GROWTH INTERNATIONAL INC., CA

[22] 2017-12-18

[41] 2018-06-19

[62] 2,989,229

[30] US (62/436,170) 2016-12-19

[21] **3,075,063**  
[13] A1

[51] **Int.Cl. A61B 5/0492 (2006.01) A61H 39/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTOMATED MUSCLE STIMULATION**

[54] **SYSTEMES ET PROCEDES DE STIMULATION MUSCULAIRE AUTOMATIQUE**

[72] FAHEY, BRIAN JOSEPH, US

[71] SAGE PRODUCTS, LLC, US

[22] 2009-07-02

[41] 2010-01-07

[62] 2,727,498

[30] US (61/133,777) 2008-07-02

[30] US (61/189,558) 2008-08-19

[30] US (61/190,602) 2008-08-29

[30] US (61/201,877) 2008-12-15

[21] **3,075,071**  
[13] A1

[25] EN

[54] **PORTABLE ELECTRONIC DEVICE, METHOD, AND GRAPHICAL USER INTERFACE FOR DISPLAYING STRUCTURED ELECTRONIC DOCUMENTS**

[54] **APPAREIL ELECTRONIQUE PORTABLE, PROCEDE ET INTERFACE UTILISATEUR GRAPHIQUE POUR AFFICHER DES DOCUMENTS ELECTRONIQUES STRUCTURES**

[72] ORDING, BAS, US

[72] FORSTALL, SCOTT, US

[72] CHRISTIE, GREG, US

[72] LEMAY, STEPHEN O., US

[72] CHAUDHRI, IMRAN, US

[72] WILLIAMSON, RICHARD, US

[72] BLUMENBERG, CHRIS, US

[72] VAN OS, MARCEL, US

[71] APPLE INC., US

[22] 2007-09-05

[41] 2008-03-13

[62] 2,986,163

[30] US (60/824,769) 2006-09-06

[30] US (60/879,253) 2007-01-07

[30] US (60/879,469) 2007-01-08

[30] US (60/946,715) 2007-06-27

[30] US (60/937,993) 2007-06-29

[30] US (11/850,013) 2007-09-04

[21] **3,075,049**  
[13] A1

[51] **Int.Cl. G10L 17/04 (2013.01) G10L 17/18 (2013.01) G10L 17/24 (2013.01)**

[25] EN

[54] **END-TO-END SPEAKER RECOGNITION USING DEEP NEURAL NETWORK**

[54] **RECONNAISSANCE DE LOCUTEUR DE BOUT EN BOUT A L'AIDE D'UN RESEAU NEURONAL PROFOND**

[72] KHOURY, ELIE, US

[72] GARLAND, MATTHEW, US

[71] PINDROP SECURITY, INC., US

[22] 2017-09-11

[41] 2018-03-15

[62] 3,036,533

[30] US (15/262,748) 2016-09-12

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[21] **3,075,072**  
[13] A1

[25] EN  
[54] **BOLT CARRIER BEARING TUBE FOR RIFLE RECEIVER**  
[54] **TUBE DE SUPPORT DE PORTE-CULASSE POUR BOITE DE CULASSE DE FUSIL**  
[72] VIVIANO, MATTEO, US  
[71] SMITH & WESSON CORP., US  
[22] 2016-12-14  
[41] 2017-06-22  
[62] 3,008,003  
[30] US (14/969,343) 2015-12-15

[21] **3,075,073**  
[13] A1

[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  
[22] 2016-11-08  
[41] 2017-05-18  
[62] 3,004,608  
[30] US (14/939,602) 2015-11-12

[21] **3,075,077**  
[13] A1

[51] **Int.Cl. E04H 1/00 (2006.01) H05B 47/115 (2020.01) E04B 1/343 (2006.01) E04H 5/02 (2006.01) H02G 3/04 (2006.01) H02G 5/00 (2006.01) H02J 9/00 (2006.01) H04Q 1/04 (2006.01)**  
[25] EN  
[54] **DATA CENTRE**  
[54] **CENTRE DE DONNEES**  
[72] ROGERS, PAUL, GB  
[71] BRIPCO BVBA, BE  
[22] 2012-08-03  
[41] 2013-02-14  
[62] 2,879,599  
[30] GB (1113556.3) 2011-08-05

[21] **3,075,108**  
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01) H01J 61/02 (2006.01)**  
[25] EN  
[54] **ULTRAVIOLET DISCHARGE LAMP APPARATUSES WITH ONE OR MORE REFLECTORS AND SYSTEMS WHICH DETERMINE OPERATING PARAMETERS AND DISINFECTION SCHEDULES FOR GERMICIDAL DEVICES**  
[54] **APPAREILS A LAMPE A DECHARGE ULTRAVIOLETTE POSSEDANT UN OU PLUSIEURS REFLECTEURS ET DES SYSTEMES QUI DETERMINENT DES PARAMETRES DE FONCTIONNEMENT ET DES PROGRAMMES DE DESINFECTION POUR DES DISPOSITIFS GERMICIDES**  
[72] STIBICH, MARK ANDREW, US  
[72] WOLFORD, JAMES BLAINE, US  
[72] GARFIELD, ALEXANDER NATHAN, US  
[72] RATHGEBER, MARTIN, US  
[72] FRYDENDALL, ERIC MARTIN, US  
[71] XENEX DISINFECTION SERVICES, LLC., US  
[22] 2012-06-08  
[41] 2013-07-18  
[62] 3,030,681  
[30] US (13/156,131) 2011-06-08

[21] **3,075,125**  
[13] A1

[25] EN  
[54] **GUIDE BLOCK FOR BIOPSY OR SURGICAL DEVICES**  
[54] **BLOC DE GUIDAGE POUR DISPOSITIFS DE BIOPSIE OU CHIRURGICAUX**  
[72] SHABAZ, MARTIN V., US  
[71] SENORX, INC., US  
[22] 2006-12-05  
[41] 2007-06-21  
[62] 2,966,395  
[30] US (11/298,154) 2005-12-09

[21] **3,075,139**  
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 31/20 (2006.01) G01N 33/52 (2006.01) G01N 35/02 (2006.01)**  
[25] EN  
[54] **DROPLET-BASED ASSAY SYSTEM**  
[54] **SYSTEME DE DOSAGE BASE SUR DES GOUTTELETTES**  
[72] COLSTON, BILLY WAYNE, JR., US  
[72] HINDSON, BENJAMIN JOSEPH, US  
[72] NESS, KEVIN DEAN, US  
[72] MASQUELIER, DONALD ARTHUR, US  
[72] MILANOVICH, FRED PAUL, US  
[72] MODLIN, DOUGLAS N., US  
[72] RIOT, VINCENT, US  
[72] BURD, SAMUEL, US  
[72] MAKAREWICZ, ANTHONY JOSEPH, JR., US  
[72] BELGRADER, PHILLIP, US  
[71] BIO-RAD LABORATORIES, INC., US  
[22] 2009-09-23  
[41] 2010-04-01  
[62] 2,738,578  
[30] US (61/194,043) 2008-09-23  
[30] US (61/206,975) 2009-02-05  
[30] US (61/271,538) 2009-07-21  
[30] US (61/275,731) 2009-09-01  
[30] US (61/277,249) 2009-09-21  
[30] US (61/277,200) 2009-09-21  
[30] US (61/277,204) 2009-09-21  
[30] US (61/277,216) 2009-09-21  
[30] US (61/277,203) 2009-09-21  
[30] US (61/277,270) 2009-09-22

[21] **3,075,142**  
[13] A1

[51] **Int.Cl. A61F 2/91 (2013.01) A61F 2/915 (2013.01) A61F 2/06 (2013.01) A61B 17/12 (2006.01)**  
[25] EN  
[54] **FLOW REDUCING IMPLANT**  
[54] **IMPLANT REDUCTEUR DE FLUX**  
[72] BEN MUVHAR, SHMUEL, IL  
[72] SHALEV, ILAN, IL  
[72] TSEHORI, JONATHAN, IL  
[72] DARVISH, NISSIM, IL  
[71] NEOVASC MEDICAL LTD., IL  
[22] 2002-10-03  
[41] 2003-04-10  
[62] 2,981,561  
[30] IL (145750) 2001-10-04  
[30] IL (151162) 2002-08-08

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[21] **3,075,143**

[13] A1

[25] EN

[54] **PROTEIN-CONTAINING  
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THEREOF**

[54] **ADHESIFS CONTENANT DES  
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[72] PARKER, ANTHONY A., US

[72] MARCINKO, JOSEPH J., US

[71] EVERTREE, FR

[22] 2012-09-07

[41] 2013-03-14

[62] 2,848,056

[30] US (61/532,832) 2011-09-09

[30] US (61/567,769) 2011-12-07

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COMMISSARIAT A L'ENERGIE		DANIELS, LELAND	2,944,693	DOW AGROSCIENCES LLC	2,863,057
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COUSSEGAL, JEAN-LOUIS	2,855,259	DEGOUMOIS, YVAN	2,849,874	LTD.	2,982,904
COUTURE, PIERRE	3,026,416	DEISSEROTH, KARL	2,722,278	DYBALLA, KATRIN MARIE	2,973,451
COVESTRO LLC	2,994,271	DELAVALLE HOLDING AB	2,880,923	DZIENIS, KRZYSZTOF	2,974,915
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WEBER, TORY	2,974,534	XAVIER, RENATO RUFINO	3,007,648	ZHANG, ZAIJUN	2,950,452
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WEFLEN, DARRYL	2,961,071	XEROX CORPORATION	2,887,965	ZHAO, FUNIAN	2,964,620
WEI, BINQING	2,904,044	XIAN, GUANG YI	2,834,335	ZHAO, JI	2,935,086
WEI, GUANG KUAN	2,927,345	XU, BAIHUA	2,867,057	ZHAO, SONGLING	2,921,587
WEINHART, MARIE	2,788,736	XU, GE	2,867,057	ZHAO, YI	2,817,975
WEIR, ROSS	2,929,480	XU, JIE	2,830,791	ZHOU, CHANGJUN	2,926,145
		XYLO TECHNOLOGIES AG	2,887,757	ZHURBENKO, RAISA	2,883,197
		YAMADA, KATSUSHIGE	2,883,588	ZIGNEGO, JAY C.	2,720,976
		YAMADA, MANABU	2,875,083	ZIMMER, INC.	3,026,416
		YAMAMOTO, YUKI	2,993,931	ZLOKARNIK, GREGOR	2,984,994
		YAN, RUQIANG	2,775,314	ZMC METAL COATING INC.	2,824,898
		YANG, HONGMEI	2,875,071	ZOU, WEN-BIN	2,928,326
		YANG, QUAN	2,948,677		
			2,928,326		

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GAO, XUE-SONG	3,042,664	HUFFMAN, JONATHAN	3,056,378	LE CORNEC, OLIVIER	3,055,896
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GILL, MICHAEL J.	3,049,230	II-VI DELAWARE, INC.	3,055,119	MICHAEL	3,055,805
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GOVINDARAJAN, KANNAN	3,055,838	JAYARAMAN, BASKAR	3,055,826	ARAVINDHAN	3,055,977
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SUNGROW POWER SUPPLY CO., LTD.	3,050,229	UNKNOWN	3,055,921	YAO, YUXIANG	3,055,974
SUPOWITZ, ANI	3,055,743	UNWALLA, RAYOMAND JAL	3,055,805	YOUNG, PATRICK H.	3,055,748
SWITZER, LON ERIC	3,055,640	USKOSKI, WILLIAM	3,055,548	YOUNG, STEPHEN M.	3,055,646
SYMBORSKI, THOMAS	3,055,711	UTI LIMITED PARTNERSHIP	3,055,840	YU, YANFEI	3,050,229
TAKAHASHI, TAKESHI	3,055,516	UWM RESEARCH FOUNDATION, INC.	3,037,330	ZALLUHOGLU, UMUT	3,051,279
TAN, LIXIANG	3,056,207	VALLEE, ERIC	3,055,898	ZALLUHOGLU, UMUT	3,051,759
TANG, POI LOON	3,052,436	VAN BAVEL, TREVOR		ZANDI, ALI SHAHIDI	3,056,126
TANG, POI LOON	3,052,439	ROBERT SPENS	3,044,946	ZAYZOOM INC.	3,018,323
TARROZA, BERNARD JAMES	3,018,229	VAN CLEAVE, WILLIAM K.	3,062,093	ZHANG, CHUNLEI	3,018,077
TCI, LLC	3,021,180	VAN WAMBEKE, NICOLAS	3,055,707	ZHANG, XU	3,042,664
TECHTRONIC CORDLESS GP	3,056,100	VANDERVIES, DAVID	3,055,901	ZHAO, MINGRONG	3,055,450
TELMADARREIE, ALI	3,055,840	VAREL INTERNATIONAL IND., L.L.C.	3,051,638	ZHAO, QING EN	3,028,894
THAKUR, ANIRUDDHA MADHUSUDAN	3,055,826	VAZZANA, CHRISTOPHER C.	3,055,858	ZHOU, FENG	3,042,664
THAKUR, ANIRUDDHA MADHUSUDAN	3,055,838	VAZZANA, CHRISTOPHER C.	3,056,051	ZHOU, HUA	3,056,217
THALES	3,055,707	VEELEY, THOMAS G.	3,054,913	ZHOU, LIANHUI	3,024,231
THE BOEING COMPANY	3,046,912	VELARDO, VALERIE	3,018,229	ZHOU, LIANHUI	3,024,242
THE BOEING COMPANY	3,050,380	VERRILLI, DANNY	3,017,682	ZOU, JITAO	3,017,921
THE BOEING COMPANY	3,051,528	VERRILLI, DANNY	3,055,787		
THE BOEING COMPANY	3,055,640	VERRILLI, ROBERT	3,017,682		
THE BOEING COMPANY	3,055,646	VERRILLI, ROBERT	3,055,787		
THE BOEING COMPANY	3,055,716	VERTSEL, ALIAKSEI	3,055,973		
THE BRADBURY COMPANY, INC.	3,054,697	VIBROSYSTEM INC.	3,055,587		
THE ESAB GROUP INC.	3,053,824	VISINTIN, BRYAN	3,055,743		
THE HEIL CO.	3,056,360	WAKEFIELD, RICKY A.	3,055,902		
THE TORONTO-DOMINION BANK	3,018,060	WALBRIDGE, CHELSEA E.	3,056,081		
THE TORONTO-DOMINION BANK	3,018,229	WALES, JOSHUA	3,055,395		
THE TORONTO-DOMINION BANK	3,018,338	WALLACE, IAN	3,021,180		
THE VIOLINA SYNDICATE, LLC	3,040,215	WALLACE, ROBERT ROBLES	3,055,606		
THEILEN, RICKY B.	3,050,663	WANG, JIMMY	3,017,661		
THOMAS, SALIN	3,022,249	WANG, JUN	3,055,838		
THOMPSON, MARK ANDREW	3,056,091	WANG, TAO	3,024,242		
THOMPSON, MARK ANDREW	3,056,093	WANG, TIEJUN	3,027,287		
THOMPSON, MARK ANDREW	3,056,095	WANG, YONG	3,056,207		
THORARENSEN, ATLI	3,055,805	WEBB, SAMUEL DYLAN	3,056,408		
TIRYAKIOGLU, NEJDET N.T.	3,018,100	WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION	3,055,903		
TOLKACHEV, VLADIMIR	3,018,736	WHEATLEY, DONALD E.	3,044,210		
TOROMONT INDUSTRIES LTD.	3,065,728	WHEELER, LUCIE B.	3,019,711		
TRANSDEV GROUP	3,055,896	WHITewater WEST INDUSTRIES LTD.	3,056,578		
TRAVANI, ANDREA	3,017,682	WILCYNSKI, PAUL JOSEPH	3,055,640		
TRAVANI, ANDREA	3,055,787	WINTER, JOHN D.	3,055,851		
TRETIN, MATTHEW	3,055,711	WOCK, CARY	3,017,854		
TRIFKOVIC, MILANA	3,055,840	WOCK, CARY	3,024,398		
TRUJILLO, JOHN ISIDRO	3,055,805	WOJTYCZKA, CZESLAW	3,051,906		
TTI (MACAO COMMERCIAL OFFSHORE) LIMITED	3,055,685	WOLLENBERG, JAMIE	3,054,697		
TUER, DARCY A.	3,018,323	WOODRUFF, JASON ROBERT	3,055,513		
TUNG, JULIE	3,055,683	WOODRUFF, ROBERT	3,056,244		
TUREK, CRAIG EDWIN	3,055,513	WOODS, PATRICK	3,017,562		
TURNER, MATTHEW	3,059,314	WU, HUIXIAN	3,055,805		
UNKNOWN	3,017,726	WU, ZHENYU	3,044,000		
UNKNOWN	3,017,929	WYLIE, JENNIFER	3,022,249		
UNKNOWN	3,018,049	XIA, ZHENGYUE	3,056,207		
UNKNOWN	3,024,231	XIANG, YING-DIAN	3,042,664		
UNKNOWN	3,055,450	XING, GUOQIANG	3,056,207		
UNKNOWN	3,055,898	XU, JIE	3,056,207		
		XU, KAI	3,055,901		
		XU, KAI	3,056,217		
		YAN, XINCHUN	3,056,207		
		YANG, ZECHUAN	3,050,660		
		YANG, ZONGJUN	3,050,229		

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3M INNOVATIVE PROPERTIES COMPANY	3,075,502	ALLARA, PAOLO MARIO ALESSANDRO	3,075,460	ARUMUGAM, SIVAKUMAR	3,075,642
4SC AG	3,075,215	ALLEN, BRENDON	3,075,189	ASAMA, HAJIME	3,075,426
9220-6820 QUEBEC INC.	3,075,559	ALLEN, GEORGE	3,075,177	ASANO, SATOSHI	3,075,424
9449710 CANADA INC.	3,075,433	ALMISHRI, WAGDI	3,075,191	ASCHENBRENNER, JOSEPH	3,075,388
AARESTAD, JEROME K.	3,075,489	ALOBAIDI, MOHAMMED	3,075,179	ASESORIAS EN INNOVACION BUSTOS Y ORTUZAR	
AB LUDVIG SVENSSON	3,075,216	ALTAY, ALTUG	3,075,585	LTDA.	3,075,171
ABBASI, MOHAMMAD	3,075,688	ALTERGON SA	3,075,479	ASGHAR ENKESHAFI, ALI	3,075,203
ABBOTT, ZACHARY	3,075,522	ALTMANN, THOMAS	3,075,588	ASPLUND, DANIEL	3,075,216
ABDEL-SALAM, AHMED HAMDI	3,075,190	ALVAREZ JUERGENSON, GABRIELA	3,075,588	AUELL, PATRICK B.	3,075,498
ABE, KAZUHIRO	3,075,400	ALVES, WAYNE	3,075,407	AUERBACH, MARCO MARIA	3,075,585
ABE, KOJI	3,075,422	AMELGO LLC	3,075,526	AVIDITY BIOSCIENCES, INC.	3,075,425
ABE, TSUKASA	3,075,422	AMGEN INC.	3,075,046	B.R.A.H.M.S GMBH	3,075,440
ABIVAX	3,075,443	AMGEN INC.	3,075,291	B.R.A.H.M.S GMBH	3,075,442
ABUDAYYEH, OMAR	3,075,303	AMGEN INC.	3,075,294	BADER, YVES	3,075,633
ABUZEID, WAEL	3,075,192	AMHERST COLLEGE	3,075,078	BAE SYSTEMS BOFORS AB	3,075,261
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ADAMS, TERRY	3,075,404	AMO GRONINGEN B.V.	3,075,214	BAHL, ASH	3,075,461
ADDY, IBIRONKE	3,075,206	AMSL INNOVATIONS PTY LTD	3,075,429	BAI, TIANYANG	3,075,394
ADIMAB, LLC	3,075,510	AMSL INNOVATIONS PTY LTD	3,075,430	BAILLY, YANNICK	3,075,230
AEBI, VERLE	3,075,509	ANDERSON INNOVATIONS, LLC	3,075,672	BAINES, GRAHAM	3,075,614
AEGIS SORTATION LLC	3,075,269	ANDERSON, JONATHAN	3,075,308	BAKER HUGHES, A GE COMPANY, LLC	3,075,417
AGARKHED, AJIT MANOHAR	3,075,701	ANDERSON, JOSEPH M.	3,075,611	BALASCA, DIANA C.	3,075,103
AGERTON, MARK LEWIS	3,075,098	ANDERSON, KATERINE	3,075,640	BALDAUF, WALTER	2,944,234
AHMAD, ATEEQ	3,075,506	ANDERSON, MARTIN L.	3,075,672	BALL CORPORATION	3,075,092
AHMAD, IMRAN	3,075,506	ANDERSON, MIKE	3,075,379	BALL CORPORATION	3,075,637
AHMAD, MOGHIS U.	3,075,506	ANDERSON, QUINN M.	3,075,672	BALLET, ALEXANDRE	3,075,547
AICURIS GMBH & CO. KG	3,075,206	ANDERSSON, ANNA	3,075,631	BANGEMANN, RICO	3,075,227
AINSCOW, ED	3,075,461	ANDRITZ OY	3,075,496	BANSAL, AMITABH	3,075,397
AISTRUP ROSENDAHL, LASSE	3,075,203	ANGELINI, MATTHEW	3,075,679	BANU, MIHAI	3,075,282
AJOU UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION	3,075,403	ANTRONIX INC.	3,075,468	BAOSHAN IRON & STEEL CO., LTD.	3,075,200
AKCAN, OZGUR	3,075,292	AORTICLAB SARL	3,075,678	BAPAT, MOHINI ANAND	3,075,701
AL OTAIBI, MOHAMMED	3,075,166	APOLLO MEDICAL OPTICS, LTD.	3,075,415	BARASCUD, NICOLAS	3,075,210
AL-QAISI, MUHAMMAD	3,075,469	APPEL, ERIC A.	3,075,455	BARBER, JOHN H.	3,063,522
AL-YOUSEF, ALI ABDALLAH	3,075,166	APPLIED MEDICAL RESOURCES CORPORATION	3,075,295	BARLETTE, CAROLINE	3,075,367
ALAFINOV, ANDREI IVANOVICH	3,075,477	ARDEA BIOSCIENCES, INC.	3,075,305	BARNETT III, STREET ANTHONY	3,075,189
ALARCON HEREDIA, AIXA	3,075,214	ARDESHIRI, RAMTIN	3,075,192	BARON, JIRI	3,075,284
ALBERICO, RONALD A.	3,075,419	ARIDIS PHARMACEUTICALS, INC.	3,075,097	BAROS, DAVOR	3,075,436
ALBERTSON, ROBERT V.	3,075,490	ARKEMA FRANCE	3,075,681	BARRETT, ANTHONY G.M.	3,075,461
ALCON INC.	3,075,469	ARLANXEO CANADA INC.	3,075,354	BARTHOLD, CLEMENS	3,075,313
ALDRED, SHELLEY FORCE	3,075,399	ARLANXEO DEUTSCHLAND GMBH	3,075,354	BARTON, NORMAN	3,075,482
ALERE SAN DIEGO, INC.	3,075,629	ARMAND, MICHEL	3,075,242	BARTZ, RENE	3,075,215
ALESHUNIN, PAVEL ALEKSANDROVICH	3,075,477	ARMBRISTER, CLARENCE	3,075,232	BASADONNA, GIACOMO	3,075,487
ALFRESA PHARMA CORPORATION	3,075,248	ARMES, NIALA A.	3,075,629	BASF SE	3,075,494
ALI, FURQAN	3,075,642	ARMOUR, JOSHUA	3,075,640	BASF SE	3,075,588
ALI, SHOUKATH M.	3,075,506	ARRIOLA, DANIEL J.	3,075,083	BASF SE	3,075,589
ALKAN, OZAN	3,075,168			BASF SE	3,075,652

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BECKERS, ROBERT	3,075,344	BONETTI, FRANCESCO	3,075,678	CANOVAS VIDAL, CARMEN	3,075,211
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BEDFORD SYSTEMS LLC	3,075,088	BONIFACIO, FABRIZIO	3,075,460	CAPUTO, ROSS A.	3,075,267
BEEDE, KIRANKUMAR	3,075,642	BOOD, ARIE	3,075,683	CARAPPELLA, PETER A.	3,075,621
BEELE ENGINEERING B.V.	3,075,563	BOOKER, SHON	3,075,046	CARD, EMMA M.	3,075,542
BEELE, JOHANNES ALFRED	3,075,563	BORCHERS, GEORG	3,075,226	CAREFUSION 303, INC.	3,075,286
BEHE, MARTIN	3,075,218	BORGMANN, CORNELIA	3,075,226	CARETTI, PETER	3,075,653
BEIJING DIDI INFINITY		BORKAR, VIPIN	3,065,824	CARGILL, INCORPORATED	3,075,418
TECHNOLOGY AND		BORTEC GMBH & CO. KG	3,075,515	CARLSON, MARILYN R.	3,075,407
DEVELOPMENT CO., LTD.	3,028,274	BOS, RICHARD	3,075,690	CARLTON, SOFIA M. R.	3,075,270
BEISSERT, TIM	3,075,549	BOSE, BAUNDAUNA	3,075,268	CARRALL, JUDITH ANNE	3,075,650
BEISSERT, TIM	3,075,696	BOSE, BAUNDAUNA	3,075,270	CARRICK THERAPEUTICS	
BELL, ANDREW	3,075,600	BOSMAN, JORIS KAREL		LIMITED	3,075,461
BELL, JARED	3,075,658	PETER	3,075,364	CARSON, DYLAN	3,075,138
BENARD, QUENTIN ALBAN		BOTRUGNO, SALVATORE	3,075,384	CARUSO, JESSE	3,075,458
GUILLAUME	3,075,234	BOUCHARD, DEBORAH A.	3,075,413	CASELLI, CLAUDIO	3,075,404
BENBENEK, JANE ALICE	3,075,298	BOWLER, FRANK RAY	3,075,629	CASTRO, ALFREDO C.	3,075,062
BENCHAOUIR, RACHID	3,075,246	BOWMAN, BRIAN ROGER	3,075,528	CC3D LLC	3,075,416
BENGTSSON, KRISTIAN	3,075,258	BRANDEIS UNIVERSITY	3,075,532	CEC NORTH STAR ENERGY	
BENTON, KARA	3,075,494	BRAUN, ALEXANDER LOUIS	3,075,682	LTD.	3,075,529
BEQIRAJ, ENALD	3,075,458	BRAUN, PATRICK JOSEPH	3,075,616	CEE, VICTOR J.	3,075,046
BERGER, ROBIN	3,075,515	BRENDEL HOLDING GMBH &		CEGA INNOVATIONS, INC.	3,075,618
BERGHEIM, BJARNE	3,075,654	CO. KG	3,075,349	CENTRE NATIONAL DE LA	
BERGNER, KAI	3,075,589	BRENDEL, WOLFGANG	3,075,349	RECHERCHE	
BERKHOUS, SCOTT K.	3,075,391	BREWSTER, GRAHAM	3,075,476	SCIENTIFIQUE (CNRS)	3,075,656
BERNARDES, GONCALO	3,075,257	BRICKNELL, IAN	3,075,413	CENTRE NATIONAL DE LA	
BERZIN, DAVID	3,075,610	BRINK, CHRISTOPHER		RECHERCHE	
BESTOR, DANIEL R.	3,075,301	MICHAEL	3,074,972	SCIENTIFIQUE	3,075,210
BETAN, NIR	3,075,233	BRITISH AMERICAN		CENTRE NATIONAL DE LA	
BETH ISRAEL DEACONESS		TOBACCO		RECHERCHE	
MEDICAL CENTER, INC.	3,075,475	(INVESTMENTS) LIMITED	3,075,657	SCIENTIFIQUE	3,075,501
BETHANABHOTLA, DILIP	3,075,282	BROCK, JOSEPH ANDREW	3,075,449	CENTRE SCIENTIFIQUE DE	
BETTCHER, ROBERT E.	3,075,674	BROCK, MATTHIAS	3,075,337	MONACO	3,075,246
BI, MING	3,075,676	BROECKER, DAVID	3,075,636	CEREPEUT, INC.	3,075,649
BIEN, DANIEL X.	3,075,181	BROENEN, ANDREW P.	3,075,181	CEVA SANTE ANIMALE	3,075,662
BIFFI, ANDREA	3,075,235	BROPHY, JAMES S.	3,075,623	CEZANNE, JUERGEN	3,075,394
BIGGINS, JOHN BAXTER	3,075,528	BROWN, ROBERT H., JR.	3,075,643	CHA, DONG KYU	3,075,166
BIGOT, ALEXANDRE	3,075,454	BRUNO, MARCO	3,075,220	CHA, KYUNG-ON	3,075,254
BINGHAM, RICHARD	3,075,463	BRYAN, JONATHAN L.	3,075,529	CHANDAR, PREM	3,075,701
BIO-TECHNE CORPORATION	3,075,676	BUCLEZ, PIERRE-OLIVIER	3,075,246	CHANG, MING	3,055,351
BIONTECH RNA		BUDGE, TREVOR DAVID	3,075,416	CHANG, TSE-WEN	3,075,670
PHARMACEUTICALS		BUESCHEL, MICHAEL	3,075,588	CHANGZHOU FUXING	
GMBH	3,075,549	BUHREN, SEBASTIAN	3,075,319	ELECTRICAL APPLIANCE	
BIONTECH RNA		BUONSANTO, DAMIEN	3,075,653	CO., LTD	3,075,317
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BITTNER, CHRISTIAN	3,075,588	BUSSINELLI, FILIPPO	3,075,447	RAYMOND	3,075,054
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