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La Gazette

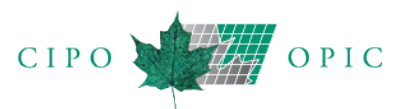
du Bureau des brevets



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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).

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) 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).

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) 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

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

4. Late payment fee

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

Preliminary Examination

5. Handling fee (Rule 57.2(a)) \$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) or visit their Web site (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) ou visiter leur site Web (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

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
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

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.

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

(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

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

Sur cette page :

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

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. 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

Avis

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 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

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

Téléchargez le [formulaire de 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

Notices

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,
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

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
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

Avis

Tel.: 604-666-5000

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

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

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

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

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

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

1.2. Services Courrier recommandé^{MC} et Xpresspost^{MC} 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^{MC} et Xpresspost^{MC} de Postes Canada sont des établissements ou des bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, 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^{MC} et Xpresspost^{MC} 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. 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

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

Notices

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 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:

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, 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)

Avis

(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.

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

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.

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

Notices

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 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

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'OPIIC, 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'OPIIC, appelé [Dépôt en ligne de demandes PCT](#).

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIIC 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 :

- [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](#)

Avis

[Trademarks Opposition Board's online web application:](#)

[des marques de commerce.](#)

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

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](#).

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

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](#).

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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.

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.

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

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

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modifications relatives à la demande.

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

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

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

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

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

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

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

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

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-

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

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

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

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

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

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

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

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

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-

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R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

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.

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. Details Concerning the Electronic Formats Accepted

3. Précisions concernant les formats électroniques acceptés

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 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;

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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.

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

- 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.

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](#)

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- 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 11 po)

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

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](#)

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[Treaty](#)

- [Time period extensions under the Madrid Protocol and the Hague Agreement](#)

[coopération en matière de brevets](#)

- [Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye](#)

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;
- 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

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^{er} 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^{er} juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;
- 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

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(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, 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

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 règlementaires 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 règlementaires 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^{MC}, ou par Xpresspost^{MC} 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 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

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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 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

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 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

Avis

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 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

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^{MC}, par Xpresspost^{MC} ou par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance. Il est toujours 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^{MC}, Mastercard^{MC} ou American Express^{MC} 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

Notices

l'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.

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. Intellectual property acts, rules and regulations

- [Copyright Act](#)
- [Copyright Regulations](#)
- [Industrial Design Act](#)
- [Industrial Design Regulations](#)
- [Integrated Circuit Topography Act](#)
- [Integrated Circuit Topography Regulations](#)
- [Interpretation Act](#)
- [Patent Act](#)
- [Patent Rules](#)
- [Regulations under the PCT](#)
- [Trademarks Act](#)
- [Trademarks Regulations](#)

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of August 27, 2019 contains applications open to public inspection from August 11, 2019 to August 17, 2019.

8. Lois, règles et règlements sur la propriété intellectuelle

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

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 27 août 2019 contient les demandes disponibles au public pour consultation pour la période du 11 août 2019 au 17 août 2019.

Canadian Patents Issued

August 27, 2019

Brevets canadiens délivrés

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[11] **2,464,537**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01)**
[25] EN
[54] **PLAYER TRACKING MODULE FOR A GAMING MACHINE**
[54] **MODULE DE SUIVI DE JOUEUR DESTINE A UNE MACHINE DE JEU**
[72] SCHOBER, HELMUT, AT
[72] HOEDL, PETER, AT
[72] ZECHNER, ROBERT, AT
[73] GTECH GERMANY GMBH, DE
[86] (2464537)
[87] (2464537)
[22] 2004-04-15
[30] US (10/419,057) 2003-04-17

[11] **2,653,349**
[13] C
[51] **Int.Cl. G06F 17/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MODELING INTERACTIONS**
[54] **SYSTEME ET PROCEDE PERMETTANT DE MODELISER DES INTERACTIONS**
[72] FEJES, PETER, CA
[72] SWAMINATHAN, GANESAN, CA
[72] VIECELI, SILVIO, CA
[73] ZYMEWORKS INC., CA
[85] 2008-11-25
[86] 2007-05-10 (PCT/US2007/068707)
[87] (WO2007/140099)
[30] US (11/441,526) 2006-05-26

[11] **2,724,920**
[13] C
[51] **Int.Cl. H04L 12/771 (2013.01) H04L 27/00 (2006.01) H04L 27/34 (2006.01)**
[25] EN
[54] **DYNAMIC ASSIGNMENT OF SIGNALS TO PORTS IN AN ACCESS PLATFORM**
[54] **AFFECTATION DYNAMIQUE DES SIGNAUX A DES PORTS DANS UNE PLATE-FORME D'ACCES**
[72] SALINGER, JORGE, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (2724920)
[87] (2724920)
[22] 2010-12-10
[30] US (12/843,960) 2010-07-27

[11] **2,645,937**
[13] C
[51] **Int.Cl. C12Q 1/56 (2006.01) G01N 33/15 (2006.01) G01N 33/86 (2006.01)**
[25] EN
[54] **THROMBIN AND FIBRINOGEN ASSAY**
[54] **DOSAGE DE LA THROMBINE ET DU FIBRINOGENE**
[72] DE ANGLIS, ASHLEY, US
[72] MEIDLER, ROBERTO, IL
[72] GORMAN, ANNE, US
[72] BAR, LILIANA, IL
[72] NUR, ISRAEL, IL
[73] ETHICON, INC., US
[73] OMRIX BIOPHARMACEUTICALS, INC., US
[85] 2008-10-30
[86] 2008-05-22 (PCT/US2008/064514)
[87] (WO2009/142638)

[11] **2,720,675**
[13] C
[51] **Int.Cl. C12N 15/11 (2006.01)**
[25] EN
[54] **MICROSPHERE-BASED COMPOSITION FOR PREVENTING AND/OR REVERSING NEW-ONSET AUTOIMMUNE DIABETES**
[54] **COMPOSITION A BASE DE MICROSPHERES POUR PREVENIR ET/OU INVERSER UNE NOUVELLE APPARITION DE DIABETE AUTO-IMMUN**
[72] BROWN, LARRY R., US
[72] GIANNOUKAKIS, NICK, US
[72] TRUCCO, MASSIMO, US
[73] BAXTER INTERNATIONAL INC., US
[73] BAXTER HEALTHCARE S.A., CH
[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2010-10-05
[86] 2009-04-20 (PCT/US2009/041167)
[87] (WO2009/129544)
[30] US (61/048,246) 2008-04-28
[30] US (61/046,034) 2008-04-18

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[11] **2,732,773**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C07K 14/415 (2006.01) C12N 5/10 (2006.01) C12N 15/00 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **ISOLATED POLYPEPTIDES AND POLYNUCLEOTIDES USEFUL FOR INCREASING NITROGEN USE EFFICIENCY, ABIOTIC STRESS TOLERANCE, YIELD AND BIOMASS IN PLANTS**

[54] **POLYPEPTIDES ET POLYNUCLEOTIDES ISOLES UTILES POUR AUGMENTER L'EFFICACITE DE L'UTILISATION DE L'AZOTE, LA TOLERANCE AU STRESS ABIOTIQUE, LE RENDEMENT ET LA BIOMASSE DE PLANTES**

[72] VINOCUR, BASIA JUDITH, IL
[72] AYAL, SHARON, IL
[72] DIBER, ALEX, IL
[72] EMMANUEL, EYAL, IL
[72] RONEN, GIL, IL
[72] GANG, MICHAEL, IL
[72] DIMET, DOTAN, IL
[72] KARCHI, HAGAI, IL
[72] HERSCHKOVITZ, YOAV, IL
[73] EVOGENE LTD., IL
[85] 2011-02-01
[86] 2009-08-18 (PCT/IB2009/053633)
[87] (WO2010/020941)
[30] US (61/136,189) 2008-08-18

[11] **2,737,107**
[13] C

[51] **Int.Cl. H04L 12/24 (2006.01) H04L 29/08 (2006.01)**

[25] EN

[54] **TCP CONGESTION CONTROL FOR HETEROGENEOUS NETWORKS**

[54] **COMMANDE DE CONGESTION TCP POUR RESEAUX HETEROGENES**

[72] WANG, JINGYUAN, CN
[72] WEN, JIANGTAO, US
[72] HAN, YUXING, US
[73] CDF KE YUAN, CN
[86] (2737107)
[87] (2737107)
[22] 2011-04-12
[30] US (61/342,434) 2010-04-13

[11] **2,739,197**
[13] C

[51] **Int.Cl. H04L 12/16 (2006.01) H04N 21/482 (2011.01) H04L 12/66 (2006.01)**

[25] EN

[54] **COMMUNICATION FOR ONE WAY DEVICES**

[54] **COMMUNICATION POUR UN DISPOSITIF A UNE SEULE VOIE**

[72] PODER, JAMES, US
[72] GILSON, ROSS, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (2739197)
[87] (2739197)
[22] 2011-05-05
[30] US (12/783,926) 2010-05-20

[11] **2,739,436**
[13] C

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **USE OF RIFAXIMIN FOR TREATING HEPATIC ENCEPHALOPATHY**

[54] **UTILISATION DE LA RIFAXIMINE POUR MAINTENIR LA REMISSION DE L'ENCEPHALOPATHIE HEPATIQUE**

[72] FORBES, WILLIAM, US
[73] SALIX PHARMACEUTICALS, INC., US
[85] 2011-04-01
[86] 2009-10-02 (PCT/US2009/059321)
[87] (WO2010/040020)
[30] US (61/102,349) 2008-10-02

[11] **2,751,477**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) C07K 14/705 (2006.01) C07K 17/08 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTIBODY MOLECULES HAVING SPECIFICITY FOR HUMAN OX40**

[54] **MOLECULES D'ANTICORPS AYANT UNE SPECIFICITE POUR OX40 HUMAIN**

[72] LAWSON, ALASTAIR DAVID GRIFFITHS, GB
[72] NESBITT, ANDREW MALCOLM, GB
[72] POPPLEWELL, ANDREW GEORGE, GB
[72] SHAW, STEVAN GRAHAM, GB
[72] SHPEKTOR, DIANA, GB
[72] ZHANG, YI, GB
[73] UCB BIOPHARMA SPRL, BE
[85] 2011-08-04
[86] 2010-02-17 (PCT/US2010/024377)
[87] (WO2010/096418)
[30] US (61/153,038) 2009-02-17

[11] **2,756,541**
[13] C

[51] **Int.Cl. C12P 19/02 (2006.01)**

[25] EN

[54] **AN IMPROVED PROCESS FOR THE RAPID HYDROLYSIS OF HIGH SOLIDS BIOMASS**

[54] **PROCEDE AMELIORE POUR L'HYDROLYSE RAPIDE D'UNE BIOMASSE A HAUTE TENEUR EN SOLIDES**

[72] COTTI COMETTINI, MARCO, IT
[72] TORRE, PAOLO, IT
[72] CHERCHI, FRANCESCO, IT
[72] RIVA, ALBERTO, IT
[72] FERRERO, SIMONE, IT
[72] OTTONELLO, PIERO, IT
[72] GARBERO, MIRKO, IT
[73] VERSALIS S.P.A., IT
[85] 2011-09-23
[86] 2010-03-31 (PCT/IB2010/051413)
[87] (WO2010/113130)
[30] IT (PCT/IT2009/000124) 2009-03-31
[30] IT (PCT/IT2009/000127) 2009-03-31
[30] IB (PCT/IB2009/055736) 2009-12-14
[30] IB (PCT/IB2009/055737) 2009-12-14

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[11] **2,757,062**
[13] C

[51] **Int.Cl. H01M 4/36 (2006.01) C25B 11/04 (2006.01) H01M 4/04 (2006.01) H01M 4/38 (2006.01) H01M 4/54 (2006.01) H01M 4/62 (2006.01)**

[25] EN

[54] **A CATHODE COMPRISING DOPED SILVER POWDER AND USES OF SAME**

[54] **CATHODE COMPRENANT UNE POUDRE D'ARGENT DOPEE ET SON UTILISATION**

[72] ADAMSON, GEORGE W., US

[72] ZHOU, HONGXIA, US

[73] ZPOWER, LLC, US

[85] 2011-09-28

[86] 2010-03-26 (PCT/US2010/028772)

[87] (WO2010/111567)

[30] US (61/164,216) 2009-03-27

[30] US (61/164,080) 2009-03-27

[11] **2,764,976**
[13] C

[51] **Int.Cl. B65D 55/08 (2006.01) B65D 1/00 (2006.01) B65D 25/20 (2006.01) B65D 43/16 (2006.01)**

[25] EN

[54] **CONTAINER AND LID**

[54] **CONTENANT ET COUVERCLE**

[72] LUBURIC, FRANO, US

[73] ROPAK CORPORATION, US

[86] (2764976)

[87] (2764976)

[22] 2012-01-20

[30] US (13/353,481) 2012-01-19

[11] **2,765,242**
[13] C

[51] **Int.Cl. C12N 15/00 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12P 21/02 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PROTEINS COMPRISING INTRODUCING TOL1 OR TOL2 TRANSPOSONS INTO SUSPENSION CHO CELLS**

[54] **PROCEDE DE PRODUCTION DE PROTEINES COMPRENANT L'INTRODUCTION DE TRANSPOSONS TOL1 OU TOL2 DANS DES CELLULES CHO EN SUSPENSION**

[72] KAWAKAMI, KOICHI, JP

[72] YAMAGUCHI, KEINA, JP

[72] OGAWA, RISA, JP

[72] TSUKAHARA, MASAYOSHI, JP

[73] INTER-UNIVERSITY RESEARCH INSTITUTE CORPORATION RESEARCH ORGANIZATION OF INFORMATION AND SYSTEMS, JP

[73] KYOWA HAKKO KIRIN CO., LTD., JP

[85] 2011-12-09

[86] 2010-06-10 (PCT/JP2010/059881)

[87] (WO2010/143698)

[30] JP (2009-140626) 2009-06-11

[30] US (61/186138) 2009-06-11

[11] **2,767,589**
[13] C

[51] **Int.Cl. A61B 17/068 (2006.01)**

[25] EN

[54] **SURGICAL INSTRUMENT BUTTRESS ATTACHMENT**

[54] **FIXATION DE RENFORT POUR INSTRUMENT CHIRURGICAL**

[72] HODGKINSON, GERALD N., US

[72] CARTER, SALLY L., US

[73] TYCO HEALTHCARE GROUP LP, US

[86] (2767589)

[87] (2767589)

[22] 2012-02-14

[30] US (13/044,623) 2011-03-10

[11] **2,768,018**
[13] C

[51] **Int.Cl. A61K 31/13 (2006.01) A61K 9/20 (2006.01) A61K 9/22 (2006.01) A61K 31/155 (2006.01) A61P 19/00 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL FOR ORAL DELIVERY COMPRISING MGBG AND METHODS OF TREATING DISEASE**

[54] **PRODUIT PHARMACEUTIQUE POUR ADMINISTRATION PAR VOIE ORALE COMPRENANT MGBG ET PROCEDES DE TRAITEMENT DE MALADIE**

[72] MCKEARN, JOHN, US

[72] BLITZER, JEREMY, US

[73] PATHOLOGICA LLC, US

[85] 2012-01-12

[86] 2010-07-16 (PCT/US2010/042253)

[87] (WO2011/009039)

[30] US (61/226,060) 2009-07-16

[30] US (61/290,095) 2009-12-24

[11] **2,770,340**
[13] C

[51] **Int.Cl. A61K 38/22 (2006.01) A61P 19/02 (2006.01)**

[25] EN

[54] **PREVENTIVE AND/OR THERAPEUTIC AND/OR AGGRAVATION SUPPRESSING AGENT FOR HUMAN ARTHRITIS DEFORMANS**

[54] **AGENT PROPHYLACTIQUE ET/OU AGENT THERAPEUTIQUE ET/OU AGENT DE SUPPRESSION D'EXACERBATION POUR ARTHROSE DE GENOU HUMAIN**

[72] ISHIZUYA, TOSHINORI, JP

[72] KURODA, TATSUHIKO, JP

[73] ASAHI KASEI PHARMA CORPORATION, JP

[85] 2012-02-03

[86] 2010-11-05 (PCT/JP2010/069742)

[87] (WO2011/062073)

[30] US (61/262214) 2009-11-18

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[11] **2,770,419**
[13] C

[51] **Int.Cl. G06F 8/65 (2018.01) G06F 21/57 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR UPDATING A SOFTWARE PRODUCT**
[54] **SYSTEME ET PROCEDE D'ACTUALISATION D'UN PRODUIT LOGICIEL**
[72] POWELL, BRIAN, US
[72] VILJOEN, PIETER, US
[73] SYMANTEC CORPORATION, US
[85] 2012-02-06
[86] 2010-08-06 (PCT/US2010/044696)
[87] (WO2011/019601)
[30] US (12/538,622) 2009-08-10

[11] **2,775,529**
[13] C

[51] **Int.Cl. A61N 5/06 (2006.01)**
[25] EN
[54] **HIGH POWERED LIGHT EMITTING DIODE PHOTOBIOLOGY DEVICE**
[54] **DISPOSITIF PHOTOBIOLOGIQUE A DIODES ELECTROLUMINESCENTES HAUTE PUISSANCE**
[72] LUM, MYK WAYNE, US
[72] BECKMAN, FRANCES A., US
[73] LUM, MYK WAYNE, US
[73] BECKMAN, FRANCES A., US
[86] (2775529)
[87] (2775529)
[22] 2012-04-27

[11] **2,780,169**
[13] C

[51] **Int.Cl. G01N 21/25 (2006.01) B03D 1/02 (2006.01) B03D 1/08 (2006.01) G01N 33/24 (2006.01) G01N 33/26 (2006.01)**
[25] EN
[54] **HYPERSPECTRAL IMAGING FOR ORE FROTH PROCESSING**
[54] **IMAGERIE HYPERSPECTRALE POUR TRAITEMENT DU MINERAI**
[72] RIVARD, BENOIT, CA
[72] LIPSETT, MICHAEL GEORGE, CA
[72] FENG, JILU, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[86] (2780169)
[87] (2780169)
[22] 2012-06-08

[11] **2,772,458**
[13] C

[51] **Int.Cl. C25D 3/50 (2006.01) C25D 5/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PREPARATION OF HIGHLY POROUS AND PREFERENTIALLY-ORIENTED {100} PLATINUM NANOWIRES AND THIN FILMS**
[54] **METHODE ET SYSTEME POUR LA PREPARATION DE COUCHES MINCES ET DE NANOFILS EN PLATINE ORIENTE PREFERENTIELLEMENT (100) ET HAUTEMENT POREUX**
[72] BERTIN, ERWAN, CA
[72] GARBARINO, SEBASTIEN, CA
[72] GUAY, DANIEL, CA
[72] MARTIN, MANUEL, CA
[72] PONROUCH, ALEXANDRE, FR
[73] INRS, CA
[86] (2772458)
[87] (2772458)
[22] 2012-03-15
[30] US (61/452,837) 2011-03-15

[11] **2,776,853**
[13] C

[51] **Int.Cl. E01H 1/08 (2006.01) B08B 5/04 (2006.01) B60P 3/00 (2006.01) E03F 7/10 (2006.01)**
[25] EN
[54] **DEBRIS COLLECTING SYSTEM**
[54] **SYSTEME CAPTEUR DE DEBRIS**
[72] SCHMIDT, RONALD L., JR., US
[73] FEDERAL SIGNAL CORPORATION, US
[86] (2776853)
[87] (2776853)
[22] 2012-05-03
[30] US (13/112.663) 2011-05-20

[11] **2,782,942**
[13] C

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[25] EN
[54] **METHOD FOR INDUCING IMMUNE TOLERANCE USING POLYMER-MODIFIED ANTIGENIC LEUKOCYTES**
[54] **METHODE PERMETTANT DE CONFERER UNE TOLERANCE IMMUNITAIRE AU MOYEN DE LEUCOCYTES ANTIGENIQUES MODIFIES AUX POLYMERES**
[72] SCOTT, MARK D., CA
[72] WANG, DUNCHENG, CA
[72] TOYOFUKU, WENDY M., CA
[73] CANADIAN BLOOD SERVICES, CA
[86] (2782942)
[87] (2782942)
[22] 2012-07-12

[11] **2,779,499**
[13] C

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[25] FR
[54] **NO CONTACT INTEGRATED CIRCUIT WITH NFC AND UHF OPERATING MODES**
[54] **CIRCUIT INTEGRE SANS CONTACT PRESENTANT DES MODES DE FONCTIONNEMENT NFC ET UHF**
[72] CHARRAT, BRUNO, FR
[72] CORDIER, NICOLAS, FR
[73] INSIDE SECURE, FR
[86] (2779499)
[87] (2779499)
[22] 2012-06-07
[30] FR (11 55 300) 2011-06-17

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[11] **2,784,815**
[13] C

[51] **Int.Cl. H01H 1/54 (2006.01)**
[25] EN
[54] **POWER CONTACT DEVICE WITH ELECTRODYNAMIC COMPENSATION IN THE PRESENCE OF HIGH CURRENTS.**
[54] **DISPOSITIF DE CONTACT ELECTRIQUE AVEC COMPENSATION ELECTRODYNAMIQUE EN PRESENCE DE COURANTS ELEVES.**
[72] LE YOUDEC, GERALD, FR
[73] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
[86] (2784815)
[87] (2784815)
[22] 2012-08-03
[30] FR (11 02 610) 2011-08-26

[11] **2,787,844**
[13] C

[51] **Int.Cl. A61K 31/5025 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **DIHYDROPYRIDOPHTHALAZINONE INHIBITORS OF POLY(ADP-RIBOSE) POLYMERASE (PARP) FOR USE IN TREATMENT OF DISEASES ASSOCIATED WITH A PTEN DEFICIENCY**
[54] **INHIBITEURS A BASE DE DIHYDROPYRIDOPHTHALAZINONE DE LA POLY(ADP-RIBOSE) POLYMERASE (PARP) UTILISABLES DANS LE CADRE DU TRAITEMENT DE MALADIES ASSOCIEES A UN DEFICIT EN PTEN**
[72] CHU, DANIEL, US
[72] WANG, BING, US
[72] FENG, YING, US
[72] SHEN, YUQIAO, US
[72] POST, LEONARD EDWIN, US
[73] MEDIVATION TECHNOLOGIES LLC, US
[85] 2012-07-20
[86] 2011-02-03 (PCT/US2011/023532)
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[30] US (61/301,174) 2010-02-03

[11] **2,787,918**
[13] C

[51] **Int.Cl. H01M 4/04 (2006.01) H01M 4/136 (2010.01) H01M 4/1397 (2010.01) H01M 4/587 (2010.01) H01M 10/0525 (2010.01) H01M 4/58 (2010.01) H01M 4/62 (2006.01) H01M 4/80 (2006.01)**
[25] EN
[54] **RECHARGEABLE ELECTROCHEMICAL BATTERY CELL**
[54] **CELLULE ELECTROCHIMIQUE RECHARGEABLE**
[72] ZINCK, LAURENT, FR
[72] PSZOLLA, CHRISTIAN, DE
[72] RIPP, CHRISTIANE, DE
[72] BORCK, MARKUS, DE
[72] WOLFFAHRT, CLAUDIA, DE
[73] INNOLITH ASSETS AG, CH
[85] 2012-07-24
[86] 2011-02-04 (PCT/EP2011/000507)
[87] (WO2011/098233)
[30] EP (10001458.8) 2010-02-12

[11] **2,788,959**
[13] C

[51] **Int.Cl. H02G 15/013 (2006.01) H02G 15/04 (2006.01)**
[25] EN
[54] **CABLE GLAND ASSEMBLY FOR TERMINATING CABLE**
[54] **ENSEMBLE DE GOUPILLE DE CABLE POUR TERMINAISON DE CABLE**
[72] ALDRICH, ALVAH, US
[72] ORLOV, EVGENY, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2788959)
[87] (2788959)
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[30] US (61/639,409) 2012-04-27

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[25] EN
[54] **OLIGOTHIOPHENE DERIVATE AS MOLECULAR PROBES**
[54] **DERIVES D'OLIGOTHIOPHENE UTILISES COMME SONDAS MOLECULAIRES**
[72] HERMANSSON, OLA, SE
[72] KONRADSSON, PETER, SE
[72] ASLUND, ANDREAS, SE
[72] ILKHANIZADEH, SHIRIN, SE
[72] SIMON, ROZALYN, SE
[72] NILSSON, PETER, SE
[73] CELLUMINOVA AB, SE
[85] 2012-08-03
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[87] (WO2011/102789)
[30] US (61/304,820) 2010-02-16
[30] SE (1050150-0) 2010-02-16

[11] **2,790,403**
[13] C

[51] **Int.Cl. A61K 38/18 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **PLATELET-DERIVED GROWTH FACTOR COMPOSITIONS AND METHODS FOR THE TREATMENT OF TENDINOPATHIES**
[54] **COMPOSITIONS DE FACTEUR DE CROISSANCE DERIVE DES PLAQUETTES ET PROCEDES POUR LE TRAITEMENT DE TENDINOPATHIES**
[72] KESTLER, HANS K., US
[72] RAGER-AGUIAR, DEAN JAMES, US
[72] SHAH, VIVEK, US
[73] BIOMIMETIC THERAPEUTICS, LLC, US
[85] 2012-08-17
[86] 2011-02-22 (PCT/US2011/025770)
[87] (WO2011/103598)
[30] US (61/306,938) 2010-02-22
[30] US (61/311,284) 2010-03-05
[30] US (61/428,809) 2010-12-30
[30] US (61/429,428) 2011-01-03

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[51] **Int.Cl. C07K 17/08 (2006.01) A61K 38/42 (2006.01) C07K 14/805 (2006.01) G01N 33/72 (2006.01) C08G 65/334 (2006.01)**

[25] EN

[54] **METHODS FOR PREPARING PEG-HEMOGLOBIN CONJUGATES USING REDUCED REACTANT RATIOS**

[54] **PROCEDES DE PREPARATION DE CONJUGUES PEG-HEMOGLOBINE UTILISANT DES RAPPORTS REDUITS DE REACTIF**

[72] MALAVALLI, ASHOK, US
[72] VANDEGRIFF, KIM D., US
[73] SCHINDLER, WILLIAM, US
[85] 2012-08-23
[86] 2011-02-23 (PCT/US2011/025888)
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[30] US (61/308,238) 2010-02-25

[11] **2,791,396**
[13] C

[51] **Int.Cl. A61K 39/145 (2006.01)**

[25] EN

[54] **METHOD FOR PROTECTING AGAINST DISEASE CAUSED BY SECONDARY PATHOGENS**

[54] **PROCEDE DE PROTECTION CONTRE UNE MALADIE PROVOQUEE PAR DES AGENTS PATHOGENES SECONDAIRES**

[72] LAKSHMANAN, NALLAKANNU P., US
[72] DESHPANDE, MURALIDHAR S., US
[72] JAYAPPA, HUCHAPPA GOWDA, US
[72] WASMOEN, TERRI LEE, US
[73] INTERVET INTERNATIONAL B.V., NL
[85] 2012-08-24
[86] 2011-03-08 (PCT/US2011/027565)
[87] (WO2011/112593)
[30] US (61/312,380) 2010-03-10

[11] **2,795,257**
[13] C

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 31/137 (2006.01) A61K 31/4178 (2006.01) A61K 31/439 (2006.01) A61P 13/10 (2006.01)**

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[54] **PHARMACEUTICAL FORMULATIONS**

[54] **FORMULATIONS PHARMACEUTIQUES**

[72] PABORJI, MEHDI, US
[72] TUOHY, ROBERT V., III, US
[72] FREED, PETER R.P., US
[72] FLUGEL, ROGER S., US
[73] THERAVIDA, INC., US
[85] 2012-10-01
[86] 2011-04-01 (PCT/US2011/031020)
[87] (WO2011/123836)
[30] US (61/320,202) 2010-04-01

[11] **2,795,282**
[13] C

[51] **Int.Cl. A61L 15/58 (2006.01) A61L 24/06 (2006.01) A61L 26/00 (2006.01)**

[25] EN

[54] **ACRYLATE ADHESIVE FOR USE ON THE SKIN**

[54] **ADHESIF A BASE D'ACRYLATE POUR APPLICATIONS CUTANEEES**

[72] KLUGE, THOMAS, DE
[72] NISSING, PETER, DE
[72] PETRICK, PATRICIA, DE
[72] SCHUETTE, MARIO, DE
[73] LOHMANN GMBH & CO. KG, DE
[85] 2012-10-02
[86] 2011-03-29 (PCT/DE2011/000344)
[87] (WO2011/120507)
[30] DE (10 2010 013 799.5) 2010-04-03

[11] **2,795,610**
[13] C

[51] **Int.Cl. B41M 3/14 (2006.01) B42D 25/29 (2014.01) B42D 25/355 (2014.01) B42D 25/41 (2014.01) B41M 5/26 (2006.01)**

[25] EN

[54] **SECURITY ARTICLES COMPRISING SECURITY FEATURES AND METHODS OF MANUFACTURE THEREOF**

[54] **ARTICLES DE SECURITE COMPRENANT DES ELEMENTS DE SECURITE ET PROCEDES DE FABRICATION ASSOCIES**

[72] HARRISON, ROBERT WILLIAM, GB
[72] SUGDON, MATTHEW CHARLES, GB
[73] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2012-10-05
[86] 2011-04-07 (PCT/GB2011/050692)
[87] (WO2011/124920)
[30] GB (1005895.6) 2010-04-08

[11] **2,795,798**
[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 34/10 (2006.01) E21B 34/14 (2006.01)**

[25] EN

[54] **HIGH PRESSURE AND HIGH TEMPERATURE BALL SEAT**

[54] **SIEGE DE ROTULE A HAUTE PRESSION ET HAUTE TEMPERATURE**

[72] SHKURTI, PIRO, US
[72] WOLF, JOHN C., US
[73] SMITH INTERNATIONAL, INC., US
[85] 2012-10-05
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[87] (WO2011/133810)
[30] US (61/327,509) 2010-04-23

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[11] **2,796,033**
[13] C

[51] **Int.Cl. B64D 31/00 (2006.01) F01D 21/14 (2006.01) F02C 9/00 (2006.01)**
[25] FR
[54] **FULL AUTHORITY DIGITAL ENGINE CONTROL SYSTEM FOR AIRCRAFT**
[54] **SYSTEME DE REGULATION NUMERIQUE A PLEINE AUTORITE POUR MOTEUR D'AERONEF**
[72] GENEVRIER, GILLES, FR
[72] BRESSON, CLAUDE, FR
[73] THALES, FR
[86] (2796033)
[87] (2796033)
[22] 2012-11-07
[30] FR (11 03 400) 2011-11-08

[11] **2,796,040**
[13] C

[51] **Int.Cl. F23G 7/00 (2006.01) C01B 3/32 (2006.01) F23G 5/027 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR HEATING USING BIOMASS**
[54] **METHODE ET SYSTEME DE CHAUFFAGE FONDES SUR LA BIOMASSE**
[72] LAKHMIRI, MOHAMMED, CA
[73] LAKSON INTERNATIONAL DEVELOPMENT INC., CA
[86] (2796040)
[87] (2796040)
[22] 2012-11-08
[30] US (61/557,067) 2011-11-08
[30] US (61/623,126) 2012-04-12

[11] **2,796,182**
[13] C

[51] **Int.Cl. A01N 57/20 (2006.01) A01N 43/54 (2006.01) A01N 43/84 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITION**
[54] **COMPOSITION HERBICIDE**
[72] IKEDA, HAJIME, JP
[73] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[86] (2796182)
[87] (2796182)
[22] 2012-11-20
[30] JP (2011-264373) 2011-12-02

[11] **2,796,376**
[13] C

[51] **Int.Cl. H01H 31/28 (2006.01)**
[25] EN
[54] **ELECTRIC POWER SWITCH**
[54] **COMMUTATEUR DE COURANT ELECTRIQUE**
[72] ZHU, XIN G, US
[72] FANTA, THOMAS, US
[73] S & C ELECTRIC CO., US
[85] 2012-10-12
[86] 2011-04-18 (PCT/US2011/032921)
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[30] US (61/325,360) 2010-04-18

[11] **2,796,439**
[13] C

[51] **Int.Cl. G21C 1/10 (2006.01) G21C 5/12 (2006.01) G21C 13/04 (2006.01) G21C 15/02 (2006.01) G21C 15/20 (2006.01) G21C 15/28 (2006.01)**
[25] EN
[54] **PRESSURE-TUBE REACTOR WITH COOLANT PLENUM**
[54] **REACTEUR A TUBES DE FORCE A PLENUM DE CALOPORTEUR**
[72] DIAMOND, WILLIAM T., CA
[72] YETISIR, METIN, CA
[72] LEUNG, LAURENCE, CA
[72] DUFFEY, ROMNEY, CA
[73] ATOMIC ENERGY OF CANADA LIMITED/ENERGIE ATOMIQUE DU CANADA LIMITEE, CA
[85] 2012-10-15
[86] 2011-02-14 (PCT/CA2011/000165)
[87] (WO2011/130821)
[30] US (61/327,472) 2010-04-23

[11] **2,796,440**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) C12N 15/86 (2006.01) C07H 21/02 (2006.01) C12N 15/12 (2006.01)**
[25] EN
[54] **MODULATION OF EXON RECOGNITION IN PRE-MRNA BY INTERFERING WITH THE SECONDARY RNA STRUCTURE**
[54] **MODULATION DE LA RECONNAISSANCE D'EXONS DANS LE PRE-ARNM PAR INTERFERENCE AVEC LA STRUCTURE D'ARN SECONDAIRE**
[72] VAN OMMEN, GARRIT-JAN BOUDEWIJN, NL
[72] VAN DEUTEKOM, JUDITH CHRISTINA THEODORA, NL
[72] DEN DUNNEN, JOHANNES THEODORUS, NL
[72] AARTSMA-RUS, ANNEMIEKE, NL
[73] ACADEMISCH ZIEKENHUIS LEIDEN, NL
[86] (2796440)
[87] (2796440)
[22] 2003-03-21
[62] 2,524,255

[11] **2,796,489**
[13] C

[51] **Int.Cl. G01J 3/443 (2006.01) G01N 21/64 (2006.01) G01N 33/22 (2006.01)**
[25] EN
[54] **MAN-PORTABLE DEVICE FOR DETECTING HAZARDOUS MATERIAL**
[54] **DISPOSITIF PORTABLE A DOS D'HOMME POUR DETECTER LES MATIERES DANGEREUSES**
[72] MATHIEU, PIERRE, CA
[72] LAHAIE, PIERRE, CA
[72] SIMARD, JEAN-ROBERT, CA
[72] BUTEAU, SYLVIE, CA
[72] NADEAU, DENIS, CA
[73] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE, CA
[86] (2796489)
[87] (2796489)
[22] 2012-11-22

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[11] **2,796,573**
[13] C

[51] **Int.Cl. H02S 40/22 (2014.01) H02S 10/40 (2014.01) H02S 20/00 (2014.01) B64B 1/58 (2006.01)**

[25] EN

[54] **A BALLOON COMPRISING PHOTOVOLTAIC MEANS AND A SOLAR CONCENTRATION DEVICE**

[54] **UN BALLON COMPORTANT DES DISPOSITIFS PHOTOVOLTAIQUES ET UN DISPOSITIF DE CONCENTRATION DU RAYONNEMENT SOLAIRE**

[72] CHESSEL, JEAN-PHILIPPE, FR

[72] PROST, JEAN-PIERRE, FR

[73] THALES, FR

[86] (2796573)

[87] (2796573)

[22] 2012-11-21

[30] FR (1103552) 2011-11-22

[11] **2,797,316**
[13] C

[51] **Int.Cl. E04F 21/06 (2006.01) F16L 55/00 (2006.01) F16L 59/00 (2006.01) H05F 3/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DISSIPATING AN ELECTRIC CHARGE WHILE INSULATING A STRUCTURE**

[54] **SYSTEMES ET PROCEDES POUR DISSIPER UNE CHARGE ELECTRIQUE TOUT EN ISOLANT UNE STRUCTURE**

[72] FELLINGER, THOMAS JOHN, US

[73] JOHNS MANVILLE, US

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[22] 2012-11-30

[30] US (13/309,649) 2011-12-02

[11] **2,797,519**
[13] C

[51] **Int.Cl. G01N 33/38 (2006.01)**

[25] EN

[54] **TRACERS FOR DETECTING THE PRESENCE OF SOLID ADMIXTURES**

[54] **TRACEURS POUR DETECTER LA PRESENCE D'ADJUVANTS SOLIDES**

[72] WALLOCH, CRAIG T., US

[72] LIGHT, THEODORE G., US

[72] BROWN, MARSHALL L., US

[72] OESTERLE, MATTHEW J., US

[73] ACM CHEMISTRIES, INC., US

[86] (2797519)

[87] (2797519)

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[30] US (61/565,341) 2011-11-30

[30] US (13/687,328) 2012-11-28

[11] **2,797,524**
[13] C

[51] **Int.Cl. H01M 8/04029 (2016.01) H01M 8/04701 (2016.01) H01M 8/2484 (2016.01)**

[25] FR

[54] **FUEL CELL**

[54] **PILE A COMBUSTIBLE**

[72] CERCEAU, ARNAUD, FR

[72] JANNIN, NICOLAS, FR

[72] MARTEAU, JULIEN, FR

[73] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[86] (2797524)

[87] (2797524)

[22] 2012-11-23

[30] FR (12 50 031) 2012-01-03

[11] **2,797,620**
[13] C

[51] **Int.Cl. C08F 4/6592 (2006.01) C08F 2/34 (2006.01) C08F 4/02 (2006.01) C08F 210/16 (2006.01)**

[25] EN

[54] **CONTROLLING RESIN PROPERTIES IN A GAS PHASE POLYMERIZATION PROCESS**

[54] **CONTROLE DES PROPRIETES DE LA RESINE DANS UN PROCEDE DE POLYMERISATION EN PHASE GAZEUSE**

[72] KER, VICTORIA, CA

[72] JIANG, YAN, CA

[72] GUILLEN-CASTELLANOS, SERGIO ALEJANDRO, CA

[73] NOVA CHEMICALS CORPORATION, CA

[86] (2797620)

[87] (2797620)

[22] 2012-12-03

[11] **2,798,470**
[13] C

[51] **Int.Cl. A61M 39/26 (2006.01)**

[25] EN

[54] **MEDICAL CONNECTOR WITH CLOSEABLE LUER CONNECTOR**

[54] **RACCORD MEDICAL EQUIPE D'UN RACCORD LUER REFERMABLE**

[72] FANGROW, THOMAS F., JR., US

[72] HUBRECHT, BRUCE, US

[73] ICU MEDICAL, INC., US

[85] 2012-11-02

[86] 2011-05-02 (PCT/US2011/034854)

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[30] US (61/332,103) 2010-05-06

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[13] C

[51] **Int.Cl. C08L 101/02 (2006.01) A61K 31/66 (2006.01) A61K 31/74 (2006.01) A61L 24/04 (2006.01) A61L 27/44 (2006.01) C08K 3/32 (2006.01) C08K 5/521 (2006.01)**

[25] EN

[54] **ORGANOPHOSPHOROUS, MULTIVALENT METAL COMPOUNDS, & POLYMER ADHESIVE INTERPENETRATING NETWORK COMPOSITIONS & METHODS**

[54] **COMPOSES METALLIQUES MULTIVALENTS ORGANOPHOSPHORES ET COMPOSITIONS DE RESEAU INTERPENETRANT D'ADHESIF POLYMERE ET PROCEDES**

[72] GARIGAPATI, VENKAT R., US
[72] HESS, BRIAN J., US
[72] KIMSEY, CASSANDRA L., US
[72] MURPHY, MATTHEW E., IE
[73] HOWMEDICA OSTEONICS CORP., US
[85] 2012-11-06
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[30] US (61/333,478) 2010-05-11

[11] **2,798,711**
[13] C

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

[25] EN

[54] **STENTLESS SUPPORT STRUCTURE**

[54] **STRUCTURE DE SOUTIEN NON ETAYEE**

[72] GAINOR, JOHN, US
[72] THILL, GARY A., US
[72] WILSON, ROBERT FOSTER, US
[72] BANICK, CHRISTOPHER M., US
[73] HLT, INC., US
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[86] 2011-05-10 (PCT/US2011/035983)
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[30] US (61/333,200) 2010-05-10

[11] **2,803,479**
[13] C

[51] **Int.Cl. B63B 35/44 (2006.01) B63B 1/02 (2006.01)**

[25] EN

[54] **SEMI-SUBMERSIBLE VESSEL AND OPERATING METHOD**

[54] **NAVIRE SEMI-SUBMERSIBLE ET PROCEDE DE FONCTIONNEMENT**

[72] ROODENBURG, JOOP, NL
[72] BRINKMAN, MARC LOUIS, NL
[72] BEREZNITSKI, ALEXEI, NL
[73] ITREC B.V., NL
[85] 2012-12-20
[86] 2011-07-07 (PCT/NL2011/050494)
[87] (WO2012/005587)
[30] NL (2005058) 2010-07-08
[30] NL (2005897) 2010-12-22
[30] NL (2006095) 2011-01-28

[11] **2,804,223**
[13] C

[51] **Int.Cl. A61B 17/16 (2006.01) A61B 17/70 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **VERTEBRAL FACET JOINT DRILL AND METHOD OF USE**

[54] **FRAISE POUR FACETTE VERTEBRALE ET SON PROCEDE D'UTILISATION**

[72] BLAIN, JASON, US
[72] KOVACH, ERIC, US
[73] SPINAL ELEMENTS, INC., US
[85] 2012-12-31
[86] 2011-08-11 (PCT/US2011/047432)
[87] (WO2012/024162)
[30] US (12/859,009) 2010-08-18

[11] **2,804,965**
[13] C

[51] **Int.Cl. C02F 3/32 (2006.01) A01K 63/04 (2006.01) C02F 1/24 (2006.01) C02F 3/00 (2006.01) C02F 3/02 (2006.01)**

[25] FR

[54] **METHOD FOR RECOVERING INERT OR LIVING MICROPARTICLES AND USE AND INSTALLATION OF SAME**

[54] **PROCEDE DE RECUPERATION DE MICROPARTICULES INERTES OU VIVANTES, SON UTILISATION ET SON INSTALLATION**

[72] CHAMPAGNE, JEAN-YVES, FR
[72] RENE, FRANCOIS, FR
[73] INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER IFRIMER, FR
[73] INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON, FR
[85] 2013-01-09
[86] 2010-11-09 (PCT/FR2010/052401)
[87] (WO2011/055101)
[30] FR (09/57898) 2009-11-09

[11] **2,806,096**
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[25] EN

[54] **MOLD HALVES WITH METAL-MATRIX COMPOSITE AT FEATURE AREAS**

[54] **DEMI-MOULES CONTENANT UN COMPOSITE A MATRICE METALLIQUE AU NIVEAU DE ZONES PARTICULIERES**

[72] WANG, SHAODONG, CA
[72] LI, YANGSHENG, CA
[72] PAGET, TONY, CA
[72] XUE, LIJUE, CA
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[73] GARRTECH INC., CA
[85] 2013-01-21
[86] 2011-07-21 (PCT/CA2011/000838)
[87] (WO2012/009797)
[30] US (61/366,740) 2010-07-22

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[25] EN
[54] **METHOD FOR IN VIVO EXPANSION OF T REGULATORY CELLS**
[54] **METHODE DE PROLIFERATION IN VIVO DE CELLULES T REGULATRICES**
[72] PODACK, ECKHARD R., US
[72] SCHREIBER, TAYLOR, US
[72] WOLF, DIETLINDE-MARIA, US
[73] UNIVERSITY OF MIAMI, US
[85] 2013-01-28
[86] 2010-08-03 (PCT/US2010/044218)
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[30] US (61/273,299) 2009-08-03

[11] **2,808,015**
[13] C
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **BREWING DEVICE FOR PREPARING A FOOD PRODUCT**
[54] **DISPOSITIF D'INFUSION PERMETTANT DE PREPARER UN PRODUIT ALIMENTAIRE**
[72] FIN, GIUSEPPE, NL
[72] FAVERO, ANDREA, NL
[72] BERTO, GIOVANNI, NL
[73] KONINKLIJKE PHILIPS ELECTRONICS N.V., NL
[85] 2013-02-11
[86] 2011-07-22 (PCT/IB2011/053272)
[87] (WO2012/020343)
[30] IT (FI2010A000178) 2010-08-13
[30] EP (10194741.4) 2010-12-13

[11] **2,809,379**
[13] C
[51] **Int.Cl. B62D 33/073 (2006.01) B62D 33/06 (2006.01) B62D 33/063 (2006.01)**
[25] EN
[54] **ROLL-OUT CAB FOR OFF-ROAD EQUIPMENT**
[54] **CABINE ROULANTE POUR ENGIN TOUT TERRAIN**
[72] KOSS, MICHAEL J., US
[72] RIHA, GARY D., US
[73] BARKO SPECIALTY EQUIPMENT, LLC, US
[85] 2013-02-25
[86] 2011-08-22 (PCT/US2011/048609)
[87] (WO2012/030572)
[30] US (12/870,894) 2010-08-30

[11] **2,810,384**
[13] C
[51] **Int.Cl. A01N 53/04 (2006.01) A01N 25/02 (2006.01) A01N 25/30 (2006.01) A01N 43/90 (2006.01) A01P 5/00 (2006.01) A01P 7/00 (2006.01)**
[25] EN
[54] **COMPOSITION CONTAINING A PYRIPYROPENE INSECTICIDE AND AN ADJUVANT**
[54] **COMPOSITION CONTENANT UN INSECTICIDE A BASE DE PYRIPYROPENE ET UN ADJUVANT**
[72] XU, WEN, US
[72] NEESE, PAUL, US
[72] FLETCHER, WILLIAM MAURICE, US
[72] ANSPAUGH, DOUGLAS D., US
[72] SAXELL, HEIDI EMILIA, FI
[72] DIELEMAN, CEDRIC, FR
[72] WEISHAAR, WALTER, DE
[72] KIERKUS, PAUL CH., US
[72] BENTON, KARA, US
[72] LEVY, TATJANA, DE
[72] BERGHAUS, RAINER, DE
[73] BASF SE, DE
[85] 2013-02-22
[86] 2011-09-13 (PCT/EP2011/065855)
[87] (WO2012/035015)
[30] EP (10176596.4) 2010-09-14
[30] US (61/382,507) 2010-09-14
[30] EP (10176625.1) 2010-09-14
[30] US (61/382,518) 2010-09-14
[30] US (61/426,537) 2010-12-23
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[11] **2,810,387**
[13] C
[51] **Int.Cl. A61F 2/16 (2006.01) A61F 9/00 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **ADVANCED PUSHROD AND PUSHROD ASSEMBLY FEATURES**
[54] **BIELLE DE POUSSEE PERFECTIONNEE ET CARACTERISTIQUES D'ENSEMBLE BIELLE DE POUSSEE**
[72] ANDERSON, STEVEN R., US
[72] GAYLORD, DAVID W., US
[72] HELMY, AHMED, US
[72] SPRINGER, KEVIN R., US
[73] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2013-02-22
[86] 2011-08-24 (PCT/US2011/049028)
[87] (WO2012/027516)
[30] US (61/376,661) 2010-08-24
[30] US (61/467,584) 2011-03-25
[30] US (61/500,564) 2011-06-23

[11] **2,811,222**
[13] C
[51] **Int.Cl. H04N 5/272 (2006.01) H04N 9/75 (2006.01)**
[25] EN
[54] **METHOD FOR DIFFERENTIATING BETWEEN BACKGROUND AND FOREGROUND OF SCENERY AND ALSO METHOD FOR REPLACING A BACKGROUND IN IMAGES OF A SCENERY**
[54] **PROCEDE DE DISTINCTION ENTRE L'ARRIERE-PLAN ET LE PREMIER PLAN D'UNE SCENE ET PROCEDE DE REMPLACEMENT D'UN ARRIERE-PLAN DANS LES IMAGES D'UNE SCENE**
[72] VONOLFEN, WOLFGANG, DE
[72] WOLLSIEFEN, RAINER, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2013-03-13
[86] 2011-08-16 (PCT/EP2011/004114)
[87] (WO2012/038009)
[30] DE (10 2010 046 025.7) 2010-09-20

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[11] **2,811,472**
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[25] EN

[54] **ANTIBACTERIAL PHAGE, PHAGE PEPTIDES AND METHODS OF USE THEREOF**

[54] **PHAGE ANTIBACTERIEN, PEPTIDES PHAGIQUES ET LEURS PROCÉDES D'UTILISATION**

[72] DA COSTA GARCIA, MIGUEL ANGELO, PT

[72] SOUSA DE SAO JOSE, CARLOS JORGE, PT

[72] RODRIGUES LEANDRO, CLARA ISABEL, PT

[72] RODRIGUES PARDAL DIAS ANTUNES MARCAL DA SILVA, FILIPA MARIA, PT

[72] MARTINS BARBOSA, ANA RAQUEL, PT

[73] TECNIFAR-INDUSTRIA TECNICA FARMACEUTICA, S.A., PT

[73] TECHNOPHAGE, INVESTIGACAO E DESENVOLVIMENTO EM BIOTECNOLOGIA, SA, PT

[85] 2013-03-15

[86] 2011-09-19 (PCT/PT2011/000031)

[87] (WO2012/036580)

[30] US (61/384,015) 2010-09-17

[11] **2,811,533**
[13] C

[51] **Int.Cl. B01D 71/38 (2006.01) B01D 61/36 (2006.01)**

[25] EN

[54] **MEMBRANE HAVING A PORE-FREE SEPARATING LAYER AND USE AND METHOD OF MANUFACTURING A MEMBRANE**

[54] **MEMBRANE AYANT UNE COUCHE DE SEPARATION EXEMPTÉ DE PORES AINSI QU'UTILISATION ET PROCÉDE DE FABRICATION D'UNE MEMBRANE**

[72] FRANIA, MICHAEL, DE

[72] HUEBNER, ANDREAS, DE

[72] MAUS, EVA, CH

[73] DELTAMEM AG, CH

[85] 2013-03-18

[86] 2011-07-06 (PCT/EP2011/061405)

[87] (WO2012/038110)

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[11] **2,813,850**
[13] C

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[25] EN

[54] **SMART TRANSFORMER**

[54] **TRANSFORMATEUR INTELLIGENT**

[72] TORRE, WILLIAM VINCENT, US

[72] MYERS, AMANDA LOUISE, US

[72] COLBURN, MICHAEL JAMES, US

[73] SAN DIEGO GAS & ELECTRIC COMPANY, US

[85] 2013-04-05

[86] 2011-09-13 (PCT/US2011/051451)

[87] (WO2012/047460)

[30] US (12/899,412) 2010-10-06

[11] **2,814,622**
[13] C

[51] **Int.Cl. B64D 11/00 (2006.01)**

[25] EN

[54] **AIRCRAFT INTERIOR CONFIGURATION**

[54] **CONFIGURATION D'INTERIEUR D'AVION**

[72] MALEK, BRUCE, CA

[72] GAGNON-SEGUIN, LOUIS JOSEPH, CA

[72] MIRON, BRUNO, CA

[72] ERHEL, PHILIPPE ANDRE EUGENE, CA

[72] FAGAN, TIM MICHAEL, CA

[73] BOMBARDIER INC., CA

[85] 2013-04-12

[86] 2010-10-15 (PCT/US2010/052846)

[87] (WO2012/050587)

[11] **2,814,819**
[13] C

[51] **Int.Cl. A61M 39/22 (2006.01) A61B 1/00 (2006.01) A61B 1/015 (2006.01)**

[25] EN

[54] **COMBINED IRRIGATION AND RINSING TUBE SET**

[54] **JEU DE TUBES DE RINCAGE ET D'IRRIGATION COMBINES**

[72] BENDELE, TRAVIS HENRY, US

[72] ADAMS, CHRISTOPHER STEVEN, US

[72] GRUDO, DINA, US

[72] BYRNE, DON, US

[72] SMITH, LEON RUSS, US

[73] MEDIVATORS INC., US

[85] 2013-04-15

[86] 2011-10-13 (PCT/US2011/056176)

[87] (WO2012/051432)

[30] US (61/393,238) 2010-10-14

[30] US (13/164,766) 2011-06-20

[30] US (PCT/US2011/041133) 2011-06-20

[11] **2,817,080**
[13] C

[51] **Int.Cl. A47K 5/12 (2006.01)**

[25] EN

[54] **HYGIENE COMPLIANCE MODULE**

[54] **MODULE DE RESPECT DE L'HYGIENE**

[72] WEGELIN, JACKSON, US

[72] ARCHER, MATTHEW, US

[73] GOJO INDUSTRIES, INC., US

[85] 2013-05-06

[86] 2011-10-27 (PCT/US2011/058059)

[87] (WO2012/064515)

[30] US (12/941,287) 2010-11-08

[11] **2,818,836**
[13] C

[51] **Int.Cl. B27K 3/15 (2006.01) D21H 17/14 (2006.01) D21H 17/15 (2006.01) D21H 17/64 (2006.01) D21H 17/65 (2006.01) D21H 21/34 (2006.01) D21H 21/36 (2006.01)**

[25] EN

[54] **ENVIRONMENTALLY FRIENDLY WOOD TREATMENT PROCESS**

[54] **PROCEDE DE TRAITEMENT DU BOIS RESPECTUEUX DE L'ENVIRONNEMENT**

[72] HELLBERG, MARTEN, SE

[72] OHRN, ANNA, SE

[73] ORGANOWOOD AB, SE

[85] 2013-05-23

[86] 2011-11-28 (PCT/EP2011/071204)

[87] (WO2012/072592)

[30] SE (1051256-4) 2010-11-29

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[25] EN
[54] **CONNECTOR SYSTEM FOR A FUEL CELL STACK**
[54] **SYSTEME DE CONNECTEUR POUR UN EMPILEMENT DE PILES A COMBUSTIBLE**
[72] HOOD, PETER, GB
[73] INTELLIGENT ENERGY LIMITED, GB
[85] 2013-05-29
[86] 2011-11-18 (PCT/GB2011/052265)
[87] (WO2012/073000)
[30] GB (1020478.2) 2010-12-03

[11] **2,825,062**
[13] C
[51] **Int.Cl. B42D 25/41 (2014.01) B42D 25/23 (2014.01) B42D 25/24 (2014.01) B42D 25/373 (2014.01)**
[25] EN
[54] **METHOD FOR PRODUCING A MULTILAYER DATA CARRIER AND DATA CARRIER PRODUCED BY SAID METHOD**
[54] **PROCEDE DE FABRICATION D'UN SUPPORT DE DONNEES MULTICOUCHE ET SUPPORT DE DONNEES FABRIQUE SELON LEDIT PROCEDE**
[72] EGLI, STEFAN, CH
[72] WIDMER GOMRES, HEIDI, CH
[73] GEMALTO AG, CH
[85] 2013-07-18
[86] 2012-01-13 (PCT/CH2012/000008)
[87] (WO2012/097463)
[30] CH (86/11) 2011-01-18

[11] **2,825,845**
[13] C
[51] **Int.Cl. A61K 36/42 (2006.01) A61K 9/00 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARATION OF A HERBAL EXTRACT**
[54] **PROCEDE DE PREPARATION D'UN EXTRAIT D'HERBE**
[72] SHARMA, SOMESH, IN
[72] CHAUHAN, VIJAY SINGH, IN
[72] SUTHAR, ASHISH, IN
[73] PIRAMAL ENTERPRISES LIMITED, IN
[85] 2013-07-26
[86] 2012-01-27 (PCT/IN2012/000059)
[87] (WO2012/101657)
[30] IN (246/MUM/2011) 2011-01-28

[11] **2,825,856**
[13] C
[51] **Int.Cl. C12N 1/12 (2006.01) C05D 9/00 (2006.01) C12M 1/04 (2006.01) C12N 1/36 (2006.01) C12N 13/00 (2006.01) C12P 7/64 (2006.01) C12P 19/04 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCTION OF MICROALGAE, CYANOBACTERIA AND METABOLITES THEREOF**
[54] **PROCEDE POUR LA PRODUCTION DE MICROALGUES, CYANOBACTERIES ET DE METABOLITES DE CEUX-CI**
[72] DODD, JOHN, GB
[72] MARSALEK, BLAHSOLOV, CZ
[72] VOSATKA, MIROSLAV, CZ
[72] BASHIR, NAZIR, GB
[73] ALGAE CYTES LIMITED, GB
[85] 2013-07-26
[86] 2012-01-30 (PCT/GB2012/050194)
[87] (WO2012/101459)
[30] GB (1101487.5) 2011-01-28
[30] GB (1101489.1) 2011-01-28

[11] **2,826,666**
[13] C
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **REDUCED-PRESSURE DRESSINGS, SYSTEMS, AND METHODS FOR USE WITH LINEAR WOUNDS**
[54] **PANSEMENTS A PRESSION REDUITE, SYSTEMES ET PROCEDES A UTILISER AVEC DES PLAIES LINEAIRES**
[72] SIMMONS, TYLER, US
[72] HALL, COLIN JOHN, GB
[72] ROBINSON, TIMOTHY MARK, GB
[73] KCI LICENSING, INC., US
[85] 2013-08-06
[86] 2011-11-29 (PCT/US2011/062422)
[87] (WO2012/112204)
[30] US (61/442,723) 2011-02-14

[11] **2,827,289**
[13] C
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/192 (2006.01) A61K 31/196 (2006.01) A61K 31/717 (2006.01) A61K 31/729 (2006.01) A61K 33/38 (2006.01) A61P 29/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **ABSORBENT DRESSINGS WITH PAINKILLING ACTIVITY**
[54] **PANSEMENTS ABSORBANTS AVEC ACTIVITE ANTIDOULEUR**
[72] PASTORELLO, ANDREA, IT
[72] GALESSO, DEVIS, IT
[72] BETTELLA, FABIO, IT
[73] FIDIA FARMACEUTICI S.P.A., IT
[85] 2013-08-13
[86] 2012-02-13 (PCT/EP2012/052412)
[87] (WO2012/110456)
[30] IT (PD2011A000043) 2011-02-15

[11] **2,827,904**
[13] C
[51] **Int.Cl. E21B 34/08 (2006.01) E21B 47/007 (2012.01) E21B 34/16 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR INCREASING THE ULTIMATE RECOVERY OF NATURAL GAS CONTAINED IN SHALE AND OTHER TIGHT GAS RESERVOIRS**
[54] **APPAREIL ET PROCEDE PERMETTANT D'AUGMENTER L'EXTRACTION MAXIMALE DE GAZ NATUREL CONTENU DANS LE SCHISTE ET AUTRES RESERVOIRS DE GAZ COMPACTS**
[72] NATH, RAVI, US
[72] SHARMA, SANJAY KUMAR, US
[72] RENFRO, JEFFREY G., US
[72] STANEK, JEROME J., US
[73] HONEYWELL INTERNATIONAL INC., US
[85] 2013-08-21
[86] 2012-02-22 (PCT/US2012/026000)
[87] (WO2012/115997)
[30] US (61/445,848) 2011-02-23
[30] US (13/295,746) 2011-11-14

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[13] C

[51] **Int.Cl. B65D 50/02 (2006.01) B65D 55/00 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **FLAT PACK CONTAINERS**
[54] **RECIPIENTS DE BOITIER PLAT**
[72] GIRAUD, JEAN-PIERRE, US
[72] ZBIRKA, MICHEL, FR
[72] PICHOT, HERVE, FR
[72] RABINNE, BRUCE, FR
[73] CSP TECHNOLOGIES, INC., US
[85] 2013-08-22
[86] 2012-02-20 (PCT/US2012/025813)
[87] (WO2012/115905)
[30] US (61/445,869) 2011-02-23

[11] **2,829,095**
[13] C

[51] **Int.Cl. A61K 33/243 (2019.01) A61K 33/242 (2019.01) A61K 9/10 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL GOLD-PLATINUM BASED BI-METALLIC NANOCRYSTAL SUSPENSIONS, ELECTROCHEMICAL MANUFACTURING PROCESSES THEREFOR AND USES FOR THE SAME**
[54] **NOUVELLES SUSPENSIONS DE NANOCRISTAUX BIMETALLIQUES A BASE D'OR ET DE PLATINE, PROCEDES DE FABRICATION ELECTROCHIMIQUES ASSOCIES ET LEURS UTILISATIONS**
[72] DORFMAN, ADAM R., US
[72] BRYCE, DAVID A., US
[72] GRACE, MAXWELL A., US
[72] PIERCE, D. KYLE, US
[72] MERZLIAKOV, MIKHAIL, US
[72] MORTENSON, MARK G., US
[73] CLENE NANOMEDICINE, INC., US
[85] 2013-09-04
[86] 2012-03-30 (PCT/US2012/031654)
[87] (WO2012/135743)
[30] US (61/469,525) 2011-03-30

[11] **2,829,739**
[13] C

[51] **Int.Cl. E02D 27/52 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR THE INSTALLATION OF UNDERWATER FOUNDATIONS**
[54] **SYSTEME ET PROCEDE POUR L'INSTALLATION DE FONDATIONS SOUS L'EAU**
[72] CALLAN, DAMIAN, GB
[72] MCCAREY, JOHN, GB
[72] HOLLAND, ADAM, GB
[72] QUINN, ADRIAN, GB
[73] MCLAUGHLIN & HARVEY LIMITED, GB
[73] RPS GROUP PLC, GB
[85] 2013-09-10
[86] 2012-03-12 (PCT/EP2012/054304)
[87] (WO2012/123431)
[30] GB (1104183.7) 2011-03-11

[11] **2,830,434**
[13] C

[51] **Int.Cl. B01J 20/24 (2006.01) C02F 1/28 (2006.01) C02F 1/62 (2006.01) C08B 37/00 (2006.01) C08B 37/08 (2006.01) G21F 9/12 (2006.01) G21F 9/30 (2006.01)**
[25] EN
[54] **PREPARATION OF CHITOSAN-BASED MICROPOROUS COMPOSITE MATERIAL AND ITS APPLICATIONS**
[54] **PREPARATION DE MATIERE COMPOSITE MICROPOREUSE A BASE DE CHITOSANE ET SES APPLICATIONS**
[72] HASAN, SHAMEEM, US
[73] PERMA-FIX ENVIRONMENTAL SERVICES, INC., US
[85] 2013-09-16
[86] 2012-03-19 (PCT/US2012/029629)
[87] (WO2012/125994)
[30] US (61/453,772) 2011-03-17

[11] **2,830,819**
[13] C

[51] **Int.Cl. C03C 25/28 (2018.01) A01M 29/34 (2011.01) C03C 25/40 (2006.01) C03C 25/48 (2006.01)**
[25] FR
[54] **GLASS YARN PROVIDED WITH A POLYMER COATING, AND SCREEN CONTAINING SAID YARN**
[54] **FIL DE VERRE POURVU D'UN REVETEMENT A BASE DE POLYMERE ET ECRAN CONTENANT LEDIT FIL**
[72] BLANCHARD, BENJAMIN, FR
[72] CHUDA, KATARZYNA, FR
[73] SAINT-GOBAIN ADFORS, FR
[85] 2013-09-20
[86] 2012-03-28 (PCT/FR2012/050654)
[87] (WO2012/131255)
[30] FR (1152636) 2011-03-30

[11] **2,831,157**
[13] C

[51] **Int.Cl. B03D 1/01 (2006.01)**
[25] EN
[54] **AMINE AND DIAMINE COMPOUNDS AND THEIR USE FOR INVERSE FROTH FLOTATION OF SILICATE FROM IRON ORE**
[54] **COMPOSES D'AMINE ET DE DIAMINE ET LEUR UTILISATION POUR UNE FLOTTATION PAR MOUSSAGE INVERSE DE SILICATE A PARTIR DE MINERAI DE FER**
[72] BITTNER, CHRISTIAN, DE
[72] VACANO, BERNHARD ULRICH VON, DE
[72] BERGER, ALEXSANDRO, DE
[72] BOHN, ROLAND, DE
[72] OETTER, GUNTER, DE
[72] NIEBERLE, JORG, DE
[73] BASF SE, DE
[85] 2013-09-24
[86] 2012-04-10 (PCT/EP2012/056396)
[87] (WO2012/139985)
[30] US (61/474,756) 2011-04-13
[30] EP (11162156.1) 2011-04-13

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[11] **2,832,696**
[13] C

[51] **Int.Cl. G06F 16/21 (2019.01)**
[25] EN
[54] **MINIMIZE DOWNTIME WITH IMMEDIATE UPGRADE OF DATA IN DATABASES**
[54] **REDUCTION AU MINIMUM DE LA DUREE D'INDISPONIBILITE A L'AIDE DE LA MISE A NIVEAU IMMEDIATE DE DONNEES DANS DES BASES DE DONNEES**
[72] COVERSTON, SAM JASON, US
[72] ASHWORTH, SAMUEL WILLIAM, US
[72] WALSH, JEFFERSON BRIDGER, US
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[54] **METHOD AND SYSTEM FOR ENABLING MERCHANTS TO SHARE TOKENS**
[54] **PROCEDE ET SYSTEME PERMETTANT A DES MARCHANDS DE PARTAGER DES JETONS**
[72] CRONIC, KEVIN JAMES, US
[72] SOMMERS, STEVEN MARK, US
[72] ODER II, JOHN DAVID, US
[72] ODER, JOHN DAVID, US
[72] CALANDRELLI, STEVEN, US
[72] FRIED, JEREMY B., US
[73] SHIFT4 CORPORATION, US
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[54] **INTERFACE COMPRISING A ROLLING NASAL BRIDGE PORTION**
[54] **INTERFACE COMPRENANT UNE PARTIE DE PONT NASAL ROULANTE**
[72] OLSEN, GREGORY JAMES, NZ
[72] BEARNE, PETER DAVID ALEXANDER, NZ
[72] EVANS, LEON EDWARD, NZ
[72] STEPHENSON, MATTHEW ROGER, NZ
[72] PRENTICE, CRAIG ROBERT, NZ
[72] IP, BERNARD TSZ LUN, NZ
[72] SPEAR, TONY WILLIAM, NZ
[72] MCLAREN, MARK ARVIND, NZ
[72] PATEL, ROHEET, NZ
[72] HOWARTH, BRAD MICHAEL, NZ
[72] HARWOOD, JONATHAN DAVID, NZ
[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
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[25] EN
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[54] **COMPOSITION POLYMERE AMELIOREE POUR SOUS-STRUCTURES A BASE DE CIMENT**
[72] LEAMAN, MICHAEL RAY, US
[73] UNISEAL SOLUTIONS INC., US
[85] 2013-10-18
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[25] EN
[54] **RECEIVER OF RADIO FREQUENCY SIGNALS**
[54] **RECEPTEUR DE SIGNAUX RADIOFREQUENCE**
[72] MOIRAGHI, GUIDO, IT
[72] MOIRAGHI, LUCA, IT
[72] MOIRAGHI, PAOLO, IT
[73] STE S.A.S. DI G. MOIRAGHI & C., IT
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[25] EN
[54] **ANTI-HUMAN RECEPTOR-TYPE PROTEIN TYROSINE PHOSPHATASE .SIGMA. ANTIBODY**
[54] **ANTICORPS ANTI-PROTEINE TYROSINE PHOSPHATASE S HUMAINE DE TYPE RECEPTEUR**
[72] YAMAZAKI, TOMOHIDE, JP
[72] ZHAO, JING, JP
[72] ISHIDA, KOJI, JP
[72] SHIBATA, YASUE, JP
[72] CHO, MINKWON, JP
[72] ENDO, MAYUKI, JP
[73] SBI BIOTECH CO., LTD., JP
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[54] **TRAITEMENT DE RESIDUS DE FORAGE**
[72] ANDERSON, TREY, US
[72] FOUT, GARY E., US
[72] LOGAN, GORDON MACMILLAN, GB
[72] KOCH, JOHN, US
[73] M-I L.L.C., US
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[54] **AN UNBONDED FLEXIBLE PIPE AND PIPE SYSTEM**
[54] **TUYAU SOUPLE DE TYPE NON LIE ET SYSTEME DE TUYAU**
[72] ANDERSEN, SVEND VOGT, DK
[72] LARSEN, CHARLOTTE, DK
[73] NATIONAL OILWELL VARCO DENMARK I/S, DK
[85] 2013-11-04
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[25] EN
[54] **SHEAR VALVE**
[54] **VANNE A CISAILLEMENT**
[72] HARESTAD, KRISTIAN, NO
[72] SKORVE, HELGE, NO
[72] TVEITEN, MAGNAR, NO
[73] PETROLEUM TECHNOLOGY COMPANY AS, NO
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[30] NO (20110723) 2011-05-16

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[54] **VERTICAL PACKAGING MACHINE FOR FOOD PRODUCTS**
[54] **MACHINE D'EMBALLAGE VERTICALE POUR PRODUITS ALIMENTAIRES**
[72] FIORAVANTI, ANDREA, IT
[72] BOSCHETTI, GIOVANNI, IT
[73] P.F.M. SPA, IT
[85] 2013-11-08
[86] 2012-05-02 (PCT/IB2012/052196)
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[25] EN
[54] **METHODS AND SYSTEMS FOR SPURIOUS CANCELLATION IN SEISMIC SIGNAL DETECTION**
[54] **PROCEDES ET SYSTEMES PERMETTANT DE SUPPRIMER DES SIGNAUX PARASITES LORS DE LA DETECTION DE SIGNAUX SISMIQUES**
[72] KAMATA, MASAHIRO, JP
[73] SCHLUMBERGER CANADA LIMITED, CA
[85] 2013-11-12
[86] 2012-05-18 (PCT/US2012/038468)
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[30] US (13/111,955) 2011-05-20

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[25] EN
[54] **A DISPENSING NOZZLE COVER**
[54] **CAPUCHON D'EMBOUT DE DISTRIBUTION**
[72] NORGAARD, JENS, DK
[72] ANDERSEN, JENS RASMUS, DK
[73] NORGAARD & ANDERSEN APS, DK
[85] 2013-11-13
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[25] EN
[54] **PROCESS FOR LINING METAL PIPELINES**
[54] **PROCESSUS DE GAINAGE DE CONDUITES METALLIQUES**
[72] MESSINA, NICASIO, IT
[72] MIRENDA, MARCO, IT
[72] BESANA, GIAMBATTISTA, IT
[72] ABUSLEME, JULIO A., IT
[72] FAIG, REGIS, FR
[73] SOLVAY SPECIALTY POLYMERS ITALY S.P.A., IT
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[54] **METHOD AND SYSTEM FOR RELEASING MINERAL FROM SYNTHETIC BUBBLES AND BEADS**
[54] **PROCEDE ET SYSTEME POUR LIBERER UN MINERAL DE BULLES ET DE BILLES SYNTHETIQUES**
[72] ROTHMAN, PAUL J., US
[72] FERNALD, MARK R., US
[72] DIDDEN, FRANCIS K., US
[72] O'KEEFE, CHRISTIAN V., US
[72] ADAMSON, DOUGLAS H., US
[73] CIDRA CORPORATE SERVICES INC., US
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[25] EN
[54] **CUSHIONED RESILIENT INTRAVAGINAL URINARY INCONTINENCE DEVICE AND METHOD OF MAKING SAME**
[54] **DISPOSITIF POUR INCONTINENCE URINAIRE VAGINAL, ELASTIQUE, AMORTI ET SON PROCEDE DE FABRICATION**
[72] HULL, RAYMOND J., JR., US
[72] ARMBRUSTER, RAINER, DE
[73] FIRST QUALITY HYGIENIC, INC., US
[85] 2013-11-21
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[13] C

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[25] EN
[54] **CURING AGENTS PROVIDING A LOW RATIO OF THIN FILM CURE TIME TO GEL TIME**
[54] **AGENTS DURCISSEURS FOURNISSANT UN FAIBLE RAPPORT DU TEMPS DE DURCISSEMENT DE FILM MINCE AU TEMPS DE GELIFICATION**
[72] PETWAY, LORENZO, US
[72] KINCAID, DEREK SCOTT, US
[73] HUNTSMAN ADVANCED MATERIALS AMERICAS LLC, US
[85] 2013-11-29
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[87] (WO2012/170370)
[30] US (61/494,496) 2011-06-08

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[25] EN
[54] **MULTILAYERED VALVE METAL COATING FOR A SURGICAL IMPLANT**
[54] **REVETEMENT METALLIQUE DE SOUPEPE MULTICOUCHE DESTINE A UN IMPLANT CHIRURGICAL**
[72] VOISARD, CYRIL, CH
[72] GEDET, PHILIPPE, CH
[72] BOUDUBAN, NICOLAS, CH
[73] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2013-12-02
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[25] EN
[54] **READY-TO-EAT CEREAL FLAKES CONTAINING LEGUMES**
[54] **FLOCONS DE CEREALE PRETS A ETRE CONSOMMES CONTENANT DES LEGUMINEUSES**
[72] GANDHI, KALPESH, US
[72] WENK, ROGER S., US
[73] KELLOGG COMPANY, US
[85] 2013-12-09
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[54] **METHOD FOR MIST CONTROL**
[54] **PROCEDE DE LIMITATION DE BROUILLARD**
[72] BADE, OTTO MORTEN, NO
[72] WOODHOUSE, SIMON, NO
[72] GORSET, ODDVAR, NO
[72] ANDERSSON, VIBEKE, NO
[73] AKER ENGINEERING & TECHNOLOGY AS, NO
[85] 2013-12-11
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[30] NO (20110974) 2011-07-05

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[51] **Int.Cl. G02B 26/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR BALANCING MIRRORS IN LIMITED ROTATION MOTOR SYSTEMS**
[54] **SYSTEME ET PROCEDES D'EQUILIBRAGE DE MIROIRS DANS DES SYSTEMES DE MOTEUR A ROTATION LIMITEE**
[72] BROWN, DAVID C., US
[73] NOVANTA CORPORATION, US
[85] 2013-12-12
[86] 2012-07-20 (PCT/US2012/047590)
[87] (WO2013/019430)
[30] US (61/513,248) 2011-07-29
[30] US (13/253,194) 2011-10-05

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[13] C

[51] **Int.Cl. F23R 3/14 (2006.01) F23R 3/28 (2006.01)**
[25] FR
[54] **METHOD FOR INJECTING FUEL INTO A COMBUSTION CHAMBER OF A GAS TURBINE, AND INJECTION SYSTEM FOR IMPLEMENTING SAME**
[54] **PROCEDE D'INJECTION DE CARBURANT DANS UNE CHAMBRE DE COMBUSTION DE TURBINE A GAZ ET SYSTEME D'INJECTION POUR SA MISE EN OEUVRE**
[72] SAVARY, NICOLAS, FR
[72] VIGNAU, HUBERT, FR
[72] VIGUIER, CHRISTOPHE, FR
[72] BERAT, CLAUDE, FR
[73] TURBOMECA, FR
[85] 2013-12-19
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[54] **BARRIERE DE CONTROLE DE FOULE**
[72] WETTERN, LAURENCE P., GB
[73] WETTERN, LAURENCE P., GB
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[54] **ORVINOL AND THEVINOL DERIVATIVES USEFUL IN THE TREATMENT OF DRUG AND ALCOHOL ABUSE**
[54] **DERIVES D'ORVINOL ET DE THEVINOL UTILES DANS LE TRAITEMENT DE LA TOXICOMANIE ET DE L'ALCOOLISME**
[72] LEWIS, JOHN, GB
[72] HUSBANDS, STEPHEN, GB
[73] THE UNIVERSITY OF BATH, GB
[85] 2014-01-07
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[30] GB (1111775.1) 2011-07-08

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[25] EN
[54] **BIOPSY DEVICE WITH APERTURE ORIENTATION AND IMPROVED TIP**
[54] **DISPOSITIF DE BIOPSIE A ORIENTATION D'OUVERTURE ET EMBOUT AMELIORE**
[72] SHABAZ, MARTIN V., US
[72] QUICK, RICHARD L., US
[72] LOUW, FRANK R., US
[72] LUBOCK, PAUL, US
[72] SAFABASH, JASON H., US
[73] SENORX, INC., US
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[30] US (11/014,413) 2004-12-16

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[25] EN
[54] **SEISMIC GEOPHYSICAL SURVEYING USING A FIBRE OPTIC DISTRIBUTED SENSING APPARATUS**
[54] **PROSPECTION GEOPHYSIQUE SISMIQUE UTILISANT UN APPAREIL DE DETECTION DISTRIBUE A FIBRE OPTIQUE**
[72] LEWIS, ANDREW, GB
[72] RUSSELL, STUART, GB
[73] OPTASENSE HOLDINGS LIMITED, GB
[85] 2014-01-13
[86] 2012-07-12 (PCT/GB2012/051652)
[87] (WO2013/011283)
[30] GB (1112154.8) 2011-07-15

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[13] C

[51] **Int.Cl. A61M 15/00 (2006.01) A61J 1/00 (2006.01)**
[25] EN
[54] **MEDICAMENT DELIVERY DEVICE HAVING IMPROVED POWDER EMISSION AND DEAGGLOMERATION**
[54] **DISPOSITIF DE DISTRIBUTION DE MEDICAMENT AYANT UNE EMISSION ET UNE DESAGGLOMERATION DE POUDRE AMELIOREES**
[72] SEENEY, PHILIP, GB
[72] JENNINGS, DOUGLAS IVAN, GB
[73] PHARMAXIS LTD, AU
[85] 2014-01-10
[86] 2012-07-13 (PCT/GB2012/051687)
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[30] GB (1112029.2) 2011-07-13
[30] GB (1112666.1) 2011-07-22

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[13] C

[51] **Int.Cl. G06F 3/048 (2013.01) G06F 3/14 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTROLLING CONTENT USING GRAPHICAL OBJECT**
[54] **PROCEDE ET APPAREIL PERMETTANT DE GERER UN CONTENU AU MOYEN D'UN OBJET GRAPHIQUE**
[72] RHEE, TAIK HEON, KR
[72] LEE, SANG IL, KR
[72] EUN, DONG JIN, KR
[72] KUK, SUNG BIN, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2014-01-10
[86] 2012-07-11 (PCT/KR2012/005498)
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[30] KR (10-2011-0068378) 2011-07-11
[30] KR (10-2011-0127279) 2011-11-30

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[13] C

[51] **Int.Cl. H04B 1/06 (2006.01) H04N 21/43 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPLEMENTING DYNAMIC BANKS OF SUBCHANNELS FOR BROADCAST OR STREAMED CONTENT SERVICES ("FEATURED FAVORITES")**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE METTRE EN ŐUVRE DES BLOCS DYNAMIQUES DE SOUS-CANAUX POUR DES SERVICES DE CONTENU DE DIFFUSION OU TRANSMIS EN CONTINU (« FAVORIS PRESENTES »)**
[72] MARKO, PAUL, US
[72] COX, STUART A., US
[72] WADIN, CRAIG, US
[73] SIRIUS XM RADIO INC., US
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[30] US (61/572,332) 2011-07-14

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[25] EN
[54] **METHOD FOR THE PREVENTION AND TREATMENT OF SEPSIS**
[54] **PROCEDE DE PREVENTION ET DE TRAITEMENT D'UNE SEPSIE**
[72] NICOLAES, GERARDUS ANNA FRANCISCUS, NL
[72] REUTELINGSPERGER, CHRISTIAAN PETER MARIA, NL
[72] HEMKER, HENDRIK COENRAAD, NL
[73] UNIVERSITEIT MAASTRICHT, NL
[73] ACADEMISCH ZIEKENHUIS MAASTRICHT, NL
[85] 2014-01-09
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[30] EP (11174070.0) 2011-07-14

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[25] EN
[54] **WINDING APPARATUS**
[54] **APPAREIL ENROULEUR**
[72] IZAWA, HIDEO, JP
[72] YAMAZAKI, YUICHI, JP
[72] OYAMA, KOUICHI, JP
[72] KUSANAGI, MASARU, JP
[73] MIYAKOSHI PRINTING MACHINERY CO., LTD., JP
[86] (2842076)
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[22] 2014-02-06
[30] JP (2013-027391) 2013-02-15

[11] **2,842,212**
[13] C

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[25] EN
[54] **A SYSTEM AND KIT FOR RETROFITTING A MANIFOLD HEAD TO INCLUDE A PERMEATE PUMP**
[54] **SYSTEME ET TROUSSE DE REHABILITATION D'UNE TETE DE COLLECTEUR POUR Y INCLURE UNE POMPE A PERMEAT**
[72] KENNEDY, GREGORY, US
[72] SINKULA, DAVID, US
[72] ZIMMERMAN, JEFFREY, US
[72] KHAMIS, CHAOUKI, US
[72] STOICK, MICHAEL, US
[72] DUSHECK, NATHAN, US
[73] ECOWATER SYSTEMS, LLC, US
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[22] 2006-01-27
[62] 2,596,225
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[13] C

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[25] EN
[54] **A METHOD AND SYSTEM FOR DETECTING AND/OR CLASSIFYING CANCEROUS CELLS IN A CELL SAMPLE**
[54] **PROCEDE ET SYSTEME DE DETECTION DE CELLULES CANCEREUSES ET/OU DE CLASSIFICATION DE CELLULES DANS UN ECHANTILLON DE CELLULES**
[72] MATHUIS, PHILIP, BE
[72] JOORIS, SERGE, BE
[72] MAGNIETTE, OLIVIER, BE
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[72] HODGKINSON, JOHN, GB
[73] GLAXO GROUP LIMITED, GB
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[54] **DEVICE FOR EVAPORATING VOLATILE SUBSTANCES**
[54] **DISPOSITIF POUR L'EVAPORATION DE SUBSTANCES VOLATILES**
[72] MORHAIN, CEDRIC, IT
[72] SORDO, WALTER, IT
[72] DEFLORIAN, STEFANO, IT
[73] ZOBELE HOLDING SPA, IT
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[54] **OPTIMUM PROCESS DESIGN OF PACKED BED TYPE THERMAL STORAGE SYSTEMS AND OTHER APPLICATIONS**
[54] **CONCEPTION OPTIMALE DE PROCESSUS SYSTEMES DE STOCKAGE THERMIQUE DE TYPE A LIT TASSE ET AUTRES APPLICATIONS**
[72] BINDRA, HITESH, US
[72] BUENO, PABLO, US
[73] RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK, US
[85] 2014-01-23
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[72] BERGLUND, ANDREAS, DK
[73] NOVENCO A/S, DK
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[54] **SECURE HOUSING FOR A PORTABLE COMPUTER**
[54] **BOITIER DE SECURITE POUR UN ORDINATEUR PORTABLE**
[72] HOMMEL, PETER, DE
[72] LIEBE, JORG, DE
[73] LUFTHANSA SYSTEMS AG, DE
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[54] **METHODS TO ENABLE EFFICIENT USE OF MULTIPLE RADIO ACCESS TECHNOLOGIES**
[54] **PROCEDES POUR UNE UTILISATION EFFICACE D'UNE PLURALITE DE TECHNOLOGIES D'ACCES RADIO**
[72] PERIYALWAR, SHALINI SURESH, CA
[72] PECEN, MARK, CA
[72] STEER, DAVID G., CA
[73] BLACKBERRY LIMITED, CA
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[25] FR
[54] **COMBUSTION CHAMBER WALL**
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[72] SAVARY, NICOLAS, FR
[72] BERAT, CLAUDE, FR
[72] GRIENCHE, GUY, FR
[72] BERTEAU, PATRICK, FR
[72] VERDIER, HUBERT PASCAL, FR
[73] TURBOMECA, FR
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[54] **AIRCRAFT PROPULSION ARCHITECTURE INTEGRATING AN ENERGY RECOVERY SYSTEM**
[54] **ARCHITECTURE DE PROPULSION D'AERONEF INTEGRANT UN SYSTEME DE RECUPERATION D'ENERGIE**
[72] RECHAIN, BRUNO, FR
[72] SMAOUI, HICHEM, FR
[72] JOUBERT, EMMANUEL, FR
[72] BEZES, GILLES, FR
[72] SAUTREUIL, MATTHIEU, FR
[73] EUROPEAN AERONAUTIC DEFENCE AND SPACE COMPANY EADS FRANCE, FR
[73] AIRBUS HELICOPTERS, FR
[85] 2014-01-31
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[13] C

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[54] **SYSTEM AND METHOD FOR REMOTE FULL FIELD THREE-DIMENSIONAL DISPLACEMENT AND STRAIN MEASUREMENTS**
[54] **SYSTEME ET PROCEDE DE MESURES TRIDIMENSIONNELLES DE DEPLACEMENT ET DE CONTRAINTE PLEIN CHAMP A DISTANCE**
[72] MICHPOULOS, JOHN G., US
[72] ILIOPOULOS, ATHANASIOS, US
[72] ANDRIANOPOULOS, NIKOS P., GR
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[85] 2014-01-31
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[30] US (61/514,083) 2011-08-02

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[13] C

[51] **Int.Cl. G05G 1/04 (2006.01) F16K 11/02 (2006.01) F16K 31/60 (2006.01) G05G 9/02 (2006.01) G05G 9/047 (2006.01)**

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[54] **MULTIPLE AXIS HANDLE AND MECHANISM**

[54] **MECANISME ET POIGNEE A AXE MULTIPLE**

[72] BEN-DOR, ERAN, IL
[73] BEN-DOR, ERAN, IL
[85] 2014-02-03
[86] 2012-08-09 (PCT/IL2012/050305)
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[11] **2,844,493**
[13] C

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[25] EN

[54] **END LID DESIGN AND REMOVAL TOOL**

[54] **CONCEPTION DE COUVERCLE D'EXTREMITE ET OUTIL D'EXTRACTION**

[72] WOLTERS, LAURENS G.J., NL
[72] MOL, EDWARD T., US
[73] MOL BELTING SYSTEMS, INC., US
[85] 2014-02-06
[86] 2012-08-13 (PCT/US2012/050572)
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[30] US (61/522,587) 2011-08-11
[30] US (61/590,790) 2012-01-25
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[11] **2,844,505**
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[25] EN

[54] **AN IMPROVED CONTAINER, CONTAINER CONSTRUCTION, HANDLING METHOD AND APPARATUS**

[54] **RECIPIENT AMELIORE, CONSTRUCTION DE RECIPIENT, PROCEDE ET APPAREIL DE MANIPULATION**

[72] CHALMERS, MATTHEW WILLIAM, AU
[72] PINDER, GARRY MARK, AU
[73] LOAD AND MOVE PTY LTD, AU
[85] 2014-02-07
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[11] **2,844,584**
[13] C

[51] **Int.Cl. B22D 27/00 (2006.01) B22C 9/04 (2006.01) B22D 27/04 (2006.01) B22D 29/00 (2006.01)**

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[54] **METHOD FOR CASTING MONOCRYSTALLINE METAL PARTS**

[54] **PROCEDE DE FONDERIE DE PIECES METALLIQUES MONOCRISTALLINES**

[72] CHAN, CELINE YANXI, FR
[72] MARIE, BENOIT GEORGES JOCELYN, FR
[72] LOCATELLI, DAVID, FR
[73] SNECMA, FR
[85] 2014-02-07
[86] 2012-08-06 (PCT/FR2012/051852)
[87] (WO2013/021130)
[30] FR (1157264) 2011-08-09

[11] **2,844,774**
[13] C

[51] **Int.Cl. H01F 1/00 (2006.01)**

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[54] **AGGLOMERATING MAGNETIC ALKOXYSILANE-COATED NANOPARTICLES**

[54] **AGGLOMERATION DE NANOPARTICULES MAGNETIQUES ENROBEES D'ALCOXYSILANE**

[72] WALDOFNER, NORBERT, DE
[72] JORDAN, ANDREAS, DE
[73] MAGFORCE AG, DE
[85] 2014-02-10
[86] 2012-08-07 (PCT/EP2012/003381)
[87] (WO2013/020701)
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[13] C

[51] **Int.Cl. B32B 38/12 (2006.01) B21D 22/00 (2006.01) B21D 22/20 (2006.01)**

[25] EN

[54] **METHOD OF FORMING DEEP-DRAWN PAINT FILM LAMINATED SHEET METAL AND ARTICLES MADE THEREFROM**

[54] **PROCEDE DE FORMATION DE TOLE EMBOUTIE RECOUVERTE D'UN FILM DE PEINTURE ET ARTICLES REALISES A PARTIR DE LADITE TOLE**

[72] BRUHIS, MOISEI, CA
[72] ELNAGMI, MOHAMED, CA
[72] JAIN, MUKESH K., CA
[72] NIELSEN, KENT E., CA
[73] 3M INNOVATIVE PROPERTIES COMPANY, US
[73] MCMASTER UNIVERSITY, CA
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[54] **QUINOLONE COMPOUND AND ANTIMICROBIAL USE THEREOF**

[54] **COMPOSE DE QUINOLONE ET USAGE ANTIMICROBIEN DUDIT COMPOSE**

[72] ABUDUSAIMI, MAMUTI, CN
[72] YE, FANGGUO, CN
[72] SUN, JIANGQIN, CN
[72] MIYAMOTO, HISASHI, JP
[72] CHENG, JAY-FEI, CN
[72] OKA, DAISUKE, JP
[73] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2014-02-14
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[87] (WO2013/029548)
[30] CN (PCT/CN2011/001477) 2011-08-31
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[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61M 5/158 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DAMAGE AND REMOVAL OF FAT**

[54] **PROCEDE ET APPAREIL POUR DEGRADER ET ENLEVER DES ADIPOSITES**

[72] AUSTEN, WILLIAM G., JR., US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2014-02-21
[86] 2012-07-20 (PCT/US2012/047708)
[87] (WO2013/013196)
[30] US (61/510,242) 2011-07-21

[11] **2,847,530**
[13] C

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[54] **INSTALLATIONS D'ANTENNE**

[72] POWELL, STEPHEN CHARLES, GB
[73] BAE SYSTEMS PLC, GB
[85] 2014-03-03
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[30] GB (1115271.7) 2011-09-05

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[13] C

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[25] EN

[54] **APPARATUS AND METHOD FOR SYNCHRONIZING AND OBTAINING SYSTEM INFORMATION IN WIRELESS COMMUNICATION SYSTEM**

[54] **APPAREIL ET PROCEDE DE SYNCHRONISATION ET D'OBTENTION D'INFORMATIONS SYSTEME DANS UN SYSTEME DE COMMUNICATION SANS FIL**

[72] YU, HYUN-KYU, KR
[72] KIM, TAE-YOUNG, KR
[72] CHO, JAE-WEON, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2014-03-04
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[87] (WO2013/036021)
[30] KR (10-2011-0091913) 2011-09-09

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[13] C

[51] **Int.Cl. G06F 8/20 (2018.01) G06F 21/10 (2013.01) G06F 8/34 (2018.01) G06F 8/60 (2018.01)**

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[54] **SYSTEMS AND METHODS FOR COMPUTING APPLICATIONS**

[54] **SYSTEMES ET PROCEDES POUR APPLICATIONS INFORMATIQUES**

[72] EKSTEN, BRICK, CA
[72] WHITE, CRAIG, CA
[72] PALMER, SCOTT, CA
[72] BELME, FRANK, CA
[72] LI, STEPHEN, CA
[72] SACEANU, CRISTIAN, CA
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[30] US (61/531,953) 2011-09-07
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[13] C

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[54] **WAVELENGTH SELECTION POLARIZATION CONTROLLER**

[54] **DISPOSITIF DE COMMANDE DE POLARISATION A SELECTION DE LONGUEUR D'ONDE**

[72] WADA, NAOYA, JP
[72] BOKU, SEITETSU, JP
[72] YAMAZAKI, HIROYUKI, JP
[72] TOTTORI, YUSAKU, JP
[73] NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY, JP
[85] 2014-03-05
[86] 2012-06-12 (PCT/JP2012/065007)
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[54] **ANILINE DERIVATIVES, THEIR PREPARATION AND THEIR THERAPEUTIC APPLICATION**

[54] **DERIVES D'ANILINE, LEUR PREPARATION ET LEUR APPLICATION THERAPEUTIQUE**

[72] FEUTRILL, JOHN, AU
[72] LERICHE, CAROLINE, FR
[72] MIDDLEMISS, DAVID, GB
[73] SANOFI, FR
[85] 2014-03-10
[86] 2012-09-07 (PCT/EP2012/067473)
[87] (WO2013/037705)
[30] EP (11306170.9) 2011-09-16
[30] EP (12305130.2) 2012-02-03
[30] EP (12305626.9) 2012-06-04

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[54] **SURVEILLANCE DU FLUX A TRAVERS LE RESEAU DANS DES RESEAUX A ARCHITECTURE FRACTIONNEE**
[72] ZHANG, YING, US
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2014-03-11
[86] 2012-08-07 (PCT/IB2012/054030)
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[30] US (13/232,719) 2011-09-14

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[25] EN
[54] **APPARATUS AND METHOD FOR OPERATING MULTIPLE BEAMFORMING TRANSCEIVER IN WIRELESS COMMUNICATION SYSTEM**
[54] **APPAREIL ET PROCEDE POUR COMMANDER UN EMETTEUR-RECEPTEUR A FORMATION DE FAISCEAUX MULTIPLES DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] PARK, JEONG-HO, KR
[72] JEONG, SU-RYONG, KR
[72] SEOL, JI-YUN, KR
[72] YU, HYUN-KYU, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
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[30] KR (10-2011-0093845) 2011-09-19

[11] **2,849,165**
[13] C

[51] **Int.Cl. F16C 33/04 (2006.01) E21B 4/00 (2006.01) F16C 33/26 (2006.01)**
[25] EN
[54] **BEARING ASSEMBLIES, APPARATUSES, AND RELATED METHODS OF MANUFACTURE**
[54] **ENSEMBLES PALIERS, APPAREILS ET PROCEDES DE FABRICATION ASSOCIES**
[72] COOLEY, CRAIG H., US
[72] SEXTON, TIMOTHY N., US
[73] US SYNTHETIC CORPORATION, US
[85] 2014-03-18
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[30] US (13/241,412) 2011-09-23

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[13] C

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[25] EN
[54] **PREVENTION OF STARCH DEGRADATION IN PULP, PAPER OR BOARD MAKING PROCESSES**
[54] **PREVENTION DE LA DEGRADATION DE L'AMIDON DANS DES PROCEDES DE FABRICATION DE PATE A PAPIER, DE PAPIER OU DE CARTON**
[72] KOLARI, MARKO, FI
[72] EKMAN, JAAKKO, FI
[72] IKAVALKO, SATU, FI
[73] KEMIRA OYJ, FI
[85] 2014-03-20
[86] 2012-09-28 (PCT/EP2012/069228)
[87] (WO2013/045638)
[30] US (61/541,509) 2011-09-30

[11] **2,849,820**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4523 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 407/04 (2006.01) C07D 417/04 (2006.01)**
[25] EN
[54] **BENZYL PIPERIDINE COMPOUNDS AS LYSOPHOSPHATIDIC ACID (LPA) RECEPTOR ANTAGONIST**
[54] **COMPOSES DE BENZYLPIPERIDINE UTILISES COMME ANTAGONISTES DES RECEPTEURS A L'ACIDE LYSOPHOSPHATIDIQUE (LPA)**
[72] SCHIEMANN, KAI, DE
[72] STAEHLE, WOLFGANG, DE
[72] BUSCH, MICHAEL, DE
[72] WIENKE, DIRK, DE
[72] POESCHKE, OLIVER, DE
[72] BURGER, CHRISTA, DE
[73] MERCK PATENT GMBH, DE
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[87] (WO2013/045028)
[30] EP (11007796.3) 2011-09-26

[11] **2,849,941**
[13] C

[51] **Int.Cl. G07C 7/00 (2006.01) E21F 17/18 (2006.01) G05B 23/02 (2006.01)**
[25] EN
[54] **DIAGNOSTICS OF WORK MACHINES**
[54] **MAINTENANCE DE MACHINES DE TRAVAIL**
[72] VIITALA, JANNE, FI
[72] HAVERINEN, EEMELI, FI
[73] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2014-03-25
[86] 2011-10-11 (PCT/FI2011/050873)
[87] (WO2013/053975)

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[13] C

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[25] EN
[54] **POINT THE BIT ROTARY STEERABLE SYSTEM**
[54] **ORIENTATION DE SYSTEME DIRIGEABLE ROTATIF A TREPAN**
[72] HUTTON, RICHARD, GB
[72] RUTLAND, JEFF, GB
[73] HUTTON, RICHARD, GB
[73] RUTLAND, JEFF, GB
[85] 2014-03-25
[86] 2012-09-27 (PCT/IB2012/002313)
[87] (WO2013/046028)
[30] US (61/539,554) 2011-09-27

[11] **2,850,173**
[13] C

[51] **Int.Cl. H04W 80/04 (2009.01)**
[25] EN
[54] **PMIPV6 MAG RESTORATION**
[54] **RESTAURATION DE MAG PMIPV6**
[72] QIANG, ZU QIANG, CA
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2014-03-26
[86] 2012-10-01 (PCT/IB2012/055261)
[87] (WO2013/046190)
[30] US (61/541,698) 2011-09-30

[11] **2,851,582**
[13] C

[51] **Int.Cl. F24F 13/14 (2006.01) F16K 1/16 (2006.01) F16K 31/44 (2006.01) F16K 31/528 (2006.01)**
[25] FR
[54] **DEVICE FOR ADJUSTING A RATE OF FLOW OF AIR FLOWING ALONG AN AIR DUCT**
[54] **DISPOSITIF POUR AJUSTER UN DEBIT D'AIR S'ECOULANT DANS UN CONDUIT AERAUQUE**
[72] DAMIZET, PATRICK, FR
[73] ALDES AERAUQUE, FR
[85] 2014-04-09
[86] 2012-11-14 (PCT/FR2012/052625)
[87] (WO2013/076404)
[30] FR (1160687) 2011-11-23

[11] **2,851,813**
[13] C

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[25] EN
[54] **MOLDED SOLAR PANEL RACKING ASSEMBLY**
[54] **ENSEMBLE RAYONNAGE MOULE POUR PANNEAUX SOLAIRES**
[72] RIZZO, NATHAN T., US
[73] DYNORAXX, INC., US
[85] 2014-04-10
[86] 2012-10-17 (PCT/US2012/060680)
[87] (WO2013/059370)
[30] US (61/548,024) 2011-10-17
[30] US (61/548,209) 2011-10-17
[30] US (13/979,293) 2012-10-13

[11] **2,852,030**
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[25] EN
[54] **INTUMESCENT FIREPROOFING SYSTEMS AND METHODS**
[54] **SYSTEMES D'IGNIFUGATION INTUMESCENTS ET LEURS PROCEDES**
[72] KREH, ROBERT PAUL, US
[73] UNITED STATES MINERAL PRODUCTS COMPANY, US
[85] 2014-04-11
[86] 2012-10-11 (PCT/US2012/059735)
[87] (WO2013/055909)
[30] US (13/270,734) 2011-10-11

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[25] EN
[54] **PERISTALTIC PUMP AND PUMPHEAD THEREFOR**
[54] **POMPE PERISTALTIQUE ET TETE DE POMPE CORRESPONDANTE**
[72] BROKENSHIRE, STEVEN, GB
[73] WATSON-MARLOW LIMITED, GB
[85] 2014-04-14
[86] 2012-05-29 (PCT/GB2012/051206)
[87] (WO2013/061020)
[30] GB (1118428.0) 2011-10-25

[11] **2,852,367**
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] FR
[54] **METHOD, COMPUTER PROGRAM, AND DEVICE FOR ALLOCATING COMPUTER RESOURCES OF A CLUSTER FOR CARRYING OUT A JOB CONTROLLED BY SAID CLUSTER**
[54] **PROCEDE, PROGRAMME D'ORDINATEUR ET DISPOSITIF D'ALLOCATION DE RESSOURCES INFORMATIQUES D'UN CLUSTER POUR L'EXECUTION D'UN TRAVAIL SOUMIS AUDIT CLUSTER**
[72] GERPHAGNON, JEAN-OLIVIER, FR
[72] MILLE-REY, FRANCOISE, FR
[72] MARCHAND, CORINE, FR
[73] BULL SAS, FR
[85] 2014-04-15
[86] 2012-10-15 (PCT/FR2012/052342)
[87] (WO2013/068662)
[30] FR (1160173) 2011-11-08

[11] **2,852,590**
[13] C

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[54] **SECURITY ELEMENT**
[54] **ELEMENT DE SECURITE**
[72] TOMPKIN, WAYNE ROBERT, CH
[72] WALTER, HARALD, CH
[72] KULIKOVSKA, OLGA, DE
[72] FISCHER, JORG, DE
[72] LEOPOLD, ANDRE, DE
[73] OVD KINEGRAM AG, CH
[73] BUNDESDRUCKEREI GMBH, DE
[85] 2014-04-16
[86] 2012-10-26 (PCT/EP2012/071315)
[87] (WO2013/060877)
[30] DE (10 2011 117 044.1) 2011-10-27

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[25] EN

[54] **ABLATION AND TEMPERATURE MEASUREMENT DEVICES**

[54] **DISPOSITIFS D'ABLATION ET DE MESURE DE LA TEMPERATURE**

[72] FLAHERTY, J. CHRISTOPHER, US

[72] GARIBOTTO, JOHN T., US

[72] FLAHERTY, R. MAXWELL, US

[72] GORMAN, WILLIAM J., US

[73] SECURUS MEDICAL GROUP, INC., US

[85] 2014-04-16

[86] 2011-11-22 (PCT/US2011/061802)

[87] (WO2012/071388)

[30] US (61/417,416) 2010-11-27

[11] **2,853,013**
[13] C

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[25] EN

[54] **USE OF AN ALBUMIN TO STABILIZE CHLORIN E6 IN AQUEOUS SOLUTION**

[54] **COMPOSITION UTILISEE POUR LE DIAGNOSTIC ET LA THERAPIE PHOTODYNAMIQUES DE TUMEURS**

[72] HUTTENBERGER, DIRK, DE

[72] HAUPT, MANFRED, DE

[73] APOCARE PHARMA GMBH, DE

[85] 2014-04-22

[86] 2012-11-07 (PCT/EP2012/072039)

[87] (WO2013/068405)

[30] EP (11188495.3) 2011-11-09

[11] **2,853,053**
[13] C

[51] **Int.Cl. C12P 7/46 (2006.01) C12P 7/54 (2006.01) C12P 7/56 (2006.01)**

[25] EN

[54] **PROCESS FOR THE CONVERSION OF LIGNOCELLULOSE MATERIAL INTO AN ORGANIC ACID**

[54] **PROCEDE POUR LA CONVERSION DE MATERIAU LIGNOCELLULOSIQUE EN ACIDE ORGANIQUE**

[72] SANDERS, JOHAN PIETER MARINUS, NL

[72] BAKKER, ROBERT REURD CHRISTOPHOR, NL

[73] PURAC BIOCHEM B.V., NL

[85] 2014-04-17

[86] 2012-10-23 (PCT/NL2012/050735)

[87] (WO2013/062407)

[30] EP (11186513.5) 2011-10-25

[11] **2,853,066**
[13] C

[51] **Int.Cl. E21B 17/14 (2006.01) B23G 1/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PLASTIC PIPE DRILLING**

[54] **PROCEDE ET APPAREIL POUR PERCER UN TUYAU EN PLASTIQUE**

[72] GYLLING, KAI, FI

[73] OY EPIROC DRILLING TOOLS AB, FI

[85] 2014-04-22

[86] 2012-10-30 (PCT/FI2012/051040)

[87] (WO2013/076360)

[30] FI (20116180) 2011-11-25

[11] **2,853,407**
[13] C

[51] **Int.Cl. A61K 31/7048 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **PRIMYCIN AND COMPONENTS THEREOF FOR USE IN THE TREATMENT OR PREVENTION OF INFECTIONS CAUSED BY SPECIFIC PATHOGENS**

[54] **PRIMYCINE ET SES CONSTITUANTS POUR UNE UTILISATION DESTINEE AU TRAITEMENT OU A LA PREVENTION D'INFECTIONS PROVOQUEES PAR DES PATHOGENES SPECIFIQUES**

[72] FEISZT, PETER, HU

[72] EMODY, LEVENTE, HU

[72] PALLOS, JOZSEF PETER, HU

[72] JUHASZ, AKOS, HU

[72] SEFFER, DENES, HU

[72] SEFFERNE SZALAI, MARIA, HU

[72] PENZES, AGOTA, HU

[73] PANNONPHARMA GYOGYSZERGYARTO ZRT., HU

[85] 2014-04-24

[86] 2012-10-25 (PCT/HU2012/000111)

[87] (WO2013/061101)

[30] HU (P1100597) 2011-10-25

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[13] C

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[25] EN

[54] **METHOD FOR CONTROLLING A HEAT-GENERATING ELEMENT**

[54] **PROCEDE POUR COMMANDER UN ELEMENT GENERANT DE LA CHALEUR**

[72] HESS, KRISTOFFER, CA

[72] STINSON, KELLY, CA

[73] GLEN DIMPLEX AMERICAS LIMITED, CA

[85] 2014-04-25

[86] 2012-10-31 (PCT/CA2012/001016)

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[30] US (61/553,659) 2011-10-31

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[25] EN

[54] **SYSTEM AND METHOD FOR AUGMENTED AND VIRTUAL REALITY**

[54] **SYSTEME ET PROCEDE POUR REALITE AUGMENTEE ET VIRTUELLE**

[72] MILLER, SAMUEL A., US

[73] MAGIC LEAP, INC., US

[85] 2014-04-28

[86] 2012-10-29 (PCT/US2012/062500)

[87] (WO2013/085639)

[30] US (61/552,941) 2011-10-28

[11] **2,854,137**
[13] C

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[25] EN

[54] **NON-HALOGEN FLAME RETARDANT AS COATINGS FOR FIBROUS FILTER MEDIA**

[54] **RETARDATEUR DE FLAMME NON HALOGENE COMME REVETEMENTS POUR DES MILIEUX FILTRANTS FIBREUX**

[72] LAI, JOHN TA-YUAN, US

[72] CHOU, TI, US

[73] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2014-04-30

[86] 2012-10-31 (PCT/US2012/062642)

[87] (WO2013/066908)

[30] US (61/553,468) 2011-10-31

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[25] EN

[54] **IVABRADINE HYDROCHLORIDE FORM IV**

[54] **CHLORHYDRATE D'IVABRADINE DE FORME IV**

[72] PROHENS LOPEZ, RAFEL, ES

[72] PUIGJANER VALLET, CRISTINA, ES

[72] BARBAS CANERO, RAFAEL, ES

[72] DEL RIO PERICACHO, JOSE LUIS, ES

[72] MARTI VIA, JOSEP, ES

[73] URQUIMA, S.A., ES

[85] 2014-05-05

[86] 2012-09-21 (PCT/EP2012/068615)

[87] (WO2013/064307)

[30] EP (11382339.7) 2011-11-04

[11] **2,855,890**
[13] C

[51] **Int.Cl. A61K 31/7004 (2006.01) A61K 9/00 (2006.01) A61K 33/00 (2006.01) A61K 33/06 (2006.01) A61K 33/14 (2006.01)**

[25] EN

[54] **DIALYSIS PRECURSOR COMPOSITION**

[54] **COMPOSITION DE PRECURSEUR POUR DIALYSE**

[72] JANSSON, OLOF, SE

[72] GUSTAFSSON, JENS, SE

[72] LINDEN, TORBJORN, SE

[73] GAMBRO LUNDIA AB, SE

[85] 2014-05-13

[86] 2012-12-11 (PCT/EP2012/075008)

[87] (WO2013/092284)

[30] SE (1151235-7) 2011-12-21

[30] US (61/578,250) 2011-12-21

[11] **2,855,972**
[13] C

[51] **Int.Cl. A61L 15/42 (2006.01) A61L 15/62 (2006.01)**

[25] EN

[54] **TISSUE TREATMENT SYSTEMS AND METHODS HAVING A POROUS SUBSTRATE WITH A COMPRESSED REGION AND AN EXPANDED REGION**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE TISSUS COMPRENANT UN SUBSTRAT POREUX DOTE D'UNE REGION COMPRISEE ET D'UNE REGION EXPANSEE**

[72] LOCKE, CHRISTOPHER BRIAN, GB

[72] ROBINSON, TIMOTHY MARK, GB

[73] KCI LICENSING, INC., US

[85] 2014-05-14

[86] 2012-11-15 (PCT/US2012/065342)

[87] (WO2013/074829)

[30] US (61/561,631) 2011-11-18

[11] **2,856,125**
[13] C

[51] **Int.Cl. B65H 16/10 (2006.01) B65H 19/12 (2006.01)**

[25] EN

[54] **REEL UNWINDER AND UNWINDING METHOD**

[54] **DEROULEUR DE ROULEAU ET PROCEDE DE DEROULAGE**

[72] MORELLI, ROBERTO, IT

[72] BENVENUTI, ANGELO, IT

[73] FABIO PERINI S.P.A., IT

[85] 2014-05-15

[86] 2012-11-15 (PCT/EP2012/072793)

[87] (WO2013/076011)

[30] IT (FI2011A000253) 2011-11-23

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[25] EN

[54] **WATERBORNE ANTIFOULING COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT ANTISALISSURE A BASE D'EAU**

[72] DUNFORD, GRAEME, GB

[72] ANDERSON, COLIN DUDGEON, GB

[73] AKZO NOBEL COATINGS INTERNATIONAL B.V., NL

[85] 2014-05-26

[86] 2012-09-03 (PCT/EP2012/067067)

[87] (WO2012/150360)

[30] EP (11191775.3) 2011-12-02

[30] US (61/577,758) 2011-12-20

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[51] **Int.Cl. G01F 1/684 (2006.01) G01F 1/69 (2006.01) G01F 1/696 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DETERMINING THE MASS-FLOW OF A FLUID**
[54] **DISPOSITIF ET PROCEDURE POUR LA DETERMINATION DU DEBIT MASSIQUE D'UN FLUIDE**
[72] GROHMANN, STEFFEN, DE
[73] KARLSRUHER INSTITUT FUR TECHNOLOGIE, DE
[85] 2014-05-27
[86] 2012-12-07 (PCT/EP2012/005051)
[87] (WO2013/087174)
[30] DE (10 2011 120 899.6) 2011-12-12

[11] **2,857,622**
[13] C

[51] **Int.Cl. C12N 1/19 (2006.01) A21D 2/08 (2006.01) A21D 8/04 (2006.01) C07K 14/39 (2006.01) C12N 15/09 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **YEAST HAVING RESISTANCE TO FREEZING STRESS**
[54] **LEVURE PRESENTANT UNE RESISTANCE AU STRESS DE LA CONGELATION**
[72] TAKAGI, HIROSHI, JP
[72] SASANO, YU, JP
[72] SHIMA, JUN, JP
[72] HAITANI, YUTAKA, JP
[73] NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND TECHNOLOGY, JP
[85] 2014-05-30
[86] 2012-11-20 (PCT/JP2012/080058)
[87] (WO2013/088920)
[30] JP (2011-274519) 2011-12-15

[11] **2,857,980**
[13] C

[51] **Int.Cl. A61K 47/14 (2017.01) A61K 9/00 (2006.01) A61K 47/26 (2006.01) A61K 47/28 (2006.01)**
[25] EN
[54] **DRY POWDER FORMULATION OF AZOLE DERIVATIVE FOR INHALATION**
[54] **FORMULATION DE POUDRE SECHE D'UN DERIVE D'AZOLE POUR INHALATION**
[72] VANDERBIST, FRANCIS, BE
[72] SEBTI, THAMI, BE
[72] DEBOECK, ARTHUR, US
[72] DURET, CHRISTOPHE, BE
[72] AMIGHI, KARIM, BE
[72] BAUDIER, PHILIPPE, BE
[73] LABORATOIRES SMB SA, BE
[85] 2014-06-03
[86] 2012-12-07 (PCT/EP2012/074785)
[87] (WO2013/083776)
[30] EP (11192851.1) 2011-12-09

[11] **2,857,993**
[13] C

[51] **Int.Cl. B63B 35/03 (2006.01) F16L 1/18 (2006.01) F16L 1/20 (2006.01)**
[25] EN
[54] **METHOD AND VESSEL FOR LAYING A PIPELINE**
[54] **PROCEDE ET VAISSEAU POUR LA POSE D'UN PIPELINE**
[72] BIANCHI, STEFANO, IT
[72] BRUSCHI, ROBERTO, IT
[72] LAZZARIN, DIEGO, IT
[73] SAIPEM S.P.A., IT
[85] 2014-06-03
[86] 2012-12-07 (PCT/EP2012/074805)
[87] (WO2013/083780)
[30] GB (1121118.2) 2011-12-08

[11] **2,858,594**
[13] C

[51] **Int.Cl. F16H 3/44 (2006.01) F16H 3/66 (2006.01)**
[25] EN
[54] **AUTOMATIC TRANSMISSION WITH IMPROVED GEAR ARRANGEMENT**
[54] **BOITE DE VITESSES AUTOMATIQUE MUNIE D'AGENCEMENT D'ENGRENAGE AMELIORE**
[72] ETCHASON, EDMOND M., US
[73] ALLISON TRANSMISSION, INC., US
[85] 2014-06-06
[86] 2012-12-14 (PCT/US2012/069756)
[87] (WO2013/096121)
[30] US (61/577,262) 2011-12-19

[11] **2,861,004**
[13] C

[51] **Int.Cl. C08L 67/02 (2006.01) B29C 44/34 (2006.01) C08J 9/00 (2006.01) C08J 9/14 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF PET FOAMS AND PET FOAMS OBTAINED WITH SAID PROCESS**
[54] **PROCEDE DE FABRICATION DE MOUSSES DE PET ET DES MOUSSES DE PET OBTENUES A TRAVERS UN TEL PROCEDE**
[72] LAURI, LEONE, IT
[72] BRESSAN, RAFFAELA, IT
[72] ALIPERTA, LUIGI, IT
[72] PETERSSON, EVA-LOTTA MAGDALENA, SE
[73] DIAB INTERNATIONAL AB, SE
[85] 2014-07-11
[86] 2013-01-14 (PCT/EP2013/000079)
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[30] IT (MI2012A000135) 2012-02-02

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[25] EN
[54] **VACCINES AGAINST ANTIGENS INVOLVED IN THERAPY RESISTANCE AND METHODS OF USING SAME**
[54] **VACCINS DIRIGES CONTRE DES ANTIGENES IMPLIQUES DANS LA RESISTANCE A UN TRAITEMENT ET LEURS METHODES D'UTILISATION**
[72] LYERLY, HERBERT K., US
[72] MORSE, MICHAEL A., US
[72] OSADA, TAKUYA, US
[72] CLAY, TIMOTHY, BE
[72] HARTMAN, ZACHARY C., US
[73] DUKE UNIVERSITY, US
[85] 2014-07-17
[86] 2013-01-21 (PCT/US2013/022396)
[87] (WO2013/110030)
[30] US (61/588,449) 2012-01-19

[11] **2,862,644**
[13] C

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[25] EN
[54] **GAS TURBINE ENGINE TIP CLEARANCE CONTROL**
[54] **COMMANDE DE JEU D'EXTREMITE DE TURBINE A GAZ**
[72] MORRISON, ADAM J., US
[73] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[85] 2014-06-30
[86] 2012-12-28 (PCT/US2012/072133)
[87] (WO2013/141937)
[30] US (61/581,793) 2011-12-30

[11] **2,863,374**
[13] C

- [51] **Int.Cl. C09D 11/00 (2014.01) B41J 2/01 (2006.01) B41M 5/00 (2006.01)**
[25] EN
[54] **AQUEOUS COLORING AGENT DISPERSION FOR INKJET, INK COMPOSITION, INKJET RECORDING METHOD, AND COLORED BODY**
[54] **DISPERSION D'AGENT COLORANT AQUEUX DESTINEE AU JET D'ENCRE, COMPOSITION D'ENCRE, METHODE D'ENREGISTREMENT DE JET D'ENCRE ET CORPS COLORE**
[72] KAWAGUCHI, AKIRA, JP
[72] KUWAHARA, AKIO, JP
[73] NIPPON KAYAKU KABUSHIKI KAISHA, JP
[85] 2014-07-30
[86] 2013-01-24 (PCT/JP2013/051507)
[87] (WO2013/115071)
[30] JP (2012-020620) 2012-02-02

[11] **2,863,572**
[13] C

- [51] **Int.Cl. A61K 31/407 (2006.01) A61P 21/02 (2006.01)**
[25] EN
[54] **(1R,4R)-6'-FLUORO-(N-METHYL-OR N,N-DIMETHYL-)-4-PHENYL-4',9'-DIHYDRO-3'H-SPIRO-[CYCLOHEXANE-1,1'-PYRANO[3,4,B]INDOL]-4-AMINE FOR TREATING FIBROMYALGIA AND CHRONIC FATIGUE SYNDROME**
[54] **(1R,4R)-6'-FLUORO-(N-METHYLE-OU N,N-DIMETHYLE-)-4-PHENYLE-4',9'-DIHYDRO-3'H-SPIRO-[CYCLOHEXANE-1,1'-PYRANO[3,4,B]INDOL]-4-AMINE UTILISE DANS LE TRAITEMENT DE LA FIBROMYALGIE ET DU SYNDROME DE LA FATIGUE CHRONIQUE**
[72] FROSCHE, STEFANIE, DE
[72] LINZ, KLAUS, DE
[72] BLOMS-FUNKE, PETRA, DE
[73] GRUNENTHAL GMBH, DE
[85] 2014-08-01
[86] 2013-02-01 (PCT/EP2013/051979)
[87] (WO2013/113857)
[30] EP (12000743.0) 2012-02-03

[11] **2,864,535**
[13] C

- [51] **Int.Cl. H04W 12/06 (2009.01) H04W 4/12 (2009.01) H04W 12/04 (2009.01)**
[25] EN
[54] **CREDENTIAL MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE JUSTIFICATIF D'IDENTITE**
[72] NEAFSEY, JEFFREY S., US
[72] VITALI, ROCCO, IT
[72] ANDRINI, ALBERTO, IT
[73] SCHLAGE LOCK COMPANY LLC, US
[85] 2014-08-13
[86] 2013-02-13 (PCT/US2013/025973)
[87] (WO2013/123079)
[30] US (61/598,219) 2012-02-13

[11] **2,864,682**
[13] C

- [51] **Int.Cl. F03D 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AIRBORNE WIND ENERGY PRODUCTION**
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'ENERGIE A PARTIR DU VENT EN VOL**
[72] RUITERKAMP, RICHARD, NL
[73] AMPYX POWER B.V., NL
[85] 2014-08-14
[86] 2013-02-19 (PCT/EP2013/000478)
[87] (WO2013/127499)
[30] EP (12 157 057.6-2321) 2012-02-27

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[13] C

[51] **Int.Cl. F24F 11/46 (2018.01) F24F 11/62 (2018.01)**
[25] EN
[54] **IMPROVED EFFICIENCY HEATING, VENTILATING, AND AIR-CONDITIONING THROUGH EXTENDED RUN-TIME CONTROL**
[54] **CHAUFFAGE, VENTILATION ET CLIMATISATION DONT L'EFFICACITE A ETE AMELIOREE PAR LE BIAIS D'UNE COMMANDE A DUREE D'EXECUTION ETENDUE**
[72] CHILDS, JOSEPH E., US
[72] ROGNLI, ROGER W., US
[72] COX, ROBERT J., US
[72] SIMONSON, BROCK, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2014-08-18
[86] 2013-02-13 (PCT/US2013/025823)
[87] (WO2013/130264)
[30] US (13/407,343) 2012-02-28

[11] **2,865,116**
[13] C

[51] **Int.Cl. E06B 9/50 (2006.01) E06B 9/72 (2006.01)**
[25] EN
[54] **ROLLER TUBE**
[54] **TUBE ROTATIF**
[72] BARNES, ANTONY, GB
[72] GREENING, ANDREW, GB
[73] LOUVER-LITE LIMITED, GB
[85] 2014-08-20
[86] 2013-02-25 (PCT/GB2013/050467)
[87] (WO2013/124692)
[30] GB (1203153.0) 2012-02-23

[11] **2,865,404**
[13] C

[51] **Int.Cl. C12N 15/13 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **DLL3-BINDING ANTIBODIES AND DRUG CONJUGATES THEREOF TO TREAT CANCER**
[54] **ANTICORPS LIANT DLL3 ET CONJUGUES DE MEDICAMENTS ASSOCIES SERVANT AU TRAITEMENT DU CANCER**
[72] STULL, ROBERT A., US
[72] SAUNDERS, LAURA, US
[72] DYLLA, SCOTT J., US
[72] FOORD, ORIT, US
[72] LIU, DAVID, US
[72] TORGOV, MICHAEL, US
[72] SHAO, HUI, US
[73] ABBVIE STEMCENTRX LLC, US
[85] 2014-08-22
[86] 2013-02-22 (PCT/US2013/027391)
[87] (WO2013/126746)
[30] US (61/603,173) 2012-02-24
[30] US (61/719,803) 2012-10-29

[11] **2,866,211**
[13] C

[51] **Int.Cl. F04B 37/02 (2006.01) F04B 37/14 (2006.01) F04B 41/06 (2006.01) F04C 23/00 (2006.01) F04D 19/04 (2006.01)**
[25] FR
[54] **IMPROVED PUMPING UNIT AND METHOD FOR CONTROLLING SUCH A PUMPING UNIT**
[54] **INSTALLATION DE POMPAGE AMELIOREE ET LE PROCEDE DE CONTROLE D'UNE TELLE INSTALLATION DE POMPAGE**
[72] ALERS, PAUL, CH
[73] ATELIERS BUSCH SA, CH
[85] 2014-09-03
[86] 2013-03-05 (PCT/EP2013/054396)
[87] (WO2013/131911)
[30] CH (00285/12) 2012-03-05

[11] **2,866,363**
[13] C

[51] **Int.Cl. H04L 1/18 (2006.01) H04L 27/26 (2006.01)**
[25] EN
[54] **HARQ-ACK SIGNAL TRANSMISSION IN RESPONSE TO DETECTION OF CONTROL CHANNEL TYPE IN CASE OF MULTIPLE CONTROL CHANNEL TYPES**
[54] **TRANSMISSION DE SIGNAL HARQ-ACK EN REPONSE A LA DETECTION D'UN TYPE DE CANAL DE COMMANDE DANS LE CAS OU IL EXISTE UNE PLURALITE DE TYPES DE CANAL DE COMMANDE**
[72] PAPASAKELLARIOU, ARIS, US
[72] CHO, JOON-YOUNG, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2014-09-04
[86] 2013-03-05 (PCT/KR2013/001777)
[87] (WO2013/133611)
[30] US (61/606,772) 2012-03-05
[30] US (61/675,518) 2012-07-25
[30] US (61/684,997) 2012-08-20
[30] US (61/717,998) 2012-10-24

[11] **2,867,072**
[13] C

[51] **Int.Cl. E01H 5/06 (2006.01) E01H 5/09 (2006.01)**
[25] EN
[54] **APPARATUS FOR REMOVING UNWANTED MATERIAL FROM THE GROUND**
[54] **APPAREIL D'ELIMINATION DE MATERIAU INDESIRABLE AU SOL**
[72] MCADAM, JIM, IE
[72] MCHUGH, GERRY, IE
[73] MULTIHOOG R & D LIMITED, IE
[85] 2014-09-11
[86] 2012-03-16 (PCT/EP2012/054740)
[87] (WO2013/135309)

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[25] EN

[54] **HUMAN ANTI-CD27 ANTIBODIES, METHODS, AND USES**

[54] **ANTICORPS ANTI-CD27 HUMAINS, LEURS PROCÉDES ET LEURS UTILISATIONS**

[72] CHEN, JOHN, US

[72] FRANSSON, JOHAN, US

[72] FURSOV, NATALIE, US

[72] HAMEL, DAMON, US

[72] MALIA, THOMAS, US

[72] OBMOLOVA, GALINA, US

[72] ORT, TATIANA, US

[72] RYCYZYN, MICHAEL, US

[72] SCULLY, MICHAEL, US

[72] SWEET, RAYMOND, US

[72] TEPLYAKOV, ALEXEY, US

[72] WHEELER, JOHN, US

[72] ALMAGRO, JUAN CARLOS, US

[73] JANSSEN BIOTECH, INC., US

[85] 2014-09-12

[86] 2013-03-14 (PCT/US2013/031314)

[87] (WO2013/138586)

[30] US (61/611,332) 2012-03-15

[11] **2,867,437**
[13] C

[51] **Int.Cl. A47L 13/144 (2006.01) A47L 13/20 (2006.01) A47L 13/24 (2006.01) A47L 13/58 (2006.01)**

[25] EN

[54] **A CLEANING APPARATUS, A METHOD OF CLEANING, AND A RETROFITTING METHOD**

[54] **APPAREIL DE NETTOYAGE, PROCÉDE DE NETTOYAGE ET PROCÉDE DE MONTAGE EN POST-EQUIPEMENT**

[72] YOUNG, RONALD ALEXANDER (SCOT), GB

[73] SCOT YOUNG RESEARCH LIMITED, GB

[85] 2014-09-15

[86] 2013-03-14 (PCT/GB2013/050639)

[87] (WO2013/136079)

[30] GB (1204694.2) 2012-03-16

[11] **2,867,513**
[13] C

[51] **Int.Cl. B01F 7/00 (2006.01) B01F 7/06 (2006.01) C02F 3/12 (2006.01)**

[25] EN

[54] **HORIZONTAL AGITATOR**

[54] **AGITATEUR HORIZONTAL**

[72] HOFKEN, MARCUS, DE

[72] HAGSPIEL, THOMAS, DE

[73] INVENT UMWELT- UND VERFAHRENSTECHNIK AG, DE

[85] 2014-09-16

[86] 2013-03-20 (PCT/EP2013/055838)

[87] (WO2013/149834)

[30] DE (10 2012 205 579.7) 2012-04-04

[11] **2,867,612**
[13] C

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 23/10 (2006.01) B65D 79/00 (2006.01)**

[25] EN

[54] **ASYMMETRIC PRESSURIZED PLASTIC CONTAINER**

[54] **RECIPIENT EN PLASTIQUE SOUS PRESSION ASYMETRIQUE**

[72] HEISNER, DAVID B., US

[72] YOURIST, SHELDON E., US

[72] OSGOOD, J. ANDREW, US

[72] PICCIOLI, DAVID P., US

[73] GRAHAM PACKAGING COMPANY, L.P., US

[85] 2014-09-16

[86] 2013-03-15 (PCT/US2013/032342)

[87] (WO2013/138762)

[30] US (13/423,151) 2012-03-16

[11] **2,868,218**
[13] C

[51] **Int.Cl. G02B 6/255 (2006.01)**

[25] EN

[54] **PROTECTED SPLICE**

[54] **EPISSURE PROTEGEE**

[72] FAULKNER, MICHAEL TODD, US

[72] NIELSEN, LARS KRISTIAN, US

[73] CORNING OPTICAL COMMUNICATIONS LLC, US

[85] 2014-09-22

[86] 2013-03-22 (PCT/US2013/033477)

[87] (WO2013/142779)

[30] US (61/614,839) 2012-03-23

[30] US (13/491,086) 2012-06-07

[11] **2,869,656**
[13] C

[51] **Int.Cl. C02F 3/12 (2006.01) C02F 3/10 (2006.01)**

[25] EN

[54] **HYBRID WASTEWATER TREATMENT**

[54] **TRAITEMENT HYBRIDE DES EAUX USEES**

[72] PEETERS, TOM WIL THEO, NL

[73] HASKONINGDHV NEDERLAND B.V., NL

[85] 2014-10-03

[86] 2013-04-03 (PCT/NL2013/050247)

[87] (WO2013/151434)

[30] NL (2008598) 2012-04-03

[11] **2,870,220**
[13] C

[51] **Int.Cl. B01F 7/00 (2006.01) B01F 13/10 (2006.01) C12M 1/00 (2006.01) C12N 1/06 (2006.01) G01N 1/38 (2006.01)**

[25] EN

[54] **FLUIDICALLY INTEGRATED ROTARY BEAD BEATER**

[54] **BROYEUR A BILLES ROTATIF INTEGRE DE MANIERE FLUIDIQUE**

[72] CARRERA FABRA, JORDI, ES

[72] COMENGENS CASAS, ANNA, ES

[72] MARTIN BLANCO, RICARD, ES

[72] BRU GIBERT, RAFAEL, ES

[73] STAT-DIAGNOSTICA & INNOVATION, S.L., ES

[85] 2014-10-10

[86] 2013-04-11 (PCT/EP2013/057625)

[87] (WO2013/153176)

[30] US (61/622,858) 2012-04-11

[30] US (13/836,741) 2013-03-15

[11] **2,870,519**
[13] C

[51] **Int.Cl. A61B 17/68 (2006.01) A61B 17/84 (2006.01)**

[25] EN

[54] **CABLE TIE L-PIN**

[54] **VIS EN L POUR LIGATURE DE CABLE**

[72] NARDINI, RETO, CH

[72] SCHMIDL, DIETER, CH

[72] LAENG, BRUNO, CH

[73] DEPUY SYNTHES PRODUCTS, INC., US

[85] 2014-10-10

[86] 2012-03-01 (PCT/US2012/027264)

[87] (WO2012/141813)

[30] US (61/475,044) 2011-04-13

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[11] **2,871,168**
[13] C

[51] **Int.Cl. D03D 11/02 (2006.01) D03D 25/00 (2006.01) F01D 5/28 (2006.01)**

[25] FR

[54] **FIBROUS BLANK WOVEN IN ONE PIECE BY THREE-DIMENSIONAL WEAVING FOR PRODUCING A PLATFORM WITH A CLOSED BOX STRUCTURE FOR A TURBOMACHINE FAN MADE OF COMPOSITE MATERIAL**

[54] **EBAUCHE FIBREUSE TISSEE EN UNE SEULE PIECE PAR TISSAGE TRIDIMENSIONNEL POUR LA REALISATION D'UNE PLATE-FORME A CAISSON FERME POUR SOUFFLANTE DE TURBOMACHINE EN MATERIAU COMPOSITE**

[72] MARCHAL, YANN, FR
[72] GIMAT, MATTHIEU, FR
[72] COUPE, DOMINIQUE, US
[72] DAMBRINE, BRUNO, FR
[73] SNECMA, FR
[85] 2014-10-22
[86] 2013-04-17 (PCT/FR2013/050841)
[87] (WO2013/160584)
[30] FR (1253881) 2012-04-26

[11] **2,871,724**
[13] C

[51] **Int.Cl. C07C 273/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR THE PRODUCTION OF UREA FROM AMMONIA AND CARBON DIOXIDE**

[54] **PROCEDE ET APPAREIL DE PRODUCTION D'UREE A PARTIR D'AMMONIAC ET DE DIOXYDE DE CARBONE**

[72] VAN DEN TILLAART, JOHAN ALBERT ARNO, NL
[72] MEESEN, JOZEF HUBERT, NL
[73] STAMICARBON B.V., NL
[85] 2014-10-27
[86] 2013-05-02 (PCT/NL2013/050330)
[87] (WO2013/165246)
[30] EP (12166579.8) 2012-05-03

[11] **2,873,980**
[13] C

[51] **Int.Cl. F21V 5/00 (2018.01) F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21V 5/04 (2006.01)**

[25] EN

[54] **BEACON LIGHT HAVING A LENS**

[54] **PHARE AYANT UNE LENTILLE**

[72] SHUMATE, CHRISTOPHER, US
[72] DURYEY, DAVID, US
[72] MCDADE, NIMROD, III, US
[72] BRUNER, RUSSELL, US
[72] KAM, HANDANI, US
[72] RANGE, CHRISTOPHER, US
[73] SPX CORPORATION, US
[85] 2014-11-17
[86] 2013-07-11 (PCT/US2013/050068)
[87] (WO2014/011873)
[30] US (61/670,786) 2012-07-12
[30] US (61/691,968) 2012-08-22

[11] **2,874,930**
[13] C

[51] **Int.Cl. H01M 8/0258 (2016.01) H01M 8/2425 (2016.01) H01M 8/2465 (2016.01) C25B 9/18 (2006.01) C25B 13/02 (2006.01)**

[25] EN

[54] **SOLID OXIDE FUEL CELL OR SOLID OXIDE ELECTROLYZING CELL AND METHOD FOR OPERATING SUCH A CELL**

[54] **PILE A COMBUSTIBLE A OXYDE SOLIDE OU CELLULE D'ELECTROLYSE A OXYDE SOLIDE ET PROCEDE D'UTILISATION D'UNE TELLE CELLULE**

[72] WUILLEMIN, ZACHARIE, CH
[73] HTCERAMIX S.A., CH
[85] 2014-11-27
[86] 2013-06-11 (PCT/EP2013/062051)
[87] (WO2013/186222)
[30] EP (12171565.0) 2012-06-11

[11] **2,875,313**
[13] C

[51] **Int.Cl. G05D 1/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MANOEUVRING A MOBILE MINING MACHINE IN A TUNNEL AND A MOBILE MINING MACHINE.**

[54] **PROCEDE ET SYSTEME POUR MAN-UVRER UNE MACHINE MOBILE D'EXPLOITATION MINIERE DANS UN TUNNEL ET MACHINE MOBILE D'EXPLOITATION MINIERE.**

[72] MULLER, CHRISTOPH, DE
[72] BIRO, GEORGE, DE
[73] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2014-10-23
[86] 2013-04-25 (PCT/SE2013/050461)
[87] (WO2013/165303)
[30] SE (1250435-3) 2012-05-02

[11] **2,875,596**
[13] C

[51] **Int.Cl. B03C 3/70 (2006.01) B03C 3/34 (2006.01) F23J 15/00 (2006.01)**

[25] EN

[54] **ARRANGEMENT AND METHOD IN ELECTRIC FILTER**

[54] **AGENCEMENT ET PROCEDE DANS FILTRE ELECTRIQUE**

[72] TOLVANEN, JUHA, FI
[73] VALMET TECHNOLOGIES OY, FI
[85] 2014-12-03
[86] 2013-06-26 (PCT/FI2013/050700)
[87] (WO2014/001638)
[30] FI (20125741) 2012-06-28

[11] **2,876,892**
[13] C

[51] **Int.Cl. E05F 11/08 (2006.01) E05F 15/611 (2015.01) E05F 11/16 (2006.01)**

[25] EN

[54] **ADJUSTABLE OPERATOR WORM GEAR DRIVE WITH ROBUST BEARING SURFACES**

[54] **ENTRAINEMENT PAR VIS SANS FIN A COMMANDE REGLABLE MUNIE DE SURFACES DE PALIER ROBUSTES**

[72] MINTER, PETER J., US
[72] FULLENWIDER, MARC W., US
[73] INTERLOCK USA, INC., US
[86] (2876892)
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[22] 2015-01-07
[30] US (14/149,000) 2014-01-07

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[11] **2,877,223**
[13] C

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[25] EN
[54] **METHODS OF GENERATING MESENCHYMAL STEM CELLS WHICH SECRETE NEUROTROPHIC FACTORS**
[54] **PROCEDES DE GENERATION DE CELLULES SOUCHES MESECHYMATEUSES QUI SECRETEENT DES FACTEURS NEUROTROPHIQUES**
[72] GOTHELF, YAEL, IL
[72] LEVY, YOSEF, IL
[72] BURSHTEIN, ALEX, IL
[73] BRAINSTORM CELL THERAPEUTICS LTD., IL
[85] 2014-12-18
[86] 2013-08-04 (PCT/IL2013/050660)
[87] (WO2014/024183)
[30] US (61/679,822) 2012-08-06

[11] **2,878,002**
[13] C

[51] **Int.Cl. G06F 16/953 (2019.01) G06F 3/0484 (2013.01)**
[25] EN
[54] **CONTEXT-BASED OBJECT RETRIEVAL IN A SOCIAL NETWORKING SYSTEM**
[54] **RECUPERATION D'OBJETS BASEE SUR UN CONTEXTE DANS UN SYSTEME DE RESEAUTAGE SOCIAL**
[72] MARLOW, CAMERON ALEXANDER, US
[72] CATHCART, ROBERT WILLIAM, US
[72] DUNN, JEFFREY SCOTT, US
[72] SAGULA, RAFAEL LINDEN, US
[72] NANDAGOPAL, VENKATARAMANAN IYER, US
[72] KAR, SIDDHARTH, US
[72] SUN, ERIC, US
[73] FACEBOOK, INC., US
[85] 2014-12-23
[86] 2013-07-17 (PCT/US2013/050926)
[87] (WO2014/015059)
[30] US (13/553,760) 2012-07-19

[11] **2,878,827**
[13] C

[51] **Int.Cl. F04D 29/32 (2006.01) F01D 5/14 (2006.01) F04D 29/38 (2006.01)**
[25] FR
[54] **TURBOMACHINE VANE HAVING AN AIRFOIL DESIGNED TO PROVIDE IMPROVED AERODYNAMIC AND MECHANICAL PROPERTIES.**
[54] **AUBE DE TURBOMACHINE AYANT UN PROFIL CONFIGURE DE MANIERE A OBTENIR DES PROPRIETES AERODYNAMIQUES ET MECANIQUES AMELIOREES.**
[72] JABLONSKI, LAURENT, FR
[72] REISS, HANNA, FR
[72] TALBOTEC, JEROME, FR
[72] QUEVREUX, SANDRINE, FR
[73] SNECMA, FR
[85] 2015-01-09
[86] 2013-06-28 (PCT/FR2013/051522)
[87] (WO2014/009628)
[30] FR (1256746) 2012-07-12

[11] **2,880,694**
[13] C

[51] **Int.Cl. G08B 29/00 (2006.01) H04W 4/00 (2018.01) H04W 12/06 (2009.01) G08B 13/00 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM OF INTERACTING WITH BUILDING SECURITY SYSTEMS**
[54] **METHODE ET SYSTEME D'INTERACTION AVEC LES SYSTEMES DE SECURITE DE BATIMENT**
[72] KRISHNAN, VISWANATHAN CHATAPURAM, US
[72] MUNIYASAMY, SAKKARAVARTHY, US
[72] DHARMALINGAM, VINOTH, US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (2880694)
[87] (2880694)
[22] 2015-01-27
[30] US (14/173.960) 2014-02-06

[11] **2,881,615**
[13] C

[51] **Int.Cl. F01D 25/00 (2006.01) B08B 9/00 (2006.01) F02C 7/30 (2006.01) H05H 1/00 (2006.01)**
[25] FR
[54] **TOOL FOR DEGRITTING A TURBOMACHINE**
[54] **OUTILLAGE POUR LE DESSABLAGE D'UNE TURBOMACHINE**
[72] DERRIEN, GERARD, FR
[72] WILK, SEBASTIEN, FR
[73] SNECMA, FR
[85] 2015-02-09
[86] 2013-08-05 (PCT/FR2013/051884)
[87] (WO2014/027157)
[30] FR (1257808) 2012-08-14

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[11] **2,881,958**
[13] C

[51] **Int.Cl. C07D 498/08 (2006.01) A61K 31/395 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS CONTAINING 3-(4-CINNAMYL-1-PIPERAZINYL) AMINO DERIVATIVES OF 3-FORMYLRIFAMYCIN SV AND 3-FORMYLRIFAMYCIN S AND A PROCESS OF THEIR PREPARATION**
[54] **FORMULATIONS PHARMACEUTIQUES CONTENANT DES DERIVES 3-(4-CINNAMYL-L-PIPERAZINYL)AMINO DE 3-FORMYLRIFAMYCINE SV ET DE 3-FORMYLRIFAMYCINE S ET UN PROCEDE POUR LEUR PREPARATION**
[72] NINOV, KIRIL ASENOV, BG
[72] STEFANOVA, EVTIMIA IVANOVA, BG
[72] KOYTCHEV, ROSSEN KRUMOV, DE
[72] KONSTANTINOVA, RUMYANA GUEORGUIEVA (DECEASED), BG
[72] APOSTOLOVA-DIMOVA, VELICHKA ILIEVA, BG
[73] ADIPHARM EAD, BG
[73] NINOV, KIRIL ASENOV, BG
[73] STEFANOVA, EVTIMIA IVANOVA, BG
[73] KOYTCHEV, ROSSEN KRUMOV, DE
[73] DITCHEV CONSULTING OOD, BG
[73] FUDULOV, BOZHIDAR LYUBENOV, BG
[73] FUDULOV, LYIBOMIR BOZHIDAROV, BG
[73] APOSTOLOVA-DIMOVA, VELICHKA ILIEVA, BG
[85] 2015-02-13
[86] 2013-08-09 (PCT/BG2013/000041)
[87] (WO2014/026254)
[30] BG (111288) 2012-08-13

[11] **2,882,518**
[13] C

[51] **Int.Cl. B67D 1/04 (2006.01) B67D 7/36 (2010.01) B67D 7/42 (2010.01) B67D 7/72 (2010.01) B67D 7/74 (2010.01) B67D 7/80 (2010.01) B67D 1/08 (2006.01) G01F 22/02 (2006.01) G01D 5/32 (2006.01)**
[25] EN
[54] **LIQUID FOOD DISPENSER SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DISTRIBUTION DE NOURRITURES LIQUIDES**
[72] DOELMAN, TIMOTHY PETER, US
[72] BAXTER, VINCENT A., US
[73] FAIR OAKS FARMS BRANDS, INC., US
[86] (2882518)
[87] (2882518)
[22] 2007-07-06
[62] 2,656,708
[30] US (60/819,178) 2006-07-07
[30] US (60/912,626) 2007-04-18

[11] **2,882,562**
[13] C

[51] **Int.Cl. C07K 16/44 (2006.01) C12N 5/16 (2006.01) C12P 21/08 (2006.01) G01N 33/577 (2006.01) G01N 33/94 (2006.01)**
[25] EN
[54] **ANTIBODIES TO ARIPIRAZOLE AND USE THEREOF**
[54] **ANTICORPS DIRIGES CONTRE L'ARIPIRAZOLE ET LEUR UTILISATION**
[72] HRYHORENKO, ERIC, US
[72] SANKARAN, BANUMATHI, US
[72] DECORY, THOMAS R., US
[72] TUBBS, THERESA, US
[72] COLT, LINDA, US
[72] REMMERIE, BART M., BE
[72] SALTER, RHYS, US
[72] LIN, RONGHUI, US
[73] JANSSEN PHARMACEUTICA NV, BE
[85] 2015-02-19
[86] 2013-08-20 (PCT/US2013/055787)
[87] (WO2014/031640)
[30] US (61/691,522) 2012-08-21

[11] **2,883,243**
[13] C

[51] **Int.Cl. E21B 7/00 (2006.01) E21B 44/00 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING DRILLING EVENTS USING AN OPTO-ANALYTICAL DEVICE**
[54] **SYSTEME ET PROCEDE POUR DETECTER DES EVENEMENTS DE FORAGE AU MOYEN D'UN DISPOSITIF OPTO-ANALYTIQUE**
[72] PELLETIER, MICHAEL T., US
[72] FREESE, ROBERT P., US
[72] WEAVER, GARY E., US
[72] CHEN, SHILIN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2015-02-25
[86] 2012-08-31 (PCT/US2012/053463)
[87] (WO2014/035422)

[11] **2,883,692**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **NUCLEOTIDES AND PRIMERS WITH REMOVABLE BLOCKING GROUPS**
[54] **NUCLEOTIDES ET AMORCES COMPRENANT DES GROUPES BLOQUEURS ELIMINABLES**
[72] CHEN, CHENG-YAO, US
[72] PADMABANDU, GOTHAMI, US
[73] ILLUMINA, INC., US
[85] 2015-02-26
[86] 2013-08-15 (PCT/US2013/055065)
[87] (WO2014/039225)
[30] US (61/697,669) 2012-09-06

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[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/0797 (2010.01) C12N 15/12 (2006.01) C12N 15/85 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **METHOD FOR PROLIFERATING STEM CELLS BY ACTIVATING NOTCH SIGNALING**

[54] **PROCEDE DE PROLIFERATION DE CELLULES SOUCHES PAR LE BIAIS DE L'ACTIVATION DE LA SIGNALISATION DES C-MET/HGF ET DE LA SIGNALISATION NOTCH**

[72] NAM, DO HYUN, KR
[72] HONG, SEUNG CHYUL, KR
[72] KANG, BONG GU, KR
[72] JOO, KYEUNG MIN, KR
[73] SAMSUNG LIFE PUBLIC WELFARE FOUNDATION, KR

[86] (2883922)
[87] (2883922)
[22] 2011-02-01
[62] 2,788,133
[30] KR (10-2010-0010117) 2010-02-03
[30] KR (10-2010-0010116) 2010-02-03

[11] **2,885,586**
[13] C

[51] **Int.Cl. B65D 77/04 (2006.01)**

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[54] **PALLET CONTAINER**

[54] **CUVE-PALETTE**

[72] WEYRAUCH, DETLEV, DE
[72] BISCHOFF, SEBASTIAN, DE
[73] MAUSER-WERKE GMBH, DE

[85] 2015-03-19
[86] 2013-09-13 (PCT/EP2013/002753)
[87] (WO2014/044372)
[30] DE (20 2012 009 327.4) 2012-09-21
[30] DE (20 2013 000 624.2) 2013-01-18

[11] **2,885,607**
[13] C

[51] **Int.Cl. B26B 21/40 (2006.01) B26B 21/52 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR THE MANUFACTURE OF A RAZOR CARTRIDGE**

[54] **PROCEDE ET SYSTEME POUR LA FABRICATION D'UNE CARTOUCHE DE RASOIR**

[72] DAVOS, VASILEIOS, GR
[72] KOULOURIAS, GEORGIOS, GR
[72] POLYCHRONIDIS, PETROS, GR
[73] BIC-VIOLEX SA, GR

[85] 2015-03-19
[86] 2012-09-26 (PCT/EP2012/068956)
[87] (WO2014/048460)

[11] **2,888,181**
[13] C

[51] **Int.Cl. H04B 3/46 (2015.01) H04N 17/00 (2006.01)**

[25] EN

[54] **MICROREFLECTION DELAY ESTIMATION IN A CATV NETWORK**

[54] **ESTIMATION DE RETARD DE MICRO REFLEXION DANS UN RESEAU DE TELEVISION PAR CABLE**

[72] THOMPSON, ROBERT J., US
[72] MORAN, JOHN L., US
[72] FOWLER, MARK L., US
[73] ARRIS ENTERPRISES LLC, US

[86] (2888181)
[87] (2888181)
[22] 2015-04-16
[30] US (14/261,967) 2014-04-25

[11] **2,889,219**
[13] C

[51] **Int.Cl. C07D 233/34 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **UREA-DERIVED PRODUCTS AND METHODS FOR MAKING SAME**

[54] **PRODUITS DERIVES DE L'UREE ET LEURS PROCEDES DE FABRICATION**

[72] THOMAS, JACQUELINE BESINAIZ, US
[72] HEINZMAN, STEPHEN WAYNE, US
[72] GORDON, GREGORY CHARLES, US
[72] WINCHESTER, JAMES CYRUS, III, US

[72] OAKLEY, ROY LEE, JR., US
[73] THE PROCTER & GAMBLE COMPANY, US

[85] 2015-04-22
[86] 2013-10-24 (PCT/US2013/066518)
[87] (WO2014/066583)
[30] US (13/661,706) 2012-10-26

[11] **2,890,970**
[13] C

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/19 (2006.01) A61K 8/36 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS COMPRISING CALCIUM CARBONATE AND A PRESERVATIVE SYSTEM BASED ON BENZYL ALCOHOL OR BENZOIC ACID, AND AN ALKYLENE GLYCOL**

[54] **COMPOSITIONS D'HYGIENE BUCCALE COMPRENANT DU CARBONATE DE CALCIUM ET UN SYSTEME DE CONSERVATION A BASE D'ALCOOL BENZYLIQUE OU D'ACIDE BENZOIQUE, ET D'UN ALKYLENE GLYCOL**

[72] NESTA, JASON, US
[72] MARTINETTI, MELISSA, US
[72] CABELLY, AILEEN, US
[72] BROWN, JAMES RICHARD, US
[72] CHOPRA, SUMAN, US
[73] COLGATE-PALMOLIVE COMPANY, US

[85] 2015-05-11
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[87] (WO2014/088536)

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[13] C

[51] **Int.Cl. G01J 5/02 (2006.01)**
[25] EN
[54] **NON-CONTACT MEDICAL THERMOMETER WITH DISTANCE SENSING AND COMPENSATION**
[54] **THERMOMETRE MEDICAL SANS CONTACT AVEC DETECTION ET COMPENSATION DE DISTANCE**
[72] YILDIZYAN, ALEKSAN, US
[72] HU, JIAWEI, CN
[72] SQUIRES, CHARLES, US
[72] GORSICH, JAMES CHRISTOPHER, US
[73] KAZ EUROPE SA, CH
[85] 2015-05-14
[86] 2013-11-18 (PCT/IB2013/003130)
[87] (WO2014/076580)
[30] US (61/728,015) 2012-11-19

[11] **2,893,700**
[13] C

[51] **Int.Cl. F21V 17/10 (2006.01) A47K 13/24 (2006.01) F21S 9/02 (2006.01) F21V 33/00 (2006.01) F21K 9/00 (2016.01)**
[25] EN
[54] **TOILET NIGHT LIGHT**
[54] **VEILLEUSE DE NUIT POUR SALLE DE BAIN**
[72] VEROS, MICHAEL J., US
[72] JACOBS, GARY, US
[72] DAVIS, DEWAYNE, US
[73] DELTA FAUCET COMPANY, US
[86] (2893700)
[87] (2893700)
[22] 2015-06-08
[30] US (62/009,718) 2014-06-09

[11] **2,896,330**
[13] C

[51] **Int.Cl. B65B 5/08 (2006.01)**
[25] EN
[54] **TWO CAN PACK SLEEVE AND METHOD**
[54] **MANCHON ET PROCEDE D'EMBALLAGE DE DEUX CANETTES**
[72] BELLAMAH, STEPHEN J., US
[73] ALTRIA CLIENT SERVICES LLC, US
[85] 2015-06-23
[86] 2013-12-19 (PCT/US2013/076358)
[87] (WO2014/105597)
[30] US (61/747,639) 2012-12-31

[11] **2,900,398**
[13] C

[51] **Int.Cl. A47J 36/24 (2006.01)**
[25] EN
[54] **HEATED OR COOLED DISHWARE AND DRINKWARE**
[54] **VAISSELLE ET VERRES AVEC SYSTEME DE CHAUFFAGE OU DE REFROIDISSEMENT**
[72] ALEXANDER, CLAYTON, US
[73] EMBER TECHNOLOGIES, INC., US
[85] 2015-08-05
[86] 2014-02-27 (PCT/US2014/019130)
[87] (WO2014/158655)
[30] US (13/830,934) 2013-03-14
[30] US (14/144,283) 2013-12-30

[11] **2,900,739**
[13] C

[51] **Int.Cl. H01J 49/42 (2006.01)**
[25] EN
[54] **DEVICE ALLOWING IMPROVED REACTION MONITORING OF GAS PHASE REACTIONS IN MASS SPECTROMETERS USING AN AUTO EJECTION ION TRAP**
[54] **DISPOSITIF PERMETTANT UNE MEILLEURE SURVEILLANCE DE REACTIONS EN PHASE GAZEUSE AVEC DES SPECTROMETRES DE MASSE UTILISANT UN PIEGE A IONS A AUTO-EJECTION**
[72] BROWN, JEFFERY MARK, GB
[72] GREEN, MARTIN RAYMOND, GB
[72] PRINGLE, STEVEN DEREK, GB
[72] WILDGOOSE, JASON LEE, GB
[73] MICROMASS UK LIMITED, GB
[85] 2015-08-10
[86] 2014-02-18 (PCT/GB2014/000058)
[87] (WO2014/125247)
[30] GB (1302785.9) 2013-02-18
[30] EP (13155630.0) 2013-02-18

[11] **2,901,161**
[13] C

[51] **Int.Cl. H02G 7/12 (2006.01)**
[25] EN
[54] **ANCHORING CLAMP ON BUNDLE WIRES FOR HIGH-VOLTAGE ELECTRIC LINES AND DAMPENING SPACER PROVIDED WITH SUCH CLAMP**
[54] **PINCE D'ANCRAGE SUR CONDUCTEUR EN FAISCEAU POUR LIGNES ELECTRIQUES A HAUTE TENSION ET ENTRETOISE D'AMORTISSEMENT FOURNIE AVEC LADITE PINCE**
[72] TUFARI, ALDO, IT
[73] A. SALVI & C. S.P.A., IT
[85] 2015-08-13
[86] 2013-02-20 (PCT/IT2013/000053)
[87] (WO2014/128734)

[11] **2,902,860**
[13] C

[51] **Int.Cl. H01M 8/0637 (2016.01) H01M 8/0668 (2016.01) C01B 3/50 (2006.01) H01M 8/14 (2006.01)**
[25] EN
[54] **INTEGRATION OF MOLTEN CARBONATE FUEL CELLS IN A REFINERY SETTING**
[54] **INTEGRATION DE PILES A COMBUSTIBLE EN CARBONATE FONDU DANS UNE INSTALLATION DE RAFFINERIE**
[72] BERLOWITZ, PAUL J., US
[72] BARCKHOLTZ, TIMOTHY ANDREW, US
[72] LEE, ANITA S., US
[72] HERSHKOWITZ, FRANK, US
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2015-08-27
[86] 2014-03-13 (PCT/US2014/025208)
[87] (WO2014/151207)
[30] US (61/787,587) 2013-03-15
[30] US (61/788,628) 2013-03-15
[30] US (61/787,879) 2013-03-15
[30] US (61/787,697) 2013-03-15
[30] US (61/884,376) 2013-09-30
[30] US (61/884,545) 2013-09-30
[30] US (61/884,605) 2013-09-30
[30] US (61/884,586) 2013-09-30
[30] US (61/884,635) 2013-09-30
[30] US (61/884,565) 2013-09-30
[30] US (61/889,757) 2013-10-11

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[11] **2,903,263**
[13] C

[51] **Int.Cl. B08B 9/043 (2006.01) A61B 17/34 (2006.01) G01N 33/52 (2006.01) C12M 1/26 (2006.01) G01N 1/10 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR TESTING THE CLEANLINESS OF MEDICAL INSTRUMENTS**

[54] **DISPOSITIFS ET PROCÉDES PERMETTANT DE TESTER LA PROPRIÉTÉ D'INSTRUMENTS MÉDICAUX**

[72] MACKAY, DOUGLAS, US

[72] ESQUENET, MARC B., US

[72] ESQUENET, BERNARD E., US

[72] RUVINSKY, LEE A., US

[73] RUHOF CORPORATION, US

[85] 2015-08-31

[86] 2014-03-04 (PCT/US2014/020267)

[87] (WO2014/138043)

[30] US (61/773,419) 2013-03-06

[11] **2,905,011**
[13] C

[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 9/52 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **EXTENDED-RELEASE TOPIRAMATE CAPSULES**

[54] **CAPSULE DE TOPIRAMATE A LIBERATION LENTE**

[72] BETTERMAN, SARAH MICHELLE, US

[72] TANTRY, JAIDEV SRINIVAS, US

[72] PATRICK, LAURA MARIE, US

[73] UPSHER-SMITH LABORATORIES, LLC, US

[85] 2015-09-10

[86] 2014-01-06 (PCT/US2014/010284)

[87] (WO2014/143380)

[30] US (61/779,576) 2013-03-13

[30] US (61/788,880) 2013-03-15

[11] **2,907,479**
[13] C

[51] **Int.Cl. C08F 2/22 (2006.01) C08F 265/04 (2006.01) C08L 51/00 (2006.01)**

[25] EN

[54] **TRANSPARENT ARTICLES FROM GRAFT COPOLYMERS OF PVC**

[54] **ARTICLE TRANSPARENT A BASE DE COPOLYMERES GREFFES DE PVC**

[72] BRIZZOLARA, DAVIDE, DE

[72] FISCHER, INGO, DE

[72] GEHRKE, JAN-STEPHAN, DE

[72] POLTE, DIETER, DE

[72] STIENEKER, AXEL, DE

[72] STURM, HARALD, DE

[73] VESTOLIT GMBH & CO. KG, DE

[85] 2015-09-17

[86] 2013-02-11 (PCT/EP2013/052655)

[87] (WO2014/121850)

[11] **2,908,986**
[13] C

[51] **Int.Cl. A61B 5/087 (2006.01) A61B 5/08 (2006.01) A61M 16/00 (2006.01)**

[25] EN

[54] **POSITIVE AIRWAY PRESSURE SYSTEM AND METHOD FOR TREATMENT OF SLEEPING DISORDER IN PATIENT**

[54] **SYSTEME DE PRESSION POSITIVE SUR LES VOIES AERIENNES ET METHODE DE TRAITEMENT D'UN TROUBLE DU SOMMEIL CHEZ UN PATIENT**

[72] RAPOPORT, DAVID M., US

[72] NORMAN, ROBERT G., US

[73] NEW YORK UNIVERSITY, US

[86] (2908986)

[87] (2908986)

[22] 2004-07-21

[62] 2,695,839

[30] US (10/642,459) 2003-08-14

[11] **2,909,022**
[13] C

[51] **Int.Cl. F01L 3/20 (2006.01) F01L 3/14 (2006.01)**

[25] EN

[54] **HOLLOW POPPET VALVE**

[54] **SOUPAPE CHAMPIGNON CREUSE**

[72] TSUNEISHI, OSAMU, JP

[72] ICHIMIYA, ATSUYUKI, JP

[73] NITTAN VALVE CO., LTD., JP

[85] 2015-10-07

[86] 2013-04-11 (PCT/JP2013/060977)

[87] (WO2014/167694)

[11] **2,909,216**
[13] C

[51] **Int.Cl. G06T 9/00 (2006.01) H04N 19/176 (2014.01) H04N 19/46 (2014.01) H04N 19/593 (2014.01) H04N 19/60 (2014.01)**

[25] EN

[54] **INFORMATION PROCESSING APPARATUS, METHOD OF CONTROLLING THE SAME, PROGRAM AND STORAGE MEDIUM**

[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCÉDE DE CONTRÔLE, PROGRAMME, ET SUPPORT D'ENREGISTREMENT**

[72] IWASAKI, TETSUJI, CA

[73] SQUARE ENIX HOLDINGS CO., LTD., JP

[85] 2015-10-08

[86] 2013-04-12 (PCT/JP2013/002501)

[87] (WO2014/167609)

[11] **2,914,319**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 33/10 (2016.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV752340**

[54] **PLANTS ET SEMENCES DE CANOLA DE VARIÉTÉ SCV752340**

[72] BURNS, DALE R., US

[73] MONSANTO TECHNOLOGY LLC, US

[86] (2914319)

[87] (2914319)

[22] 2015-12-08

[30] US (14/788,537) 2015-06-30

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[11] **2,914,674**
[13] C

[51] **Int.Cl. G01N 21/59 (2006.01) G01N 30/04 (2006.01) G01N 30/34 (2006.01) G01N 30/74 (2006.01)**

[25] EN

[54] **METHODS FOR ANALYZING CYSTEAMINE COMPOSITIONS**

[54] **PROCEDES D'ANALYSE DE COMPOSITIONS A BASE DE CYSTEAMINE**

[72] POWELL, KATHLENE, US

[72] MUTTAVARAPU, RAMESH, US

[73] HORIZON ORPHAN LLC, US

[85] 2015-12-07

[86] 2014-06-17 (PCT/US2014/042616)

[87] (WO2014/204887)

[30] US (61/835,987) 2013-06-17

[11] **2,915,114**
[13] C

[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/105 (2014.01) H04N 19/159 (2014.01) H04N 19/174 (2014.01) H04N 19/597 (2014.01)**

[25] EN

[54] **PROCESSING ILLUMINATION COMPENSATION FOR VIDEO CODING**

[54] **TRAITEMENT DE LA COMPENSATION D'ECLAIRAGE POUR CODAGE VIDEO**

[72] ZHANG, LI, US

[72] CHEN, YING, US

[72] KARCZEWICZ, MARTA, US

[73] QUALCOMM INCORPORATED, US

[85] 2015-12-10

[86] 2014-07-16 (PCT/US2014/046874)

[87] (WO2015/009842)

[30] US (61/846,985) 2013-07-16

[30] US (14/332,105) 2014-07-15

[11] **2,917,016**
[13] C

[51] **Int.Cl. G06K 7/10 (2006.01) G06K 19/07 (2006.01) H04B 1/59 (2006.01)**

[25] EN

[54] **RFID CARD LEARNING APPARATUS AND OPERATING METHOD THEREOF**

[54] **APPAREIL D'APPRENTISSAGE POUR CARTE RFID ET SON PROCEDE DE FONCTIONNEMENT**

[72] LIU, MARIA, TW

[73] WEK ELECTRONICS CO., LTD., TW

[85] 2015-12-23

[86] 2014-06-25 (PCT/US2014/044133)

[87] (WO2014/210183)

[30] TW (102123122) 2013-06-28

[30] TW (103103586) 2014-01-29

[11] **2,917,529**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) E21B 43/267 (2006.01) G10K 11/16 (2006.01)**

[25] EN

[54] **SYSTEM FOR REDUCING NOISE IN A HYDRAULIC FRACTURING FLEET**

[54] **DISPOSITIF DE REDUCTION DU BRUIT DANS UN GROUPE DE MACHINES DE FRACTURATION HYDRAULIQUE**

[72] OEHRING, JARED, US

[73] US WELL SERVICES LLC, US

[86] (2917529)

[87] (2917529)

[22] 2016-01-14

[30] US (62/103,414) 2015-01-14

[11] **2,917,601**
[13] C

[51] **Int.Cl. A61B 17/16 (2006.01) B23C 5/10 (2006.01)**

[25] EN

[54] **SURGICAL BURS WITH GEOMETRIES HAVING NON-DRIFTING AND SOFT TISSUE PROTECTIVE CHARACTERISTICS**

[54] **FRAISES CHIRURGICALES PRESENTANT DES GEOMETRIES POSSEDANT DES CARACTERISTIQUES DE NON-DERIVE ET DE PROTECTION DES TISSUS MOUS**

[72] KULAS, JOHN W., US

[72] STEARNS, DONALD E., US

[73] MEDTRONIC PS MEDICAL, INC., US

[85] 2016-01-06

[86] 2014-07-16 (PCT/US2014/046827)

[87] (WO2015/009810)

[30] US (13/944,650) 2013-07-17

[11] **2,918,256**
[13] C

[51] **Int.Cl. G10L 19/028 (2013.01) G10L 19/032 (2013.01)**

[25] EN

[54] **NOISE FILLING IN MULTICHANNEL AUDIO CODING**

[54] **INTRODUCTION DE BRUIT DANS LE CODAGE AUDIO MULTICANAL**

[72] LUIS VALERO, MARIA, DE

[72] HELMRICH, CHRISTIAN, DE

[72] HILPERT, JOHANNES, DE

[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2016-01-14

[86] 2014-07-18 (PCT/EP2014/065550)

[87] (WO2015/011061)

[30] EP (13177356.6) 2013-07-22

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[11] **2,919,448**
[13] C

[51] **Int.Cl. G06F 21/32 (2013.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, AUTHENTICATION SYSTEM, AUTHENTICATION METHOD, AND PROGRAM**

[54] **DISPOSITIF DE TRAITEMENT D'INFORMATION, SYSTEME D'AUTHENTIFICATION, PROCEDE D'AUTHENTIFICATION ET PROGRAMME**

[72] MORIYA, ATSUSHI, JP
[72] UMEDA, KAZUHIDE, JP
[73] NEC CORPORATION, JP
[73] NEC SOLUTION INNOVATORS, LTD., JP
[85] 2016-01-26
[86] 2014-07-30 (PCT/JP2014/070061)
[87] (WO2015/016262)
[30] JP (2013-157417) 2013-07-30

[11] **2,922,898**
[13] C

[51] **Int.Cl. E21B 47/02 (2006.01) E21B 47/09 (2012.01) G01V 3/18 (2006.01)**
[25] EN
[54] **DOWNHOLE GRADIOMETRIC RANGING FOR T-INTERSECTION AND WELL AVOIDANCE UTILIZING TRANSMITTERS & RECEIVERS HAVING MAGNETIC DIPOLES**

[54] **TELEMETRIE GRADIOMETRIQUE DE FOND DE TROU POUR EVITEMENT D'INTERSECTION EN T ET DE Puits UTILISANT DES EMETTEURS ET DES RECEPTEURS COMPRENANT DES DIPOLES MAGNETIQUES**

[72] DONDERICI, BURKAY, US
[72] GUNER, BARIS, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2016-02-29
[86] 2014-09-22 (PCT/US2014/056798)
[87] (WO2015/047953)
[30] US (61/884,590) 2013-09-30

[11] **2,924,264**
[13] C

[51] **Int.Cl. B01D 53/86 (2006.01)**
[25] EN
[54] **PROCESS FOR REMOVING METHANE FROM A GAS**

[54] **PROCESSUS POUR RETIRER DU METHANE D'UN GAZ**

[72] WATSON, DAVID, GB
[72] SWINNEY, JOHN, GB
[73] JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED, GB
[85] 2016-03-14
[86] 2014-10-17 (PCT/GB2014/053126)
[87] (WO2015/059453)
[30] GB (1318592.1) 2013-10-21

[11] **2,926,201**
[13] C

[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/036 (2006.01) G02B 6/36 (2006.01)**
[25] EN
[54] **FIBER OPTIC ROTARY JOINT CONNECTING DUAL-CORE FIBERS**

[54] **JOINT ROTATIF DE FIBRES OPTIQUES RACCORDANT DES FIBRES A DOUBLE COEUR**

[72] JAASKELAINEN, MIKKO, US
[72] MITCHELL, IAN BRADFORD, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2016-04-01
[86] 2013-11-15 (PCT/US2013/070354)
[87] (WO2015/073028)

[11] **2,926,697**
[13] C

[51] **Int.Cl. E04C 5/04 (2006.01) B21F 27/00 (2006.01)**
[25] EN
[54] **REINFORCING STEEL BAR MAT, METHOD FOR THE PRODUCTION THEREOF AND METHOD FOR THE LAYING THEREOF**

[54] **TAPIS DE BARRE D'ACIER DE RENFORT, METHODE DE PRODUCTION ASSOCIEE ET METHODE DE POSE DUDIT TAPIS**

[72] HAUSSLER, FRANZ, DE
[73] HAUSSLER INNOVATION GMBH, DE
[85] 2016-04-06
[86] 2014-09-22 (PCT/EP2014/070095)
[87] (WO2015/051987)
[30] DE (10 2013 111 064.9) 2013-10-07

[11] **2,926,713**
[13] C

[51] **Int.Cl. G21C 1/32 (2006.01) G21C 13/02 (2006.01) G21C 15/16 (2006.01)**
[25] EN
[54] **INTEGRAL REACTOR PRESSURE VESSEL TUBE SHEET**

[54] **PLAQUE TUBULAIRE INTEGREE DE CUVE SOUS PRESSION D'UN REACTEUR**

[72] LISZKAI, TAMAS, US
[72] CADELL, SETH, US
[72] KRUSKAMP, ALEX, US
[72] MALLETT, MATTHEW, US
[73] NUSCALE POWER, LLC, US
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[54] **ANTIGENE CHIMERE, ASSOCIATION ANTIGENIQUE, VACCIN, METHODE DE PREPARATION ASSOCIEE ET KIT ASSOCIE**

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[72] GENG, YUHONG, CN
[73] SHANGHAI UNITED CELL BIOTECHNOLOGY CO., LTD., CN
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[54] **CATALYST FOR THE OXIDATION OF SULFUR COMPOUNDS**
[54] **CATALYSEUR POUR L'OXYDATION DE COMPOSES SOUFRES**

[72] SCHOUBYE, PETER, DK
[72] THOGERSEN, JOAKIM REIMER, DK
[73] HALDOR TOPSOE A/S, DK
[85] 2016-06-01
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[54] **FILTRE LC SYNTONISABLE**

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[73] TOSHIBA INTERNATIONAL CORPORATION, US
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[54] **ELEMENT FORME A CHAUD ET PROCEDE DE FABRICATION ASSOCIE**

[72] HAYASHI, KOUTAROU, JP
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[73] NIPPON STEEL CORPORATION, JP
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[54] **METHOD AND DEVICE FOR THE TESTING OF FIRE EXTINGUISHING SYSTEMS**
[54] **PROCEDE ET DISPOSITIF DE MISE A L'ESSAI DE SYSTEMES D'EXTINCTION D'INCENDIES**

[72] BUITENHUIS, ANTOON LAMBERTUS RUURD, NL
[73] LUPHI B.V., NL
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[54] **COMMUNICATION DEVICE FOR AN AIRCRAFT CABIN**
[54] **DISPOSITIF DE COMMUNICATION D'UNE CABINE D'AERONEF**

[72] DUCHESNE, LUC, FR
[72] JOUSSAUME, XAVIER, FR
[72] DUMON, PATRICK, FR
[73] CENTRE NATIONAL D'ETUDES SPATIALES, FR
[73] MVG INDUSTRIES, FR
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[54] **DELAYED RELEASE CYSTEAMINE BEAD FORMULATION, AND METHODS OF MAKING AND USING SAME**
[54] **PREPARATION DE BILLES DE CYSTEAMINE A LIBERATION RETARDEE**

[72] POWELL, KATHLENE, US
[72] MUTTAVARAPU, RAMESH, US
[72] DOHIL, RANJAN, US
[73] HORIZON ORPHAN LLC, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
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[54] **USE OF AN OMA MANAGEMENT OBJECT TO SUPPORT APPLICATION-SPECIFIC CONGESTION CONTROL IN MOBILE NETWORKS**
[54] **UTILISATION D'UN OBJET DE GESTION D'ALLIANCE MOBILE OUVERTE (OMA) POUR PRENDRE EN CHARGE UNE COMMANDE DE CONGESTION SPECIFIQUE A UNE APPLICATION DANS DES RESEAUX MOBILES**

[72] ZAUS, ROBERT, DE
[72] KOLDE, MARTIN, DE
[72] PARRON, JEROME, DE
[72] PINHEIRO, ANA LUCIA A., US
[72] MARTINEZ TARRADELL, MARTA, US
[72] CHOI, HYUNG-NAM, DE
[72] GUPTA, VIVEK, US
[72] CHIN, CHEN-HO, BE
[72] BURBIDGE, RICHARD C., GB
[72] YIU, CANDY, US
[73] INTEL IP CORPORATION, US
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- [54] **FORMULATIONS DE PEPTIDES A LIBERATION RETARDEE**
- [72] JOHNSON, MARKUS, SE
- [72] JOABSSON, FREDRIK, SE
- [72] NISTOR, CATALIN, SE
- [72] THURESSON, KRISTER, SE
- [72] TIBERG, FREDRIK, SE
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- [25] EN
- [54] **DETECTION METHOD AND DETECTION DEVICE OF BURIED METAL**
- [54] **PROCEDE DE DETECTION DE METAL ENTERRE ET DISPOSITIF DE DETECTION ASSOCIE**
- [72] TSUNASAKI, MASARU, JP
- [72] KUBOTA, KENSHI, JP
- [73] FUJI TECOM INC., JP
- [85] 2016-08-26
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- [54] **DETERMINATION DES DOMMAGES A UNE COLONNE DE TUBAGE DANS UN Puits DE FORAGE**
- [72] ANIKET, US
- [72] GONZALES, ADOLFO, US
- [72] SAMUEL, ROBELLO, US
- [72] GILCRIST, ROBERT D., US
- [73] LANDMARK GRAPHICS CORPORATION, US
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- [51] **Int.Cl. F16H 3/62 (2006.01)**
- [25] EN
- [54] **DOUBLE ROW CYLINDRICAL ROLLER BEARING WITH HIGH LENGTH TO DIAMETER RATIO ROLLERS**
- [54] **ROULEMENT A ROULEAUX CYLINDRIQUES A DOUBLE RANGEE A RAPPORT ELEVE DE DIAMETRE A LONGUEUR DES ROULEAUX**
- [72] HASTING, WILLIAM HOWARD, US
- [72] FISHER, KENNETH LEE, US
- [72] BRADLEY, DONALD ALBERT, US
- [72] DICKMAN, JOSEPH ROBERT, US
- [73] GENERAL ELECTRIC COMPANY, US
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- [54] **DISPOSITIF D'ARRET DE CHUTE ET SYSTEME DE PREVENTION DE CHUTE D'ECHELLE**
- [72] RULLO, JAMES J., US
- [72] TRUESDELL, KEVIN W., US
- [73] BUCKINGHAM MANUFACTURING COMPANY, INC., US
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- [25] EN
- [54] **ADSORBING AND/OR REDUCTION OF THE AMOUNT OF ORGANIC MATERIALS IN AN AQUEOUS MEDIUM BY USING COLLOIDAL PRECIPITATED CALCIUM CARBONATE**
- [54] **ADSORPTION ET/OU REDUCTION DE LA QUANTITE DE MATIERES ORGANIQUES DANS UN MILIEU AQUEUX PAR CARBONATE DE CALCIUM PRECIPITE COLLOIDAL**
- [72] GANTENBEIN, DANIEL, CH
- [72] GANE, PATRICK A. C., CH
- [72] SCHOELKOPF, JOACHIM, CH
- [72] LEHTIPUU, JUHANA TUOMAS, FI
- [73] OMYA INTERNATIONAL AG, CH
- [85] 2016-09-27
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[54] **SYSTEM FOR MANUFACTURING A TOP MOUNT**
[54] **SYSTEME DE FABRICATION D'UNE MONTURE SUPERIEURE**
[72] CALL, AARON, US
[72] CAMERON, STEPHEN, US
[73] MCS MANUFACTURING, LLC, US
[85] 2016-11-01
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[54] **COVE FLASHING BASE SUPPORT**
[54] **SUPPORT DE PLINTHE A SOLIN A GORGE**
[72] ROSSI, FRED, CA
[72] WESTFAHL, JUSTIN, CA
[72] CAMPOS, MARCIO, CA
[72] LEITCH, JAMES, CA
[72] FUNG, GEORGE K. C., CA
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[51] **Int.Cl. E03C 1/06 (2006.01) A47K 3/28 (2006.01)**
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[54] **ON-WALL SHOWER SYSTEM**
[54] **SYSTEME DE DOUCHE AU MUR**
[72] JOHNSON, BRIAN WAYNE, US
[73] DELTA FAUCET COMPANY, US
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[25] EN
[54] **LOWER LIMB AUTOMATIC REGULATING PLATFORM FOR WAIST REHABILITATION TRAINING AND TRAINING METHOD**
[54] **PLATEFORME DE REGULATION AUTOMATIQUE DE MEMBRE INFERIEUR DESTINEE A L'ENTRAINEMENT DE REHABILITATION DE LA TAILLE ET METHODE D'ENTRAINEMENT**
[72] CHEN, QIAO, CN
[72] QUAN, SEN, CN
[72] YIN, GUANGCAI, CN
[72] LI, YUAN, CN
[72] ZI, BIN, CN
[73] HEFEI UNIVERSITY OF TECHNOLOGY, CN
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[13] C
[51] **Int.Cl. E21B 43/22 (2006.01) C09K 8/74 (2006.01)**
[25] EN
[54] **NON-REDUCING STABILIZATION COMPLEXANT FOR ACIDIZING COMPOSITIONS AND ASSOCIATED METHODS**
[54] **AGENT COMPLEXANT DE STABILISATION NON REDUCTEUR POUR L'ACIDIFICATION DE COMPOSITIONS ET PROCEDES ASSOCIES**
[72] LABLANC, BENJAMIN EDWARD, US
[72] REYES, ENRIQUE ANTONIO, US
[72] SMITH, ALYSSA LYNN, US
[72] BEUTERBAUGH, AARON MICHAEL, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
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[25] EN
[54] **BLOOD GLUCOSE METER WITH LOW COST USER INTERFACE HAVING PROGRAMMED GRAPHIC INDICATORS**
[54] **LECTEUR DE GLYCEMIE A INTERFACE UTILISATEUR PEU COUTEUSE COMPRENANT DES INDICATEURS GRAPHIQUES PROGRAMMES**
[72] MEARS, MARK G., US
[73] F. HOFFMANN-LA ROCHE AG, CH
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[54] **RECIPROCATING ROD PUMPING UNIT**
[54] **MODULE DE POMPAGE DE TIGE ALTERNATIF**
[72] ROBISON, CLARK E., US
[72] THOMAS, BENSON, US
[72] CHAVIRA, MICHAEL GILBERT, US
[72] GARCIA, LUIS ALBERTO, US
[72] SETO, JEFFREY WING LUN, US
[72] RAMSEY, MICHAEL CHARLES, US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
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[72] CHO, HANG WOO, KR
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[73] DAEJI PRECISION INDUSTRIES
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[72] HAMDOUN, KARIM, US
[73] THE PROCTER & GAMBLE
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[25] EN
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MEMBRANE AND FORWARD
OSMOSIS TREATMENT SYSTEM**
[54] **MEMBRANE D'OSMOSE
DIRECTE ET SYSTEME DE
TRAITEMENT A OSMOSE
DIRECTE**
[72] MORITA, TORU, JP
[72] KANEDA, MASAYUKI, JP
[72] YASUKAWA, MASAHIRO, JP
[72] MATSUYAMA, HIDETO, JP
[73] ASAHI KASEI KABUSHIKI KAISHA,
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PERMANGANATE IONS AND
METHOD FOR PRODUCING THE
SAME**
[54] **EAU A TENEUR EN IONS
PERMANGANATE, ET PROCEDE
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[72] TAKAHASHI, MASAYOSHI, JP
[73] NATIONAL INSTITUTE OF
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[25] EN
[54] **USE OF A DEDICATED REMOTE
CONTROL AS AN
INTERMEDIARY DEVICE TO
COMMUNICATE WITH AN
IMPLANTABLE MEDICAL
DEVICE**
[54] **UTILISATION D'UNE
COMMANDE A DISTANCE
SPECIALISEE COMME
DISPOSITIF INTERMEDIAIRE
POUR COMMUNIQUER AVEC UN
DISPOSITIF MEDICAL
IMPLANTABLE**
[72] TER-PETROSYAN, HABET, US
[72] GUPTA, GAURAV, US
[72] KOTHANDARAMAN, SRIDHAR, US
[73] BOSTON SCIENTIFIC
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[13] C

[51] **Int.Cl. H04J 11/00 (2006.01) H04J
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[25] EN
[54] **DYNAMIC CONFIGURATION OF
A FLEXIBLE ORTHOGONAL
FREQUENCY DIVISION
MULTIPLEXING PHY
TRANSPORT DATA FRAME
PREAMBLE**
[54] **CONFIGURATION DYNAMIQUE
D'UN PREAMBULE DE TRAME
DE DONNEES DE TRANSPORT
PHY DE MULTIPLEXAGE PAR
REPARTITION ORTHOGONALE
DE LA FREQUENCE SOUPLE**
[72] SHELBY, KEVIN A., US
[72] SIMON, MICHAEL J., US
[72] EARNSHAW, MARK, CA
[72] RAZA, ZAHIR JAFFER, CA
[73] ONE MEDIA, LLC, US
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[25] EN
[54] **LAUNDRY TREATMENT APPARATUS**
[54] **APPAREIL DE TRAITEMENT DE LINGE**
[72] JEONG, KWANWOONG, KR
[72] NO, YANGHWAN, KR
[72] LEE, CHANHO, KR
[72] LEE, JIHONG, KR
[73] LG ELECTRONICS INC., KR
[85] 2017-02-08
[86] 2016-06-30 (PCT/KR2016/007022)
[87] (WO2017/003210)
[30] KR (10-2015-0092774) 2015-06-30
[30] KR (10-2016-0073976) 2016-06-14

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[13] C

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[25] EN
[54] **INCREASED CARRIER MONITORING**
[54] **CONTROLE DE FREQUENCE PORTEUSE AMELIORE**
[72] YIU, CANDY, US
[72] TANG, YANG, US
[72] CHOI, HYUNG-NAM, DE
[72] BURBIDGE, RICHARD, GB
[72] HEO, YOUNG HYOUNG, KR
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[87] (WO2016/048429)
[30] US (62/056,289) 2014-09-26

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[13] C

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[25] EN
[54] **STORAGE AND MIXING SYSTEM WITH COMPRESSIBLE INTERNAL CARTRIDGE FOR PASTY STARTING COMPONENTS**
[54] **SYSTEME DE RANGEMENT ET DE MELANGE A CARTOUCHE INTERNE COMPRESSIBLE DESTINE A DES COMPOSANTS DE DEMARRAGE PATEUX**
[72] VOGT, SEBASTIAN, DE
[72] KLUGE, THOMAS, DE
[73] HERAEUS MEDICAL GMBH, DE
[86] (2959863)
[87] (2959863)
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[30] DE (10 2016 107 911.1) 2016-04-28

[11] **2,960,368**
[13] C

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[25] EN
[54] **AIRBRUSH**
[54] **AEROGRAPHE**
[72] LEE, JUN HEE, KR
[73] YA-MAN LTD., JP
[85] 2017-03-06
[86] 2014-10-28 (PCT/KR2014/010162)
[87] (WO2016/068352)

[11] **2,960,705**
[13] C

[51] **Int.Cl. B60B 25/22 (2006.01) B60C 5/16 (2006.01) B60C 15/02 (2006.01) B60B 21/12 (2006.01)**
[25] EN
[54] **ADAPTER FOR A WHEEL ASSEMBLY AND A WHEEL ASSEMBLY COMPRISING SAME**
[54] **ADAPTATEUR POUR ENSEMBLE ROULANT ET ENSEMBLE ROULANT LE COMPRENANT**
[72] TOPIN, ARTHUR, FR
[72] AHOUANTO, MICHEL, FR
[72] PINEAU, JACKY, FR
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[73] MICHELIN RECHERCHE ET TECHNIQUE S.A., CH
[85] 2017-03-08
[86] 2015-09-22 (PCT/EP2015/071711)
[87] (WO2016/046197)
[30] FR (1458987) 2014-09-24

[11] **2,961,058**
[13] C

[51] **Int.Cl. A61M 35/00 (2006.01) A61M 11/00 (2006.01)**
[25] EN
[54] **DISPENSER FOR SPRAYING POWDER AND POWDER SPRAYER INCLUDING SAME**
[54] **DISTRIBUTEUR PERMETTANT DE PULVERISER DE LA POUDRE ET PULVERISATEUR DE POUDRE LE COMPRENANT**
[72] LEE, DON HAENG, KR
[72] PARK, JONG CHAE, KR
[72] LEE, EUNHYE, KR
[72] KIM, KEUN SU, KR
[73] NEXTBIOMEDICAL CO., LTD., KR
[85] 2017-03-09
[86] 2015-09-22 (PCT/KR2015/009946)
[87] (WO2016/048006)
[30] KR (10-2014-0125908) 2014-09-22

[11] **2,961,339**
[13] C

[51] **Int.Cl. E05B 67/22 (2006.01)**
[25] EN
[54] **HOOP LOCK WITH ANTI-ROTATION FEATURES**
[54] **DISPOSITIF DE VERROUILLAGE EN ARCEAU DOTE D'ELEMENTS ANTI-ROTATION**
[72] KINDSTRAND, DANIEL HUGH, US
[72] KUMAR, HASSAN CHARAN, IN
[72] RAMAKRISHNA, MANJUNATHA, IN
[72] MILLER, DAVID BRUCE, US
[73] SCHLAGE LOCK COMPANY LLC, US
[85] 2017-03-14
[86] 2015-08-24 (PCT/US2015/046572)
[87] (WO2016/029212)
[30] US (62/040,929) 2014-08-22

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[13] C

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[25] EN
[54] **CLOSED TRAPPED VORTEX CAVITY PILOT FOR A GAS TURBINE ENGINE AUGMENTOR**
[54] **PILOTE DE CAVITE DE TOURBILLON PIEGEE FERMEE DESTINE A UN CONCENTRATEUR DE FLUX DE TURBINE A GAZ**
[72] PERVEILER, DAVID ANDREW, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2961771)
[87] (2961771)
[22] 2017-03-23
[30] US (15/085,165) 2016-03-30

[11] **2,962,388**
[13] C

[51] **Int.Cl. H04W 92/18 (2009.01) H04W 56/00 (2009.01) H04W 72/04 (2009.01)**
[25] EN
[54] **METHOD FOR TRANSMITTING D2D SIGNAL AND TERMINAL THEREFOR**
[54] **PROCEDE DE TRANSMISSION DE SIGNAL D2D, ET APPAREIL CORRESPONDANT**
[72] LEE, SEUNGMIN, KR
[72] SEO, HANBYUL, KR
[72] CHAE, HYUKJIN, KR
[73] LG ELECTRONICS INC., KR
[85] 2017-03-23
[86] 2015-09-24 (PCT/KR2015/010122)
[87] (WO2016/048069)
[30] US (62/054,950) 2014-09-24
[30] US (62/061,128) 2014-10-07
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[30] US (62/061,690) 2014-10-08
[30] US (62/061,706) 2014-10-09
[30] US (62/076,470) 2014-11-06
[30] US (62/080,247) 2014-11-14
[30] US (62/086,173) 2014-12-01
[30] US (62/108,527) 2015-01-27
[30] US (62/109,636) 2015-01-30
[30] US (62/149,518) 2015-04-17
[30] US (62/149,690) 2015-04-20
[30] US (62/165,222) 2015-05-22

[11] **2,962,423**
[13] C

[51] **Int.Cl. B60H 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DAMPER ACTUATOR WITHOUT MICROCONTROLLER**
[54] **SYSTEMES ET PROCEDES POUR ACTIONNEUR D'AMORTISSEUR SANS MICRO-UNITE DE COMMANDE**
[72] KALORE, PANKAJ V., US
[72] CALIENDO, GUY P., US
[72] ANDERSON, DEAN B., US
[72] STROZEWSKI, MICHAEL B., US
[73] SIEMENS INDUSTRY, INC., US
[85] 2017-03-23
[86] 2014-09-25 (PCT/US2014/057328)
[87] (WO2016/048315)

[11] **2,963,622**
[13] C

[51] **Int.Cl. C22C 38/06 (2006.01) B65D 41/12 (2006.01) C21D 8/02 (2006.01) C22C 38/04 (2006.01) C22C 38/60 (2006.01)**
[25] EN
[54] **STEEL SHEET FOR CROWN CAP, MANUFACTURING METHOD THEREFOR, AND CROWN CAP**
[54] **TOLE D'ACIER POUR CAPSULE-COURONNE, PROCEDE DE FABRICATION S'Y RAPPORTANT ET CAPSULE-COURONNE**
[72] TANAKA, TAKUMI, JP
[72] HIRAGUCHI, TOMONARI, JP
[72] KOJIMA, KATSUMI, JP
[72] NAKAMARU, HIROKI, JP
[72] KARIYA, NOBUSUKE, JP
[73] JFE STEEL CORPORATION, JP
[85] 2017-04-04
[86] 2015-11-19 (PCT/JP2015/005782)
[87] (WO2016/084353)
[30] JP (2014-240903) 2014-11-28

[11] **2,963,776**
[13] C

[51] **Int.Cl. F02C 7/00 (2006.01) B64D 27/02 (2006.01) F01D 15/10 (2006.01) F02C 6/20 (2006.01) F02C 7/268 (2006.01) F02C 7/36 (2006.01)**
[25] EN
[54] **HYBRID GAS-ELECTRIC TURBINE ENGINE**
[54] **TURBINE HYBRIDE GAZ-ELECTRICITE**
[72] MENHEERE, DAVID, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2963776)
[87] (2963776)
[22] 2017-04-07
[30] US (15/147,284) 2016-05-05

[11] **2,964,950**
[13] C

[51] **Int.Cl. B65G 23/44 (2006.01) B65G 15/64 (2006.01)**
[25] EN
[54] **TAKE-UP DEVICE**
[54] **DISPOSITIF COMPENSATEUR**
[72] SLAVOV, SVETOSLAV, US
[72] SVIRSKY, VLADIMIR, US
[72] LURIE, MARTIN S., US
[73] THYSSENKRUPP INDUSTRIAL SOLUTIONS (USA), INC., US
[86] (2964950)
[87] (2964950)
[22] 2013-08-16
[62] 2,882,137
[30] US (61/684,042) 2012-08-16

[11] **2,965,953**
[13] C

[51] **Int.Cl. H05B 3/58 (2006.01) A61M 1/16 (2006.01) A61M 5/44 (2006.01) F24H 1/12 (2006.01) F24H 9/02 (2006.01)**
[25] EN
[54] **FLOW THROUGH HEATER**
[54] **UNITE DE CHAUFFAGE A FLUX TRAVERSANT**
[72] WALLINGER, MARTIN, AT
[72] ANTOSCH, GERNOT, AT
[72] LEHNERT, REINER, DE
[72] POSCHL, WOLFGANG, AT
[72] SCHEFBANKER, GERHARD, AT
[73] WATLOW ELECTRIC MANUFACTURING COMPANY, US
[86] (2965953)
[87] (2965953)
[22] 2011-04-28
[62] 2,797,572
[30] US (61/328697) 2010-04-28

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[51] **Int.Cl. A61K 31/167 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **GLUCAGON ANTAGONISTS**
[54] **ANTAGONISTES DE GLUCAGON**
[72] GOMEZ-GALENO, JORGE E., US
[72] HECKER, SCOTT J., US
[72] DANG, QUN, US
[72] REDDY, MALI VENKAT, US
[72] SUN, ZHILI, US
[72] GROTE, MATTHEW P., US
[72] NGUYEN, THANH HUU, US
[72] LEMUS, ROBERT HUERTA, US
[72] LI, HAIQING, US
[73] METABASIS THERAPEUTICS, INC., US
[86] (2966273)
[87] (2966273)
[22] 2009-08-13
[62] 2,770,298
[30] US (61/088,697) 2008-08-13

[11] **2,967,603**
[13] C

[51] **Int.Cl. E03C 1/04 (2006.01) A47K 3/00 (2006.01) F16K 11/00 (2006.01)**
[25] EN
[54] **TUB SPOUT ASSEMBLY**
[54] **DISPOSITIF DE BEC DE BAIGNOIRE**
[72] CIPRIANI, MARK, US
[72] ROSKO, MICHAEL SCOT, US
[73] DELTA FAUCET COMPANY, US
[86] (2967603)
[87] (2967603)
[22] 2017-05-18
[30] US (62/339,482) 2016-05-20

[11] **2,967,856**
[13] C

[51] **Int.Cl. A61M 5/48 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **DOWNSTREAM PRESSURE ASSESSMENT IN A MEDICAL INFUSION PUMP**
[54] **POMPE A INFUSION MEDICALE DOTEE DE DIFFERENTS PARAMETRES D'ALARME**
[72] DEBELSER, DAVID, US
[72] ZALESKY, LARRY R., US
[72] KOPP, KEVIN SEAN, US
[72] HETCHLER, CLINTON ROBERT, US
[73] SMITHS MEDICAL ASD, INC., US
[86] (2967856)
[87] (2967856)
[22] 2009-04-01
[62] 2,723,448
[30] US (61/041,490) 2008-04-01

[11] **2,967,931**
[13] C

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[25] EN
[54] **WIRE ROD**
[54] **TIGE DE FIL**
[72] MANABE, TOSHIYUKI, JP
[72] ISO, ARATA, JP
[72] MATSUI, NAOKI, JP
[73] NIPPON STEEL CORPORATION, JP
[85] 2017-05-15
[86] 2015-12-15 (PCT/JP2015/085057)
[87] (WO2016/098765)
[30] JP (2014-253267) 2014-12-15
[30] JP (2015-241561) 2015-12-10

[11] **2,968,107**
[13] C

[51] **Int.Cl. B60H 1/22 (2006.01) B61D 17/04 (2006.01)**
[25] EN
[54] **MODULAR METAL HEATING PANEL FOR RAILCAR**
[54] **PANNEAU CHAUFFANT METALLIQUE MODULAIRE DESTINE A UN WAGON**
[72] TENEYCKE, DAVID ROSS, CA
[72] MOORE, BERNARD C., CA
[73] CCI THERMAL TECHNOLOGIES INC., CA
[86] (2968107)
[87] (2968107)
[22] 2017-05-24
[30] US (62/509,879) 2017-05-23

[11] **2,968,630**
[13] C

[51] **Int.Cl. C23C 8/80 (2006.01) C23C 8/34 (2006.01) C23C 8/58 (2006.01)**
[25] FR
[54] **METHOD FOR SURFACE TREATMENT OF A STEEL COMPONENT BY NITRIDING OR NITROCARBURISING, OXIDISING AND THEN IMPREGNATING**
[54] **PROCEDE DE TRAITEMENT SUPERFICIEL D'UNE PIECE EN ACIER PAR NITRURATION OU OXYDATION PUIS IMPREGNATION**
[72] MAGDINIER, PIERRE-LOUIS, FR
[72] DESBOUCHE-JANNY, MARIE-NOELLE, FR
[73] H.E.F., FR
[85] 2017-05-23
[86] 2015-12-15 (PCT/FR2015/053511)
[87] (WO2016/102813)
[30] FR (1463252) 2014-12-23

[11] **2,968,663**
[13] C

[51] **Int.Cl. G02B 3/08 (2006.01)**
[25] EN
[54] **FRESNEL LENS SYSTEM**
[54] **SYSTEME DE LENTILLE DE FRESNEL**
[72] HU, XIAOPING, CN
[73] BOLYMEDIA HOLDINGS CO. LTD., US
[85] 2017-05-23
[86] 2014-11-25 (PCT/CN2014/092139)
[87] (WO2016/082097)

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[11] **2,968,670**
[13] C

[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 70/00 (2015.01) B29C 64/314 (2017.01)**

[25] EN

[54] **METHODS FOR REACTIVE THREE-DIMENSIONAL PRINTING BY EXTRUSION**

[54] **PROCEDES D'IMPRESSION 3D REACTIVE PAR EXTRUSION**

[72] FENN, DAVID R., US

[72] OLSON, KURT G., US

[72] ROCK, REZA M., US

[72] KUTCHKO, CYNTHIA, US

[72] DONALDSON, SUSAN F., US

[72] SUN, HAO, US

[72] RIOS, ORLANDO, US

[72] CARTER, WILLIAM, US

[73] PPG INDUSTRIES OHIO, INC., US

[73] UT-BATTELLE, LLC, US

[85] 2017-05-23

[86] 2015-11-24 (PCT/US2015/062445)

[87] (WO2016/085992)

[30] US (62/083,472) 2014-11-24

[30] US (62/158,588) 2015-05-08

[11] **2,968,864**
[13] C

[51] **Int.Cl. G08G 5/04 (2006.01) G01C 21/20 (2006.01) G08G 5/00 (2006.01) H04B 7/26 (2006.01) G01B 11/00 (2006.01) G01N 29/14 (2006.01) G01N 29/46 (2006.01) G01S 7/41 (2006.01) G01S 7/539 (2006.01)**

[25] EN

[54] **COMMERCIAL AND GENERAL AIRCRAFT AVOIDANCE USING LIGHT, SOUND, AND/OR MULTI-SPECTRAL PATTERN DETECTION**

[54] **EVITEMENT D'AERONEFS COMMERCIAUX ET GENERAUX AU MOYEN D'UNE DETECTION DE MOTIF LUMINEUX, SONORE ET/OU MULTISPECTRAL**

[72] BUCHMUELLER, DANIEL, US

[72] PACZAN, NATHAN MICHAEL, US

[73] AMAZON TECHNOLOGIES, INC., US

[85] 2017-05-24

[86] 2015-12-11 (PCT/US2015/065352)

[87] (WO2016/094849)

[30] US (14/569,125) 2014-12-12

[30] US (14/569,233) 2014-12-12

[30] US (14/569,183) 2014-12-12

[11] **2,968,927**
[13] C

[51] **Int.Cl. A24F 47/00 (2006.01)**

[25] EN

[54] **ELECTRONIC VAPOUR PROVISION SYSTEM**

[54] **SYSTEME ELECTRONIQUE DE FOURNITURE DE VAPEUR**

[72] LEADLEY, DAVID, GB

[72] LEA, RAY, GB

[73] NICOVENTURES HOLDINGS LIMITED, GB

[85] 2017-05-25

[86] 2015-10-23 (PCT/GB2015/053180)

[87] (WO2016/092259)

[30] GB (1422056.0) 2014-12-11

[11] **2,968,988**
[13] C

[51] **Int.Cl. H04W 84/06 (2009.01) H01Q 3/30 (2006.01)**

[25] EN

[54] **AIRBORNE CELLULAR COMMUNICATION SYSTEM**

[54] **SYSTEME DE COMMUNICATION CELLULAIRE AEROPORTE**

[72] OVENS, NORMAN LEONARD, US

[72] VOSSLER, GERALD LES, US

[72] DARIAS, OTTO, US

[72] HAZARD, GRANT MICHAEL, US

[72] SUR, SAMIT, US

[73] GE AVIATION SYSTEMS LLC, US

[86] (2968988)

[87] (2968988)

[22] 2017-06-01

[30] US (15/183,067) 2016-06-15

[11] **2,969,411**
[13] C

[51] **Int.Cl. F04D 15/00 (2006.01) F04D 1/00 (2006.01) F04D 15/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR MONITORING A PUMP**

[54] **APPAREIL ET METHODE DE SURVEILLANCE D'UNE POMPE**

[72] MANGUTOV, OLEG VLADIMIROVICH, RU

[72] MOKHOV, ILYA IGOREVICH, RU

[72] VENIAMINOV, NICOLAY ANDREEVICH, RU

[72] KOZIONOV, ALEXEY PETROVICH, RU

[73] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2017-05-31

[86] 2014-12-02 (PCT/RU2014/000901)

[87] (WO2016/089237)

[11] **2,969,421**
[13] C

[51] **Int.Cl. A61K 8/66 (2006.01) A61K 8/9728 (2017.01) A61K 8/64 (2006.01) A61Q 19/08 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING A SIRT6 ACTIVATOR AND A DNA REPAIR ENZYME**

[54] **COMPOSITIONS COMPRENANT UN ACTIVATEUR DE SIRT6 ET UNE ENZYME DE REPARATION DE L'ADN**

[72] PERNODET, NADINE, US

[72] DONG, KELLY, US

[72] PELLE, EDWARD, US

[73] ELC MANAGEMENT LLC, US

[85] 2017-05-31

[86] 2015-11-23 (PCT/US2015/062128)

[87] (WO2016/094073)

[30] US (62/089,618) 2014-12-09

[11] **2,969,723**
[13] C

[51] **Int.Cl. H04N 19/176 (2014.01) H04N 19/137 (2014.01)**

[25] EN

[54] **VIDEO DECODING USING AVAILABLE NEIGHBOURING DECODED BLOCKS HAVING A MOTION VECTOR, AND IDENTIFIED BY A CODING TABLE**

[54] **DISPOSITIF DE CODAGE D'IMAGES DYNAMIQUES ET DISPOSITIF DE DECODAGE D'IMAGES DYNAMIQUES**

[72] ASAKA, SAORI, JP

[72] CHUJOH, TAKESHI, JP

[72] TANIZAWA, AKIYUKI, JP

[72] YASUDA, GOKI, JP

[72] WADA, NAOFUMI, JP

[72] WATANABE, TAKASHI, JP

[73] KABUSHIKI KAISHA TOSHIBA, JP

[86] (2969723)

[87] (2969723)

[22] 2009-06-18

[62] 2,929,824

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[11] **2,970,017**
[13] C

[51] **Int.Cl. B21J 15/14 (2006.01) B21J 15/32 (2006.01)**
[25] EN
[54] **GRIPPING DEVICE FOR MECHANICAL FASTENERS**
[54] **DISPOSITIF DE PREHENSION DESTINE A DES ELEMENTS DE FIXATION MECANIQUES**
[72] RIOTTE, PATRICE, FR
[73] KUKA SYSTEMS AEROSPACE, FR
[85] 2017-06-06
[86] 2015-12-17 (PCT/EP2015/080260)
[87] (WO2016/102306)
[30] EP (14307139.7) 2014-12-22

[11] **2,970,102**
[13] C

[51] **Int.Cl. G01B 5/18 (2006.01) B21J 15/28 (2006.01) B23Q 17/20 (2006.01)**
[25] EN
[54] **HOLE INSPECTION DEVICE**
[54] **DISPOSITIF D'INSPECTION DE TROU**
[72] LOUBET, GERARD, FR
[73] KUKA SYSTEMS AEROSPACE, FR
[85] 2017-06-06
[86] 2015-12-17 (PCT/EP2015/080263)
[87] (WO2016/102309)
[30] EP (14307145.4) 2014-12-22

[11] **2,970,423**
[13] C

[51] **Int.Cl. H02M 7/00 (2006.01)**
[25] EN
[54] **SUBMODULE DISTRIBUTED CONTROL METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE COMMANDE DISTRIBUEE DE SOUS-MODULES**
[72] DING, JIUDONG, CN
[72] TIAN, JIE, CN
[72] DONG, YUNLONG, CN
[72] LI, HAIYING, CN
[72] CAO, DONGMING, CN
[72] LIU, HAIBIN, CN
[72] LU, YU, CN
[73] NR ELECTRIC CO., LTD, CN
[73] NR ENGINEERING CO., LTD., CN
[85] 2017-06-09
[86] 2015-10-28 (PCT/CN2015/093086)
[87] (WO2016/091022)
[30] CN (201410768743.3) 2014-12-11

[11] **2,970,628**
[13] C

[51] **Int.Cl. C07D 417/04 (2006.01) A61K 31/4439 (2006.01) C12N 9/12 (2006.01)**
[25] EN
[54] **PROCESS FOR THE SYNTHESIS OF 2-AMINOTHIAZOLE COMPOUNDS AS KINASE INHIBITORS**
[54] **PROCEDE DE SYNTHESE DE COMPOSES 2-AMINOTHIAZOLE COMME INHIBITEURS DE KINASE**
[72] MOUSSY, ALAIN, FR
[72] REGINAULT, PHILIPPE, FR
[72] BELLAMY, FRANCOIS, FR
[72] LERMET, ANNE, FR
[73] AB SCIENCE, FR
[86] (2970628)
[87] (2970628)
[22] 2008-02-13
[62] 2,677,586
[30] US (60/889587) 2007-02-13

[11] **2,970,816**
[13] C

[51] **Int.Cl. B65H 35/04 (2006.01) B26F 1/26 (2006.01) B65H 43/00 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VARIABLE PERFORATION PROFILES IN A STACK OF LOTTERY TICKETS**
[54] **SYSTEME ET METHODE DE PROFILS A PERFORATION VARIABLE DANS UN EMPILEMENT DE BILLETS DE LOTERIE**
[72] GHIA, AJAY J., US
[73] SCIENTIFIC GAMES HOLDINGS LIMITED, IE
[86] (2970816)
[87] (2970816)
[22] 2017-06-15
[30] US (15/188,452) 2016-06-21

[11] **2,970,820**
[13] C

[51] **Int.Cl. B26F 1/00 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VARIABLE PERFORATION PROFILES IN A STACK OF LOTTERY TICKETS BASED ON FOLD PATTERN**
[54] **SYSTEME ET METHODE DE PROFILS A PERFORATION VARIABLE DANS UN EMPILEMENT DE BILLETS DE LOTERIE FONDES SUR UN MODELE DE PLI**
[72] GHIA, AJAY J., US
[73] SCIENTIFIC GAMES HOLDINGS LIMITED, IE
[86] (2970820)
[87] (2970820)
[22] 2017-06-15
[30] US (15/188,421) 2016-06-21

[11] **2,971,718**
[13] C

[51] **Int.Cl. E21B 49/08 (2006.01) E21B 47/00 (2012.01) G01V 8/02 (2006.01)**
[25] EN
[54] **CLASSIFYING PARTICLE SIZE AND SHAPE DISTRIBUTION IN DRILLING FLUIDS**
[54] **CLASSIFICATION D'UNE DISTRIBUTION DE TAILLE ET DE FORME DES PARTICULES DANS DES FLUIDES DE FORAGE**
[72] ROWE, MATHEW DENNIS, US
[72] GOSNEY, JON TROY, US
[72] BRITTON, CHARLES CUTLER, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-06-20
[86] 2015-03-12 (PCT/US2015/020165)
[87] (WO2016/133549)
[30] US (62/118,586) 2015-02-20

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[11] **2,972,705**
[13] C

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/18 (2006.01) B01D 53/26 (2006.01) C10L 3/10 (2006.01)**

[25] EN

[54] **SEPARATING IMPURITIES FROM A FLUID STREAM USING MULTIPLE CO-CURRENT CONTACTORS**

[54] **SEPARATION DES IMPURETES D'UN FLUX FLUIDIQUE AU MOYEN DE PLUSIEURS CONTACTEURS A CO-COURANT**

[72] GRAVE, EDWARD J., US

[72] YEH, NORMAN K., US

[72] FREEMAN, STEPHANIE A., US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2017-06-28

[86] 2015-11-23 (PCT/US2015/062061)

[87] (WO2016/111765)

[30] US (62/101,743) 2015-01-09

[11] **2,972,833**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **ANTI-PD-1 MONOCLONAL ANTIBODIES AND OBTAINING METHOD THEREOF**

[54] **ANTICORPS MONOCLONAL ANTI-PD-1 ET SON PROCEDE D'OBTENTION**

[72] ZHOU, HAIPING, CN

[72] LI, XIAOMIN, CN

[72] ZHOU, JUNJIE, CN

[72] PEI, SHUANG, CN

[72] ZAN, YANLU, CN

[72] BAI, YI, CN

[72] BAI, XIANHONG, CN

[73] BEIJING DONGFANG BIOTECH CO., LTD., CN

[73] BEIJING JINGYITAIXIANG TECHNOLOGY DEVELOPMENT CO., LTD., CN

[85] 2017-06-30

[86] 2015-10-13 (PCT/CN2015/091842)

[87] (WO2016/197497)

[30] CN (201510312910.8) 2015-06-09

[11] **2,973,063**
[13] C

[51] **Int.Cl. B63B 35/44 (2006.01) B63B 35/03 (2006.01) E21B 15/02 (2006.01)**

[25] EN

[54] **REAL-TIME TRACKING OF BENDING FATIGUE IN COILED TUBING**

[54] **LOCALISATION EN TEMPS REEL DE LA FATIGUE DE FLEXION DANS UN TUBE SPIRALE**

[72] TURNER, ALAN CHARLES JOHN, GB

[72] GILLINGS, RICHARD IAN, GB

[72] SAVENKOVA, ANNA, GB

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2017-07-05

[86] 2015-02-13 (PCT/US2015/015885)

[87] (WO2016/130151)

[11] **2,973,763**
[13] C

[51] **Int.Cl. G01N 21/33 (2006.01) C02F 1/32 (2006.01) G01N 21/59 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING THE UV TRANSMITTANCE OF WATER**

[54] **PROCEDE PERMETTANT DE DETERMINER LE DEGRE DE TRANSMISSION DE LUMIERE UV DE L'EAU**

[72] KRUGER, FRIEDHELM, DE

[72] KANIGOWSKI, UWE, DE

[73] XYLEM IP MANAGEMENT S.A.R.L., LU

[85] 2017-07-13

[86] 2016-01-15 (PCT/EP2016/050765)

[87] (WO2016/113390)

[30] DE (10 2015 000 263.5) 2015-01-16

[11] **2,973,853**
[13] C

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **NOVEL CRYSTALLINE FORMS OF NERATINIB MALEATE AND PROCESS OF PREPARATION THEREOF**

[54] **NOUVELLE FORME CRISTALLINE DE MALEATE DE NERATINIB ET METHODE DE PREPARATION DE CETTE DERNIERE**

[72] CHEN, MINHUA, CN

[72] ZHANG, YANFENG, CN

[72] DIAO, XIAOJUAN, CN

[72] ZHANG, XIAOYU, CN

[73] CRYSTAL PHARMATECH CO., LTD., CN

[85] 2017-07-10

[86] 2016-01-08 (PCT/CN2016/070472)

[87] (WO2016/110270)

[30] CN (201510012580.0) 2015-01-09

[11] **2,974,074**
[13] C

[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/071 (2010.01) C12N 5/078 (2010.01) A61L 27/38 (2006.01) C08J 9/00 (2006.01)**

[25] EN

[54] **CELL CULTURE METHOD USING BONE MARROW-LIKE STRUCTURE, AND POROUS POLYIMIDE FILM FOR HEALING BONE INJURY SITE**

[54] **PROCEDE DE CULTURE CELLULAIRE UTILISANT UNE STRUCTURE DE TYPE MOELLE OSSEUSE, ET MEMBRANE POREUSE DE POLYIMIDE POUR LE TRAITEMENT DE SITE D'ENDOMMAGEMENT OSSEUX**

[72] OHTA, KEISUKE, JP

[72] HIRASHIMA, SHINGO, JP

[72] HAGIHARA, MASAHIKO, JP

[72] SHIMIZU, MOTOHISA, JP

[73] UBE INDUSTRIES, LTD., JP

[73] KURUME UNIVERSITY, JP

[85] 2017-07-17

[86] 2016-01-26 (PCT/JP2016/052215)

[87] (WO2016/121771)

[30] JP (2015-012696) 2015-01-26

[30] JP (2015-012743) 2015-01-26

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[11] **2,974,717**
[13] C
[51] **Int.Cl. F16J 15/3232 (2016.01) F16H 57/029 (2012.01) F16J 15/3248 (2016.01) F16C 33/72 (2006.01)**
[25] EN
[54] **SEALING DEVICE**
[54] **APPAREIL D'ETANCHEISATION**
[72] TANIDA, MASAYUKI, JP
[72] YAGI, MASAOKI, JP
[73] NOK CORPORATION, JP
[86] (2974717)
[87] (2974717)
[22] 2017-07-27
[30] JP (2016-156205) 2016-08-09

[11] **2,976,366**
[13] C
[51] **Int.Cl. B25C 1/08 (2006.01)**
[25] EN
[54] **IMPROVEMENTS FOR A GAS-POWERED FIXING TOOL**
[54] **AMELIORATIONS CONCERNANT UN OUTIL DE FIXATION ENTRAINE PAR GAZ**
[72] CORDEIRO, PIERRE, FR
[72] HERELIER, PATRICK, FR
[72] NAYRAC, FREDERIC, FR
[72] RICORDI, CHRISTIAN, FR
[72] VETTORETTI, ALAIN, FR
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-08-10
[86] 2016-02-29 (PCT/US2016/020000)
[87] (WO2016/144580)
[30] EP (15158537.9) 2015-03-10
[30] EP (15200997.3) 2015-12-18

[11] **2,976,622**
[13] C
[51] **Int.Cl. D07B 9/00 (2006.01) F16G 11/04 (2006.01)**
[25] EN
[54] **END FIXING STRUCTURE OF COMPOSITE WIRE ROD**
[54] **STRUCTURE DE FIXATION DE TERMINAL DESTINEE A DES CORPS STRIES COMPOSITES**
[72] MANABE, DAISUKE, JP
[72] HACHISUKA, SHUNJI, JP
[72] KIMURA, HIROSHI, JP
[72] MATSUDA, FUMIHIRO, JP
[72] KAI, NOBUHIRO, JP
[72] SHIMMURA, HIROYUKI, JP
[72] ASHIZUKA, KOHSUKE, JP
[73] TOKYO ROPE MFG. CO., LTD., JP
[85] 2017-08-14
[86] 2015-12-28 (PCT/JP2015/086517)
[87] (WO2016/132657)
[30] JP (PCT/JP2015/054143) 2015-02-16

[11] **2,976,631**
[13] C
[51] **Int.Cl. H01R 13/52 (2006.01)**
[25] EN
[54] **RETRACTABLE RECESSED ELECTRICAL OUTLET AND DATA PORT ASSEMBLY**
[54] **SORTIE ELECTRIQUE RENFONCEE RETRACTABLE ET ENSEMBLE PORT DE DONNEES**
[72] FORTI, ERIC, US
[72] NIMMAGADDA, RAMESH BABU, US
[73] FORTI, ERIC, US
[73] NIMMAGADDA, RAMESH BABU, US
[85] 2017-08-14
[86] 2015-02-12 (PCT/US2015/015682)
[87] (WO2015/123450)
[30] US (61/940,383) 2014-02-15

[11] **2,977,189**
[13] C
[51] **Int.Cl. H04W 4/024 (2018.01) H04W 4/21 (2018.01) G01C 21/34 (2006.01) G08G 1/0968 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **HUMAN-LIKE GLOBAL POSITIONING SYSTEM (GPS) DIRECTIONS**
[54] **INDICATIONS D'UN SYSTEME MONDIAL DE LOCALISATION (GPS) SIMILAIRE A L'HOMME**
[72] KARUMURI, RAM SUMAN, US
[73] FACEBOOK, INC., US
[86] (2977189)
[87] (2977189)
[22] 2014-06-23
[62] 2,915,945
[30] US (13/926,392) 2013-06-25

[11] **2,977,246**
[13] C
[51] **Int.Cl. A61L 9/03 (2006.01) A61M 11/00 (2006.01) A61M 21/00 (2006.01)**
[25] EN
[54] **HANDHELD APPARATUS FOR VAPORIZATION OF PLANT-BASED OR SYNTHETIC COMPOUNDS BY LASER**
[54] **APPAREIL PORTATIF POUR VAPORISATION DE COMPOSES A BASE DE PLANTES OU SYNTHETIQUES PAR LASER**
[72] SCHNEIDER, ROBERT, US
[73] SONOMA COAST DESIGNS, INC., US
[85] 2017-08-17
[86] 2016-02-24 (PCT/IB2016/001166)
[87] (WO2016/178098)
[30] US (62/120,807) 2015-02-25

[11] **2,977,784**
[13] C
[51] **Int.Cl. B62J 1/08 (2006.01)**
[25] EN
[54] **ADJUSTABLE SEAT TUBE STRUCTURE AND BICYCLE**
[54] **STRUCTURE DE TUBE DE SIEGE AJUSTABLE ET BICYCLETTE**
[72] JHOU, SHU-YU, TW
[72] HSU, CHE-WEI, TW
[73] GIANT MANUFACTURING CO., LTD., TW
[86] (2977784)
[87] (2977784)
[22] 2017-08-29
[30] TW (105128092) 2016-08-31

[11] **2,978,280**
[13] C
[51] **Int.Cl. G01P 13/04 (2006.01) G01P 3/36 (2006.01)**
[25] EN
[54] **SINGLE SENSOR SYSTEMS AND METHODS FOR DETECTION OF REVERSE ROTATION**
[54] **SYSTEMES A CAPTEUR UNIQUE ET PROCEDES DE DETECTION DE ROTATION INVERSE**
[72] KHAIRA, NIRAN SINGH, US
[72] HUNTINGTON, RICHARD A., US
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2017-08-30
[86] 2016-02-02 (PCT/US2016/016150)
[87] (WO2016/148787)
[30] US (62/134,844) 2015-03-18

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[11] **2,978,303**
[13] C

[51] **Int.Cl. E03C 1/044 (2006.01) E03C 1/04 (2006.01) F16K 11/00 (2006.01) F16K 31/02 (2006.01) F16K 31/66 (2006.01)**

[25] EN

[54] **ELECTRONIC FAUCET FOR PROVIDING VARIABLE FLOW CONTROL OF OUTLET WATER**

[54] **ROBINET ELECTRONIQUE SERVANT A FOURNIR UN CONTROLE DE DEBIT VARIABLE DE L'EAU**

[72] VEROS, MICHAEL J., US
[72] THOMAS, KURT JUDSON, US
[72] GALAMBUS, MARK, US
[72] DEVRIES, ADAM M., US
[72] TYNER, TONY, US
[72] SAWASKI, JOEL D., US
[72] DAVIDSON, KYLE ROBERT, US
[73] DELTA FAUCET COMPANY, US
[86] (2978303)
[87] (2978303)
[22] 2012-12-06
[62] 2,856,194
[30] US (61/567,510) 2011-12-06

[11] **2,979,202**
[13] C

[51] **Int.Cl. G05B 13/02 (2006.01) G06Q 10/06 (2012.01) G05B 15/02 (2006.01)**

[25] EN

[54] **CASCADED IDENTIFICATION IN BUILDING AUTOMATION**

[54] **IDENTIFICATION EN CASCADE EN IMMOTIQUE**

[72] AHMED, OSMAN, US
[73] SIEMENS INDUSTRY, INC., US
[85] 2017-09-08
[86] 2016-02-29 (PCT/US2016/020028)
[87] (WO2016/144587)
[30] US (62/131,749) 2015-03-11

[11] **2,980,052**
[13] C

[51] **Int.Cl. C22F 1/10 (2006.01) C22C 19/05 (2006.01) C22C 30/00 (2006.01) C22F 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NI-BASED SUPERALLOY MATERIAL**

[54] **METHODE DE PRODUCTION D'UN MATERIAU DE SUPERALLIAGE A BASE DE NI**

[72] NARITA, SHUJI, JP
[72] IZUMI, KOHKI, JP
[72] YAMASHITA, KENTA, JP
[72] UETA, SHIGEKI, JP
[73] DAIDO STEEL CO., LTD., JP
[86] (2980052)
[87] (2980052)
[22] 2017-09-22
[30] JP (2016-230365) 2016-11-28

[11] **2,980,063**
[13] C

[51] **Int.Cl. C22F 1/10 (2006.01) C22C 19/05 (2006.01) C22C 30/00 (2006.01) C22F 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NI-BASED SUPERALLOY MATERIAL**

[54] **METHODE DE PRODUCTION D'UN MATERIAU DE SUPERALLIAGE A BASE DE NI**

[72] NARITA, SHUJI, JP
[72] IZUMI, KOHKI, JP
[72] YAMASHITA, KENTA, JP
[72] UETA, SHIGEKI, JP
[73] DAIDO STEEL CO., LTD., JP
[86] (2980063)
[87] (2980063)
[22] 2017-09-22
[30] JP (2016-230364) 2016-11-28

[11] **2,980,359**
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 5/30 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **REDUCED-PRESSURE, COMPRESSION SYSTEMS AND APPARATUS FOR USE ON A CURVED BODY PART**

[54] **SYSTEMES ET APPAREILS DE COMPRESSION A PRESSION REDUITE DESTINES A ETRE UTILISES SUR UNE PARTIE INCURVEE DU CORPS**

[72] WILKES, ROBERT PEYTON, US
[72] LONG, JUSTIN ALEXANDER, US
[72] KAZALA, RICHARD MARVIN, JR., US
[73] KCI LICENSING, INC., US
[86] (2980359)
[87] (2980359)
[22] 2009-05-29
[62] 2,726,027
[30] US (61/057,797) 2008-05-30
[30] US (61/057,807) 2008-05-30
[30] US (61/057,810) 2008-05-30
[30] US (61/057,798) 2008-05-30
[30] US (61/057,803) 2008-05-30
[30] US (61/057,800) 2008-05-30
[30] US (61/057,808) 2008-05-30
[30] US (61/057,802) 2008-05-30
[30] US (61/057,805) 2008-05-30
[30] US (61/121,362) 2008-12-10
[30] US (61/144,067) 2009-01-12

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[11] **2,980,363**
[13] C

[51] **Int.Cl. F16L 11/10 (2006.01) F16L 11/12 (2006.01) F16L 11/20 (2006.01) F16L 27/08 (2006.01) F16L 33/207 (2006.01) F16L 33/213 (2006.01)**

[25] EN

[54] **LIGHTWEIGHT, HIGH FLOW HOSE ASSEMBLY AND METHOD OF MANUFACTURE**

[54] **ENSEMBLE TUYAU SOUPLE ET LEGER A HAUT DEBIT ET PROCEDE DE FABRICATION**

[72] BLANCHETTE, GIL, US
[72] MELO, MICHAEL, US
[72] CORREA, STEVE, US
[72] CHAPMAN, TIMOTHY L., US
[72] VAN BEEK, MARLON, US
[72] PARKER, JOHN W., US
[72] BURKE, PAUL, US
[72] EILERTSON, RON, US
[73] TEKNOR APEX COMPANY, US
[85] 2017-09-19
[86] 2016-04-18 (PCT/US2016/028037)
[87] (WO2016/172019)
[30] US (14/695,912) 2015-04-24
[30] US (14/730,852) 2015-06-04
[30] US (14/850,225) 2015-09-10
[30] US (15/084,961) 2016-03-30
[30] US (15/085,031) 2016-03-30

[11] **2,980,416**
[13] C

[51] **Int.Cl. C08L 23/08 (2006.01) H02S 30/00 (2014.01) H02S 40/44 (2014.01) C08J 3/24 (2006.01) C08K 3/04 (2006.01) C08K 5/14 (2006.01)**

[25] EN

[54] **RUBBER COMPOSITION FOR PHOTOVOLTAIC THERMAL COLLECTOR**

[54] **COMPOSITION DE CAOUTCHOUC DESTINEE A UN COLLECTEUR THERMIQUE PHOTOVOLTAIQUE**

[72] NAKAHAMA, HIDENARI, JP
[73] NISSHINBO MECHATRONICS INC., JP
[85] 2017-09-20
[86] 2016-03-11 (PCT/JP2016/057692)
[87] (WO2016/152570)
[30] JP (2015-057152) 2015-03-20

[11] **2,980,445**
[13] C

[51] **Int.Cl. F03B 13/14 (2006.01) F03B 13/20 (2006.01) H02N 2/18 (2006.01)**

[25] EN

[54] **FLOATING PIEZOELECTRIC ASSEMBLY FOR GENERATING ENERGY FROM WAVES**

[54] **ENSEMBLE PIEZO-ELECTRIQUE FLOTTANT POUR GENERER DE L'ENERGIE A PARTIR DES VAGUES**

[72] DAYSON, CLIVE, CA
[73] DAYSON, GAYNOR, CA
[86] (2980445)
[87] (2980445)
[22] 2017-09-27
[30] US (15/660,888) 2017-07-26

[11] **2,981,187**
[13] C

[51] **Int.Cl. B01J 3/08 (2006.01) B01J 19/26 (2006.01) C07C 2/00 (2006.01) C07C 11/22 (2006.01)**

[25] EN

[54] **PYROLYTIC REACTOR AND METHOD OF USING**

[54] **REACTEUR PYROLYTIQUE ET PROCEDE D'UTILISATION**

[72] GATTUPALLI, RAJESWAR R., US
[72] KUCHANA, VINAYENDER, US
[72] LEONARD, LAURA E., US
[72] KOLLATI, VIGNESWARA R., US
[72] SATTAR, AZIZ, US
[72] MOSTOFI-ASHTIANI, MOHAMMAD R., US
[72] SHAFE, PETER, US
[73] UOP LLC, US
[85] 2017-09-27
[86] 2016-06-13 (PCT/US2016/037145)
[87] (WO2016/209648)
[30] US (62/183,310) 2015-06-23

[11] **2,981,376**
[13] C

[51] **Int.Cl. H04W 16/28 (2009.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR A TRACKING CHANNEL**

[54] **SYSTEME ET PROCEDE DE POURSUITE DE CANAL**

[72] BALIGH, MOHAMMADHADI, CA
[72] MA, JIANGLEI, CA
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2017-09-29
[86] 2016-03-31 (PCT/CN2016/078103)
[87] (WO2016/155649)
[30] US (62/141,483) 2015-04-01
[30] US (62/213,444) 2015-09-02
[30] US (15/009,626) 2016-01-28

[11] **2,981,796**
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 47/00 (2012.01)**

[25] EN

[54] **CONDITION BASED MAINTENANCE PROGRAM BASED ON LIFE-STRESS ACCELERATION MODEL AND CUMULATIVE DAMAGE MODEL**

[54] **PROGRAMME DE MAINTENANCE CONDITIONNELLE BASE SUR UN MODELE D'ACCELERATION DES CONTRAINTES LIEES A LA DUREE DE VIE ET D'UN MODELE D'ENDOMMAGEMENTS CUMULES**

[72] JACKS, CURTIS, US
[72] BURKE, KEELEY, GB
[72] CHEN, WANYING, SG
[73] HALLIBURTON ENERGY SERVICES INC., US
[85] 2017-10-04
[86] 2015-05-18 (PCT/US2015/031419)
[87] (WO2016/186647)

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[11] **2,982,177**
[13] C

[51] **Int.Cl. E04D 5/00 (2006.01) E04B 1/62 (2006.01) E04B 1/66 (2006.01)**

[25] EN

[54] **BUILDING MULTILAYER UNDERLAYMENTS, RELATED BUILDING ASSEMBLIES AND METHODS**

[54] **SOUS-COUCHES MULTICOUCHES DE CONSTRUCTION, ASSEMBLAGES DE CONSTRUCTION ASSOCIES ET METHODES**

[72] KHAN, AMIR, US

[72] HYER, ROBERT M., US

[73] GARDNER-GIBSON, INC., US

[86] (2982177)

[87] (2982177)

[22] 2017-10-11

[30] US (15/341,717) 2016-11-02

[11] **2,983,834**
[13] C

[51] **Int.Cl. B66C 23/46 (2006.01) B66C 23/53 (2006.01) B66C 23/76 (2006.01) B66F 11/00 (2006.01) E02F 5/10 (2006.01) F16L 1/06 (2006.01)**

[25] EN

[54] **PIPELAYER WITH QUICK ATTACH COUNTERWEIGHTS**

[54] **POSE-TUBES DOTE DE CONTREPOIDS A FIXATION RAPIDE**

[72] PLETZ, MICHAEL, CA

[72] KLASSEN, DANIEL, CA

[73] BRANDT EQUIPMENT SOLUTIONS LTD., CA

[86] (2983834)

[87] (2983834)

[22] 2017-10-26

[30] CA (2974272) 2017-07-21

[30] US (62/536,594) 2017-07-25

[11] **2,984,418**
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) E21B 23/00 (2006.01) E21B 33/06 (2006.01) E21B 33/064 (2006.01) E21B 17/042 (2006.01)**

[25] EN

[54] **BLOWOUT-PREVENTER-STACK ONE-TRIP TEST TOOL AND METHOD**

[54] **OUTIL D'ESSAI NON RETOUR DE BLOC D'OBTURATION DE PUITES ET PROCEDE**

[72] WILLIAMS, BRIAN, US

[72] LAFLEUR, GREGORY, US

[73] BACKOFF, LLC, US

[85] 2017-10-30

[86] 2015-06-11 (PCT/US2015/035386)

[87] (WO2016/178699)

[30] US (14/704,646) 2015-05-05

[11] **2,982,851**
[13] C

[51] **Int.Cl. G02F 1/167 (2019.01) C09K 3/00 (2006.01) C09K 19/02 (2006.01)**

[25] EN

[54] **ELECTROPHORETIC DISPLAY FLUID**

[54] **FLUIDE D'AFFICHAGE ELECTROPHORETIQUE**

[72] DU, HUI, US

[72] LIN, CRAIG, US

[73] E INK CALIFORNIA, LLC, US

[85] 2017-10-13

[86] 2016-05-05 (PCT/US2016/030931)

[87] (WO2016/182839)

[30] US (62/159,831) 2015-05-11

[11] **2,983,835**
[13] C

[51] **Int.Cl. B66C 23/46 (2006.01) B66C 23/76 (2006.01) B66C 23/82 (2006.01) B66F 11/00 (2006.01) E02F 5/10 (2006.01) F16L 1/06 (2006.01)**

[25] EN

[54] **PIPELAYER MACHINE WITH SYMMETRICAL WINCHES**

[54] **MACHINE POSE-TUBES DOTE DE TREUILS SYMETRIQUES**

[72] PLETZ, MICHAEL, CA

[72] KLASSEN, DANIEL, CA

[73] BRANDT EQUIPMENT SOLUTIONS LTD., CA

[86] (2983835)

[87] (2983835)

[22] 2017-10-26

[30] CA (2,974,274) 2017-07-21

[30] US (62/536,596) 2017-07-24

[11] **2,984,476**
[13] C

[51] **Int.Cl. B60K 1/04 (2019.01) B60L 50/64 (2019.01) H01M 2/10 (2006.01)**

[25] EN

[54] **VEHICLE BATTERY UNIT**

[54] **UNITE DE BATTERIE POUR VEHICULE**

[72] NAKAYAMA, SHINYA, JP

[72] TAKEDOMI, HARUMI, JP

[73] HONDA MOTOR CO., LTD., JP

[85] 2017-10-31

[86] 2016-05-23 (PCT/JP2016/065214)

[87] (WO2016/194684)

[30] JP (2015-113855) 2015-06-04

[11] **2,983,115**
[13] C

[51] **Int.Cl. E21B 10/573 (2006.01) E21B 10/54 (2006.01)**

[25] EN

[54] **ATTACHMENT OF TSP DIAMOND RING USING BRAZING AND MECHANICAL LOCKING**

[54] **FIXATION D'ANNEAU EN DIAMANT POLYCRISTALLIN THERMIQUEMENT STABLE A L'AIDE D'UN BRASAGE ET D'UN VERROUILLAGE MECANIQUE**

[72] SAINI, GAGAN, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2017-10-17

[86] 2015-06-26 (PCT/US2015/037941)

[87] (WO2016/209256)

[11] **2,984,946**
[13] C

[51] **Int.Cl. E21B 43/02 (2006.01) E21B 27/00 (2006.01) E21B 43/08 (2006.01) E21B 33/14 (2006.01)**

[25] EN

[54] **FLUSHING FILTER**

[54] **FILTRE DE RINCAGE**

[72] GAO, BO, US

[72] BUDLER, NICHOLAS, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2017-11-01

[86] 2015-06-30 (PCT/US2015/038490)

[87] (WO2017/003445)

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[11] **2,985,704**
[13] C

[51] **Int.Cl. F04D 15/00 (2006.01) E21B 43/12 (2006.01) F04D 13/10 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR INJECTING A CHEMICAL TO FACILITATE OPERATION OF A SUBMERSIBLE WELL PUMP**
[54] **APPAREIL ET PROCÉDE POUR INJECTER UN PRODUIT CHIMIQUE AFIN DE FACILITER LE FONCTIONNEMENT D'UNE POMPE DE Puits SUBMERSIBLE**
[72] REID, LESLIE C., US
[72] KIRK, JORDAN, US
[72] MESSER, BRIAN W., US
[72] ALLRED, GARY, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2017-10-03
[86] 2016-04-01 (PCT/US2016/025599)
[87] (WO2016/164272)
[30] US (14/681,586) 2015-04-08

[11] **2,985,727**
[13] C

[51] **Int.Cl. B65G 47/72 (2006.01) B65G 27/12 (2006.01) B65G 27/16 (2006.01) B65G 47/78 (2006.01)**
[25] EN
[54] **IN-LINE ADJUSTABLE GATE**
[54] **PORTILLON REGLABLE EN LIGNE**
[72] SVEJKOVSKY, P. BLAKE, US
[72] SVEJKOVSKY, PAUL A. (DECEASED), US
[73] SVEJKOVSKY, KAREN SUE, US
[85] 2017-11-10
[86] 2015-05-14 (PCT/US2015/016908)
[87] (WO2016/182535)

[11] **2,987,537**
[13] C

[51] **Int.Cl. B08B 9/04 (2006.01)**
[25] EN
[54] **SEWER CLEANING DEVICE AND/OR STREET CLEANING DEVICE**
[54] **APPAREIL DE NETTOYAGE DES EGOITS OU APPAREIL DE NETTOYAGE DE RUE**
[72] WIEDEMANN, KARL, DE
[73] WIEDEMANN, KARL, DE
[86] (2987537)
[87] (2987537)
[22] 2017-12-01
[30] DE (DE 10 2016 015 407.1) 2016-12-22

[11] **2,993,060**
[13] C

[51] **Int.Cl. E02F 3/40 (2006.01)**
[25] EN
[54] **EDGE WEAR PROTECTOR SYSTEM**
[54] **SYSTEME DE PROTECTION CONTRE L'USURE DE REBORD**
[72] WILSON, IAN JAMES, ID
[73] MAKURI TECHNOLOGY PTE. LTD., SG
[85] 2018-01-26
[86] 2017-08-02 (PCT/SG2017/050390)
[87] (WO2019/027365)

[11] **2,993,998**
[13] C

[51] **Int.Cl. C10M 141/08 (2006.01) C10M 133/44 (2006.01) C10M 135/18 (2006.01)**
[25] EN
[54] **ANTIOXIDANT COMPOSITIONS COMPRISING DITHIOCARBAMATE AND TRIAZOLE FOR USE IN LUBRICANTS**
[54] **COMPOSITIONS ANTIOXYDANTES RENFERMANT DU DITHIOCARBAMATE ET DU TRIAZOLE DESTINEES A DES LUBRIFIANTS**
[72] GATTO, VINCENT J., US
[73] VANDERBILT CHEMICALS, LLC, US
[85] 2018-01-26
[86] 2016-08-02 (PCT/US2016/045149)
[87] (WO2017/030784)
[30] US (62/205,250) 2015-08-14

[11] **2,995,191**
[13] C

[51] **Int.Cl. A43C 11/00 (2006.01) A43C 11/08 (2006.01) A44B 13/00 (2006.01) A47G 25/80 (2006.01) B25J 1/04 (2006.01)**
[25] EN
[54] **SHOE FASTENING APPARATUS, SYSTEMS AND METHODS OF USING THE SAME**
[54] **APPAREILS DE SERRAGE DE CHAUSSURES ET SYSTEMES ET PROCÉDES D'UTILISATION DE CEUX-CI**
[72] BOSSERMAN, RICHARD, US
[73] BOSSERMAN, RICHARD, US
[86] (2995191)
[87] (2995191)
[22] 2018-02-14
[30] US (15/432,725) 2017-02-14

[11] **2,999,410**
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/024 (2006.01) A61B 5/04 (2006.01) A61B 5/145 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR HEALTH MONITORING USING A NON-INVASIVE, MULTI-BAND BIOSENSOR**
[54] **SYSTEME ET PROCÉDE DE SURVEILLANCE DE LA SANTE A L'AIDE D'UN BIOCAPTEUR MULTIBANDE INVASIF**
[72] NEWBERRY, ROBERT STEVEN, US
[73] SANMINA CORPORATION, US
[85] 2018-03-20
[86] 2016-09-25 (PCT/US2016/053631)
[87] (WO2017/053925)
[30] US (14/866,500) 2015-09-25
[30] US (62/276,934) 2016-01-10
[30] US (62/307,375) 2016-03-11
[30] US (62/312,614) 2016-03-24
[30] US (62/373,283) 2016-08-10
[30] US (62/383,313) 2016-09-02
[30] US (15/275,388) 2016-09-24

[11] **3,001,267**
[13] C

[51] **Int.Cl. B65C 3/16 (2006.01) B65C 9/04 (2006.01) B65G 21/20 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DISCHARGING OBJECTS WITH A NON-ROTATIONALLY SYMMETRICAL BASE SURFACE**
[54] **DISPOSITIF ET PROCÉDE D'EVACUATION D'OBJETS DOTES D'UNE SURFACE D'APPUI NE PRESENTANT PAS DE SYMETRIE DE REVOLUTION**
[72] HEUFT, BERNHARD, DE
[72] ZAPPAI, WOLFGANG, DE
[73] HEUFT SYSTEMTECHNIK GMBH, DE
[85] 2018-04-06
[86] 2016-11-07 (PCT/EP2016/076787)
[87] (WO2017/077099)
[30] DE (10 2015 014 275.5) 2015-11-06

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[11] **3,003,246**
[13] C

[51] **Int.Cl. B22F 9/26 (2006.01) B22F 1/00 (2006.01) H01B 13/00 (2006.01) H01B 5/00 (2006.01) H01M 4/52 (2010.01)**

[25] EN

[54] **METHOD FOR PRODUCING HIGH DENSITY NICKEL POWDER**

[54] **PROCEDE DE FABRICATION DE POUVRE DE NICKEL A HAUTE DENSITE**

[72] OHARA, HIDEKI, JP

[72] OZAKI, YOSHITOMO, JP

[72] HEGURI, SHIN-ICHI, JP

[72] TAKAISHI, KAZUYUKI, JP

[72] IKEDA, OSAMU, JP

[72] YONEYAMA, TOMOAKI, JP

[72] KUDO, YOHEI, JP

[73] SUMITOMO METAL MINING CO., LTD., JP

[85] 2018-04-25

[86] 2016-10-25 (PCT/JP2016/081632)

[87] (WO2017/073578)

[30] JP (2015-210245) 2015-10-26

[11] **3,003,817**
[13] C

[51] **Int.Cl. F28F 5/00 (2006.01) F01P 11/04 (2006.01) F28D 21/00 (2006.01) F28F 13/00 (2006.01) H02K 1/32 (2006.01)**

[25] EN

[54] **LIQUID-COOLED COOLING DEVICE WITH CHANNEL**

[54] **DISPOSITIF DE REFROIDISSEMENT REFROIDI PAR LIQUIDE DOTE D'UN CANAL**

[72] WANG, WEN-TENG, CN

[72] KU, TING-CHIH, CN

[73] JHENG HONG TECHNOLOGY CO., LTD., CN

[86] (3003817)

[87] (3003817)

[22] 2018-05-03

[30] TW (106114633) 2017-05-03

[11] **3,007,967**
[13] C

[51] **Int.Cl. B01D 37/02 (2006.01) B01D 39/18 (2006.01)**

[25] EN

[54] **MODIFIED CELLULOSE FIBERS AND PREPARATION METHOD**

[54] **FIBRES DE CELLULOSE MODIFIEES ET PROCEDE DE PRODUCTION**

[72] KUNZ, THOMAS, DE

[72] BRANDT, NIKLAS OLE, DE

[72] METHNER, FRANK-JURGEN, DE

[73] TECHNISCHE UNIVERSITAT BERLIN, DE

[85] 2018-06-08

[86] 2016-12-07 (PCT/EP2016/080155)

[87] (WO2017/097864)

[30] DE (10 2015 121 383.4) 2015-12-08

[11] **3,008,742**
[13] C

[51] **Int.Cl. H04B 7/195 (2006.01) B64G 1/10 (2006.01)**

[25] FR

[54] **METHOD AND SYSTEM FOR ACQUIRING IMAGES VIA A CONSTELLATION OF OBSERVATION SATELLITES**

[54] **PROCEDE ET SYSTEME D'ACQUISITION D'IMAGES PAR UNE CONSTELLATION DE SATELLITES D'OBSERVATION**

[72] GIRAUD, EMMANUEL, FR

[73] AIRBUS DEFENCE AND SPACE SAS, FR

[85] 2018-06-15

[86] 2016-12-14 (PCT/FR2016/053432)

[87] (WO2017/103481)

[30] FR (1562765) 2015-12-18

[11] **3,010,081**
[13] C

[51] **Int.Cl. C10G 1/04 (2006.01)**

[25] EN

[54] **CO2 INJECTION INTO A BITUMEN EXTRACTION PROCESS**

[54] **INJECTION DE CO2 DANS UN PROCEDE D'EXTRACTION DE BITUME**

[72] YAZDI, ALIREZA ZEHTAB, CA

[72] LIN, CHRISTOPHER, CA

[72] RENNARD, DAVID C., CA

[72] MARR, MICHAEL A., CA

[72] SAKUHUNI, GIVEMORE, CA

[72] DUNN, JAMES A., CA

[72] ESMAEILI, PAYMAN, CA

[72] KOROLUK, DEVON C., CA

[72] CASTELLANOS DUARTE, DIANA Y., US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[73] IMPERIAL OIL RESOURCES LIMITED, CA

[86] (3010081)

[87] (3010081)

[22] 2018-06-29

[11] **3,012,987**
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 21/08 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **DUAL BORE CO-MINGLER WITH MULTIPLE POSITION INNER SLEEVE**

[54] **CO-MELANGEUR A DOUBLE TROU AVEC MANCHON INTERNE A POSITIONS MULTIPLES**

[72] VAN DER VEEN, STEFFEN, NO

[72] DAHL, ESPEN, NO

[72] FALNES, MORTEN, NO

[72] LINDLAND, FRODE, NO

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-07-27

[86] 2016-03-15 (PCT/US2016/022432)

[87] (WO2017/160278)

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[11] **3,013,099**
[13] C

[51] **Int.Cl. E21C 45/04 (2006.01) E21C 27/20 (2006.01)**
[25] EN
[54] **ROCK BREAKING MECHANISM BY COMBINED PULSED JET AND MECHANICAL IMPACT**
[54] **MECANISME DE RUPTURE DE ROCHE COMBINE A CHOC MECANIQUE ET FLUX DE JET PULSE**
[72] JIANG, HONGXIANG, CN
[72] DU, CHANGLONG, CN
[72] LIU, SONGYONG, CN
[72] YANG, PEI, CN
[72] YANG, DAOLONG, CN
[72] HU, ZHENGWEI, CN
[72] GAO, KUIDONG, CN
[72] LI, HONGSHENG, CN
[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[85] 2018-07-30
[86] 2017-04-12 (PCT/CN2017/080270)
[87] (WO2018/054041)
[30] CN (201610846699.2) 2016-09-23

[11] **3,013,208**
[13] C

[51] **Int.Cl. E21B 17/18 (2006.01) E21B 34/06 (2006.01)**
[25] EN
[54] **SECONDARY SLURRY FLOW PATH MEMBER WITH SHUT-OFF VALVE ACTIVATED BY DISSOLVABLE FLOW TUBES**
[54] **ELEMENT DE TRAJET D'ECOULEMENT DE BOUILLIE SECONDAIRE AVEC SOUPEPE D'ARRET ACTIVEE PAR DES TUBES D'ECOULEMENT POUVANT ETRE DISSOUS**
[72] FISHER, BRITAIN A., US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2018-07-30
[86] 2017-02-01 (PCT/US2017/016001)
[87] (WO2017/136413)
[30] US (15/013,611) 2016-02-02

[11] **3,013,241**
[13] C

[51] **Int.Cl. A61C 3/02 (2006.01) A61B 17/16 (2006.01) A61C 8/00 (2006.01)**
[25] EN
[54] **DENTISTRY TOOL**
[54] **OUTIL DE DENTISTERIE**
[72] BURKE, EDMUND, CH
[72] SOLLBERGER, DAVID, CH
[72] NUSSBAUMER, SILVIO, CH
[72] HOLST, STEFAN, CH
[72] GEISELHORINGER, HANS, CH
[72] QUARRY, ANTONY, CH
[72] WEITZEL, JORG, DE
[73] NOBEL BIOCARE SERVICES AG, CH
[85] 2018-07-27
[86] 2017-01-30 (PCT/EP2017/051956)
[87] (WO2017/129828)
[30] EP (16153496.1) 2016-01-29

[11] **3,015,147**
[13] C

[51] **Int.Cl. A41B 1/16 (2006.01) A41B 3/00 (2006.01)**
[25] EN
[54] **EXPANDABLE AND FLEXIBLE SHIRT COLLAR STAND AND SHIRT WITH SAME**
[54] **PIED DE COL DE CHEMISE EXTENSIBLE ET SOUPLE ET CHEMISE COMPORTANT CELUI-CI**
[72] ROUP, HERMAN, US
[73] TALON TECHNOLOGIES, INC., US
[85] 2018-08-17
[86] 2017-02-01 (PCT/US2017/016090)
[87] (WO2017/151266)
[30] US (62/301,075) 2016-02-29

[11] **3,015,782**
[13] C

[51] **Int.Cl. G01G 19/415 (2006.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FRAUD-FREE SCRAP REMOVAL AND ACCOUNTING**
[54] **SYSTEME ET PROCEDE POUR RETRAIT DE FERRAILLE NON FRAUDULEUX ET COMPTABILISATION**
[72] FRANKEL, NATHAN, US
[73] ADVANCED STEEL RECOVERY, LLC, US
[86] (3015782)
[87] (3015782)
[22] 2018-08-28
[30] US (15/791,171) 2017-10-23

[11] **3,016,018**
[13] C

[51] **Int.Cl. G01S 11/00 (2006.01) G01S 11/02 (2010.01)**
[25] EN
[54] **DETECTING MOTION BASED ON REPEATED WIRELESS TRANSMISSIONS**
[54] **DETECTION DE MOUVEMENT SUR LA BASE D'EMISSIONS SANS FIL REPETEES**
[72] KRAVETS, OLEKSIY, CA
[72] MANKU, TAJINDER, CA
[73] COGNITIVE SYSTEMS CORP., CA
[85] 2018-08-27
[86] 2016-10-24 (PCT/CA2016/051229)
[87] (WO2017/177303)
[30] US (15/099,833) 2016-04-15

[11] **3,016,822**
[13] C

[51] **Int.Cl. H04W 52/38 (2009.01) H04W 64/00 (2009.01) H04W 68/00 (2009.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD-SOURCED PEDESTRIAN LOCALIZATION**
[54] **METHODE ET SYSTEME DE SURVEILLANCE D'UN DISPOSITIF MOBILE FONDEE SUR LE SERVEUR DANS LA LOCALISATION DE PIETON ISSUE D'INFORMATION FOURNIE PAR LA FOULE**
[72] BAVAND, MAJID, CA
[72] HUBERMAN, SEAN, CA
[72] GULO, EROS, CA
[72] NAGPAL, PARAMVIR SINGH, CA
[73] MAPSTED CORP., CA
[86] (3016822)
[87] (3016822)
[22] 2018-09-07
[30] US (15/928,182) 2018-03-22

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[11] **3,016,914**
[13] C

[51] **Int.Cl. G01N 33/542 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **METHODS OF ASSESSING PROTEIN INTERACTIONS BETWEEN CELLS**
[54] **PROCEDES D'EVALUATION D'INTERACTIONS DE PROTEINES ENTRE DES CELLULES**
[72] WALLWEBER, GERALD J., US
[73] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2018-09-06
[86] 2017-03-15 (PCT/US2017/022566)
[87] (WO2017/161030)
[30] US (62/308,587) 2016-03-15

[11] **3,017,428**
[13] C

[51] **Int.Cl. E21B 43/40 (2006.01) C02F 1/24 (2006.01) C02F 1/42 (2006.01) E21B 43/24 (2006.01) F22B 33/00 (2006.01)**
[25] EN
[54] **PROCESSES AND SYSTEMS FOR GENERATING STEAM FROM PRODUCED WATER**
[54] **PROCEDES ET SYSTEMES DE GENERATION DE VAPEUR A PARTIR D'EAU PRODUITE**
[72] ADAMS, STEWART A. H., CA
[72] SUN, SUSAN WEI, CA
[72] LEVESQUE, JEAN-PHILIPPE, CA
[73] CENOVUS ENERGY INC., CA
[86] (3017428)
[87] (3017428)
[22] 2017-07-05
[62] 2,972,383
[30] US (62/358,972) 2016-07-06

[11] **3,019,292**
[13] C

[51] **Int.Cl. C08B 5/00 (2006.01) D21H 11/18 (2006.01) D21H 15/02 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING FIBROUS CELLULOSE, AND FIBROUS CELLULOSE**
[54] **PROCEDE DE PRODUCTION DE CELLULOSE FIBREUSE ET CELLULOSE FIBREUSE**
[72] NOGUCHI, YUICHI, JP
[72] HOMMA, IKUE, JP
[72] MATSUBARA, YUSUKE, JP
[73] OJI HOLDINGS CORPORATION, JP
[85] 2018-09-27
[86] 2017-03-30 (PCT/JP2017/013352)
[87] (WO2017/170908)
[30] JP (2016-071161) 2016-03-31

[11] **3,022,442**
[13] C

[51] **Int.Cl. G01B 11/245 (2006.01) G01B 11/25 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL RECONSTRUCTION METHOD AND DEVICE BASED ON MONOCULAR THREE-DIMENSIONAL SCANNING SYSTEM**
[54] **METHODE DE RECONSTRUCTION TRIDIMENSIONNELLE ET DISPOSITIF FONDES SUR UN SYSTEME DE BALAYAGE TRIDIMENSIONNEL MONOCULAIRE**
[72] LIU, ZENGYI, CN
[72] ZHAO, XIAOBO, CN
[72] WANG, WENBIN, CN
[73] SHINING 3D TECH CO., LTD., CN
[85] 2018-10-29
[86] 2017-10-24 (PCT/CN2017/107506)
[87] (WO2019/015154)

[11] **3,022,527**
[13] C

[51] **Int.Cl. G01S 11/02 (2010.01)**
[25] EN
[54] **DETECTING MOTION BASED ON REFERENCE SIGNAL TRANSMISSIONS**
[54] **DETECTION DE MOUVEMENT SUR LA BASE DE TRANSMISSION DE SIGNAL DE REFERENCE**
[72] PIAO, YUNFENG, CA
[72] ZAKHAROV, MIKHAIL ALEXAND, CA
[72] NOGUEIRA, MARCO PAULO DOS SANTOS, CA
[72] DEVISON, STEPHEN ARNOLD, CA
[72] OMER, MOHAMMAD, CA
[73] COGNITIVE SYSTEMS CORP., CA
[85] 2018-10-29
[86] 2016-12-13 (PCT/CA2016/051466)
[87] (WO2017/193200)
[30] US (15/151,571) 2016-05-11

[11] **3,023,756**
[13] C

[51] **Int.Cl. G06F 1/16 (2006.01) E05B 73/00 (2006.01)**
[25] EN
[54] **LOCKING DOCK FOR PORTABLE ELECTRONIC DEVICE**
[54] **STATION D'ACCUEIL POUR DISPOSITIF ELECTRONIQUE PORTABLE**
[72] POWELL, REUBEN C. G., CA
[72] HOLEWSKI, JOZEF P., CA
[73] PRECISION MOUNTING TECHNOLOGIES LTD., CA
[86] (3023756)
[87] (3023756)
[22] 2018-11-09
[30] US (15/937,191) 2018-03-27
[30] US (16/050,249) 2018-07-31

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[11] **3,023,828**
[13] C

[51] **Int.Cl. A61K 31/13 (2006.01) A61K 31/496 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **COMBINATION OF PURE 5-HT6 RECEPTOR ANTAGONISTS WITH NMDA RECEPTOR ANTAGONIST**

[54] **COMBINAISON D'ANTAGONISTES PURS DES RECEPTEURS 5-HT6 ET D'UN ANTAGONISTE DES RECEPTEURS NMDA**

[72] NIROGI, RAMAKRISHNA, IN
[72] SHINDE, ANIL KARBHARI, IN
[72] JAYARAJAN, PRADEEP, IN
[72] BHYRAPUNENI, GOPINADH, IN
[72] KAMBHAMPATI, RAMASASTRI, IN
[72] JASTI, VENKATESWARLU, IN
[73] SUVEN LIFE SCIENCES LIMITED, IN

[85] 2018-11-09
[86] 2016-08-03 (PCT/IB2016/054674)
[87] (WO2017/199072)
[30] IN (201641017203) 2016-05-18

[11] **3,023,836**
[13] C

[51] **Int.Cl. A61K 31/13 (2006.01) A61K 31/445 (2006.01) A61K 31/496 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TRIPLE COMBINATION OF PURE 5-HT6 RECEPTOR ANTAGONISTS, ACETYLCHOLINESTERASE INHIBITORS AND NMDA RECEPTOR ANTAGONIST**

[54] **TRIPLE COMBINAISON D'ANTAGONISTES PURS DU RECEPTEURS 5-HT6, D'INHIBITEURS DE L'ACETYLCHOLINESTERASE ET D'ANTAGONISTES DU RECEPTEUR NMDA**

[72] NIROGI, RAMAKRISHNA, IN
[72] SHINDE, ANIL KARBHARI, IN
[72] JAYARAJAN, PRADEEP, IN
[72] BHYRAPUNENI, GOPINADH, IN
[72] KAMBHAMPATI, RAMASASTRI, IN
[72] JASTI, VENKATESWARLU, IN
[73] SUVEN LIFE SCIENCES LIMITED, IN

[85] 2018-11-09
[86] 2016-08-03 (PCT/IB2016/054672)
[87] (WO2017/199070)
[30] IN (201641017204) 2016-05-18

[11] **3,024,739**
[13] C

[51] **Int.Cl. A47G 9/04 (2006.01) A47C 21/02 (2006.01) A47G 9/02 (2006.01) A47G 9/10 (2006.01)**

[25] EN

[54] **COMFORT AND SAFETY LINEN SYSTEM**

[54] **SYSTEME DE LINGE DE LIT DE CONFORT ET DE SECURITE**

[72] SIEBUHR, JASON, US
[73] SIEBUHR, JASON, US
[85] 2018-11-16
[86] 2018-02-14 (PCT/US2018/018204)
[87] (WO2018/152219)
[30] US (62/459,896) 2017-02-16
[30] US (62/504,896) 2017-05-11
[30] US (62/594,816) 2017-12-05

[11] **3,028,820**
[13] C

[51] **Int.Cl. B60T 13/26 (2006.01) B60T 17/18 (2006.01)**

[25] EN

[54] **AIR BRAKE ADJUSTMENT TOOL AND VEHICLE GENERAL MULTI-TOOL**

[54] **OUTIL DE REGLAGE DE FREIN A AIR ET OUTIL MULTIPLE GENERAL POUR VEHICULE**

[72] OBAL, MICHAEL, CA
[73] OBAL, MICHAEL, CA
[85] 2018-12-20
[86] 2017-07-10 (PCT/CA2017/050834)
[87] (WO2018/010020)
[30] US (62/360,689) 2016-07-11

[11] **3,035,802**
[13] C

[51] **Int.Cl. H02K 9/197 (2006.01) H02K 1/32 (2006.01) H02K 7/18 (2006.01) H02K 9/19 (2006.01)**

[25] EN

[54] **METHOD FOR COOLING THE ROTOR OF AN ELECTRIC GENERATOR**

[54] **PROCEDE DE REFROIDISSEMENT DU ROTOR D'UN GENERATEUR ELECTRIQUE**

[72] NEUMAYER, FRITZ, AT
[72] CONTRERAS ESPADA, JESUS, CH
[73] ANDRITZ HYDRO GMBH, AT
[85] 2019-03-05
[86] 2017-08-10 (PCT/EP2017/070273)
[87] (WO2018/046219)
[30] AT (A50788/2016) 2016-09-06

[11] **3,042,555**
[13] C

[51] **Int.Cl. B08B 9/049 (2006.01) B08B 1/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR REMOTELY PROPELLING A FLEXIBLE LANCE INTO AND OUT OF A PIPING SYSTEM**

[54] **APPAREIL POUR PROPULSER A DISTANCE UNE LANCE FLEXIBLE DANS ET HORS D'UN SYSTEME DE TUYAUTERIE**

[72] ZINK, GERALD P., US
[72] SCHNEIDER, JOSEPH, US
[73] STONEAGE, INC., US
[85] 2019-05-01
[86] 2017-11-22 (PCT/US2017/063096)
[87] (WO2018/106453)
[30] US (15/374,585) 2016-12-09

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[21] **2,994,131**

[13] A1

[51] **Int.Cl. B27K 3/34 (2006.01)**
[25] EN
[54] **HIGH PERFORMANCE WOOD**
[54] **BOIS A HAUT RENDEMENT**
[72] SMITH, LARRY A., CA
[71] SMITH, LARRY A., CA
[22] 2018-02-16
[41] 2019-08-16

[21] **2,994,657**

[13] A1

[51] **Int.Cl. A63B 69/00 (2006.01) A63B 37/00 (2006.01)**
[25] EN
[54] **BREAK AWAY PRACTICE HOCKEY PUCK**
[54] **RONDELLE DE HOCKEY DE PRATIQUE D~ECHAPPEE**
[72] BAYRACK, MARTIN DALE, CA
[72] HEEMERYCK, BRADLEY JAY, CA
[71] HEEMERYCK, BRADLEY JAY, CA
[71] BAYRACK, MARTIN DALE, CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,659**

[13] A1

[51] **Int.Cl. B65D 85/52 (2006.01) B65D 81/02 (2006.01) B65D 81/18 (2006.01)**
[25] EN
[54] **SHIPPING CONTAINER FOR MULTIPLE LIVING PLANTS**
[54] **CONTENANT D'EXPEDITION DE PLUSIEURS PLANTS VIVANTS**
[72] STEWART, BRADLEY DAVID, CA
[71] STEWART, BRADLEY DAVID, CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,722**

[13] A1

[51] **Int.Cl. B62D 55/065 (2006.01) B62D 55/10 (2006.01)**
[25] FR
[54] **VEHICLE ON TRACKS**
[54] **VEHICULE SUR CHENILLES**
[72] UNKNOWN, ZZ
[71] BABIN, PIERRE, CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,737**

[13] A1

[51] **Int.Cl. A01D 34/00 (2006.01) H04W 84/00 (2009.01) A01D 34/835 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) B25J 19/02 (2006.01) B60P 3/42 (2006.01) E01H 5/09 (2006.01) G05D 1/02 (2006.01) H02J 7/00 (2006.01) H02P 7/00 (2016.01)**
[25] EN
[54] **SNOWMOWER AI ROBOT**
[54] **ROBOT IA SOUFFLEUR DE NEIGE**
[72] LI, ZHI, CA
[71] LI, ZHI, CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,740**

[13] A1

[51] **Int.Cl. B60R 9/06 (2006.01) E01H 5/06 (2006.01)**
[25] EN
[54] **UTV FRONT MULTI MOUNT**
[54] **SUPPORT MULTI AVANT POUR VEHICULE UTILITAIRE**
[72] MCKONE, LIONEL W., CA
[71] MCKONE, LIONEL W., CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,744**

[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01) A61B 5/16 (2006.01)**
[25] EN
[54] **ANI (ADAPTIVE NEUROMODULATORY IMPLANT)**
[54] **IMPLANT NEUROMODULATEUR ADAPTATIF (ANI)**
[72] CUMMINGS, NETANYA, CA
[71] CUMMINGS, NETANYA, CA
[22] 2018-02-12
[41] 2019-08-12

[21] **2,994,760**

[13] A1

[51] **Int.Cl. H02J 15/00 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD UTILIZING DEFLECTION CONVERSION FOR INCREASING THE ENERGY, EFFICIENCY OF A CIRCUIT, DIFFERENT CIRCUIT CONFIGURATIONS COMPOSING A GROUP TERMED DEFLECTION CONVERTERS**
[54] **SYSTEME ET METHODE D'UTILISATION DE CONVERSION DE DEVIATION DESTINES A AUGMENTER L'ENERGIE, LE RENDEMENT D~UN CIRCUIT, CONFIGURATIONS DE DIFFERENTS CIRCUITS COMPOSANT UN GROUPE DECONVERTISSEURS DE DEVIATION DESIGNES**
[72] MILLER, MITCHELL B., CA
[71] MILLER, MITCHELL B., CA
[22] 2018-02-12
[41] 2019-08-12

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[21] **2,994,884**
[13] A1

[51] **Int.Cl. B60S 1/68 (2006.01) B62D 61/00 (2006.01)**
[25] EN
[54] **DUAL TIRE DEBRIS CLEANER**
[54] **NETTOYEUR DE DEBRIS DE DOUBLE PNEU**
[72] UJIYE, TREVOR, CA
[72] UJIYE, MICHAEL, CA
[71] UJIYE, TREVOR, CA
[71] UJIYE, MICHAEL, CA
[22] 2018-02-13
[41] 2019-08-13

[21] **2,994,887**
[13] A1

[51] **Int.Cl. A47J 42/24 (2006.01) A24B 3/18 (2006.01) A24B 5/16 (2006.01) A47J 42/30 (2006.01) A47J 42/38 (2006.01)**
[25] EN
[54] **GRINDING APPARATUS**
[54] **APPAREIL DE MEULAGE**
[72] SMITH, KIYOSHI, CA
[72] SMITH, KENJI, CA
[72] SMITH, SEIJI, CA
[71] RHIZA IRRIGATION LTD., CA
[22] 2018-02-13
[41] 2019-08-13

[21] **2,995,096**
[13] A1

[51] **Int.Cl. A61K 38/07 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC COMPOSITIONS INCLUDING MITOCHONDRIAL CELL-PENETRATING PEPTIDES, GLUTATHIONE ANALOG PEPTIDES, AND FUSIONS THEREOF, AND USES OF THE COMPOSITIONS TO TREAT AND PREVENT MITOCHONDRIAL DISEASES AND CONDITIONS**
[54] **COMPOSITIONS THERAPEUTIQUES COMPRENANT DES PEPTIDES PENETRANT LA CELLULE MITOCHONDRIALE, DES PEPTIDES ANALOGUES DE GLUTATHION, ET DES FUSIONS ASSOCIEES, ET UTILISATIONS DES COMPOSITIONS POUR TRAITER ET PREVENIR LES MALADIES ET TROUBLES MITOCHONDRIAUX**
[72] BAMBERGER, MARK, US
[71] STEALTH BIOTHERAPEUTICS CORP, KY
[22] 2018-02-13
[41] 2019-08-13

[21] **2,995,104**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01)**
[25] EN
[54] **WOVEN FENCE SYSTEM**
[54] **SYSTEME DE CLOTURE TISSEE**
[72] FROESE, WILLIE, CA
[72] STAPLETON, DAVID, CA
[71] FROESE, WILLIE, CA
[71] STAPLETON, DAVID, CA
[22] 2018-02-14
[41] 2019-08-13
[30] US (15895916) 2018-02-13

[21] **2,995,123**
[13] A1

[51] **Int.Cl. E02D 29/02 (2006.01) E02D 5/14 (2006.01)**
[25] EN
[54] **FLUID CONTAINMENT DEVICE**
[54] **DISPOSITIF DE CONFINEMENT DE FLUIDE**
[72] MCKECHNIE, KRIS, CA
[71] MCKECHNIE, KRIS, CA
[22] 2018-02-14
[41] 2019-08-14

[21] **2,995,181**
[13] A1

[51] **Int.Cl. B60C 13/00 (2006.01) B60B 7/00 (2006.01)**
[25] EN
[54] **TIRE PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION DE PNEU**
[72] TREPANIER, PIERRE, CA
[71] TREPANIER, PIERRE, CA
[22] 2018-02-15
[41] 2019-08-15

[21] **2,995,227**
[13] A1

[51] **Int.Cl. A61F 2/30 (2006.01) A61F 2/38 (2006.01) A61F 2/42 (2006.01)**
[25] EN
[54] **PROSTHESIS INCLUDING BALL AND SOCKET ARRANGEMENT**
[54] **PROTHESE COMPRENANT UNE DISPOSITION DE BOULE ET DE CAVITE**
[72] SCHEKER, LUIS ROMAN, US
[71] APTIS MEDICAL, LLC, US
[22] 2018-02-15
[41] 2019-08-15

[21] **2,995,242**
[13] A1

[51] **Int.Cl. G06K 9/62 (2006.01) A61B 5/103 (2006.01) A61B 5/11 (2006.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ACTIVITY CLASSIFICATION**
[54] **METHODE ET SYSTEME DE CLASSIFICATION D'ACTIVITE**
[72] BROWN, COLIN J., CA
[72] TOLSTIKHIN, ANDREY, CA
[72] PETERS, THOMAS D., CA
[72] CHO, DONGWOOK, CA
[72] ZHANG, MAGGIE, CA
[72] KRUSZEWSKI, PAUL A., CA
[71] WRNCH INC., CA
[22] 2018-02-15
[41] 2019-08-15

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[21] **2,995,244**
 [13] A1

[51] **Int.Cl. H04R 1/10 (2006.01) A45C 11/00 (2006.01) H01M 2/06 (2006.01) H01M 10/44 (2006.01) H05K 5/02 (2006.01)**

[25] EN

[54] **A PORTABLE HEADPHONE CABLE TIE WITH BATTERY PACK CASE**

[54] **UNE ATTACHE DE CABLE DE CASQUE D'ECOUTE PORTABLE DOTEE D'UN LOGEMENT DE BLOC-PILE**

[72] PATNALA, SANTOSH SASIKANTH, CA

[71] PATNALA, SANTOSH SASIKANTH, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,254**
 [13] A1

[51] **Int.Cl. A63B 69/00 (2006.01) A63B 22/00 (2006.01)**

[25] EN

[54] **SKATING TRAINING DEVICE**

[54] **DISPOSITIF D'ENTRAINEMENT AU PATINAGE**

[72] FORTIER, DEREK, CA

[72] BEAULIEU, GERARD, CA

[71] FORTIER, DEREK, CA

[71] BEAULIEU, GERARD, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,260**
 [13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A24D 1/18 (2006.01) A24F 47/00 (2006.01) A61K 9/72 (2006.01) A61P 25/34 (2006.01)**

[25] EN

[54] **METHOD OF AIDING SMOKING CESSATION BY USE OF MARIJUANA CIGARETTE**

[54] **METHODE D-AIDE A LA CESSATION DU TABAGISME AU MOYEN DE CIGARETTE DE MARIJUANA**

[72] OSHANA, SERGON, CA

[71] OSHANA, SERGON, CA

[22] 2018-02-16

[41] 2019-08-16

[21] **2,995,261**
 [13] A1

[51] **Int.Cl. E06B 1/70 (2006.01)**

[25] EN

[54] **THRESHOLD ASSEMBLY FOR OVERHEAD GARAGE DOOR**

[54] **MECANISME DE SEUIL DESTINE A UNE PORTE DE GARAGE BASCULANTE**

[72] DOERKSEN, LINLEY, CA

[71] DOERKSEN, LINLEY, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,265**
 [13] A1

[51] **Int.Cl. B62D 55/08 (2006.01)**

[25] EN

[54] **REAR TRACK ASSEMBLY FOR A VEHICLE AND TRACK**

[54] **MECANISME DE RAIL ARRIERE DESTINE A UN VEHICULE ET RAIL**

[72] GAGNE, MAXIME, CA

[72] MARCHILDON, LOUIS-FREDERIC, CA

[72] DEVIN, CHARLES, CA

[72] L'HERAULT, PATRICK, CA

[71] SOUCY INTERNATIONAL INC., CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,266**
 [13] A1

[51] **Int.Cl. F42B 12/54 (2006.01) A01K 13/00 (2006.01) A61D 7/00 (2006.01) A61M 5/20 (2006.01)**

[25] EN

[54] **SELF-REMOVING RANGE ANIMAL INJECTION APPARATUS**

[54] **APPAREIL D'INJECTION POUR ANIMAL A PLAGE D'AUTO-EXTRACTION**

[72] WIART, GENE, CA

[71] WIART, GENE, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,276**
 [13] A1

[51] **Int.Cl. B60F 5/00 (2006.01) B62J 99/00 (2009.01) B60P 3/10 (2006.01) B62D 63/08 (2006.01) B63B 35/73 (2006.01) B63H 16/08 (2006.01)**

[25] EN

[54] **TRAILER WATER BIKE KIT**

[54] **TROUSSE DE VELO AQUATIQUE REMORQUE**

[72] DJURICA, RADOSLAV, CA

[71] DJURICA, RADOSLAV, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,276**
 [13] A1

[51] **Int.Cl. B60F 5/00 (2006.01) B62J 99/00 (2009.01) B60P 3/10 (2006.01) B62D 63/08 (2006.01) B63B 35/73 (2006.01) B63H 16/08 (2006.01)**

[25] EN

[54] **TRAILER WATER BIKE KIT**

[54] **TROUSSE DE VELO AQUATIQUE REMORQUE**

[72] DJURICA, RADOSLAV, CA

[71] DJURICA, RADOSLAV, CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,278**
 [13] A1

[51] **Int.Cl. B62D 55/08 (2006.01)**

[25] EN

[54] **TRACK ASSEMBLY AND VEHICLE**

[54] **ASSEMBLAGE DE RAIL ET VEHICULE**

[72] AUBIN-MARCHAND, JEREMIE, CA

[72] L'HERAULT, PATRICK, CA

[72] ROGER, YAN, CA

[72] GAGNON, DAVID, CA

[72] PELLETIER, STEPHANE, CA

[72] COUTURE, RAPHAEL, CA

[72] ROY, CHARLES, CA

[71] SOUCY INTERNATIONAL INC., CA

[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA

[22] 2018-02-15

[41] 2019-08-15

[21] **2,995,439**
 [13] A1

[51] **Int.Cl. B05B 3/14 (2006.01)**

[25] EN

[54] **IMPROVED SPRINKLER STRUCTURE**

[54] **STRUCTURE DE GICLEUR AMELIOREE**

[72] CHENG, CHI-HAN, CN

[71] YUAN MEI CORP., CN

[22] 2018-02-16

[41] 2019-08-16

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[21] **2,995,506**
[13] A1

[51] **Int.Cl. A63F 9/10 (2006.01) B42D 15/04 (2006.01)**
[25] EN
[54] **A JIGSAW PUZZLE THAT ACTS AS SINGLE AND MULTIPLE GREETING CARDS**
[54] **UN PUZZLE QUI AGIT COMME UNE CARTE DE SOUHAITS SIMPLE ET MULTIPLE**
[72] UNKNOWN, ZZ
[71] TIMARIU, IOANA, CA
[22] 2018-02-16
[41] 2019-08-16

[21] **2,995,522**
[13] A1

[51] **Int.Cl. D06F 58/00 (2006.01) D06F 58/20 (2006.01)**
[25] EN
[54] **DRYER DRAGON**
[54] **DRAGON SECHEUR**
[72] JEWER, DIANA L., CA
[71] JEWER, DIANA L., CA
[22] 2018-02-16
[41] 2019-08-16

[21] **2,995,534**
[13] A1

[51] **Int.Cl. B65D 21/032 (2006.01)**
[25] EN
[54] **STACKABLE CONTAINER**
[54] **CONTENANT EMPILABLE**
[72] ROWLEY, DEAN, CA
[71] ROWLEY, DEAN, CA
[22] 2018-02-16
[41] 2019-08-16

[21] **2,995,537**
[13] A1

[51] **Int.Cl. F21V 99/00 (2006.01) H04W 4/00 (2018.01) A01M 1/22 (2006.01) F21S 10/02 (2006.01) F21V 33/00 (2006.01) H05B 37/02 (2006.01)**
[25] EN
[54] **SMART BULB**
[54] **AMPOULE INTELLIGENTE**
[72] SMITH, MARK, CA
[72] VASUDEVA, KAILASH, CA
[71] MAXTECH MOSQUITO CONTROL INC., CA
[22] 2018-02-16
[41] 2019-08-16

[21] **2,995,962**
[13] A1

[51] **Int.Cl. B60Q 1/52 (2006.01) B60Q 1/50 (2006.01)**
[25] EN
[54] **APPARATUS FOR SIGNALING A ROADSIDE EMERGENCY**
[54] **APPAREIL DE SIGNALISATION D~UNE URGENCE EN BORDURE DE ROUTE**
[72] LESTER, DAVID C., CA
[71] LESTER, DAVID C., CA
[22] 2018-02-22
[41] 2019-08-16
[30] US (15898409) 2018-02-16

[21] **2,997,589**
[13] A1

[51] **Int.Cl. B66C 13/00 (2006.01) B66C 13/16 (2006.01) B66C 23/36 (2006.01) F16L 1/06 (2006.01)**
[25] EN
[54] **MONITORING SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE SURVEILLANCE**
[72] STILBORN, MITCH, CA
[72] SEMPLE, CHRIS, CA
[71] BRANDT EQUIPMENT SOLUTIONS LTD., CA
[22] 2018-03-07
[41] 2019-08-15
[30] US (62/631,059) 2018-02-15

[21] **2,998,020**
[13] A1

[51] **Int.Cl. A61L 15/42 (2006.01) A01K 13/00 (2006.01) A61D 99/00 (2006.01) A61F 13/15 (2006.01) G01N 33/52 (2006.01) A61F 13/42 (2006.01) A61L 15/56 (2006.01)**
[25] EN
[54] **HEALTH MONITORING EXCRETA PAD**
[54] **SERViette A EXCREMENTS SERVANT A SURVEILLER L~ETAT DE SANTE**
[72] ROTMAN, DANIEL JOSEPH, US
[71] PRETTY LITTER, INC., US
[22] 2018-03-13
[41] 2019-08-16
[30] US (62/631,572) 2018-02-16

[21] **3,000,375**
[13] A1

[51] **Int.Cl. A47B 87/00 (2006.01) A47B 21/00 (2006.01) A47B 21/013 (2006.01) A47B 21/06 (2006.01) A47B 41/00 (2006.01)**
[25] EN
[54] **DESKING ARRANGEMENT**
[54] **ARRANGEMENT DE BUREAU**
[72] LUNDBERG, OLLE, SE
[72] FLOTNER, RICHARD, CA
[72] FANG, ZHONGYAO, CA
[72] WORONECKI, PETER, CA
[72] PARSHAD, DAVID, CA
[71] INSCAPE CORPORATION, CA
[22] 2018-04-05
[41] 2019-08-12
[30] US (15/894,369) 2018-02-12

[21] **3,001,368**
[13] A1

[51] **Int.Cl. F21V 29/70 (2015.01) F21V 29/71 (2015.01) F21K 9/00 (2016.01)**
[25] EN
[54] **LED HEAT PIPE ASSEMBLY**
[54] **ASSEMBLAGE DE TUYAU DE CHAUFFAGE A DEL**
[72] WANDREY, JOHN, US
[71] STERNBERG LANTERNS, INC., US
[22] 2018-04-13
[41] 2019-08-14
[30] US (15/896,153) 2018-02-14

[21] **3,003,503**
[13] A1

[51] **Int.Cl. A47L 13/16 (2006.01) A47L 1/15 (2006.01) A47L 13/20 (2006.01)**
[25] EN
[54] **SUPER ABSORBENT MOP**
[54] **VADROUILLE SUPER ABSORBANTE**
[72] RIBBE, SCOTT E., US
[72] HARRY, DAVID R., US
[71] GEERPRES, INC., US
[22] 2018-05-02
[41] 2019-08-12
[30] US (62/629,271) 2018-02-12
[30] US (15/964,034) 2018-04-26

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[21] **3,003,832**
 [13] A1

[51] **Int.Cl. G08B 21/00 (2006.01) F21S 4/24 (2016.01) A41D 1/04 (2006.01) A41D 13/002 (2006.01) A41D 13/01 (2006.01) A41D 27/12 (2006.01) F21V 33/00 (2006.01) G08B 5/36 (2006.01) G08B 13/196 (2006.01) H04B 7/26 (2006.01) H04N 7/18 (2006.01)**

[25] EN
 [54] **RAILYARD CREW MEMBER VEST FOR USE WITHIN A RAILYARD**
 [54] **VESTE DE MEMBRE D'UNE EQUIPE DE DEPOT DE RAILS DESTINEE A ETRE UTILISEE DANS UN DEPOT DE RAILS**

[72] PRESTON, JON A., US
 [72] BURGESS, CHRIS, US
 [72] CHASTINE, JEFF, US
 [72] GIERTYCH, ANTHONY J., US
 [72] ROBERTS, JOHN, US
 [71] RAILSERVE, INC., US
 [22] 2018-05-03
 [41] 2019-08-12
 [30] US (15/894,066) 2018-02-12

[21] **3,006,320**
 [13] A1

[51] **Int.Cl. B63B 35/74 (2006.01) A63C 5/06 (2006.01) B63B 35/79 (2006.01)**

[25] EN
 [54] **WATER SPORTS BOARD WITH FOLDABLE SEAT BACK**
 [54] **PLANCHE DE SPORTS AQUATIQUES EQUIPEE D'UN DOSSIER DE SIEGE PLIANT**

[72] YEH, TZONG IN, US
 [72] KOCNER, MICHAL, US
 [71] AGIT GLOBAL IP HOLDINGS, LLC, US
 [22] 2018-05-28
 [41] 2019-08-14
 [30] TW (107105671) 2018-02-14

[21] **3,008,088**
 [13] A1

[51] **Int.Cl. E05B 47/00 (2006.01)**

[25] EN
 [54] **ELECTRIC LOCK AND CLUTCH MECHANISM THEREOF**
 [54] **VERROU ELECTRIQUE ET MECANISME D'EMBRAYAGE ASSOCIE**

[72] LU, SHIH-MIN, CN
 [71] TAIWAN FU HSING INDUSTRIAL CO., LTD., CN
 [22] 2018-06-13
 [41] 2019-08-13
 [30] TW (107105166) 2018-02-13

[21] **3,009,410**
 [13] A1

[51] **Int.Cl. E04H 17/20 (2006.01)**

[25] EN
 [54] **RAIL POST VERTICAL EXTENSION SYSTEM**
 [54] **SYSTEME DE RALLONGE VERTICALE DE POTEAU DE RAIL**

[72] ZOUTMAN, RYAN, CA
 [71] ZOUTMAN, RYAN, CA
 [22] 2018-06-26
 [41] 2019-08-12
 [30] US (15/953,145) 2018-04-13

[21] **3,018,852**
 [13] A1

[51] **Int.Cl. H01M 4/136 (2010.01) H01M 4/1397 (2010.01) H01M 10/0525 (2010.01)**

[25] EN
 [54] **ELECTRODE MATERIAL FOR LITHIUM ION BATTERY AND LITHIUM ION BATTERY**
 [54] **MATERIAU D'ELECTRODE DESTINE A UNE BATTERIE LITHIUM-ION ET BATTERIE LITHIUM-ION**

[72] OSHITARI, SATORU, JP
 [72] OYAMA, MASATAKA, JP
 [72] YAMAYA, RYUUTA, JP
 [71] SUMITOMO OSAKA CEMENT CO., LTD., JP
 [22] 2018-09-26
 [41] 2019-08-15
 [30] JP (2018-068647) 2018-03-30

[21] **3,026,926**
 [13] A1

[51] **Int.Cl. A61B 17/32 (2006.01) A61B 17/00 (2006.01) A61B 17/03 (2006.01) A61B 17/3205 (2006.01) A61M 1/00 (2006.01)**

[25] EN
 [54] **POWERED TISSUE RESECTING DEVICE**
 [54] **APPAREIL ELECTRIQUE DE DISSECTION DE TISSU**

[72] WHIPPLE, DALE E., US
 [71] COVIDIEN LP, US
 [22] 2018-12-10
 [41] 2019-08-13
 [30] US (15/895,407) 2018-02-13

[21] **3,027,387**
 [13] A1

[51] **Int.Cl. G02B 6/255 (2006.01) G02B 6/44 (2006.01)**

[25] EN
 [54] **REINFORCEMENT SLEEVE**
 [54] **MANCHON DE RENFORT**

[72] AGATA, KATSUSHI, JP
 [72] MOMOTSU, NORIHIRO, JP
 [71] FUJIKURA LTD., JP
 [22] 2018-12-13
 [41] 2019-08-13
 [30] JP (2018-023207) 2018-02-13

[21] **3,028,054**
 [13] A1

[51] **Int.Cl. B60R 22/00 (2006.01)**

[25] EN
 [54] **GUIDE-WEB**
 [54] **GUIDE-BANDE**

[72] ORDERS, GARETT, US
 [71] AMI INDUSTRIES, INC., US
 [22] 2018-12-18
 [41] 2019-08-17
 [30] US (15/898,472) 2018-02-17

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[21] **3,029,915**
[13] A1

[51] **Int.Cl. A01G 25/09 (2006.01) A01C 23/00 (2006.01) A01M 7/00 (2006.01)**
[25] EN
[54] **SPRAYERS IN A TEMPERATURE INVERSION**
[54] **PULVERISATEURS DANS UNE INVERSION DE TEMPERATURE**
[72] ANDERSON, NOEL W., US
[72] HUMPAL, RICHARD A., US
[72] PICKETT, TERENCE D., US
[72] FUNSETH, TRAVIS G., US
[71] DEERE & COMPANY, US
[22] 2019-01-14
[41] 2019-08-14
[30] US (15/896,776) 2018-02-14

[21] **3,029,916**
[13] A1

[51] **Int.Cl. A01D 41/127 (2006.01)**
[25] EN
[54] **CONTROLLING AN AGRICULTURAL IMPLEMENT USING A METRIC PRIORITY**
[54] **CONTROLE D'UN ACCESSOIRE AGRICOLE AU MOYEN D'UNE PRIORITE METRIQUE**
[72] SPORRER, ADAM D., US
[72] THEILEN, RICKY B., US
[72] LARSEN, LUCAS B., US
[72] KRANTZ, JEREMY D., US
[71] DEERE & COMPANY, US
[22] 2019-01-14
[41] 2019-08-14
[30] US (15/896,757) 2018-02-14

[21] **3,029,964**
[13] A1

[51] **Int.Cl. B63G 8/08 (2006.01) B63H 21/17 (2006.01) F03G 7/04 (2006.01) H01L 35/00 (2006.01) H02J 7/00 (2006.01) H02J 15/00 (2006.01) H02N 11/00 (2006.01)**
[25] EN
[54] **UNDERWATER ENERGY HARVESTING DRONE AND METHOD FOR OPERATION**
[54] **DRONE DE RECOLTE D-ENERGIE SOUS-MARINE ET METHODE D-EXPLOITATION**
[72] HILLER, NATHAN D., US
[71] THE BOEING COMPANY, US
[22] 2019-01-14
[41] 2019-08-12
[30] US (15/894613) 2018-02-12

[21] **3,030,086**
[13] A1

[51] **Int.Cl. A61N 1/378 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **ELECTROTHERAPY DEVICE CAPABLE OF GRADUALLY INCREASING STIMULATION INTENSITY**
[54] **APPAREIL D'ELECTROTHERAPIE CAPABLE D'AUGMENTER PROGRESSIVEMENT L'INTENSITE DE LA STIMULATION**
[72] HO, HOI MING MICHAEL, CA
[71] HO, HOI MING MICHAEL, CA
[22] 2019-01-15
[41] 2019-08-13
[30] US (15/895,004) 2018-02-13

[21] **3,030,264**
[13] A1

[51] **Int.Cl. G01C 19/34 (2006.01)**
[25] EN
[54] **AUTOMATIC HEADING CORRECTION FOR DIRECTIONAL GYROSCOPES**
[54] **CORRECTION D-ORIENTATION AUTOMATIQUE DE GYROSCOPES DIRECTIONNELS**
[72] OLTHETEN, ERIK JOHN, US
[72] HALVERSON, AARON THOMAS, US
[71] BELL HELICOPTER TEXTRON INC., US
[22] 2019-01-15
[41] 2019-08-12
[30] US (15/894,871) 2018-02-12

[21] **3,030,266**
[13] A1

[51] **Int.Cl. G05D 1/10 (2006.01) B64C 13/18 (2006.01)**
[25] EN
[54] **AUTOPILOT RECOUPLING FOR ROTORCRAFT**
[54] **RACCORDEMENT DE PILOTE AUTOMATIQUE DESTINE A UN GIRAVION**
[72] OLTHETEN, ERIK JOHN, US
[72] HALVERSON, AARON THOMAS, US
[72] EMBLIN, ERIC GORDON, US
[71] BELL HELICOPTER TEXTRON INC., US
[22] 2019-01-15
[41] 2019-08-12
[30] US (15/894,876) 2018-02-12

[21] **3,030,394**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04L 9/14 (2006.01)**
[25] EN
[54] **HARVESTING AND DISTRIBUTING A CERTIFICATE BASED ON A DNS NAME**
[54] **RECOLTE ET DISTRIBUTION D'UN CERTIFICAT FONDEES SUR UN NOM DNS**
[72] JOYNER, BRYAN ADAM, US
[72] MORRISON, KELLY SUE, US
[72] ROBERTSON, DAVID JOSEPH, US
[71] ZIXCORP SYSTEMS, INC., US
[22] 2019-01-17
[41] 2019-08-14
[30] US (15/896,655) 2018-02-14

[21] **3,030,840**
[13] A1

[51] **Int.Cl. E21B 7/24 (2006.01) E21B 3/02 (2006.01) E21B 15/00 (2006.01)**
[25] EN
[54] **DRILLING DEVICE FOR EARTH OR ROCK DRILLING AND METHOD FOR RETROFITTING SUCH A DRILLING DEVICE**
[54] **DISPOSITIF DE FORAGE DESTINE AU FORAGE DE TERRE OU DE ROC ET METHODE D'ADAPTATION D'UN TEL DISPOSITIF DE FORAGE**
[72] MERZHAUSER, MARKUS, DE
[72] KOESTER, ROBIN, DE
[71] EURODRILL GMBH, DE
[22] 2019-01-22
[41] 2019-08-13
[30] EP (EP18156426.1) 2018-02-13

[21] **3,031,090**
[13] A1

[51] **Int.Cl. H02M 1/10 (2006.01) H02J 1/00 (2006.01) H02M 3/135 (2006.01) H02M 7/155 (2006.01)**
[25] EN
[54] **CIRCUIT FOR CONVERTING AN AC OR A DC ELECTRICAL INPUT INTO A DC ELECTRICAL OUTPUT**
[54] **CIRCUIT DE CONVERSION D'UNE ENTREE ELECTRIQUE CA OU CC EN UNE SORTIE ELECTRIQUE CC**
[72] COURCY, CLAUDE, CA
[71] MANIA-TRONIQUE 1993 INC., CA
[22] 2019-01-23
[41] 2019-08-15
[30] US (62/631,275) 2018-02-15

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[21] **3,031,683**
[13] A1

[51] **Int.Cl. E01C 19/18 (2006.01) B60P 1/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PAVING A SURFACE AND REMOTELY CONTROLLING THE FLOW OF PAVING MATERIAL FROM A DUMP TRUCK INTO A HOPPER OF A PAVER**
[54] **SYSTEME ET METHODE DE PAVAGE D'UNE SURFACE ET DE CONTROLE A DISTANCE DE L'ECOULEMENT DE MATERIAU DE PAVAGE D'UN CAMION A BENNE DANS UNE TREMIE D'UN CAMION DE PAVAGE**
[72] GODWIN, JAMES PATRICK, JR., US
[71] GODWIN, JAMES PATRICK, JR., US
[22] 2019-01-28
[41] 2019-08-13
[30] US (15/894,982) 2018-02-13

[21] **3,031,964**
[13] A1

[51] **Int.Cl. C07F 9/58 (2006.01) B01J 31/00 (2006.01) C07C 67/38 (2006.01)**
[25] EN
[54] **PROPYL-BRIDGED DIPHOSPHINE LIGANDS FOR ALKOXYCARBONYLATION**
[54] **LIGANDS DIPHOSPHINE A CONNEXION PROPYLE DESTINES A L'ALKOXYCARBONYLATION**
[72] LIU, JIAWANG, CN
[72] DONG, KAIWU, CN
[72] FRANKE, ROBERT, DE
[72] NEUMANN, HELFRIED, DE
[72] JACKSTELL, RALF, DE
[72] BELLER MATTHIAS, DE
[71] EVONIK DEGUSSA GMBH, DE
[22] 2019-01-29
[41] 2019-08-14
[30] EP (18156675.3) 2018-02-14

[21] **3,032,166**
[13] A1

[51] **Int.Cl. E01C 23/14 (2006.01) E01C 23/02 (2006.01) E01C 23/06 (2006.01) E01C 23/09 (2006.01)**
[25] EN
[54] **COLD IN-PLACE RECYCLING WITH HEATING ASSEMBLY INCLUDING A HEATER FOR ASPHALT CEMENT AND A HEAT-MODIFYING COMPONENT**
[54] **RECYCLAGE SUR PLACE A FROID COMPORTANT UN MECANISME DE CHAUFFAGE COMPRENANT UN APPAREIL DE CHAUFFAGE DESTINE AU CIMENT ASPHALTE ET UNE COMPOSANTE MODIFIANT LA CHALEUR**
[72] CHRISTIAN, RICHARD, US
[72] BAKER, RAYMOND CLARK, IV, US
[71] ROADTEC, INC., US
[22] 2019-01-31
[41] 2019-08-12
[30] US (62/629,296) 2018-02-12

[21] **3,032,620**
[13] A1

[51] **Int.Cl. E21B 17/04 (2006.01) E21B 17/042 (2006.01)**
[25] EN
[54] **FLEXIBLE COUPLING FOR DOWNHOLE DRIVE STRING**
[54] **RACCORD FLEXIBLE DE COLONNE DE TUBAGE DE FOND DE TROU**
[72] ROSTEN, DOUGLAS, CA
[72] KITCHEN, DEREK, CA
[72] GOLINOWSKI, JEFFREY, CA
[72] ROSTEN, TREVOR, CA
[72] BROWN, CODY, CA
[71] AVALON RESEARCH LTD., CA
[22] 2019-02-04
[41] 2019-08-15
[30] US (62/631,123) 2018-02-15

[21] **3,032,637**
[13] A1

[51] **Int.Cl. B64C 3/10 (2006.01) B64C 1/26 (2006.01) B64C 1/38 (2006.01) B64C 3/36 (2006.01)**
[25] FR
[54] **AIRCRAFT PORTION WITH REDUCED WAVE RESISTANCE**
[54] **PORTION D'AERONEF A TRAINEE D'ONDE REDUITE**
[72] MERLET, AURELIEN, FR
[72] JOHAN, ZDENEK, FR
[72] LOYATHO, XIMUN, FR
[72] ROGE, GILBERT, FR
[71] DASSAULT AVIATION, FR
[22] 2019-02-04
[41] 2019-08-14
[30] FR (18 00132) 2018-02-14

[21] **3,032,693**
[13] A1

[51] **Int.Cl. G06Q 40/06 (2012.01)**
[25] EN
[54] **UTILIZING ARTIFICIAL INTELLIGENCE TO MAKE A PREDICTION ABOUT AN ENTITY BASED ON USER SENTIMENT AND TRANSACTION HISTORY**
[54] **UTILISATION DE L'INTELLIGENCE ARTIFICIELLE POUR FAIRE UNE PREDICTION A PROPOS D'UNE ENTITE FONDEE SUR LE SENTIMENT DE L'UTILISATEUR ET L'HISTORIQUE DE TRANSACTION**
[72] JEZEWSKI, JONI BRIDGET, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2019-02-05
[41] 2019-08-14
[30] US (15/896953) 2018-02-14

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[21] **3,032,711**
[13] A1

[51] **Int.Cl. H04N 21/80 (2011.01) G10L 15/25 (2013.01) G06Q 30/00 (2012.01) H04N 7/18 (2006.01)**

[25] EN

[54] **AUTOMATED BUSINESS REVIEWS BASED ON PATRON SENTIMENT**

[54] **ANALYSES D'ENTREPRISE AUTOMATISEES FONDEES SUR LE SENTIMENT DE L'USAGER**

[72] BLANCHET, STEVE, US

[72] AZNAURASHVILI, ZVIAD, US

[72] JOUHIKAINEN, HANNES, US

[72] SHERIF, TIMUR, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-02-05

[41] 2019-08-13

[30] US (15/895,380) 2018-02-13

[21] **3,032,713**
[13] A1

[51] **Int.Cl. C02F 1/00 (2006.01) B01D 21/02 (2006.01) C02F 1/44 (2006.01) C02F 9/00 (2006.01) E03C 1/12 (2006.01) E03F 5/14 (2006.01) E03F 5/18 (2006.01)**

[25] EN

[54] **IMPROVED METHOD FOR PROCESSING WASTE WATER**

[54] **METHODE AMELIOREE DE TRAITEMENT DES EAUX USEES**

[72] WRIGHT, TERRY, US

[72] PARKER, LEONARD A., US

[72] KARZ, ROBERT S., US

[72] FOX, JASON E., US

[71] CLEARCOVE SYSTEMS, INC., US

[22] 2019-02-05

[41] 2019-08-15

[30] US (15/897,750) 2018-02-15

[21] **3,032,854**
[13] A1

[51] **Int.Cl. G01J 3/36 (2006.01) H04N 5/345 (2011.01)**

[25] EN

[54] **SENSOR DEVICE AND METHODS OF USE**

[54] **DISPOSITIF CAPTEUR ET METHODES D'UTILISATION**

[72] HOUCK, WILLIAM D., US

[72] SMITH, VALTON, US

[71] VIAVI SOLUTIONS INC., US

[22] 2019-02-05

[41] 2019-08-15

[30] US (62/631.352) 2018-02-15

[30] US (16/102.259) 2018-08-13

[21] **3,032,882**
[13] A1

[51] **Int.Cl. B29C 64/106 (2017.01)**

[25] EN

[54] **IMPROVED EXTRUSION PROCESS AND ASSOCIATED DEVICE**

[54] **PROCEDE D'EXTRUSION AMELIORE ET APPAREIL ASSOCIE**

[72] GUASINA, LUCA, IT

[72] GAGLIARDI, ANTONIO, IT

[71] BARILLA G. E R. FRATELLI S.P.A., IT

[22] 2019-02-06

[41] 2019-08-13

[30] IT (102018000002656) 2018-02-13

[21] **3,032,985**
[13] A1

[51] **Int.Cl. H01F 1/00 (2006.01) B82Y 5/00 (2011.01) B82Y 25/00 (2011.01) A61K 49/10 (2006.01) C09C 1/24 (2006.01) C09C 3/12 (2006.01) H01F 1/33 (2006.01)**

[25] EN

[54] **BIOCOMPATIBLE MAGNETIC MATERIALS**

[54] **MATERIAUX MAGNETIQUES BIOCOMPATIBLES**

[72] HSIEH, WEN-YUAN, CN

[72] HSU, YUAN-HUNG, CN

[72] HUANG, CHIA-WEN, CN

[72] WEI, MING-CHENG, CN

[72] CHEN, CHIH-LUNG, CN

[72] WANG, SHIAN-JY, CN

[71] MEGAPRO BIOMEDICAL CO., LTD., CN

[22] 2019-02-07

[41] 2019-08-12

[30] CN (201810145800.0) 2018-02-12

[21] **3,033,010**
[13] A1

[51] **Int.Cl. G06F 17/27 (2006.01) G06N 20/00 (2019.01)**

[25] EN

[54] **UTILIZING MACHINE LEARNING MODELS TO IDENTIFY INSIGHTS IN A DOCUMENT**

[54] **UTILISATION DE MODELES D'APPRENTISSAGE MACHINE POUR IDENTIFIER LES OPINIONS DANS UN DOCUMENT**

[72] JEZEWSKI, JONI BRIDGET, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-02-07

[41] 2019-08-14

[30] US (15/896922) 2018-02-14

[21] **3,033,015**
[13] A1

[51] **Int.Cl. A61G 13/12 (2006.01) A47C 7/54 (2006.01) A61G 15/12 (2006.01)**

[25] EN

[54] **ARM REST ASSEMBLY FOR EXAMINATION TABLE**

[54] **ASSEMBLAGE DE BRAS DESTINE A UNE TABLE D-EXAMEN**

[72] DEBORD, JEFFREY T., US

[72] LANE, RICHARD L., US

[72] TEUFEL, RAINER B., US

[72] SMITH, ARTHUR D., US

[72] WILLEY, BRENT M., US

[71] MIDMARK CORPORATION, US

[22] 2019-02-07

[41] 2019-08-12

[30] US (62/629,421) 2018-02-12

[21] **3,033,033**
[13] A1

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

[25] EN

[54] **REMOTEY MANAGING EXECUTION OF JOBS IN A CLUSTER COMPUTING FRAMEWORK**

[54] **GESTION DISTANTE D'EXECUTION DE TACHES DANS UN CADRE DE TRAVAIL INFORMATIQUE EN GRAPPE**

[72] KUMAR, ASHWINI, US

[72] KATTAMURI, LAKSHMI NARASIMHA SARMA, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-02-07

[41] 2019-08-14

[30] US (15/896911) 2018-02-14

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[21] **3,033,284**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/30 (2006.01)**
[25] EN
[54] **HYDROCARBON RESOURCE RECOVERY SYSTEM AND RF ANTENNA ASSEMBLY WITH THERMAL EXPANSION DEVICE AND RELATED METHODS**
[54] **SYSTEME DE RECUPERATION DE RESSOURCE D~HYDROCARBURE ET MECANISME D~ANTENNE RF DOTE D~UN DISPOSITIF DE DILATATION THERMIQUE ET METHODES ASSOCIEES**
[72] WRIGHT, BRIAN N., US
[72] HEWIT, RAYMOND C., US
[72] BERSANI, ANGELO, US
[72] WASSMAN, JASON M., US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2019-02-06
[41] 2019-08-12
[30] US (15/893,921) 2018-02-12

[21] **3,033,285**
[13] A1

[51] **Int.Cl. F21V 15/01 (2006.01) F21V 23/00 (2015.01) F21V 31/00 (2006.01) F21V 29/74 (2015.01)**
[25] EN
[54] **LIGHT FIXTURE WITH ACCESSIBLE ELECTRONICS HOUSING**
[54] **APPAREIL D'ECLAIRAGE DOTE D'UN LOGEMENT DE DISPOSITIFS ELECTRONIQUES ACCESSIBLE**
[72] RODRIGUEZ, ERIC O., US
[72] CARNEY, BRAD, US
[72] AGEE, LADARIUS, US
[72] KELLY, RICK MARTIN, US
[71] ABL IP HOLDING LLC, US
[22] 2019-02-08
[41] 2019-08-15
[30] US (62/630,980) 2018-02-15
[30] US (16/145,330) 2018-09-28

[21] **3,033,287**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 36/04 (2006.01) H01Q 1/22 (2006.01) H01Q 9/30 (2006.01) H01Q 21/10 (2006.01)**
[25] EN
[54] **HYDROCARBON RESOURCE RECOVERY SYSTEM AND RF ANTENNA ASSEMBLY WITH LATCHING INNER CONDUCTOR AND RELATED METHODS**
[54] **SYSTEME DE RECUPERATION DE RESSOURCE D~HYDROCARBURE ET MECANISME D~ANTENNE RF DOTE D~UN CONDUCTEUR INTERNE DE VERROU ET METHODES ASSOCIEES**
[72] WRIGHT, BRIAN N., US
[72] HEWIT, RAYMOND C., US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2019-02-06
[41] 2019-08-12
[30] US (15/893,882) 2018-02-12

[21] **3,033,289**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 36/04 (2006.01) H01B 3/44 (2006.01) H01Q 9/20 (2006.01) H05B 6/62 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING RF SOURCE AND RELATED HYDROCARBON RESOURCE RECOVERY SYSTEMS**
[54] **METHODE D'UTILISATION D'UNE SOURCE RF ET SYSTEMES DE RECUPERATION DE RESSOURCE D'HYDROCARBURE ASSOCIES**
[72] WRIGHT, BRIAN N., US
[72] HANN, MURRAY T., US
[72] HIBNER, VERLIN A., US
[72] TRAUTMAN, MARK ALAN, US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2019-02-06
[41] 2019-08-12
[30] US (15/893,897) 2018-02-12

[21] **3,033,300**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **HYDROCARBON RESOURCE RECOVERY SYSTEM AND COMPONENT WITH PRESSURE HOUSING AND RELATED METHODS**
[54] **SYSTEME DE RECUPERATION DE RESSOURCE D~HYDROCARBURE ET COMPOSANTE EQUIPEE D~UN LOGEMENT A PRESSION ET METHODES ASSOCIEES**
[72] WRIGHT, BRIAN N., US
[72] HEWIT, RAYMOND C., US
[71] EAGLE TECHNOLOGY, LLC, US
[22] 2019-02-06
[41] 2019-08-12
[30] US (15/893,872) 2018-02-12

[21] **3,033,312**
[13] A1

[51] **Int.Cl. F24F 7/02 (2006.01) E04D 13/17 (2006.01) F24F 13/08 (2006.01)**
[25] EN
[54] **TELESCOPING RIDGE VENT**
[54] **OUVRANT DE FAITE TELESCOPIQUE**
[72] HENDRICKS, ROBERT K., JR., US
[72] ROBINSON, CHRIS M., US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2019-02-11
[41] 2019-08-15
[30] US (62/630,916) 2018-02-15

[21] **3,033,434**
[13] A1

[51] **Int.Cl. E02D 29/02 (2006.01) E02D 5/14 (2006.01)**
[25] EN
[54] **FLUID CONTAINMENT DEVICE**
[54] **DISPOSITIF DE CONFINEMENT DE FLUIDE**
[72] MCKECHNIE, KRIS, CA
[71] 2C ENVIRO INC., CA
[22] 2019-02-11
[41] 2019-08-14
[30] CA (2,995,123) 2018-02-14

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[21] **3,033,531**
[13] A1

[51] **Int.Cl. F25B 49/02 (2006.01) F16L 41/02 (2006.01) F16L 55/07 (2006.01) F24F 13/00 (2006.01) F25B 45/00 (2006.01)**

[25] EN

[54] **INTEGRATED SENSOR AND SERVICE PORT FOR HVAC EQUIPMENT OR HVAC SYSTEM**

[54] **CAPTEUR INTEGRE ET ORIFICE DE SERVICE D'EQUIPEMENT CVCA OU DE SYSTEME CVCA**

[72] CRUZ, MARIO A., US

[72] HARLAND, CHARLES P., US

[72] KIRBY, CHRISTOPHER T., US

[71] WATSCO VENTURES LLC, US

[22] 2019-02-12

[41] 2019-08-12

[30] US (62/629,476) 2018-02-12

[21] **3,033,584**
[13] A1

[51] **Int.Cl. F01N 13/10 (2010.01) F02B 33/34 (2006.01) F02B 37/00 (2006.01)**

[25] EN

[54] **TURBO HOUSING ELEMENT**

[54] **ELEMENT DE LOGEMENT DE TURBO**

[72] BOSTWICK, DANIEL J., US

[72] LIU, WAIGAN W., US

[72] WOJTAS, PETER R., US

[71] PRIDGEON & CLAY, INC., US

[22] 2019-02-12

[41] 2019-08-13

[30] US (62/630,205) 2018-02-13

[21] **3,033,598**
[13] A1

[51] **Int.Cl. F23R 3/28 (2006.01) F02C 7/22 (2006.01) F23D 11/36 (2006.01)**

[25] EN

[54] **FUEL NOZZLE WITH HELICAL FUEL PASSAGE**

[54] **BUSE DE CARBURANT DOTE D'UN PASSAGE DE CARBURANT HELICOIDAL**

[72] FRYER, MICHAEL A., CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2019-02-11

[41] 2019-08-14

[30] US (15/896,810) 2018-02-14

[21] **3,033,603**
[13] A1

[51] **Int.Cl. G01L 5/00 (2006.01) A61B 5/22 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR MEASURING FORCE AND POWER DURING UNSTEADY FLUID MOTIONS**

[54] **APPAREIL ET METHODE DE MESURE DE LA FORCE ET LA PUISSANCE PENDANT LES MOUVEMENTS DE FLUIDES INSTABLES**

[72] RIVAL, DAVID, CA

[72] FITZPATRICK, SCOTT, CA

[72] BURELLE, LOUIS, CA

[71] QUEEN'S UNIVERSITY AT KINGSTON, CA

[22] 2019-02-12

[41] 2019-08-12

[30] US (62/629,269) 2018-02-12

[21] **3,033,605**
[13] A1

[51] **Int.Cl. A61B 3/113 (2006.01) A61B 5/11 (2006.01) G02B 27/01 (2006.01)**

[25] EN

[54] **THREE-DIMENSIONAL VISUAL TARGET ACQUISITION SYSTEMS**

[54] **SYSTEMES D'ACQUISITION DE CIBLE VISUELLE TRIDIMENSIONNELLE**

[72] DEROUIN, AARON, CA

[72] FISCHER, STEVEN, CA

[72] BURHANUDDIN, TERAJ, CA

[71] DEROUIN, AARON, CA

[71] FISCHER, STEVEN, CA

[22] 2019-02-12

[41] 2019-08-14

[30] US (62/630,391) 2018-02-14

[21] **3,033,658**
[13] A1

[51] **Int.Cl. B60S 3/04 (2006.01)**

[25] EN

[54] **SNOW AND ICE REMOVER FOR VEHICLE ROOFS**

[54] **DISPOSITIF D'ENLEVEMENT DE LA NEIGE ET LA GLACE DESTINE AU TOIT DE VEHICULES**

[72] LIVINGSTON, HOWARD, JR., US

[72] LIVINGSTON, HOWARD, US

[72] WERHEL, DOUG, US

[72] LAWSON, STEPHAN, US

[72] CHANG, ERIC, US

[72] MURRAY, THOMAS WILLIAM, US

[72] KASILAG, CHRISTIAN, US

[71] QUINTIN MACHINERY LLC, US

[22] 2019-02-13

[41] 2019-08-13

[30] US (62/629,768) 2018-02-13

[30] US (62/782,609) 2018-02-13

[30] US (PCT/US2019/17768) 2019-02-13

[21] **3,033,689**
[13] A1

[51] **Int.Cl. A45D 42/04 (2006.01) A45D 42/10 (2006.01) G02B 5/08 (2006.01) G02B 7/182 (2006.01)**

[25] EN

[54] **COMPACT MIRROR**

[54] **MIROIR COMPACT**

[72] YANG, FRANK, US

[72] CHANG, DI-FONG, US

[72] COHEN, GUY, US

[71] SIMPLEHUMAN, LLC, US

[22] 2019-02-13

[41] 2019-08-14

[30] US (62/630788) 2018-02-14

[30] US (62/640147) 2018-03-08

[21] **3,033,770**
[13] A1

[51] **Int.Cl. F16K 5/06 (2006.01) F16K 5/20 (2006.01)**

[25] EN

[54] **BALL VALVE HAVING A BALL ELEMENT WITH ROTATION CONTROL**

[54] **CLAPET A BILLE DOTE D'UN ELEMENT DE BILLE A CONTROLE DE ROTATION**

[72] BELL, BRANDON WAYNE, US

[71] FISHER CONTROLS INTERNATIONAL LLC, US

[22] 2019-02-14

[41] 2019-08-14

[30] US (15/896,842) 2018-02-14

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[21] **3,033,771**
[13] A1

[51] **Int.Cl. A61B 18/12 (2006.01)**
[25] EN
[54] **MULTI-CARRIER ABLATION GENERATOR**
[54] **GENERATEUR D'ABLATION MULTIPORTEUR**
[72] DOLGONOS, ALEX, CA
[72] SAFARYAN, KAREN, CA
[71] UROCAM INC., CA
[22] 2019-02-14
[41] 2019-08-14
[30] US (62/630,785) 2018-02-14

[21] **3,033,772**
[13] A1

[51] **Int.Cl. F16K 5/20 (2006.01) F16K 5/06 (2006.01)**
[25] EN
[54] **BALL VALVE HAVING AN ADJUSTABLE TRIM ARRANGEMENT**
[54] **CLAPET A BILLE AYANT UNE DISPOSITION DE GARNITURE AJUSTABLE**
[72] BELL, BRANDON WAYNE, US
[71] FISHER CONTROLS INTERNATIONAL LLC, US
[22] 2019-02-14
[41] 2019-08-14
[30] US (15/896,979) 2018-02-14

[21] **3,033,773**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) F16P 3/14 (2006.01)**
[25] EN
[54] **PORTABLE LOCAL POSITIONING SYSTEM**
[54] **SYSTEME DE POSITIONNEMENT LOCAL PORTATIF**
[72] MENARD, SETH, US
[72] SAVINI, MARCUS, US
[72] ANGELLE, JEREMY R., US
[72] SMITH, LOGAN, US
[72] THIBODEAUX, ROBERT L., US
[72] DOMEK, BRENNAN, US
[71] FRANK'S INTERNATIONAL, LLC, US
[22] 2019-02-14
[41] 2019-08-15
[30] US (62/631,035) 2018-02-15
[30] US (16/274,072) 2019-02-12

[21] **3,033,782**
[13] A1

[51] **Int.Cl. B23B 51/00 (2006.01) B23B 5/16 (2006.01)**
[25] EN
[54] **DEBURRING TOOL FOR DEBURRING TRANSVERSE RECESSES THAT BRANCH FROM A MAIN BOREHOLE**
[54] **OUTIL D'EBAVURAGE SERVANT A EBAVURER LES CREUX DE TRAVERSE QUI SE RAMIFIENT A PARTIR D'UN TROU DE FORAGE PRINCIPAL**
[72] STUDER, HARRY, CH
[71] HEULE WERKZEUG AG, CH
[22] 2019-02-14
[41] 2019-08-16
[30] EP (18 157 116.7) 2018-02-16

[21] **3,033,786**
[13] A1

[51] **Int.Cl. A61M 39/02 (2006.01) A61B 17/02 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **PORT FIXATION DEVICE**
[54] **DISPOSITIF DE FIXATION D-ORIFICE**
[72] CIAMPINI, FABIO, US
[72] ADINOLFI, AMANDA, US
[72] EBERSOLE, GARRETT, US
[71] COVIDIEN LP, US
[22] 2019-02-14
[41] 2019-08-16
[30] US (62/631,540) 2018-02-16
[30] US (16/265,223) 2019-02-01

[21] **3,033,790**
[13] A1

[51] **Int.Cl. F04B 53/00 (2006.01) F04B 15/04 (2006.01) F04B 49/06 (2006.01) F17D 3/12 (2006.01) H02H 5/08 (2006.01)**
[25] EN
[54] **IMPROVING OPERATION OF PUMP STATIONS WITH ADDITIVE PUMPS**
[54] **AMELIORATION DU FONCTIONNEMENT DES STATIONS DE POMPAGE AU MOYEN DE POMPES ADDITIVES**
[72] FOWLER, ROBERT ERLING, US
[71] NATURAL GAS SOLUTIONS NORTH AMERICA, LLC, US
[22] 2019-02-12
[41] 2019-08-12
[30] US (15/894,552) 2018-02-12

[21] **3,033,799**
[13] A1

[51] **Int.Cl. G01S 13/78 (2006.01) G01S 7/40 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR TRACKING OBJECTS USING PASSIVE SECONDARY SURVEILLANCE RADAR**
[54] **METHODE ET SYSTEME DE SUIVI DES OBJETS AU MOYEN D'UN RADAR DE SURVEILLANCE SECONDAIRE PASSIF**
[72] LI, YAKE, CA
[71] SEAMATICA AEROSPACE LTD., CA
[22] 2019-02-14
[41] 2019-08-14
[30] US (62/630,362) 2018-02-14

[21] **3,033,800**
[13] A1

[51] **Int.Cl. B64C 9/34 (2006.01) B64C 3/50 (2006.01) F16J 15/16 (2006.01)**
[25] FR
[54] **ASSEMBLY FOR AIRCRAFT INCLUDING A MOBILE LOAD-BEARING SURFACE, BORNE BY AN OPERATING SHAFT CROSSING A SLIT EQUIPPED WITH A SEALED JOINT WITH IMPROVED SEALING EFFICIENCY**
[54] **ENSEMBLE POUR AERONEF COMPRENANT UNE SURFACE PORTANTE MOBILE PORTEE PAR UN ARBRE D'ACTIONNEMENT TRAVERSANT UNE FENTE EQUIPEE D'UN JOINT D'ETANCHEITE A EFFICACITE DE SCELLEMENT AMELIOREE**
[72] RAVIER, LAURENT, FR
[72] GONZE, ALBERT-PAUL, FR
[71] SONACA S.A., BE
[22] 2019-02-12
[41] 2019-08-13
[30] BE (BE 2018/5088) 2018-02-13

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[21] **3,033,806**
[13] A1

[51] **Int.Cl. H01P 3/10 (2006.01) A45C 1/06 (2006.01) A45C 13/02 (2006.01) A45C 11/18 (2006.01) G06K 19/07 (2006.01)**

[25] EN

[54] **CONTACTLESS CARD DIVIDERS, WALLET-INSERTS, AND WALLETS CONTAINING THE SAME**

[54] **INSERTIONS DE PORTEFEUILLE, DIVISEURS DE CARTES SANS CONTACT, ET PORTEFEUILLES COMPORTANT LESDITES INSERTIONS**

[72] HERRINGTON, DANIEL, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2019-02-12

[41] 2019-08-12

[30] US (15/894,381) 2018-02-12

[21] **3,033,817**
[13] A1

[51] **Int.Cl. A43C 11/00 (2006.01) A43C 7/00 (2006.01) A43C 9/00 (2006.01) F16G 11/12 (2006.01)**

[25] EN

[54] **FOOTWEAR TIGHTENING DEVICE AND METHOD OF USE**

[54] **DISPOSITIF DE SERRAGE DE CHAUSSURE ET METHODE D-UTILISATION**

[72] MCCOLLISTER, HOWARD, CA

[71] MCCOLLISTER, HOWARD, CA

[22] 2019-02-15

[41] 2019-08-16

[30] US (15/932,270) 2018-02-16

[21] **3,033,826**
[13] A1

[51] **Int.Cl. C10B 55/10 (2006.01) B01J 8/24 (2006.01)**

[25] EN

[54] **IMPROVING LIQUID YIELD FROM COKING REACTORS**

[54] **AMELIORER LE RENDEMENT LIQUIDE DES REACTEURS DE COKEFACTION**

[72] WORMSBECKER, MICHAEL, CA

[72] MCMILLAN, JENNIFER, CA

[72] MCKNIGHT, CRAIG, CA

[72] WIENS, JASON, CA

[71] SYNCRUDE CANADA LTD., CA

[22] 2019-02-12

[41] 2019-08-12

[30] US (62/629,289) 2018-02-12

[21] **3,033,828**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 18/00 (2006.01) A61B 18/04 (2006.01) A61M 25/02 (2006.01) A61M 25/14 (2006.01)**

[25] EN

[54] **SYSTEM(S), METHOD(S) AND DEVICE(S) FOR THE PREVENTION OF ESOPHAGEAL FISTULA DURING CATHETER ABLATION**

[54] **SYSTEMES, METHODES ET DISPOSITIFS DE PREVENTION DE FISTULE OESOPHAGIENNE PENDANT UNE ABLATION PAR CATHETER**

[72] COHN, WILLIAM, US

[72] BRAHMSTEDT, COLIN, US

[72] KUHN, MATTHEW, US

[72] WONG, FERGUS, US

[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL

[22] 2019-02-14

[41] 2019-08-15

[30] US (62/631,359) 2018-02-15

[30] US (16/127,461) 2018-09-11

[21] **3,033,833**
[13] A1

[51] **Int.Cl. G06K 9/78 (2006.01) G06Q 50/34 (2012.01) G06K 9/80 (2006.01) G07F 17/32 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS AND DEVICES FOR MONITORING BETTING ACTIVITIES**

[54] **SYSTEMES, METHODES ET DISPOSITIFS DE SURVEILLANCE DES ACTIVITES DE PARIS**

[72] BULZACKI, ADRIAN, CA

[72] CAZAN, VIAD, CA

[72] IBRAHIM, MUHAMMAD TALAL, CA

[71] ARB LABS INC., CA

[22] 2019-02-14

[41] 2019-08-14

[30] US (15/897,075) 2018-02-14

[21] **3,033,860**
[13] A1

[51] **Int.Cl. F02K 1/38 (2006.01) F01D 25/30 (2006.01) F02K 1/48 (2006.01)**

[25] EN

[54] **ENCAPSULATED FLOW MIXER STIFFENER RING**

[54] **BAGUE DE RENFORT DE MELANGEUR D'ECHAPPEMENT ENCAPSULEE**

[72] BOYER, PHILIPPE, CA

[72] COUTU, DANIEL, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2019-02-12

[41] 2019-08-14

[30] US (62/630,366) 2018-02-14

[30] US (16/250,325) 2019-01-17

[21] **3,033,953**
[13] A1

[51] **Int.Cl. B32B 7/12 (2006.01) B32B 7/06 (2019.01) B32B 38/04 (2006.01) B65D 65/40 (2006.01)**

[25] EN

[54] **MULTI-LAYER PRODUCTS**

[54] **PRODUITS MULTICOUCHES**

[72] HOGAN, MARK PAUL, GB

[72] ELLIOTT, HOWARD, GB

[71] MEDI-CLEAR LTD, GB

[22] 2019-02-15

[41] 2019-08-15

[30] GB (1802450.5) 2018-02-15

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[21] **3,033,966**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 10/06 (2012.01)**

[25] EN

[54] **UTILIZING A MACHINE LEARNING MODEL AND NATURAL LANGUAGE PROCESSING TO MANAGE AND ALLOCATE TASKS**

[54] **UTILISATION D~UN MODELE D~APPRENTISSAGE MACHINE ET DE TRAITEMENT EN LANGAGE NATUREL POUR GERER ET ATTRIBUER DES TACHES**

[72] GUASTELLA, FABIANO JOSE DANIEK, IE

[72] FILHO, LEOMAR OLIVEIRA DIAS, IE

[72] FERNANDES DE OLVEIRA, EDUARDO, IE

[72] ROTHE ANDRADE, LAILA, IE

[72] TAVARES DA SILVA, RENATO, IE

[72] VIEIRA, MARDOQUEU SOUZA, IE

[72] NERI, LEONARDO VALERIANO, IE

[72] FREITAS, JAMISSON SANTANA, IE

[71] ACCENTURE GLOBAL SOLUTIONS LIMITED, IE

[22] 2019-02-15

[41] 2019-08-16

[30] US (62/710,301) 2018-02-16

[30] US (16/275,195) 2019-02-13

[21] **3,033,975**
[13] A1

[51] **Int.Cl. B29C 73/34 (2006.01) B23D 61/02 (2006.01)**

[25] EN

[54] **IN LINE EDGE-SEALING SYSTEM AND METHOD**

[54] **SYSTEME D'ETANCHEISATION DE BORD EN LIGNE ET METHODE**

[72] NADLER, BRANDON SEVIER, US

[72] IZZO, PATRICK HENRY, US

[72] OLINGER, RODNEY LEE, US

[71] ROYAL GROUP, INC., US

[22] 2019-02-15

[41] 2019-08-15

[30] US (62/630,869) 2018-02-15

[21] **3,033,980**
[13] A1

[51] **Int.Cl. A22C 11/02 (2006.01) A23P 20/20 (2016.01) H02H 9/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR THE PRODUCTION OF FOODS**

[54] **APPAREIL ET METHODE DE PRODUCTION DES ALIMENTS**

[72] STROHM, KURT, DE

[72] BETTINGER, DANIEL, DE

[72] SCHRADER, WOLFGANG, DE

[71] ALBERT HANDTMANN MASCHINENFABRIK GMBH & CO. KG, DE

[22] 2019-02-14

[41] 2019-08-15

[30] EP (18156940.1) 2018-02-15

[21] **3,034,009**
[13] A1

[51] **Int.Cl. H04W 28/18 (2009.01) H04W 24/10 (2009.01) H04W 52/04 (2009.01) H04W 76/00 (2018.01)**

[25] EN

[54] **WIRELESS COMMUNICATIONS USING WIRELESS DEVICE INFORMATION**

[54] **COMMUNICATIONS SANS FIL AU MOYEN D'INFORMATION DE DISPOSITIF**

[72] PARK, KYUNGMIN, US

[72] DINAN, ESMAEL, US

[72] JEON, HYOUNGSUK, US

[72] ZHOU, HUA, US

[72] BABAEI, ALIREZA, US

[72] CIRIK, ALI, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2019-02-15

[41] 2019-08-15

[30] US (62/631,401) 2018-02-15

[21] **3,034,014**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 24/04 (2009.01) H04W 52/44 (2009.01)**

[25] EN

[54] **BEAM FAILURE REPORT**

[54] **SIGNALEMENT DE DEFAUT DE FAISCEAU**

[72] JEON, HYOUNGSUK, US

[72] DINAN, ESMAEL, US

[72] PARK, KYUNGMIN, US

[72] ZHOU, HUA, US

[72] CIRIK, ALI, US

[72] BABAEI, ALIREZA, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2019-02-15

[41] 2019-08-15

[30] US (62/631,332) 2018-02-15

[21] **3,034,026**
[13] A1

[51] **Int.Cl. H04W 36/30 (2009.01) H04W 24/10 (2009.01) H04W 72/00 (2009.01) H04B 17/318 (2015.01)**

[25] EN

[54] **SUPPLEMENTAL UPLINK SELECTION USING CONFIGURATION INFORMATION**

[54] **SELECTION DE LIEN ASCENDANT SUPPLEMENTAIRE AU MOYEN DE L~INFORMATION DE CONFIGURATION**

[72] PARK, KYUNGMIN, US

[72] DINAN, ESMAEL, US

[72] JEON, HYOUNGSUK, US

[72] ZHOU, HUA, US

[72] BABAEI, ALIREZA, US

[72] CIRIK, ALI, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2019-02-15

[41] 2019-08-17

[30] US (62/631,652) 2018-02-17

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[21] **3,034,035**
[13] A1

[51] **Int.Cl. B60D 1/48 (2006.01)**
[25] EN
[54] **TOW BAR ASSEMBLY**
[54] **ASSEMBLAGE DE BARRE DE REMORQUAGE**
[72] SPOONER, GREG, AU
[72] LAM, HUEY, AU
[72] REIMERS, MATTHEW, AU
[71] REES OPERATIONS PTY LTD, AU
[22] 2019-02-15
[41] 2019-08-16
[30] AU (2018900491) 2018-02-16

[21] **3,034,037**
[13] A1

[51] **Int.Cl. B60D 1/58 (2006.01) B60D 1/48 (2006.01)**
[25] EN
[54] **HITCH ASSEMBLY**
[54] **ASSEMBLAGE D-ATTELAGE**
[72] SPOONER, GREG, AU
[72] LAM, HUEY, AU
[72] REIMERS, MATTHEW, AU
[71] REES OPERATIONS PTY LTD, AU
[22] 2019-02-15
[41] 2019-08-16
[30] AU (2018900493) 2018-02-16

[21] **3,034,041**
[13] A1

[51] **Int.Cl. F41H 5/14 (2006.01) B62B 1/00 (2006.01) B62B 3/00 (2006.01) F41H 5/06 (2006.01)**
[25] EN
[54] **BALLISTIC DOLLY SYSTEM**
[54] **SYSTEME DE CHARIOT BALLISTIQUE**
[72] BECK, JASON, US
[71] TYR TACTICAL, LLC, US
[22] 2019-02-14
[41] 2019-08-14
[30] US (15/896,840) 2018-02-14

[21] **3,034,076**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 36/38 (2009.01)**
[25] EN
[54] **RANDOM ACCESS USING SUPPLEMENTARY UPLINK**
[54] **ACCES ALEATOIRE EMPLOYANT UN LIEN ASCENDANT SUPPLEMENTAIRE**
[72] JEON, HYOUNGSUK, US
[72] DINAN, ESMAEL, US
[72] PARK, KYUNGMIN, US
[72] BABAEI, ALIREZA, US
[72] ZHOU, HUA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2019-02-15
[41] 2019-08-15
[30] US (62/631,193) 2018-02-15

[21] **3,034,087**
[13] A1

[51] **Int.Cl. A01N 63/04 (2006.01) A01N 25/08 (2006.01) A01N 25/12 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **SPREADING DEVICE, METHOD AND POWDER-LIKE MIXTURE COMPOSITION FOR CONTROLLING OR PREVENTING FOREST PATHOGENS ON TREE STUMPS**
[54] **DISPOSITIF D'EPANDEUR, METHODE ET COMPOSITION DE MELANGE DE TYPE POUDRE DESTINES A CONTROLER OU PREVENIR LES PATHOGENES FORESTIERS SUR LES SOUCHES**
[72] ESKOLA, LAURI, FI
[72] SEISKARI, PEKKA, FI
[71] ENVION OY, FI
[71] DANSTAR FERMENT AG, CH
[22] 2019-02-15
[41] 2019-08-15
[30] FI (20185135) 2018-02-15

[21] **3,045,125**
[13] A1

[51] **Int.Cl. H04N 19/134 (2014.01) H04N 21/2343 (2011.01) H04N 21/258 (2011.01) H04N 21/4363 (2011.01) H04N 19/115 (2014.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ADAPTIVELY ENCODING VIDEO STREAM**
[54] **SYSTEMES ET METHODES DE CODAGE ADAPTATIF DE FLUX VIDEO**
[72] CHOI, SUNG HO, US
[72] SYMBORSKI, THOMAS, US
[72] TRETIN, MATTHEW, US
[71] FUBOTV INC., US
[22] 2019-06-04
[41] 2019-08-13
[30] US (15/997,388) 2018-06-04

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[51] Int.Cl. F25D 17/04 (2006.01) A23K 30/00 (2016.01) A23K 40/00 (2016.01) A23K 40/25 (2016.01) B65G 47/18 (2006.01) F25D 25/04 (2006.01)	[51] Int.Cl. E02D 27/26 (2006.01) E02D 3/12 (2006.01)	[51] Int.Cl. G01L 5/00 (2006.01) E04G 21/12 (2006.01) H04W 4/38 (2018.01) H04W 4/80 (2018.01)
[25] EN	[25] EN	[25] EN
[54] PRODUCT COOLING APPARATUSES	[54] METHOD OF COMPACTION OF BASES COMPOSED OF WEAK MINERAL SOILS	[54] SYSTEM FOR MONITORING TENSION FORCE OF TENDON IN POST-TENSIONING
[54] APPAREILS DE REFROIDISSEMENT DE PRODUITS	[54] METHODE DE COMPACTION DE BASES COMPOSEES DE RESIDUS MINERAUX FAIBLES	[54] SYSTEME DE SURVEILLANCE DE LA FORCE DE TENSION D'UN TENDON APRES LA MISE EN TENSION
[72] AMSINGER, DANIEL, US	[72] TER-MARTIROSYAN, ZAVEN GRIGOR'EVICH, RU	[72] KANG, THOMAS HYUN KOO, KR
[72] SCHAAF, JOHN, US	[72] MIRNIY, ANATOLIY YUR'EVICH, RU	[72] JEONG, KEE NAM, KR
[72] CAHOON, WILLIAM, US	[72] SOBOLEV, EVGENIY STANISLAVOVICH, RU	[71] SEOUL NATIONAL UNIVERSITY R&DB FOUNDATION, KR
[72] ORR, SAM, US	[72] SIDOROV, VITALIY VALENTINOVICH, RU	[71] TOTAL PS CO., LTD, KR
[72] OKIC, ENES, US	[72] ANZHELO, GEORGIY OLEGOVICH, RU	[85] 2019-01-28
[71] NESTEC S.A., CH	[72] LUZIN, IVAN NIKOLAEVICH, RU	[86] 2016-07-29 (PCT/KR2016/008331)
[85] 2016-12-19	[72] TER-MARTIROSYAN, ARMEN ZAVENOVICH, RU	[87] (WO2017/018845)
[86] 2015-07-17 (PCT/IB2015/055446)	[71] JOINT STOCK COMPANY "ROSENERGOATOM", RU	[30] KR (10-2015-0107506) 2015-07-29
[87] (WO2016/030780)	[71] JOINT STOCK COMPANY "SCIENCE AND INNOVATIONS", RU	
[30] US (62/026,409) 2014-07-18	[85] 2018-12-04	[21] 3,040,357 [13] A1
	[86] 2017-12-08 (PCT/RU2017/000916)	[51] Int.Cl. G06F 21/62 (2013.01) G06F 16/27 (2019.01) H04L 9/06 (2006.01)
	[87] (WO2019/066680)	[25] EN
	[30] RU (2017133868) 2017-09-29	[54] SYSTEM AND METHOD FOR INFORMATION PROTECTION
		[54] SYSTEME ET PROCEDE POUR LA PROTECTION D'INFORMATIONS
		[72] MA, HUANYU, CN
	[21] 3,029,524 [13] A1	[72] ZHANG, WENBIN, CN
	[51] Int.Cl. B62J 6/00 (2006.01) B62J 3/00 (2006.01) B62J 6/18 (2006.01) B62K 19/40 (2006.01) B62K 21/12 (2006.01)	[72] MA, BAOLI, CN
	[25] EN	[72] LIU, ZHENG, CN
	[54] BICYCLE	[72] CUI, JIAHUI, CN
	[54] BICYCLETTE	[71] ALIBABA GROUP HOLDING LIMITED, KY
	[72] GHEREZGHIHER, AMANUEL, GB	[85] 2019-04-12
	[71] GEREZ BIKES LIMITED, GB	[86] 2018-11-27 (PCT/CN2018/117558)
	[71] GHEREZGHIHER, AMANUEL, GB	[87] (WO2019/072277)
	[85] 2018-12-27	
	[86] 2016-06-27 (PCT/GB2016/051921)	
	[87] (WO2016/207668)	
	[30] GB (1511303.8) 2015-06-26	
	[30] GB (1604406.7) 2016-03-15	

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[21] **3,044,278**
[13] A1

[51] **Int.Cl. F21K 9/27 (2016.01) F21K 9/272 (2016.01) F21K 9/278 (2016.01) A01G 9/20 (2006.01)**

[25] EN

[54] **LED PLANT ILLUMINATION LAMP MODULE**

[54] **MODULE DE LAMPE D'ECLAIRAGE DE PLANTE A DEL**

[72] WU, CHANJUAN, CN

[72] ZENG, LIANG, CN

[72] LIN, SHAOQING, CN

[72] LI, NANA, CN

[71] FUJIAN SANAN SINO-SCIENCE PHOTOBIOTECH CO., LTD., CN

[85] 2019-05-24

[86] 2019-01-09 (PCT/CN2019/070925)

[87] (3044278)

[30] CN (201810149044.9) 2018-02-13

[21] **3,047,731**
[13] A1

[51] **Int.Cl. G01N 21/65 (2006.01) G01J 3/10 (2006.01) G01N 21/63 (2006.01)**

[25] EN

[54] **SURFACE SENSING SYSTEMS AND METHODS FOR IMAGING A SCANNED SURFACE OF A SAMPLE VIA SUM-FREQUENCY VIBRATIONAL SPECTROSCOPY**

[54] **SYSTEMES DE DETECTION DE SURFACE ET PROCEDES D'IMAGERIE D'UNE SURFACE BALAYEE D'UN ECHANTILLON PAR SPECTROSCOPIE VIBRATIONNELLE A FREQUENCE SOMME**

[72] HUNT, JEFFREY H., US

[72] SHI, JIANING, US

[72] CHANGALA, JOHN PAUL, US

[71] THE BOEING COMPANY, US

[71] FEMTOMETRIX, INC., US

[85] 2019-06-19

[86] 2017-12-18 (PCT/US2017/067028)

[87] (WO2018/118779)

[30] US (15/388,743) 2016-12-22

[21] **3,048,105**
[13] A1

[51] **Int.Cl. H01Q 3/26 (2006.01) G06K 7/00 (2006.01) H04B 1/59 (2006.01)**

[25] EN

[54] **RETRODIRECTIVE WIRELESS DEVICE AND METHOD**

[54] **DISPOSITIF SANS FIL RETRODIRECTIF ET PROCEDE**

[72] KIRKNES, STEFFEN, NO

[71] NORBIT ITS, NO

[85] 2019-06-21

[86] 2018-01-17 (PCT/EP2018/051090)

[87] (WO2018/134241)

[30] NO (20170071) 2017-01-17

[21] **3,049,682**
[13] A1

[51] **Int.Cl. G16B 30/00 (2019.01) C12Q 1/6809 (2018.01) G16B 20/00 (2019.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS FOR NON-INVASIVE ASSESSMENT OF GENETIC ALTERATIONS**

[54] **PROCEDES D'EVALUATION NON INVASIVE D'ALTERATIONS GENETIQUE**

[72] AZAB, MOSTAFA, US

[72] SYKES, MICHAEL, US

[72] SUN, YOUTING, US

[72] MAZLOOM, AMIN, US

[72] JENSEN, TAYLOR, US

[72] EHRICH, MATHIAS, US

[72] ELLISON, CHRISTOPHER, US

[71] SEQUENOM, INC., US

[85] 2019-07-08

[86] 2018-01-22 (PCT/US2018/014726)

[87] (WO2018/136888)

[30] US (62/448,600) 2017-01-20

[30] US (62/448,601) 2017-01-20

[21] **3,050,055**
[13] A1

[51] **Int.Cl. G16B 20/10 (2019.01) C12Q 1/6809 (2018.01) G16B 20/00 (2019.01) G16B 30/10 (2019.01)**

[25] EN

[54] **METHODS AND PROCESSES FOR ASSESSMENT OF GENETIC VARIATIONS**

[54] **METHODES ET PROCEDES D'EVALUATION DE VARIATIONS GENETIQUES**

[72] TYNAN, JOHN A., US

[72] MAZLOOM, AMIN, US

[72] WU, YIJIN, US

[72] WHIDDEN, MARK, US

[72] EHRICH, MATHIAS, US

[71] SEQUENOM, INC., US

[85] 2019-07-08

[86] 2018-01-24 (PCT/US2018/015081)

[87] (WO2018/140521)

[30] US (62/449,766) 2017-01-24

[21] **3,050,247**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6876 (2018.01) G16B 30/00 (2019.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR GENERATION AND ERROR-CORRECTION OF UNIQUE MOLECULAR INDEX SETS WITH HETEROGENEOUS MOLECULAR LENGTHS**

[54] **PROCEDES ET SYSTEMES DE GENERATION ET DE CORRECTION D'ERREUR D'ENSEMBLES D'INDICES MOLECULAIRES UNIQUES AYANT DES LONGUEURS MOLECULAIRES HETEROGENES**

[72] WU, KEVIN, US

[72] ZHAO, CHEN, US

[72] CHUANG, HAN-YU, US

[72] SO, ALEX, US

[72] TANNER, STEPHEN, US

[72] GROSS, STEPHEN M., US

[71] ILLUMINA, INC., US

[85] 2019-07-15

[86] 2018-01-05 (PCT/US2018/012669)

[87] (WO2018/136248)

[30] US (62/447,851) 2017-01-18

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[21] **3,051,206**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **BICYCLIC COMPOUNDS AS ALLOSTERIC SHP2 INHIBITORS**

[54] **COMPOSES BICYCLIQUES UTILISES EN TANT QU'INHIBITEURS ALLOSTERIQUES DE SHP2**

[72] BLANK, BRIAN R., US

[72] PITZEN, JENNIFER, US

[72] WANG, GANG, US

[72] WON, WALTER S., US

[72] TZITZILONIS, CHRISTOS, US

[72] LI, JIE JACK, US

[72] KOLTUN, ELENA S., US

[72] AAY, NAING, US

[72] BUCKL, ANDREAS, US

[72] MELLEM, KEVIN, US

[72] SEMKO, CHRISTOPHER, US

[72] JOGALEKAR, ASH, US

[72] KISS, GERT, US

[72] GILL, ADRIAN, US

[71] REVOLUTION MEDICINES, INC., US

[85] 2019-07-22

[86] 2018-01-09 (PCT/US2018/013023)

[87] (WO2018/136265)

[30] US (62/449,530) 2017-01-23

[21] **3,051,246**
[13] A1

[51] **Int.Cl. G06Q 20/32 (2012.01) G07F 7/08 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR AUTHENTICATION VIA A TRUSTED EXECUTION ENVIRONMENT**

[54] **PROCEDE ET SYSTEME D'AUTHENTIFICATION PAR L'INTERMEDIAIRE D'UN ENVIRONNEMENT D'EXECUTION SECURISE**

[72] RUTHERFORD, BRUCE JOHN, US

[72] SHARMA, PRASHANT, US

[72] CUTLER, DAVID, BE

[72] MUSHING, ALAN, GB

[71] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2019-07-22

[86] 2018-01-23 (PCT/US2018/014786)

[87] (WO2018/136914)

[30] US (62/449,390) 2017-01-23

[21] **3,051,259**
[13] A1

[51] **Int.Cl. B29C 64/295 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/141 (2017.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR VOLUMETRIC MANUFACTURE OF COMPOSITE OBJECTS**

[54] **METHODE ET APPAREIL DE FABRICATION VOLUMETRIQUE D'OBJETS COMPOSITES**

[72] BIRNBAUM, ANDREW J., US

[72] ILIOPOULOS, ATHANASIOS, US

[72] STEUBEN, JOHN, US

[72] MICHPOULOS, JOHN G., US

[71] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY, US

[85] 2019-07-22

[86] 2018-01-23 (PCT/US2018/014801)

[87] (WO2018/140382)

[30] US (62/451,103) 2017-01-27

[21] **3,051,272**
[13] A1

[51] **Int.Cl. A61F 2/04 (2013.01) A61F 2/24 (2006.01) A61M 39/22 (2006.01)**

[25] EN

[54] **REPLACEMENT MITRAL VALVES**

[54] **VALVES MITRALES DE REMPLACEMENT**

[72] NOE, SPENCER, US

[72] WALLACE, DAN, US

[72] OAKDEN, JONATHAN, US

[71] CEPHEA VALVE TECHNOLOGIES, INC., US

[85] 2019-07-22

[86] 2018-01-23 (PCT/US2018/014902)

[87] (WO2018/136959)

[30] US (62/449,498) 2017-01-23

[30] US (62/513,877) 2017-06-01

[21] **3,051,278**
[13] A1

[51] **Int.Cl. D01D 5/36 (2006.01) D01F 6/04 (2006.01) D01F 8/06 (2006.01) D03D 15/00 (2006.01) D01D 5/00 (2006.01) D01D 5/098 (2006.01) D01D 5/18 (2006.01)**

[25] EN

[54] **INFRARED RADIATION TRANSPARENT SUBSTRATES AND SYSTEMS AND METHODS FOR CREATION AND USE THEREOF**

[54] **SUBSTRATS TRANSPARENTS AU RAYONNEMENT INFRAROUGE, SYSTEMES ET PROCEDES DE CREATION ET D'UTILISATION ASSOCIES**

[72] AGHANOURI, ABOLFAZL, US

[71] THE NORTH FACE APPAREL CORP., US

[85] 2019-07-22

[86] 2018-01-25 (PCT/US2018/015281)

[87] (WO2018/140624)

[30] US (62/450,959) 2017-01-26

[30] US (15/877,979) 2018-01-23

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[21] **3,051,284**
[13] A1

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 47/12 (2006.01) A61P 25/00 (2006.01) C07C 57/15 (2006.01) C07C 59/255 (2006.01) C07C 229/12 (2006.01) C07D 307/62 (2006.01)**

[25] EN

[54] **CO-CRYSTALS OF SUBSTITUTED GLYCINE COMPOUNDS AND USES THEREOF**

[54] **CO-CRISTAUX DE COMPOSES DE GLYCINE SUBSTITUES ET LEURS UTILISATIONS**

[72] TSAI, GUOCHUAN EMIL, US
[72] WANG, CHING-CHENG, CN
[72] HSIEH, TIEN-LAN, CN
[71] SYNEURX INTERNATIONAL (TAIWAN) CORP., CN
[85] 2019-07-23
[86] 2018-01-11 (PCT/CN2018/072186)
[87] (WO2018/145553)
[30] US (15/430,750) 2017-02-13

[21] **3,051,297**
[13] A1

[51] **Int.Cl. C04B 35/80 (2006.01) B28B 1/00 (2006.01) C04B 35/117 (2006.01) C04B 35/185 (2006.01) C04B 35/488 (2006.01) C04B 35/565 (2006.01) C04B 35/628 (2006.01) C04B 35/653 (2006.01) C04B 35/83 (2006.01)**

[25] EN

[54] **METHOD TO ADDITIVELY MANUFACTURE A FIBER-REINFORCED CERAMIC MATRIX COMPOSITE**

[54] **PROCEDE D'IMPRESSION 3D D'UN COMPOSITE A MATRICE CERAMIQUE RENFORCEE PAR DES FIBRES**

[72] BRANDT, MILAN, AU
[72] DIETRICH, JENS, DE
[72] KELBASSA, INGOMAR, DE
[71] SIEMENS AKTIENGESSELLSCHAFT, DE
[85] 2019-07-23
[86] 2018-01-02 (PCT/EP2018/050012)
[87] (WO2018/137894)
[30] EP (17153083.5) 2017-01-25

[21] **3,051,306**
[13] A1

[51] **Int.Cl. F16L 37/23 (2006.01) F16L 37/34 (2006.01)**

[25] EN

[54] **FLAT FACE MALE HYDRAULIC COUPLING**

[54] **RACCORD HYDRAULIQUE MALE A FACE PLATE**

[72] B.V., CHETAN, IN
[71] EATON S.A.S., FR
[85] 2019-07-23
[86] 2018-01-26 (PCT/EP2018/051998)
[87] (WO2018/138284)
[30] IN (201711003100) 2017-01-27

[21] **3,051,310**
[13] A1

[51] **Int.Cl. F16L 37/23 (2006.01) F16L 37/34 (2006.01)**

[25] EN

[54] **FLAT FACE FEMALE HYDRAULIC COUPLING**

[54] **ACCOUPLLEMENT HYDRAULIQUE FEMELLE A FACE PLATE**

[72] LAFOND, SEBASTIEN, FR
[72] LAD, PRITAM SUDHAKAR, IN
[71] EATON S.A.S., FR
[85] 2019-07-23
[86] 2018-01-26 (PCT/EP2018/052000)
[87] (WO2018/138286)
[30] IN (201711003111) 2017-01-27

[21] **3,051,313**
[13] A1

[51] **Int.Cl. C08L 23/14 (2006.01)**

[25] EN

[54] **USE OF A POLYMER COMPOSITION FOR THE PRODUCTION OF ARTICLES WITH IMPROVED PAINTABILITY AND SURFACE APPEARANCE**

[54] **UTILISATION D'UNE COMPOSITION POLYMERE DESTINEE A LA PRODUCTION D'ARTICLES A PEIGNABILITE ET ASPECT DE SURFACE AMELIORES**

[72] KAHLLEN, SUSANNE, AT
[72] KNIESEL, CLAUDIA, AT
[72] LUMMERSTORFER, THOMAS, AT
[72] MILEVA, DANIELA, AT
[72] BOGDANOVIC, MILORAD, AT
[71] BOREALIS AG, AT
[85] 2019-07-23
[86] 2018-01-30 (PCT/EP2018/052193)
[87] (WO2018/141704)
[30] EP (17154520.5) 2017-02-03

[21] **3,051,318**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C12Q 1/6809 (2018.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **NEW USES OF ANTI-SIRPG ANTIBODIES**

[54] **NOUVELLES UTILISATIONS D'ANTICORPS ANTI-SIRPG**

[72] POIRIER, NICOLAS, FR
[72] MARY, CAROLINE, FR
[72] GAUTTIER, VANESSA, FR
[72] THEPENIER, VIRGINIE, FR
[72] PENGAM, SABRINA, FR
[72] VANHOVE, BERNARD, FR
[71] OSE IMMUNOTHERAPEUTICS, FR
[85] 2019-07-23
[86] 2018-02-15 (PCT/EP2018/053831)
[87] (WO2018/149938)
[30] EP (17305184.8) 2017-02-17

[21] **3,051,321**
[13] A1

[51] **Int.Cl. C05G 3/08 (2006.01) C05C 9/00 (2006.01)**

[25] EN

[54] **LIQUID UREASE INHIBITOR FORMULATIONS**

[54] **FORMULATIONS LIQUIDES D'INHIBITEURS D'UREASE**

[72] COLPAERT, FILIP, BE
[72] VAN BELZEN, RUUD, NL
[72] DONKERS, ELLEN HENRICA DIANA, NL
[71] YARA INTERNATIONAL ASA, NO
[85] 2019-07-23
[86] 2018-02-23 (PCT/EP2018/054513)
[87] (WO2018/154053)
[30] EP (PCT/EP2017/054397) 2017-02-24
[30] EP (17187558.6) 2017-08-23

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[21] **3,051,324**
[13] A1

[51] **Int.Cl. G01B 11/16 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **GENERATOR, MEASURING DEVICE, USE OF A MEASURING DEVICE, METHOD FOR OPERATING A GENERATOR, WIND ENERGY INSTALLATION AND METHOD FOR OPERATING A WIND ENERGY INSTALLATION**
[54] **GENERATEUR, DISPOSITIF DE MESURE, UTILISATION D'UN DISPOSITIF DE MESURE, PROCEDE POUR FAIRE FONCTIONNER UN GENERATEUR, EOLIENNE ET PROCEDE POUR FAIRE FONCTIONNER UNE EOLIENNE**
[72] ROSENBUSCH, PETER, DE
[71] WOBLEN PROPERTIES GMBH, DE
[85] 2019-07-23
[86] 2018-02-28 (PCT/EP2018/054859)
[87] (WO2018/158279)
[30] DE (10 2017 104 329.2) 2017-03-02

[21] **3,051,349**
[13] A1

[51] **Int.Cl. F16L 33/28 (2006.01) B29C 65/00 (2006.01) B29C 70/00 (2006.01) F16L 55/165 (2006.01) F16L 55/179 (2006.01)**
[25] EN
[54] **FITTING ELEMENT FOR USE IN REHABILITATION OF PIPELINES AND METHOD FOR PRODUCING THE SAME**
[54] **ELEMENT DE RACCORD DESTINE A ETRE UTILISE DANS LA RESTAURATION DE PIPELINES ET SON PROCEDE DE PRODUCTION**
[72] BERGMAN, ANANDE, NL
[72] MADLENER, PETER, NL
[72] RIEDIJK, WOUTER ALBERT ARIE, NL
[72] BAGGEN, DEAN, NL
[71] MOCS BEHEER B.V., NL
[85] 2019-07-23
[86] 2018-01-24 (PCT/NL2018/050051)
[87] (WO2018/139923)
[30] NL (2018224) 2017-01-24

[21] **3,051,350**
[13] A1

[51] **Int.Cl. C12Q 1/6804 (2018.01) C12N 15/10 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING LEVELS OF INTERACTIONS BETWEEN BIOMOLECULES**
[54] **PROCEDE DE DETERMINATION DE NIVEAUX D'INTERACTIONS ENTRE DES BIOMOLECULES**
[72] SODERBERG, OLA, SE
[71] ATLAS ANTIBODIES AB, SE
[85] 2019-07-23
[86] 2018-02-09 (PCT/SE2018/050121)
[87] (WO2018/147794)
[30] SE (1750122-2) 2017-02-09

[21] **3,051,351**
[13] A1

[51] **Int.Cl. C11B 1/04 (2006.01) C11B 1/08 (2006.01)**
[25] EN
[54] **MODULAR VERTICAL SEED CONDITIONER HEATING SECTION**
[54] **SECTION CHAUFFAGE DE CONDITIONNEUR DE GRAINES VERTICAL MODULAIRE**
[72] DEVINE, JESSE LYNN, US
[72] PAULSON, COREY ALAN, US
[72] FLOAN, BENJAMIN WAYNE, US
[71] CROWN IRON WORKS COMPANY, US
[85] 2019-07-23
[86] 2017-01-24 (PCT/US2017/014721)
[87] (WO2018/139987)

[21] **3,051,352**
[13] A1

[51] **Int.Cl. B61L 15/00 (2006.01) B60T 13/66 (2006.01)**
[25] EN
[54] **MID OF TRAIN UNIT**
[54] **UNITE DE TERMINAL INTERNET MOBILE DE TRAIN**
[72] BOLTE, MATTHEW, US
[72] FERNANDES, MARIO, US
[71] SIEMENS MOBILITY, INC., US
[85] 2019-07-23
[86] 2017-01-25 (PCT/US2017/014847)
[87] (WO2018/139998)

[21] **3,051,353**
[13] A1

[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INJECTION COMPONENT PREPARATION**
[54] **SYSTEME ET METHODE POUR L'INJECTION D'UNE PREPARATION DE CONSTITUANTS**
[72] SHLUZAS, ALAN E., US
[72] DIAZ, STEPHEN H., US
[71] CREDENCE MEDSYSTEMS, INC., US
[85] 2019-07-23
[86] 2017-01-27 (PCT/US2017/015511)
[87] (WO2017/132625)
[30] US (62/289,145) 2016-01-29
[30] US (62/304,139) 2016-03-04

[21] **3,051,354**
[13] A1

[51] **Int.Cl. A61K 31/16 (2006.01) A61K 31/165 (2006.01) C07D 215/02 (2006.01)**
[25] EN
[54] **TETRAHYDROQUINOLINE SUBSTITUTED HYDROXAMIC ACIDS AS SELECTIVE HISTONE DEACETYLASE 6 INHIBITORS**
[54] **ACIDES HYDROXAMIQUES SUBSTITUES PAR TETRAHYDROQUINOLINE EN TANT QU'INHIBITEURS SELECTIFS DE L'HISTONE DESACETYLASE 6**
[72] KOZIKOWSKI, ALAN, US
[72] SHEN, SIDA, US
[72] BERGMAN, JOEL, US
[72] GAISINA, IRINA N., US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2019-07-23
[86] 2017-02-15 (PCT/US2017/017850)
[87] (WO2017/142883)
[30] US (62/295,729) 2016-02-16

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[21] **3,051,355**
[13] A1

[51] **Int.Cl. B62K 5/02 (2013.01) B62K 5/027 (2013.01) B60K 7/00 (2006.01) B60K 17/04 (2006.01) B62B 5/00 (2006.01) B62D 61/06 (2006.01)**

[25] EN

[54] **THREE-WHEELED VEHICLE HAVING NON-AXIAL DRIVE**

[54] **VEHICULE A TROIS ROUES A ENTRAINEMENT NON AXIAL**

[72] LYNN, GREGORY STEWART, US

[72] SCHNAPP, JEFFREY T., US

[72] AMBLER, AMOS, US

[72] SMITH, JARROD, US

[72] EKMEKJIAN, NAZARETH V., US

[72] SAVINO, EMANUELE, US

[71] PIAGGIO FAST FORWARD, INC., US

[85] 2019-07-23

[86] 2017-05-10 (PCT/US2017/031944)

[87] (WO2018/140071)

[30] IT (102017000007710) 2017-01-25

[21] **3,051,356**
[13] A1

[51] **Int.Cl. A63H 33/28 (2006.01) A41D 19/00 (2006.01)**

[25] EN

[54] **WEARABLE ARTICLE AND PACKAGING FOR GENERATING BUBBLES**

[54] **ARTICLE PORTABLE ET EMBALLAGE DESTINES A GENERER DES BULLES**

[72] FU, JENIE PING, US

[72] WILLIAMS, KEVIN, US

[72] ROMANO, MATTHEW, US

[72] NIMES, BENJAMIN DOMINIC, US

[71] OGOSPORT LLC, US

[85] 2019-07-23

[86] 2017-07-11 (PCT/US2017/041532)

[87] (WO2018/034750)

[30] US (62/376,077) 2016-08-17

[30] US (15/644,347) 2017-07-07

[21] **3,051,357**
[13] A1

[51] **Int.Cl. A61K 31/415 (2006.01) A61P 13/12 (2006.01) A61P 17/06 (2006.01)**

[25] EN

[54] **PROCESSES FOR PREPARING AG-10, ITS INTERMEDIATES, AND SALTS THEREOF**

[54] **PROCEDES DE PREPARATION D'AG-10, DE SES INTERMEDIAIRES ET DE SELS CORRESPONDANTS**

[72] CHAND, POORAN, US

[72] GUPTA, YOGESH KUMAR, US

[72] KUMAWAT, RAKESH KUMAR, US

[72] ALHAMADSHEH, MAMOUN, US

[72] ZAMBONI, ROBERT, US

[71] EIDOS THERAPEUTICS, INC., US

[85] 2019-07-23

[86] 2018-02-16 (PCT/US2018/000025)

[87] (WO2018/151815)

[30] US (62/460,576) 2017-02-17

[21] **3,051,358**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01)**

[25] EN

[54] **CROP YIELD ESTIMATION USING AGRONOMIC NEURAL NETWORK**

[54] **ESTIMATION DE RENDEMENT DE CULTURE A L'AIDE D'UN RESEAU NEURONAL AGRONOMIQUE**

[72] GUAN, WEI, US

[72] ANDREJKO, ERIK, US

[71] THE CLIMATE CORPORATION, US

[85] 2019-07-23

[86] 2018-01-09 (PCT/US2018/012949)

[87] (WO2018/140225)

[30] US (15/416,694) 2017-01-26

[21] **3,051,359**
[13] A1

[51] **Int.Cl. F16K 11/07 (2006.01) F15B 13/04 (2006.01) F16K 25/00 (2006.01) F16K 27/04 (2006.01)**

[25] EN

[54] **HARD COATED SUPPLY BIASED SPOOL VALVES**

[54] **DISTRIBUTEURS A TIROIR D'ALIMENTATION SOLLICITES A REVETEMENT DUR**

[72] WINKLER, RICHARD J., US

[71] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2019-07-23

[86] 2018-01-10 (PCT/US2018/013061)

[87] (WO2018/144197)

[30] US (15/421,238) 2017-01-31

[21] **3,051,360**
[13] A1

[51] **Int.Cl. A61B 50/20 (2016.01) A61B 50/00 (2016.01) A61B 50/22 (2016.01) A61B 50/30 (2016.01) A61B 50/33 (2016.01) A61B 90/00 (2016.01) A61B 17/86 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **SINGLE-USE DISPOSABLE STERILE KIT**

[54] **KIT STERILE JETABLE A USAGE UNIQUE**

[72] HEALEY, RICHARD, US

[72] WATT, PHILIP, US

[72] CHAPMAN, MIRIAM, CH

[72] KERSTAN, DIRK, CH

[72] GRECO, STEVEN, US

[72] MOSZAK, DAVID, US

[72] BEAUPRE, TODD, US

[71] DEPUY SYNTHES PRODUCTS, INC., US

[85] 2019-07-23

[86] 2018-01-17 (PCT/US2018/013938)

[87] (WO2018/140264)

[30] US (15/415,583) 2017-01-25

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[21] **3,051,361**
[13] A1

[51] **Int.Cl. G07C 9/00 (2006.01)**
[25] EN
[54] **ACCESS CONTROL SYSTEM WITH SECURE PASS-THROUGH**
[54] **SYSTEME DE CONTROLE D'ACCES AVEC PASSAGE SECURISE**
[72] KUENZI, ADAM, US
[72] SCOVILLE, BRADLEY ARMAND, US
[71] CARRIER CORPORATION, US
[85] 2019-07-23
[86] 2018-01-19 (PCT/US2018/014434)
[87] (WO2018/136744)
[30] US (62/449,399) 2017-01-23

[21] **3,051,362**
[13] A1

[51] **Int.Cl. B01J 8/02 (2006.01) B01J 21/04 (2006.01) B01J 23/48 (2006.01) B01J 23/70 (2006.01) B01J 35/04 (2006.01) B01J 37/02 (2006.01)**
[25] EN
[54] **MONOLITHIC CATALYSTS FOR EPOXIDATION**
[54] **CATALYSEURS MONOLITHIQUES POUR EPOXYDATION**
[72] SUNG, SHIANG, US
[72] GAIK, STEVEN, US
[72] BOSCH, MARCO, DE
[72] KARPOV, ANDREY, DE
[71] BASF CORPORATION, US
[85] 2019-07-23
[86] 2018-01-22 (PCT/US2018/014669)
[87] (WO2018/140349)
[30] US (62/449,908) 2017-01-24

[21] **3,051,363**
[13] A1

[51] **Int.Cl. B44D 3/12 (2006.01)**
[25] EN
[54] **NESTING PAINT TRAY AND PAINT BUCKET SYSTEM**
[54] **SYSTEME DE BAC ET DE POT DE PEINTURE IMBRIQUE**
[72] ROBERTSON, JOSHUA R., US
[72] LAMBERTSON, MICHAEL C., JR., US
[72] MULROY, SARAH B., US
[71] THE SHERWIN-WILLIAMS COMPANY, US
[85] 2019-07-23
[86] 2018-01-23 (PCT/US2018/014829)
[87] (WO2018/136928)
[30] US (62/449,514) 2017-01-23

[21] **3,051,364**
[13] A1

[51] **Int.Cl. B44D 3/12 (2006.01) B05C 21/00 (2006.01)**
[25] EN
[54] **PAINT TRAY AND PAINT TRAY LINER**
[54] **BAC A PEINTURE ET CONTENANT SOUPLE DE BAC A PEINTURE**
[72] ROBERTSON, JOSHUA R., US
[72] LAMBERTSON, MICHAEL C., JR., US
[72] MULROY, SARAH B., US
[71] THE SHERWIN-WILLIAMS COMPANY, US
[85] 2019-07-23
[86] 2018-01-23 (PCT/US2018/014836)
[87] (WO2018/136930)
[30] US (15/413,207) 2017-01-23

[21] **3,051,365**
[13] A1

[51] **Int.Cl. G01N 33/49 (2006.01) G01N 33/86 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEMS AND METHODS FOR INTEGRATIVE PHOTO- OPTICAL/MECHANICAL TEST FOR NONCONTACT MEASUREMENT OF POLYMERIZATION**
[54] **APPAREIL, SYSTEMES ET PROCEDES POUR UN TEST PHOTO-OPTIQUE/MECANIQUE INTEGRE PERMETTANT UNE MESURE SANS CONTACT DE LA POLYMERISATION**
[72] KHISMATULLIN, DAMIR B., US
[72] LOU, DAISHEN, US
[71] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[85] 2019-07-23
[86] 2018-01-23 (PCT/US2018/014879)
[87] (WO2018/136949)
[30] US (62/449,404) 2017-01-23

[21] **3,051,367**
[13] A1

[51] **Int.Cl. A23B 4/03 (2006.01) F25B 15/10 (2006.01) F25D 17/06 (2006.01) F25D 23/06 (2006.01)**
[25] EN
[54] **VAPOR PRESSURE CONTROL SYSTEM**
[54] **SYSTEME DE REGULATION DE PRESSION DE VAPEUR**
[72] SANDELMAN, DAVID, US
[71] SANDELMAN, DAVID, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/014938)
[87] (WO2018/140424)
[30] US (15/414,716) 2017-01-25

[21] **3,051,368**
[13] A1

[51] **Int.Cl. B66F 11/04 (2006.01) B66C 23/90 (2006.01) E04G 1/24 (2006.01) F15B 15/08 (2006.01)**
[25] EN
[54] **PRESSURE BASED LOAD SENSING SYSTEM**
[54] **SYSTEME DE DETECTION DE CHARGE BASE SUR LA PRESSION**
[72] BAFILE, LOUIS A., US
[72] SMYLY, JAMES N., US
[72] POWERS, AARON A., US
[72] KOTLANGER, BRENDAN, US
[71] JLG INDUSTRIES, INC., US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/014963)
[87] (WO2018/140439)
[30] US (62/450,274) 2017-01-25

[21] **3,051,370**
[13] A1

[51] **Int.Cl. B08B 9/00 (2006.01) B01F 15/00 (2006.01) B08B 3/02 (2006.01) B08B 9/08 (2006.01) B65D 90/62 (2006.01)**
[25] EN
[54] **MIXER COMPRISING CLEANING NOZZLE**
[54] **MELANGEUR POURVU D'UNE BUSE DE NETTOYAGE**
[72] SCHMITT, CLEMENS, DE
[72] DORR, MARTIN, DE
[71] MASCHINENFABRIK GUSTAV EIRICH GMBH & CO. KG, DE
[85] 2019-07-23
[86] 2018-03-02 (PCT/EP2018/055182)
[87] (WO2018/162348)
[30] DE (10 2017 104 842.1) 2017-03-08

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[21] **3,051,373**
[13] A1

[51] **Int.Cl. C07D 513/04 (2006.01) A61K 31/542 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **INHIBITORS OF BETA SECRETASE**

[54] **INHIBITEURS DE BETA-SECRETASE**

[72] VOS, ANN MARLEEN, BE

[72] OEHLRICH, DANIEL, BE

[72] GIJSEN, HENRICUS JACOBUS MARIA, BE

[72] WATTS, KARL SHAWN, US

[72] BHAT, SATHESH PANGALA, US

[72] BUIJNSTERS, PETER JACOBUS JOHANNES ANTONIUS, BE

[72] VAN BRANDT, SVEN FRANCISCUS ANNA, BE

[72] ALCAZAR-VACA, MANUEL JESUS, ES

[71] JANSSEN PHARMACEUTICA NV, BE

[85] 2019-07-23

[86] 2018-03-06 (PCT/EP2018/055402)

[87] (WO2018/162444)

[30] US (62/467998) 2017-03-07

[30] EP (17189756.4) 2017-09-07

[21] **3,051,374**
[13] A1

[51] **Int.Cl. A61K 31/549 (2006.01) A61K 31/41 (2006.01) A61K 31/4418 (2006.01) A61P 9/12 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR THE TREATMENT OF HYPERTENSION**

[54] **COMPOSITIONS POUR LE TRAITEMENT DE L'HYPERTENSION**

[72] RODGERS, ANTHONY, AU

[72] MACMAHON, STEPHEN, US

[71] THE GEORGE INSTITUTE FOR GLOBAL HEALTH, AU

[85] 2019-07-23

[86] 2018-01-23 (PCT/IB2018/000083)

[87] (WO2018/138578)

[30] US (62/450,324) 2017-01-25

[21] **3,051,375**
[13] A1

[51] **Int.Cl. A63H 17/00 (2006.01) A63H 17/02 (2006.01) A63H 17/26 (2006.01)**

[25] EN

[54] **RECREATIONAL DEVICE**

[54] **DISPOSITIF RECREATIF**

[72] PIETROBON, DEBORA, IT

[72] JAMOUS, AZRA, IT

[72] DE SENSI, BENITO, IT

[71] KIDS INTERNATIONAL S.R.L., IT

[85] 2019-07-23

[86] 2018-01-09 (PCT/IB2018/050122)

[87] (WO2018/138589)

[30] IT (102017000009230) 2017-01-27

[21] **3,051,377**
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61K 47/68 (2017.01) A61K 39/42 (2006.01) A61K 49/00 (2006.01) A61P 31/16 (2006.01) C12N 15/13 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **HEMAGGLUTININ-SPECIFIC ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS SPECIFIQUES DE L'HEMAGGLUTININE ET LEURS UTILISATIONS**

[72] MANCEUR, AZIZA, CA

[72] MARCIL, ANNE, CA

[72] ZOU, WEI, CA

[72] KAMEN, AMINE, CA

[72] GADOURY, CHRISTINE, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2019-07-23

[86] 2018-01-26 (PCT/IB2018/050493)

[87] (WO2018/138681)

[30] US (62/451,230) 2017-01-27

[21] **3,051,378**
[13] A1

[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01) F16L 15/06 (2006.01)**

[25] EN

[54] **THREADED TUBULAR CONNECTION**

[54] **RACCORD TUBULAIRE FILETE**

[72] MUTIS RUEDA, DAVID, US

[72] BREEN, JONATHAN, US

[72] TATE, ANDREW, US

[71] HYDRIL COMPANY, US

[85] 2019-07-23

[86] 2018-02-02 (PCT/IB2018/050679)

[87] (WO2018/142348)

[30] NL (2018298) 2017-02-03

[21] **3,051,380**
[13] A1

[51] **Int.Cl. B29C 70/48 (2006.01) B29B 15/12 (2006.01) B29C 70/08 (2006.01) B32B 27/12 (2006.01) B32B 27/30 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01)**

[25] EN

[54] **METHOD AND SEMI-FINISHED ITEM FOR PRODUCING COMPOSITE PRODUCTS AND THE PRODUCTS THUS OBTAINED**

[54] **PROCEDE ET ARTICLE SEMI-FINI PERMETTANT DE FABRIQUER DES PRODUITS COMPOSITES, ET PRODUITS AINSI OBTENUS**

[72] MARCELLI, FABIO, IT

[71] AUTOMOBILI LAMBORGHINI S.P.A., IT

[85] 2019-07-23

[86] 2018-02-20 (PCT/IB2018/051019)

[87] (WO2018/154429)

[30] IT (102017000019306) 2017-02-21

[21] **3,051,382**
[13] A1

[51] **Int.Cl. B60L 9/18 (2006.01)**

[25] EN

[54] **CONTROL METHOD FOR ELECTRIC VEHICLE AND CONTROL DEVICE FOR ELECTRIC VEHICLE**

[54] **PROCEDE DE COMMANDE DE VEHICULE ELECTRIQUE ET DISPOSITIF DE COMMANDE**

[72] KUJUBU, NAOTERU, JP

[72] SHINDO, IKUMA, JP

[72] SUZUKI, TATSUYA, JP

[71] NISSAN MOTOR CO., LTD., JP

[85] 2019-07-23

[86] 2017-01-24 (PCT/JP2017/002384)

[87] (WO2018/138781)

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[21] **3,051,385**
[13] A1

[51] **Int.Cl. C12C 3/00 (2006.01) A23L 2/00 (2006.01) C12G 3/06 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING BEVERAGE AND METHOD FOR IMPROVING FLAVOR OF BEVERAGE**

[54] **METHODE DE PRODUCTION D'UNE BOISSON ET METHODE D'AMELIORATION DU GOUT D'UNE BOISSON**

[72] UEMOTO, MITSUHIRO, JP
[72] TAKOI, KIYOSHI, JP
[72] TANIGAWA, ATSUSHI, JP
[72] KOIE, KOICHIRO, JP
[72] ITOGA, YUTAKA, JP
[71] SAPPORO BREWERIES LIMITED, JP
[85] 2019-07-23
[86] 2017-12-26 (PCT/JP2017/046743)
[87] (WO2018/139153)
[30] JP (2017-011904) 2017-01-26

[21] **3,051,387**
[13] A1

[51] **Int.Cl. B22F 1/00 (2006.01) C22C 33/02 (2006.01) C22C 38/00 (2006.01)**

[25] EN

[54] **MIXED POWDER FOR POWDER METALLURGY, SINTERED BODY, AND METHOD FOR PRODUCING SINTERED BODY**

[54] **MELANGE DE POUDRES POUR METALLURGIE DES POUDRES, ET CORPS FRITTE AINSI QUE PROCEDE DE FABRICATION DE CELUI-CI**

[72] KOBAYASHI, AKIO, JP
[72] NAKAMURA, NAOMICHI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2019-07-23
[86] 2018-01-26 (PCT/JP2018/002495)
[87] (WO2018/143088)
[30] JP (2017-017878) 2017-02-02
[30] JP (2017-251991) 2017-12-27

[21] **3,051,389**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **A PHARMACEUTICAL COMPOSITION FOR USE IN THE TREATMENT OR PREVENTION OF A C5-RELATED DISEASE AND A METHOD FOR TREATING OR PREVENTING A C5-RELATED DISEASE**

[54] **COMPOSITION PHARMACEUTIQUE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT OU LA PREVENTION D'UNE MALADIE LIEE A C5 ET PROCEDE DE TRAITEMENT OU DE PREVENTION D'UNE MALADIE LIEE A C5**

[72] SHINOMIYA, KENJI, JP
[72] YONEYAMA, KOICHIRO, JP
[72] SHIBAHARA, NORIHITO, JP
[72] TSUBOI, YOSHINORI, JP
[72] FUKUZAWA, TAKU, SG
[72] HARAYA, KENTA, SG
[72] SAMPEI, ZENJIRO, SG
[72] BOGMAN, KATRIJN, CH
[72] CHAROIN, JEAN ERIC, CH
[71] CHUGAL SEIYAKU KABUSHIKI KAISHA, JP
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2019-07-23
[86] 2018-01-31 (PCT/JP2018/003193)
[87] (WO2018/143266)
[30] SG (10201700775Y) 2017-01-31
[30] SG (10201705954V) 2017-07-20

[21] **3,051,390**
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) C12N 5/04 (2006.01)**

[25] EN

[54] **METHOD FOR INTRODUCING SUBSTANCE INTO PLANT**

[54] **PROCEDE D'INTRODUCTION D'UNE SUBSTANCE DANS UNE PLANTE**

[72] KATO, NORIO, JP
[72] ICHIKAWA, MASAKO, JP
[72] OKAMOTO, TAKASHI, JP
[72] KOISO, NARUMI, JP
[72] KIBA, TAKATOSHI, JP
[72] TODA, ERIKA, JP
[71] JAPAN TOBACCO INC., JP
[71] RIKEN, JP
[71] TOKYO METROPOLITAN UNIVERSITY, JP
[85] 2019-07-23
[86] 2018-01-31 (PCT/JP2018/004103)
[87] (WO2018/143480)
[30] JP (2017-015371) 2017-01-31

[21] **3,051,393**
[13] A1

[51] **Int.Cl. H04L 12/58 (2006.01) H04L 9/06 (2006.01) H04L 9/30 (2006.01)**

[25] EN

[54] **METHOD FOR PROVIDING RECORDING AND VERIFICATION SERVICE FOR DATA RECEIVED AND TRANSMITTED BY MESSENGER SERVICE, AND SERVER USING METHOD**

[54] **PROCEDE POUR FOURNIR UN SERVICE D'ENREGISTREMENT ET DE VERIFICATION POUR DES DONNEES RECUES ET TRANSMISES PAR UN SERVICE DE MESSAGERIE, ET SERVEUR UTILISANT LE PROCEDE**

[72] HONG, JAY WU, KR
[72] UHR, JOON SUN, KR
[72] SONG, JOO HAN, KR
[71] COINPLUG, INC., KR
[85] 2019-07-23
[86] 2017-07-12 (PCT/KR2017/007447)
[87] (WO2018/012871)
[30] KR (10-2016-0088987) 2016-07-14

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[21] **3,051,394**
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/06 (2006.01) A61K 8/31 (2006.01) A61K 8/37 (2006.01) A61K 8/89 (2006.01) A61K 8/92 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **OIL-IN-WATER FORM COSMETIC COMPOSITION**

[54] **COMPOSITION COSMETIQUE SOUS FORME HUILE-DANS-L'EAU**

[72] HWANG, JOON YOUNG, KR
[72] PAIK, BYUNG RYOL, KR
[72] YOON, JIN YOUNG, KR
[72] AN, SOON AE, KR
[71] AMOREPACIFIC CORPORATION, KR
[85] 2019-07-23
[86] 2017-09-20 (PCT/KR2017/010287)
[87] (WO2018/056684)
[30] KR (10-2016-0120826) 2016-09-21

[21] **3,051,396**
[13] A1

[51] **Int.Cl. F21S 8/08 (2006.01) F21S 8/04 (2006.01) F21V 21/10 (2006.01) F21V 21/108 (2006.01) F21V 21/116 (2006.01)**

[25] EN

[54] **UNIVERSAL MOUNTING ASSEMBLY**

[54] **ENSEMBLE DE MONTAGE UNIVERSEL**

[72] ENGLE, JOSEPH, US
[72] HOLSCHER, THOMAS, US
[72] ROWLAND, BENJAMIN, US
[71] HUBBELL INCORPORATED, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015038)
[87] (WO2018/140488)
[30] US (62/449,728) 2017-01-24

[21] **3,051,397**
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 10/10 (2012.01)**

[25] EN

[54] **METHOD TO DETERMINE ACCOUNT SIMILARITY IN AN ONLINE ACCOUNTING SYSTEM**

[54] **PROCEDE POUR DETERMINER UNE SIMILARITE DE COMPTES DANS UN SYSTEME DE COMPTABILITE EN LIGNE**

[72] RAN, ALEXANDER S., US
[72] RUKONIC, MARKO, US
[72] LESNER, CHRISTOPHER, US
[72] WANG, WEI, US
[71] INTUIT INC., US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015039)
[87] (WO2018/140489)
[30] US (15/416,547) 2017-01-26

[21] **3,051,399**
[13] A1

[51] **Int.Cl. G01N 33/02 (2006.01) G06Q 10/08 (2012.01) G05B 13/02 (2006.01) G06N 7/00 (2006.01) G21C 17/00 (2006.01)**

[25] EN

[54] **AUTOMATED MONITORING AND CONTROL OF FOOD PROCESSING SYSTEMS**

[54] **SURVEILLANCE ET COMMANDE AUTOMATISEES DE SYSTEMES DE TRANSFORMATION D'ALIMENTS**

[72] YEAMAN, TIM, US
[71] SAFE FOODS CORPORATION, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015042)
[87] (WO2018/140491)
[30] US (62/452,214) 2017-01-30

[21] **3,051,400**
[13] A1

[51] **Int.Cl. E21B 19/00 (2006.01) B63B 35/44 (2006.01)**

[25] EN

[54] **JOINT RECOGNITION SYSTEM**

[54] **SYSTEME DE RECONNAISSANCE D'ARTICULATION**

[72] PILGRIM, RICK, US
[72] DELORY, STEPHEN JOSEPH, US
[72] ROPER, RICHARD ROBERT, US
[71] ENSCO INTERNATIONAL INCORPORATED, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015066)
[87] (WO2018/140508)
[30] US (62/449,853) 2017-01-24

[21] **3,051,401**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0492 (2006.01) A61N 1/00 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**

[25] EN

[54] **ACCESSING SPINAL NETWORK TO ENABLE RESPIRATORY FUNCTION**

[54] **ACCES A UN RESEAU VERTEBRAL POUR PERMETTRE LA FONCTION RESPIRATOIRE**

[72] LU, DANIEL C., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015098)
[87] (WO2018/140531)
[30] US (62/449,993) 2017-01-24

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[21] **3,051,402**
[13] A1

[51] **Int.Cl. E04B 1/348 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT STEEL PARALLEL MODULAR CONSTRUCTIONS SYSTEMS WITH SYNTHETIC MODULES**

[54] **SYSTEME DE CONSTRUCTION MODULAIRE PARALLELE EN ACIER LEGER AYANT DES MODULES SYNTHETIQUES**

[72] AYLWARD, PETER G., US
[72] MCCARRON, DOUGLAS J., US
[72] ODOM, DANIEL M., US
[72] PIERCE, BRIAN, US
[72] FLOOD, PATRICK, US
[71] AFFORDABLE MODULAR SYSTEMS, LLC, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015108)
[87] (WO2018/140538)
[30] US (62/449,912) 2017-01-24

[21] **3,051,407**
[13] A1

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/00 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **INFLATABLE MEDICAL BALLOON WITH VARIABLE PROFILE**

[54] **BALLONNET MEDICAL GONFLABLE A PROFIL VARIABLE**

[72] NEAL, SCOTT, US
[71] C.R. BARD, INC., US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015200)
[87] (WO2018/140583)
[30] US (15/415,226) 2017-01-25

[21] **3,051,408**
[13] A1

[51] **Int.Cl. B66F 9/24 (2006.01) B66F 9/075 (2006.01) B66F 11/04 (2006.01) E04G 1/22 (2006.01)**
[25] EN
[54] **POTHOLE PROTECTION MECHANISM FOR A LIFT MACHINE**

[54] **MECANISME DE PROTECTION CONTRE LES NIDS DE POULE POUR UNE MACHINE DE LEVAGE**

[72] ERICKSON, MATTHEW S., US
[72] KIEKHAEFER, JEREMY L., US
[71] JLG INDUSTRIES, INC., US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015209)
[87] (WO2018/144311)
[30] US (62/452,638) 2017-01-31

[21] **3,051,409**
[13] A1

[51] **Int.Cl. B62B 3/14 (2006.01)**
[25] EN
[54] **CART**

[54] **CHARIOT**

[72] MCMURTREY, WESLEY, US
[72] ALVAREZ, VALENTIN E., US
[72] COX, GREGORY ALAN, US
[72] DAYAN VOGEL, MAMIE ELIZABETH, US
[72] SEYMOUR, STEPHEN MICHAEL, US
[72] JOHNSON, GARRETT DAVID, US
[71] UNARCO INDUSTRIES LLC, US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015245)
[87] (WO2018/140605)
[30] US (62/450,437) 2017-01-25
[30] US (62/511,137) 2017-05-25
[30] US (15/879,659) 2018-01-25

[21] **3,051,410**
[13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/04 (2006.01) A01N 25/30 (2006.01)**
[25] EN
[54] **WOOD FIBERS FOR ENHANCED BINDING IN GROWING MEDIA**

[54] **FIBRES DE BOIS POUR UNE LIAISON AMELIOREE DANS DES MILIEUX DE CULTURE**

[72] REIERSEN, HERALD, US
[72] WARD, JOHN, US
[71] JIFFY INTERNATIONAL AS, NO
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015250)
[87] (WO2018/140607)
[30] US (62/450,799) 2017-01-26

[21] **3,051,411**
[13] A1

[51] **Int.Cl. G06F 21/57 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTHENTICATING PLATFORM TRUST IN A NETWORK FUNCTION VIRTUALIZATION ENVIRONMENT**

[54] **SYSTEMES ET PROCEDES D'AUTHENTIFICATION DE CONFIANCE DE PLATEFORME DANS UN ENVIRONNEMENT DE VIRTUALISATION DE FONCTION RESEAU**

[72] FAYNBERG, IGOR, US
[72] CLARKE, DONALD, US
[72] GOERINGER, STEVEN JOHN, US
[71] CABLE TELEVISION LABORATORIES, INC., US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015289)
[87] (WO2018/140628)
[30] US (62/450,311) 2017-01-25

[21] **3,051,414**
[13] A1

[51] **Int.Cl. G02B 1/00 (2006.01) G02B 5/18 (2006.01) H01Q 15/02 (2006.01)**
[25] EN
[54] **DIFFRACTION GRATINGS FORMED BY METASURFACES HAVING DIFFERENTLY ORIENTED NANOBEAMS**

[54] **RESEAUX DE DIFFRACTION FORMES PAR DES METASURFACES PRESENTANT DES NANO-FAISCEAUX ORIENTES DIFFEREMMENT**

[72] LIN, DIANMIN, US
[72] KLUG, MICHAEL ANTHONY, US
[72] ST. HILAIRE, PIERRE, US
[72] MELLI, MAURO, US
[72] PEROZ, CHRISTOPHE, US
[72] POLIAKOV, EVGENI, US
[71] MAGIC LEAP, INC., US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015324)
[87] (WO2018/140651)
[30] US (62/451,608) 2017-01-27
[30] US (62/451,615) 2017-01-27

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[21] **3,051,415**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01)**
[25] EN
[54] **CAPTURE-TOOL FOR MANIPULATING AND ENTUBULATING NERVES**
[54] **OUTIL DE CAPTURE POUR LA MANIPULATION ET L'ENTUBULATION DE NERFS**
[72] FALERIS, JENNIFER, US
[72] ENGEMANN, ANNE, US
[72] DEISTER, CURT, US
[71] AXOGEN CORPORATION, US
[85] 2019-07-23
[86] 2018-01-26 (PCT/US2018/015464)
[87] (WO2018/140737)
[30] US (15/416,290) 2017-01-26

[21] **3,051,416**
[13] A1

[51] **Int.Cl. D21C 11/12 (2006.01) F27D 25/00 (2010.01) F23G 7/04 (2006.01) F23J 1/06 (2006.01) F23J 1/08 (2006.01) F22B 37/48 (2006.01) F27D 3/15 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CLEANING SMELT SPOUTS AND SMELT DISCHARGE OPENINGS OF A CHEMICALS RECOVERY FURNACE OR BOILER**
[54] **APPAREIL ET PROCEDE POUR NETTOYER DES BECS DE COULEE DE FUSION ET DES OUVERTURES DE DECHARGE DE FUSION D'UN FOUR OU D'UNE CHAUDIERE DE RECUPERATION DE PRODUITS CHIMIQUES**
[72] BERTILSSON, MATS, SE
[71] MATS BERTILSSON FORVALTNING AB, SE
[85] 2019-06-06
[86] 2018-02-06 (PCT/SE2018/050110)
[87] (WO2018/147788)
[30] SE (SE 1730035-1) 2017-02-08

[21] **3,051,420**
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 9/00 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **CRAC CHANNEL INHIBITOR COMPOSITIONS**
[54] **COMPOSITIONS D'INHIBITEUR DE CANAL CRAC**
[72] STAUDERMAN, KENNETH A., US
[72] DUNN, MICHAEL, US
[71] CALCIMEDICA, INC., US
[85] 2019-07-23
[86] 2018-01-26 (PCT/US2018/015555)
[87] (WO2018/140796)
[30] US (62/451,020) 2017-01-26

[21] **3,051,423**
[13] A1

[51] **Int.Cl. G06F 3/06 (2006.01) G06F 11/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A SPECIALIZED COMPUTER FILE SYSTEM**
[54] **SYSTEMES ET PROCEDES POUR SYSTEME SPECIALISE DE FICHIERS INFORMATIQUES**
[72] BLASS, OSCAR, US
[72] MCNULLY, MICHELE, US
[71] WALMART APOLLO, LLC, US
[85] 2019-07-23
[86] 2018-01-29 (PCT/US2018/015743)
[87] (WO2018/140879)
[30] US (62/452,224) 2017-01-30

[21] **3,051,425**
[13] A1

[51] **Int.Cl. G06K 9/52 (2006.01) G06K 9/62 (2006.01) G06T 7/00 (2017.01) G06T 7/20 (2017.01) G06T 7/60 (2017.01)**
[25] EN
[54] **TRACKING IMAGE COLLECTION FOR DIGITAL CAPTURE OF ENVIRONMENTS, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **COLLECTE D'IMAGE DE SUIVI POUR CAPTURE NUMERIQUE D'ENVIRONNEMENTS, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] SCHUETT, NATHAN, US
[72] HAMMOND, ASA, US
[71] PRENAV, INC., US
[85] 2019-07-23
[86] 2018-01-29 (PCT/US2018/015788)
[87] (WO2018/144396)
[30] US (62/453,965) 2017-02-02

[21] **3,051,426**
[13] A1

[51] **Int.Cl. C11D 3/386 (2006.01)**
[25] EN
[54] **CLEANING COMPOSITIONS COMPRISING AMYLASE VARIANTS**
[54] **COMPOSITIONS DE NETTOYAGE COMPRENANT DES VARIANTS D'AMYLASE**
[72] ANDERSEN, CARSTEN, DK
[72] GHADIYARAM, CHAKSHUSMATHI, IN
[72] IYER, PADMA VENKATACHALAM, IN
[72] SAINATHAN, RAJENDRA KULOTHUNGAN, IN
[72] DAMAGER, IBEN, DK
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/015804)
[87] (WO2018/144399)
[30] IN (201711003745) 2017-02-01

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[21] **3,051,427**
[13] A1

[51] **Int.Cl. C08G 18/64 (2006.01) C08L 75/00 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL THERMOPLASTIC POLYURETHANES**
[54] **POLYURETHANES THERMOPLASTIQUES ANTIMICROBIENS**
[72] ZHANG, HUA, US
[72] DAY, ROGER W., US
[72] WOOFER, RICHARD, US
[72] MAKAL, UMIT G., US
[72] SMITH, KIARA, US
[71] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/015837)
[87] (WO2018/140910)
[30] US (62/451,899) 2017-01-30

[21] **3,051,432**
[13] A1

[51] **Int.Cl. A01N 25/10 (2006.01) A01N 47/44 (2006.01) A01P 1/00 (2006.01) A61L 2/16 (2006.01) A61L 27/34 (2006.01) A61L 29/08 (2006.01) A61L 31/10 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL, NON-THROMBOGENIC POLYMER COMPOSITIONS**
[54] **COMPOSITIONS POLYMERES ANTIMICROBIENNES NON THROMBOGENES**
[72] DAY, ROGER W., US
[72] ZHANG, HUA, US
[72] WOOFER, RICHARD, US
[72] MAKAL, UMIT G., US
[72] SMITH, KIARA, US
[71] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/015841)
[87] (WO2018/140911)
[30] US (62/451,903) 2017-01-30

[21] **3,051,434**
[13] A1

[51] **Int.Cl. B65G 37/02 (2006.01)**
[25] EN
[54] **CONVEYOR AND LOGIC SYSTEMS TO RETURN, BALANCE, AND BUFFER PROCESSED OR EMPTY TOTES**
[54] **SYSTEMES DE TRANSPORT ET DE LOGIQUE POUR RETOURNER, EQUILIBRER ET AMORTIR DES BACS TRAITES OU VIDES**
[72] THOMAS, NICHOLAS O., US
[72] COYLE, JASON SCOTT, US
[72] SOLANA, JESSICA L., US
[72] HARCAR, MUSTAFA A., US
[71] WALMART APOLLO, LLC, US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/015856)
[87] (WO2018/144422)
[30] US (62/453,750) 2017-02-02

[21] **3,051,441**
[13] A1

[51] **Int.Cl. B01J 7/00 (2006.01) B01J 20/00 (2006.01) C01B 3/40 (2006.01) C01B 3/56 (2006.01) F02B 43/10 (2006.01) F02M 21/02 (2006.01) F02M 27/02 (2006.01)**
[25] EN
[54] **POWER GENERATION USING HYDROGEN FUEL WITH ECONOMICAL CARBON DIOXIDE CAPTURE**
[54] **PRODUCTION D'ENERGIE A L'AIDE DE COMBUSTIBLE A BASE D'HYDROGENE, A CAPTURE ECONOMIQUE DE DIOXYDE DE CARBONE**
[72] SUBBARAMAN, GANESAN, US
[72] MAYS, JEFFREY A., US
[72] STANIS, RONALD J., US
[71] GAS TECHNOLOGY INSTITUTE, US
[85] 2019-07-23
[86] 2018-02-09 (PCT/US2018/017578)
[87] (WO2018/148514)
[30] US (62/456,993) 2017-02-09

[21] **3,051,442**
[13] A1

[51] **Int.Cl. C12N 5/074 (2010.01) A01K 67/027 (2006.01) A61K 35/407 (2015.01)**
[25] EN
[54] **METHODS OF ENGINEERING HUMAN INDUCED PLURIPOTENT STEM CELLS TO PRODUCE LIVER TISSUE**
[54] **PROCEDES D'INGENIERIE DE CELLULES SOUCHES PLURIPOTENTES INDUITES HUMAINES POUR PRODUIRE UN TISSU HEPATIQUE**
[72] SOTO-GUTIERREZ, ALEJANDRO, US
[72] MASHIMO, TOMOJI, JP
[72] COLLIN DE L'HORTET, ALEXANDRA SYLVIE, US
[72] ALVAREZ, EDUARDO CERVANTES, US
[72] LEPE, JORGE GUZMAN, US
[72] HANDA, KAN, US
[72] TAKEISHI, KAZUKI, US
[72] WANG, YANG, US
[72] POPOVIC, BRANIMIR, US
[71] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATIO, US
[85] 2019-07-23
[86] 2018-02-13 (PCT/US2018/018032)
[87] (WO2018/152120)
[30] US (62/459,003) 2017-02-14

[21] **3,051,443**
[13] A1

[51] **Int.Cl. B23D 36/00 (2006.01) B23D 53/00 (2006.01) B23D 55/00 (2006.01) B27B 1/00 (2006.01) B27B 13/00 (2006.01) B27B 15/00 (2006.01)**
[25] EN
[54] **BAND SAW HAVING POROUS BEARINGS AND A METHOD OF OPERATING A BAND SAW**
[54] **SCIE A RUBAN A PALIERS POREUX ET PROCEDE DE FONCTIONNEMENT D'UNE SCIE A RUBAN**
[72] POLLARD, LEVI A., US
[71] BARK DELIVERED INC., US
[85] 2019-07-23
[86] 2018-02-16 (PCT/US2018/018472)
[87] (WO2018/156424)
[30] US (62/462,112) 2017-02-22
[30] US (15/897,752) 2018-02-15

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[21] **3,051,445**
[13] A1

[51] **Int.Cl. A61D 99/00 (2006.01) A61D 7/00 (2006.01)**

[25] EN

[54] **EQUINE RESPIRATORY PROSTHETIC DEVICE AND METHODS OF USE**

[54] **DISPOSITIF PROTHETIQUE RESPIRATOIRE POUR CHEVAL ET METHODES D'UTILISATION**

[72] LEGUILLETTE, RENAUD, CA

[71] VET TECH INNOVATIONS LTD., CA

[85] 2019-07-24

[86] 2018-01-25 (PCT/CA2018/050087)

[87] (WO2018/137032)

[30] US (62/451,104) 2017-01-27

[21] **3,051,446**
[13] A1

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

[25] EN

[54] **SLEEPYSTRIP DISPOSABLE BREATHING APPARATUS**

[54] **APPAREIL RESPIRATOIRE JETABLE SLEEPYSTRIP**

[72] WILLIS, KAREN, AU

[72] HANSON, DANIEL, AU

[72] WILLIS, DANIEL, AU

[71] SLEEPYSTRIP PTY LTD, AU

[85] 2019-07-24

[86] 2017-01-24 (PCT/AU2017/050053)

[87] (WO2017/132723)

[30] AU (2016900309) 2016-02-01

[21] **3,051,447**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) G01R 11/56 (2006.01)**

[25] EN

[54] **BATTERY LEASING AND WIRELESS POWER TRANSFER FOR PASSENGER RAIL**

[54] **LOCATION DE BATTERIE ET TRANSFERT D'ENERGIE SANS FIL POUR RAIL DE PASSAGER**

[72] COOK, DAVID, US

[71] CLEAN TRAIN PROPULSION, US

[85] 2019-07-24

[86] 2017-11-21 (PCT/US2017/062912)

[87] (WO2018/094421)

[30] US (62/424,914) 2016-11-21

[21] **3,051,448**
[13] A1

[51] **Int.Cl. F21V 7/00 (2006.01) F21S 2/00 (2016.01) F21S 8/04 (2006.01) F21V 21/02 (2006.01)**

[25] EN

[54] **LIGHT COVE CAP**

[54] **COUVERCLE DE CORNICHE D'ECLAIRAGE**

[72] TURCOTTE, MARIO, US

[72] MAYO, RICHARD, US

[71] DORR HOUZZER USA LLC, US

[85] 2019-07-24

[86] 2018-08-30 (PCT/US2018/048721)

[87] (WO2019/112665)

[30] US (15/833,207) 2017-12-06

[21] **3,051,450**
[13] A1

[51] **Int.Cl. B62D 7/22 (2006.01) B60D 1/145 (2006.01) B60D 1/30 (2006.01) B60G 11/14 (2006.01) B60G 21/055 (2006.01) B62D 6/04 (2006.01)**

[25] EN

[54] **MEMBER FOR CENTERING AND/OR STEERING ASSIST**

[54] **ELEMENT POUR ASSISTANCE AU CENTRAGE ET/OU A LA DIRECTION**

[72] SHEPHERD, JOHN D., US

[71] SHEPHERD, JOHN D., US

[85] 2019-07-24

[86] 2018-06-08 (PCT/US2018/036694)

[87] (WO2018/227113)

[30] US (62/517,494) 2017-06-09

[21] **3,051,451**
[13] A1

[51] **Int.Cl. B65G 61/00 (2006.01) B25J 9/00 (2006.01) B65G 57/00 (2006.01) B65G 57/24 (2006.01)**

[25] EN

[54] **ROBOTIC PALLETIZING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE PALETTISATION ROBOTISE**

[72] BOUDREAU, JEAN-ROBERT, CA

[71] PREMIER TECH TECHNOLOGIES LTEE, CA

[85] 2019-07-24

[86] 2018-01-25 (PCT/CA2018/050088)

[87] (WO2018/137033)

[30] US (62/450,748) 2017-01-26

[21] **3,051,452**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/0775 (2010.01) A61L 31/04 (2006.01)**

[25] EN

[54] **METHODS AND MATERIALS FOR TREATING FISTULAS**

[54] **PROCEDES ET MATERIAUX POUR LE TRAITEMENT DE FISTULES**

[72] DIETZ, ALLAN B., US

[72] FAUBION, WILLIAM A., US

[72] DOZOIS, ERIC J., US

[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2019-07-24

[86] 2018-03-21 (PCT/US2018/023616)

[87] (WO2018/175624)

[30] US (62/474,483) 2017-03-21

[21] **3,051,453**
[13] A1

[51] **Int.Cl. C09J 175/04 (2006.01) C08G 18/18 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **REACTIVE HOT MELT POLYURETHANE ADHESIVE WITH LOW MONOMERIC DIISOCYANATE CONTENT**

[54] **ADHESIF DE POLYURETHANE THERMOFUSIBLE REACTIF A FAIBLE TENEUR EN DIISOCYANATE MONOMERE**

[72] PILLALAMARRI, SUNIL K., US

[72] KAUFFMAN, THOMAS F., US

[71] H.B. FULLER COMPANY, US

[85] 2019-07-24

[86] 2018-03-09 (PCT/US2018/021739)

[87] (WO2018/165546)

[30] US (62/469,030) 2017-03-09

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[21] **3,051,454**
[13] A1

[51] **Int.Cl. B01J 27/16 (2006.01) B01J 27/14 (2006.01) B01J 27/182 (2006.01) B01J 35/10 (2006.01) C07C 2/00 (2006.01) C07C 2/04 (2006.01) C07C 2/18 (2006.01)**

[25] EN

[54] **SOLID PHOSPHORIC ACID CATALYSTS**

[54] **CATALYSEURS D'ACIDE PHOSPHORIQUE SOLIDE**

[72] TURBEVILLE, WAYNE, US

[72] KORYNTA, GREG, US

[72] HOGUE, PETER, US

[72] SHEN, WENQIN, US

[72] BORN, MARC, US

[72] TOLLE, DAVID, US

[72] SEVERANCE, MICHAEL, US

[72] DUEKER, AXEL, DE

[71] CLARIANT CORPORATION, US

[85] 2019-07-24

[86] 2018-03-09 (PCT/US2018/021678)

[87] (WO2018/169774)

[30] US (62/470,313) 2017-03-12

[21] **3,051,455**
[13] A1

[51] **Int.Cl. F16F 7/112 (2006.01) B60G 11/27 (2006.01) F16F 7/10 (2006.01) F16F 9/04 (2006.01)**

[25] EN

[54] **DAMPING CONVOLUTED AIR SPRING**

[54] **RESSORT PNEUMATIQUE CONVOLUTE D'AMORTISSEMENT**

[72] DELORENZIS, DAMON, US

[72] GOTTSCHALK, MICHAEL J., US

[72] VAN METER, MATTHEW J., US

[71] WATSON & CHALIN MANUFACTURING, INC., US

[85] 2019-07-24

[86] 2018-03-08 (PCT/US2018/021448)

[87] (WO2018/165364)

[30] US (62/468,988) 2017-03-09

[21] **3,051,456**
[13] A1

[51] **Int.Cl. C02F 1/461 (2006.01) C25B 9/06 (2006.01) C25B 11/02 (2006.01)**

[25] EN

[54] **STACK OF ELECTROCHEMICAL CELLS FOR WASTEWATER TREATMENT WITH ISOLATED ELECTRODES**

[54] **EMPILEMENT DE CELLULES ELECTROCHIMIQUES POUR LE TRAITEMENT DES EAUX USEES AVEC DES ELECTRODES ISOLEES**

[72] HARVEY, DAVID, CA

[72] WOOD, BRENDAN, CA

[72] JAYASANKAR, BARATH, CA

[72] BELLEMARE-DAVIS, ALEXANDER, CA

[71] AXINE WATER TECHNOLOGIES INC., CA

[85] 2019-07-24

[86] 2018-02-28 (PCT/US2018/020269)

[87] (WO2018/160727)

[30] US (62/465,448) 2017-03-01

[21] **3,051,457**
[13] A1

[51] **Int.Cl. B21D 15/06 (2006.01) B21D 17/02 (2006.01) B21D 17/04 (2006.01) B21D 41/04 (2006.01) B21H 1/22 (2006.01) B21H 7/18 (2006.01)**

[25] EN

[54] **CAM GROOVING MACHINE WITH CAM STOP SURFACES**

[54] **MACHINE DE RAINURAGE A CAME PRESENTANT DES SURFACES D'ARRET DE CAME**

[72] DOLE, DOUGLAS R., US

[71] VICTAULIC COMPANY, US

[85] 2019-07-24

[86] 2018-02-26 (PCT/US2018/019622)

[87] (WO2018/203963)

[30] US (15/585,457) 2017-05-03

[21] **3,051,458**
[13] A1

[51] **Int.Cl. D21H 27/10 (2006.01) D21H 19/58 (2006.01)**

[25] EN

[54] **HEAT SEALABLE BARRIER PAPERBOARD**

[54] **CARTON BARRIERE THERMOSCELLABLE**

[72] PANG, JIEBIN, US

[72] MELTON, NATASHA G., US

[72] KRUG, TERESA, US

[72] PARKER, STEVEN, US

[71] WESTROCK MWV, LLC, US

[85] 2019-07-24

[86] 2018-02-22 (PCT/US2018/019102)

[87] (WO2018/156685)

[30] US (62/463,857) 2017-02-27

[21] **3,051,459**
[13] A1

[51] **Int.Cl. B26D 1/28 (2006.01) B26D 7/26 (2006.01)**

[25] EN

[54] **MODULAR UNITS, CLAMPING ASSEMBLIES, AND SLICING MACHINES EQUIPPED THEREWITH**

[54] **UNITES MODULAIRES, ENSEMBLES DE SERRAGE ET TRANCHEUSES EQUIPEES DE CEUX-CI**

[72] GEREG, DUSTIN JOSEPH, US

[72] JACKO, MICHAEL SCOT, US

[71] URSCHEL LABORATORIES, INC., US

[85] 2019-07-24

[86] 2018-02-08 (PCT/US2018/017401)

[87] (WO2018/148395)

[30] US (62/457,205) 2017-02-10

[21] **3,051,460**
[13] A1

[51] **Int.Cl. F25B 17/10 (2006.01) F25B 25/02 (2006.01) F25B 41/04 (2006.01) F25B 49/04 (2006.01)**

[25] EN

[54] **INTELLIGENT COOLING SYSTEM**

[54] **SYSTEME DE REFROIDISSEMENT INTELLIGENT**

[72] ROCKENFELLER, UWE, US

[72] KHALILI, KAVEH, US

[71] ROCKY RESEARCH, US

[85] 2019-07-24

[86] 2018-02-07 (PCT/US2018/017257)

[87] (WO2018/164800)

[30] US (15/451,150) 2017-03-06

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[21] **3,051,461**
[13] A1

[51] **Int.Cl. F25B 25/02 (2006.01) B01J 20/02 (2006.01) B01J 20/04 (2006.01) F25B 17/08 (2006.01) F25B 41/04 (2006.01) F25B 49/04 (2006.01) F41H 13/00 (2006.01)**

[25] EN
[54] **BURST MODE COOLING SYSTEM**
[54] **SYSTEME DE REFROIDISSEMENT EN MODE RAFALE**

[72] ROCKENFELLER, UWE, US
[72] KHALILI, KAVEH, US
[71] ROCKY RESEARCH, US
[85] 2019-07-24
[86] 2018-02-07 (PCT/US2018/017172)
[87] (WO2018/164797)
[30] US (15/451,145) 2017-03-06

[21] **3,051,462**
[13] A1

[51] **Int.Cl. A23L 3/00 (2006.01) A23L 5/00 (2016.01) A47F 10/06 (2006.01) A47J 39/00 (2006.01) G07F 9/02 (2006.01) G07F 9/10 (2006.01)**

[25] EN
[54] **PRODUCT GROUPING AND SELECTION SYSTEM AND METHOD FOR FOOD HOLDING DEVICES**
[54] **SYSTEME ET PROCEDE DE REGROUPEMENT ET DE SELECTION DE PRODUITS POUR DISPOSITIFS DE MAINTIEN D'ALIMENTS**

[72] PATTERSON, NICHOLAS, US
[72] LUNDBERG, KENNETH LEE, US
[72] ACOSTA, RICARDO, US
[71] ENODIS CORPORATION, US
[85] 2019-07-24
[86] 2018-02-07 (PCT/US2018/017192)
[87] (WO2018/148259)
[30] US (62/456,200) 2017-02-08

[21] **3,051,463**
[13] A1

[51] **Int.Cl. C12N 1/00 (2006.01) C12N 1/20 (2006.01) C12N 1/21 (2006.01) C12N 9/00 (2006.01) C12N 15/00 (2006.01) C12N 15/52 (2006.01) C12P 5/00 (2006.01)**

[25] EN
[54] **METABOLIC ENGINEERING FOR MICROBIAL PRODUCTION OF TERPENOID PRODUCTS**
[54] **INGENIERIE METABOLIQUE POUR LA PRODUCTION MICROBIENNE DE PRODUITS TERPENOIDES**

[72] KUMARAN, AJIKUMAR PARAYIL, US
[72] LIM, CHIN-GIAW, US
[72] GHOSH, SOUVIK, US
[72] PIRIE, CHRISTOPHER, US
[72] DONALD, JASON, US
[72] LOVE, AARON, US
[72] NAN, HONG, US
[72] TSENG, HSIEN-CHUNG, US
[72] SANTOS, CHRISTINE NICOLE S., US
[72] PHILIPPE, RYAN, US
[71] MANUS BIO, INC., US
[85] 2019-07-24
[86] 2018-02-05 (PCT/US2018/016848)
[87] (WO2018/144996)
[30] US (62/454,121) 2017-02-03

[21] **3,051,464**
[13] A1

[51] **Int.Cl. B26D 3/26 (2006.01) B26D 1/00 (2006.01) B26D 7/00 (2006.01)**

[25] EN
[54] **WATER BEARING AND FOOD CUTTING ASSEMBLY**
[54] **ENSEMBLE A CIRCULATION D'EAU ET COUPE D'ALIMENTS**

[72] JULIAN, JOHN C., US
[72] SMITH, CHRISTOPHER M., US
[72] FOW, MARK A., US
[71] LAMB WESTON, INC., US
[85] 2019-07-24
[86] 2018-02-02 (PCT/US2018/016572)
[87] (WO2018/148112)
[30] US (15/426,520) 2017-02-07
[30] US (15/426,492) 2017-02-07

[21] **3,051,465**
[13] A1

[51] **Int.Cl. G01N 21/62 (2006.01) G01N 33/53 (2006.01) G01N 33/532 (2006.01)**

[25] EN
[54] **SOLUTION-BASED PLASMON SPECIFIC-BINDING PARTNER ASSAYS AND METALLIC NANOSTRUCTURES**
[54] **DOSAGES PLASMONIQUES EN SOLUTION DE PARTENAIRES DE LIAISON SPECIFIQUES, ET NANOSTRUCTURES METALLIQUES**

[72] CHIANG, VINCENT, US
[72] UNSER, SARAH ANN, US
[72] MEHRA, RAJESH K., US
[72] ARON, KENNETH P., US
[71] ABAXIS, INC., US
[85] 2019-07-24
[86] 2018-01-30 (PCT/US2018/015981)
[87] (WO2018/140953)
[30] US (62/451,932) 2017-01-30

[21] **3,051,466**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 37/08 (2006.01) C07K 16/00 (2006.01) C07K 16/46 (2006.01) C12N 5/16 (2006.01) C12P 21/08 (2006.01) G01N 33/50 (2006.01) G01N 33/564 (2006.01)**

[25] EN
[54] **GENERATION OF HUMAN ALLERGEN-AND HELMINTH-SPECIFIC IGE MONOCLONAL ANTIBODIES FOR DIAGNOSTIC AND THERAPEUTIC USE**
[54] **GENERATION D'ANTICORPS MONOCLONAUX IGE SPECIFIQUES D'ALLERGENES ET D'HELMINTHES HUMAINS POUR UNE UTILISATION DIAGNOSTIQUE ET THERAPEUTIQUE**

[72] SMITH, SCOTT A., US
[71] VANDERBILT UNIVERSITY, US
[85] 2019-07-24
[86] 2018-01-30 (PCT/US2018/015870)
[87] (WO2018/144425)
[30] US (62/452,603) 2017-01-31

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[21] **3,051,467**
[13] A1

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 47/12 (2006.01) A61P 9/00 (2006.01) A61P 9/12 (2006.01)**

[25] EN

[54] **NOREPINEPHRINE COMPOSITIONS AND METHODS THEREFOR**

[54] **COMPOSITIONS DE NOREPINEPHRINE ET PROCEDES ASSOCIES**

[72] YADAV, VIVEK, US

[72] GARAPATI, SRIRAMYA, US

[72] HINGORANI, TUSHAR, US

[72] ILITCHEV, IOURI V., US

[72] AKASAPU, PREM SAGAR, US

[72] SOPPIMATH, KUMARESH, US

[72] PURI, NAVNEET, US

[71] NEVAKAR, INC, US

[85] 2019-07-24

[86] 2018-01-29 (PCT/US2018/015779)

[87] (WO2018/140894)

[30] US (62/452,220) 2017-01-30

[21] **3,051,468**
[13] A1

[51] **Int.Cl. B65D 19/32 (2006.01)**

[25] EN

[54] **COMPOSITE PALLET**

[54] **PALETTE COMPOSITE**

[72] HAWLEY, RONALD CLARE, US

[72] MAZULA, DEREK JOEL, US

[71] INTEGRATED COMPOSITE PRODUCTS, INC., US

[85] 2019-07-24

[86] 2018-01-29 (PCT/US2018/015741)

[87] (WO2018/140878)

[30] US (62/452,159) 2017-01-30

[21] **3,051,469**
[13] A1

[51] **Int.Cl. C12N 5/07 (2010.01) A61K 35/28 (2015.01) A61P 9/10 (2006.01)**

[25] EN

[54] **T CELLS DERIVED FROM UMBILICAL CORD BLOOD**

[54] **LYMPHOCYTES T DERIVES DE SANG DE CORDON OMBILICAL**

[72] LAUGHLIN, MARY, US

[72] DO, JEONG SU, US

[71] ABRAHAM J AND PHYLLIS KATZ CORD BLOOD FOUNDATION, US

[85] 2019-07-24

[86] 2018-01-29 (PCT/US2018/015667)

[87] (WO2018/140850)

[30] US (62/451,364) 2017-01-27

[30] US (62/552,119) 2017-08-30

[30] US (62/595,243) 2017-12-06

[21] **3,051,470**
[13] A1

[51] **Int.Cl. C08J 9/28 (2006.01) C08J 5/04 (2006.01)**

[25] EN

[54] **ORGANIC POLYMER AEROGELS COMPRISING MICROSTRUCTURES**

[54] **AEROGELS POLYMERES ORGANIQUES COMPRENANT DES MICROSTRUCTURES**

[72] SAKAGUCHI, ALAN, US

[72] IRVIN, DAVID, US

[72] JOAQUIN, ALYSA, US

[71] BLUESHIFT INTERNATIONAL MATERIALS, INC., US

[85] 2019-07-24

[86] 2018-01-26 (PCT/US2018/015568)

[87] (WO2018/140804)

[30] US (62/450,992) 2017-01-26

[21] **3,051,471**
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01) H04L 12/879 (2013.01) H04L 29/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SCRUBBING DNS IN A TELECOMMUNICATIONS NETWORK TO MITIGATE ATTACKS**

[54] **SYSTEME ET PROCEDE DE NETTOYAGE DE DNS DANS UN RESEAU DE TELECOMMUNICATIONS AFIN DE DIMINUER DES ATTAQUES**

[72] MASLAK, JOELLE T., US

[72] WILLIAMSON, TODD J., US

[72] BRADY, KEVIN, US

[71] LEVEL 3 COMMUNICATIONS, LLC, US

[85] 2019-07-24

[86] 2018-01-26 (PCT/US2018/015550)

[87] (WO2018/140794)

[30] US (62/451,438) 2017-01-27

[21] **3,051,472**
[13] A1

[51] **Int.Cl. C12N 9/88 (2006.01) C12N 15/70 (2006.01) C12P 5/00 (2006.01) C12P 9/00 (2006.01)**

[25] EN

[54] **METABOLIC ENGINEERING FOR MICROBIAL PRODUCTION OF TERPENOID PRODUCTS**

[54] **INGENIERIE METABOLIQUE POUR LA PRODUCTION MICROBIENNE DE PRODUITS TERPENOIDES**

[72] KUMARAN, AJIKUMAR PARAYIL, US

[72] LIM, RYAN, US

[72] DONALD, JASON, US

[72] TSENG, HSIEN-CHUNG, US

[72] SANTOS, CHRISTINE, US

[72] PHILIPPE, RYAN, US

[71] MANUS BIO, INC., US

[85] 2019-07-24

[86] 2018-01-26 (PCT/US2018/015527)

[87] (WO2018/140778)

[30] US (62/450,707) 2017-01-26

[21] **3,051,473**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) G06Q 10/08 (2012.01) B25J 5/00 (2006.01)**

[25] EN

[54] **DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES ROBOTIQUES AUTONOME REPARTIS**

[72] HIGH, DONALD, US

[72] WINKLE, DAVID, US

[72] MCHALE, BRIAN GERARD, GB

[72] MATTINGLY, TODD DAVENPORT, US

[71] WALMART APOLLO, LLC, US

[85] 2019-07-24

[86] 2018-01-26 (PCT/US2018/015514)

[87] (WO2018/140770)

[30] US (62/452,112) 2017-01-30

[21] **3,051,473**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) G06Q 10/08 (2012.01) B25J 5/00 (2006.01)**

[25] EN

[54] **DISTRIBUTED AUTONOMOUS ROBOT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES ROBOTIQUES AUTONOME REPARTIS**

[72] HIGH, DONALD, US

[72] WINKLE, DAVID, US

[72] MCHALE, BRIAN GERARD, GB

[72] MATTINGLY, TODD DAVENPORT, US

[71] WALMART APOLLO, LLC, US

[85] 2019-07-24

[86] 2018-01-26 (PCT/US2018/015514)

[87] (WO2018/140770)

[30] US (62/452,112) 2017-01-30

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[21] 3,051,474 [13] A1	[21] 3,051,476 [13] A1	[21] 3,051,478 [13] A1
[51] Int.Cl. G05B 19/418 (2006.01) [25] EN [54] DISTRIBUTED AUTONOMOUS ROBOT INTERFACING SYSTEMS AND METHODS [54] PROCEDES ET SYSTEMES D'INTERFACE DE ROBOT AUTONOME DISTRIBUES [72] HIGH, DONALD, US [72] WINKLE, DAVID, US [72] MCHALE, BRIAN GERARD, GB [72] MATTINGLY, TODD DAVENPORT, US [71] WALMART APOLLO, LLC, US [85] 2019-07-24 [86] 2018-01-26 (PCT/US2018/015444) [87] (WO2018/140722) [30] US (62/452,118) 2017-01-30	[51] Int.Cl. H04W 4/80 (2018.01) [25] EN [54] WIRELESS LOCATOR SYSTEM [54] SYSTEME DE LOCALISATION SANS FIL [72] HELMS, DAVID, US [72] WALLACE, MARC, US [72] YODER, SCOTT, US [72] NGUYEN, FRANCIS, US [71] RADIUS NETWORKS, INC., US [85] 2019-07-23 [86] 2018-02-01 (PCT/US2018/016336) [87] (WO2018/144664) [30] US (62/453,872) 2017-02-02 [30] US (15/884,132) 2018-01-30	[51] Int.Cl. C12M 1/00 (2006.01) C12N 1/20 (2006.01) C12P 13/00 (2006.01) C12P 21/00 (2006.01) [25] EN [54] MICROBIAL CONVERSION OF CO2 AND OTHER C1 SUBSTRATES TO VEGAN NUTRIENTS, FERTILIZERS, BIOSTIMULANTS, AND SYSTEMS FOR ACCELERATED SOIL CARBON SEQUESTRATION [54] CONVERSION MICROBIENNE DE CO2 ET D'AUTRES SUBSTRATS EN C1 EN NUTRIMENTS VEGANS, EN ENGRAIS, EN BIOSTIMULANTS ET EN SYSTEMES POUR LA SEQUESTRATION ACCELEREE DU CARBONE DU SOL [72] DYSON, LISA, US [72] REED, JOHN, US [72] GELLER, JIL, US [72] HANDE, SONALI, US [71] KIVERDI, INC., US [85] 2019-07-23 [86] 2018-02-04 (PCT/US2018/016779) [87] (WO2018/144965) [30] US (62/454,347) 2017-02-03
[21] 3,051,475 [13] A1	[21] 3,051,477 [13] A1	[21] 3,051,479 [13] A1
[51] Int.Cl. G01N 21/76 (2006.01) G01N 33/531 (2006.01) G01N 33/553 (2006.01) [25] EN [54] MAGNETIC PARTICLE-BASED IMMUNOASSAY AND METHODS OF USING THE SAME [54] IMMUNODOSAGE A BASE DE PARTICULES MAGNETIQUES ET SES PROCEDES D'UTILISATION [72] WARD, ANDREW, US [72] CHANDRASEKARAN, ARUN RICHARD, US [72] CHEN, DANIEL, US [72] BLANCHARD, CHRISTOPHER, US [72] GARDEN, PADRIC, US [72] DEMARCO, BRADLEY, US [72] FORMAN, JOSHUA, US [72] KOUSSA, MOUNIR A., US [72] CALDWELL, LISA, US [71] VITAL BIOSCIENCES, INC., CA [85] 2019-07-24 [86] 2018-01-26 (PCT/US2018/015440) [87] (WO2018/140719) [30] US (62/450,623) 2017-01-26 [30] US (62/544,393) 2017-08-11	[51] Int.Cl. H04B 7/155 (2006.01) [25] EN [54] BAND-SPECIFIC DETECTION IN A SIGNAL BOOSTER [54] DETECTION SPECIFIQUE A LA BANDE DANS UN AMPLIFICATEUR DE SIGNAL [72] NORDGRAN, CASEY JAMES, US [72] ASHWORTH, CHRISTOPHER KEN, US [72] COOK, PATRICK LEE, US [71] WILSON ELECTRONICS, LLC, US [85] 2019-07-23 [86] 2018-02-02 (PCT/US2018/016735) [87] (WO2018/144940) [30] US (62/453,904) 2017-02-02 [30] US (62/569,337) 2017-10-06	[51] Int.Cl. C09K 3/14 (2006.01) C08L 5/00 (2006.01) [25] EN [54] THERMALLY STABILIZED FRICTION REDUCTION COMPOSITIONS AND METHODS FOR USE THEREOF [54] COMPOSITIONS DE REDUCTION DE FROTTEMENT STABILISEES THERMIQUEMENT ET LEURS PROCEDES D'UTILISATION [72] MADDURI, ASHOKA V. R., US [72] GARDNER, CHRISTOPHER P., US [72] GANDHI, SANKET, US [71] INTEGRITY BIO-CHEMICALS LLC, US [85] 2019-07-23 [86] 2018-02-06 (PCT/US2018/016998) [87] (WO2018/145065) [30] US (62/455,159) 2017-02-06

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[21] **3,051,480**
[13] A1

[51] **Int.Cl. A61K 31/7105 (2006.01) A61K 31/712 (2006.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) C07H 21/02 (2006.01) C07H 21/04 (2006.01)**

[25] EN

[54] **MULTIMERIC OLIGONUCLEOTIDES HAVING DECREASED KIDNEY CLEARANCE**

[54] **OLIGONUCLEOTIDES MULTIMERES AYANT UNE CLAIRANCE RENALE DIMINUEE**

[72] NEUMAN, KRISTIN K. H., US

[72] BROWN, JONATHAN MILES, US

[72] VORNLOCHER, HANS-PETER, DE

[72] HADWIGER, PHILIPP, DE

[71] MPEG LA, LLC, US

[85] 2019-07-23

[86] 2018-02-06 (PCT/US2018/017062)

[87] (WO2018/145086)

[30] US (62/455,231) 2017-02-06

[30] US (62/522,363) 2017-06-20

[30] US (62/561,853) 2017-09-22

[21] **3,051,481**
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 51/10 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **PHOSPHOLIPID ETHER (PLE) CAR T CELL TUMOR TARGETING (CTCT) AGENTS**

[54] **AGENTS DE CIBLAGE DE TUMEUR A LYMPHOCYTES T CAR (CTCT) D'ETHER DE PHOSPHOLIPIDE (PLE)**

[72] JENSEN, MICHAEL C., US

[72] MATTHAEI, JAMES, US

[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US

[85] 2019-07-23

[86] 2018-02-06 (PCT/US2018/017126)

[87] (WO2018/148224)

[30] US (62/456,027) 2017-02-07

[21] **3,051,482**
[13] A1

[51] **Int.Cl. B65G 49/06 (2006.01) B65G 49/00 (2006.01) C03B 35/00 (2006.01) G01N 21/896 (2006.01) G01N 21/958 (2006.01)**

[25] EN

[54] **SYSTEM AND ASSOCIATED METHOD FOR ONLINE MEASUREMENT OF THE OPTICAL CHARACTERISTICS OF A GLASS SHEET**

[54] **SYSTEME ET PROCEDE ASSOCIE PERMETTANT LA MESURE EN LIGNE DES CARACTERISTIQUES OPTIQUES D'UNE FEUILLE DE VERRE**

[72] VILD, MICHAEL J., US

[72] MORAN, BENJAMIN L., US

[72] ADDINGTON, JASON C., US

[71] GLASSTECH, INC., US

[85] 2019-07-23

[86] 2018-02-08 (PCT/US2018/017388)

[87] (WO2018/148386)

[30] US (15/428,367) 2017-02-09

[21] **3,051,483**
[13] A1

[51] **Int.Cl. G06F 17/18 (2006.01) G06Q 10/04 (2012.01) G06Q 50/06 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATED AND INTELLIGENT QUANTITATIVE RISK ASSESSMENT OF INFRASTRUCTURE SYSTEMS**

[54] **SYSTEME ET PROCEDE D'EVALUATION DE RISQUE QUANTITATIVE AUTOMATISEE ET INTELLIGENTE DE SYSTEMES D'INFRASTRUCTURE**

[72] ACHARYA, SAURAV, US

[72] LEVER, ERNEST, US

[72] MARROS, ROBERT, US

[71] GAS TECHNOLOGY INSTITUTE, US

[85] 2019-07-23

[86] 2018-02-26 (PCT/US2018/019734)

[87] (WO2018/160494)

[30] US (62/464,869) 2017-02-28

[21] **3,051,484**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **BISPECIFIC HER2 AND CD3 BINDING MOLECULES**

[54] **MOLECULES BISPECIFIQUES DE LIAISON A HER2 ET CD3**

[72] CHEUNG, NAI-KONG V., US

[72] LOPEZ-ALBAITERO, ANDRES, US

[72] XU, HONG, US

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[85] 2019-07-24

[86] 2017-01-27 (PCT/US2017/015278)

[87] (WO2018/140026)

[21] **3,051,485**
[13] A1

[51] **Int.Cl. B65G 67/60 (2006.01) B63B 27/12 (2006.01) B65G 65/06 (2006.01)**

[25] EN

[54] **CARGO SCRAPING APPARATUS AND SYSTEMS OF UNLOADING AND LOADING CARGO**

[54] **APPAREIL DE RACLAGE DE CARGAISON, ET SYSTEMES DE DECHARGEMENT ET DE CHARGEMENT DE CARGAISON**

[72] BALLANTYNE, ROSS, AU

[71] BALLANTYNE, ROSS, AU

[85] 2019-07-24

[86] 2017-02-10 (PCT/AU2017/050112)

[87] (WO2017/136893)

[30] AU (2016900492) 2016-02-12

[21] **3,051,486**
[13] A1

[51] **Int.Cl. B29C 49/42 (2006.01) B29C 49/46 (2006.01) B29C 49/58 (2006.01)**

[25] EN

[54] **INVERTED CYLINDER ASSEMBLY FOR FORMING AND FILLING A CONTAINER WITH LIQUID**

[54] **ENSEMBLE CYLINDRE INVERSE POUR FORMER ET REMPLIR UN RECIPIENT AVEC UN LIQUIDE**

[72] LISCH, G. DAVID, US

[72] MAKI, KIRK EDWARD, US

[71] AMCOR RIGID PLASTICS USA, LLC, US

[85] 2019-07-24

[86] 2017-06-20 (PCT/US2017/038331)

[87] (WO2018/144055)

[30] US (62/453,293) 2017-02-01

PCT Applications Entering the National Phase

[21] **3,051,488**
[13] A1

[51] **Int.Cl. C12Q 1/6827 (2018.01) C12Q 1/6886 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01)**

[25] EN

[54] **IMPROVED METHODS FOR ASSESSING RISK OF DEVELOPING BREAST CANCER**

[54] **PROCEDES AMELIORES POUR EVALUER LE RISQUE DE DEVELOPPER UN CANCER DU SEIN**

[72] ALLMAN, RICHARD, AU

[71] GENETIC TECHNOLOGIES LIMITED, AU

[85] 2019-07-24

[86] 2018-01-23 (PCT/AU2018/050041)

[87] (WO2018/136995)

[30] AU (2017900208) 2017-01-24

[21] **3,051,489**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 5/00 (2006.01) A61B 5/1459 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **NEEDLE ASSEMBLY AND SYSTEM FOR COLLECTION AND OPTICAL INTERROGATION OF A BIOLOGICAL SAMPLE**

[54] **ENSEMBLE AIGUILLE ET SYSTEME POUR LA COLLECTE ET L'INTERROGATION OPTIQUE D'UN ECHANTILLON BIOLOGIQUE**

[72] RIVIERE, CHRISTOPHE, CA

[72] PROULX, ANTOINE, CA

[72] WEBER, JESSIE, CA

[71] INSTITUT NATIONAL D'OPTIQUE, CA

[85] 2019-07-24

[86] 2018-01-26 (PCT/CA2018/050094)

[87] (WO2018/137039)

[30] US (62/451,302) 2017-01-27

[21] **3,051,492**
[13] A1

[51] **Int.Cl. F01N 3/20 (2006.01) F01N 11/00 (2006.01)**

[25] EN

[54] **INTERNAL COMBUSTION ENGINE AFTERTREATMENT HEATING LOOP**

[54] **BOUCLE DE CHAUFFAGE DE POST-TRAITEMENT DE MOTEUR A COMBUSTION INTERNE**

[72] COOK, DAVID, US

[71] CLEAN TRAIN PROPULSION, US

[85] 2019-07-24

[86] 2017-11-21 (PCT/US2017/062908)

[87] (WO2018/094420)

[30] US (62/424,914) 2016-11-21

[21] **3,051,493**
[13] A1

[51] **Int.Cl. G01N 33/24 (2006.01) G06Q 50/02 (2012.01) E21B 47/00 (2012.01) E21B 49/00 (2006.01) E21C 39/00 (2006.01) G01V 9/00 (2006.01) G01V 11/00 (2006.01)**

[25] EN

[54] **A METHOD AND SYSTEM FOR VALIDATING LOGGING DATA FOR A MINERAL SAMPLE**

[54] **PROCEDE ET SYSTEME DE VALIDATION DE DONNEES DE DIAGNAPHIE D'UN ECHANTILLON MINERAL**

[72] HOLDEN, EUN-JUNG, AU

[72] WEDGE, DANIEL, AU

[72] PAINE, MARK, AU

[72] GREEN, THOMAS, AU

[72] LEWAN, ANDREW, AU

[71] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU

[71] THE UNIVERSITY OF WESTERN AUSTRALIA, AU

[85] 2019-07-24

[86] 2018-01-24 (PCT/AU2018/050046)

[87] (WO2018/136998)

[30] AU (2017900230) 2017-01-25

[21] **3,051,494**
[13] A1

[51] **Int.Cl. B29C 64/106 (2017.01) B29C 64/245 (2017.01) B29C 64/30 (2017.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PRINTING LONG COMPOSITE THERMOPLASTIC PARTS ON A DUAL GANTRY MACHINE DURING ADDITIVE MANUFACTURING**

[54] **APPAREIL ET PROCEDE D'IMPRESSON DE PIECES THERMOPLASTIQUES COMPOSITES LONGUES SUR UNE MACHINE A PORTIQUE DOUBLE PENDANT UNE FABRICATION ADDITIVE**

[72] SUSNJARA, KENNETH J., US

[72] SMIDDY, BRIAN S., US

[72] FUQUAY, JONATHAN I., US

[71] THERMWOOD CORPORATION, US

[85] 2019-07-24

[86] 2018-01-09 (PCT/US2018/012979)

[87] (WO2018/147957)

[30] US (62/456,070) 2017-02-07

[30] US (15/621,469) 2017-06-13

[21] **3,051,496**
[13] A1

[51] **Int.Cl. A63F 3/06 (2006.01) B41M 3/00 (2006.01) B42D 15/02 (2006.01)**

[25] EN

[54] **ENHANCED SECURITY INSTANT TICKETS VIA HOMOGENEOUS UTILIZATION OF DISPLAY/OVERPRINT/BACKING AND VARIABLE INDICIA INKS OR DYES**

[54] **TICKETS INSTANTANES A SECURITE AMELIOREE PAR UTILISATION HOMOGENE D'AFFICHAGE/SURIMPRESSON/ APPUI ET D'ENCRES OU COLORANTS A INDICES VARIABLES**

[72] IRWIN, KENNETH E., US

[72] FINNERTY, FRED W., US

[71] HYDRA MANAGEMENT LLC, US

[85] 2019-07-24

[86] 2017-01-25 (PCT/US2017/014933)

[87] (WO2017/132256)

[30] US (62/286,713) 2016-01-25

[30] US (15/189,483) 2016-06-22

Demandes PCT entrant en phase nationale

[21] **3,051,497**
[13] A1

[51] **Int.Cl. H01M 2/10 (2006.01) B25F 5/00 (2006.01)**
[25] EN
[54] **BATTERY TERMINAL HOLDER FOR ELECTRIC TOOLS**
[54] **SUPPORT DE BORNE DE BATTERIE POUR OUTILS ELECTRIQUES**
[72] PENG, ZHIGANG, CN
[72] FAN, HUA, CN
[71] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN
[85] 2019-07-24
[86] 2017-01-24 (PCT/CN2017/072421)
[87] (WO2018/137127)

[21] **3,051,498**
[13] A1

[51] **Int.Cl. A61K 41/00 (2006.01) C09B 11/28 (2006.01) C09K 11/06 (2006.01)**
[25] EN
[54] **METHODS FOR PHOTOBIOMODULATION OF BIOLOGICAL PROCESSES USING FLUORESCENCE GENERATED AND EMITTED FROM A BIOPHOTONIC COMPOSITION OR A BIOPHOTONIC SYSTEM**
[54] **PROCEDES DE PHOTOBIOMODULATION DE PROCESSUS BIOLOGIQUES UTILISANT LA FLUORESCENCE GENEREE ET EMISE DEPUIS UNE COMPOSITION BIOPHOTONIQUE OU D'UN SYSTEME BIOPHOTONIQUE**
[72] CANOVA ENGELBRECHT NIELSEN, MICHAEL, DK
[72] PIERGALLINI, REMIGIO, IT
[72] LOUPIS, NIKOLAOS, GR
[72] JAWORSKA, JOANNA, CA
[72] DEVEMY, EMMANUELLE, CA
[72] SCAPAGNINI, GIOVANNI, IT
[71] KLOX TECHNOLOGIES INC., CA
[71] FB DERMATOLOGY LIMITED, IE
[85] 2019-07-24
[86] 2018-01-26 (PCT/CA2018/050099)
[87] (WO2018/137043)
[30] US (62/451,509) 2017-01-27

[21] **3,051,500**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04L 9/32 (2006.01) H04L 12/24 (2006.01) H04L 29/08 (2006.01)**
[25] EN
[54] **CLOUD SECURITY STACK**
[54] **PILE DE SECURITE EN NUAGE**
[72] GERBER, CHRISTOPHER JOHN, US
[72] SMITH, MICHAEL DAVID, US
[72] PAGAN, MARK ALAN, US
[72] CRAWFORD, BENJAMIN IVY, US
[71] WALMART APOLLO, LLC, US
[85] 2019-07-25
[86] 2018-01-26 (PCT/US2018/015495)
[87] (WO2018/140759)
[30] US (62/450,814) 2017-01-26

[21] **3,051,501**
[13] A1

[51] **Int.Cl. G01F 1/704 (2006.01) G01F 1/74 (2006.01) G06G 7/57 (2006.01)**
[25] EN
[54] **MULTI-PHASE FLOW VISUALIZATIONS BASED ON FLUID OCCUPATION TIME**
[54] **VISUALISATIONS D'ECOULEMENTS A PHASES MULTIPLES BASEES SUR UN TEMPS D'OCCUPATION DE FLUIDE**
[72] CROUSE, BERND, US
[72] XU, RUI, US
[71] EXA CORPORATION, US
[85] 2019-07-24
[86] 2018-01-26 (PCT/US2018/015408)
[87] (WO2018/140704)
[30] US (62/450,989) 2017-01-26

[21] **3,051,503**
[13] A1

[51] **Int.Cl. B60P 1/52 (2006.01)**
[25] EN
[54] **AUXILIARY CONVEY MECHANISM FOR GOODS IN A VEHICLE COMPARTMENT**
[54] **MECANISME DE TRANSFERT AUXILIAIRE POUR CARGAISONS DANS UN CHARIOT**
[72] RUAN, BUQIN, CN
[72] XIAO, ZHAOYIN, CN
[71] ZHEJIANG TOPSUN LOGISTIC CONTROL CO. LTD., CN
[85] 2019-07-24
[86] 2017-08-18 (PCT/CN2017/097965)
[87] (WO2018/137338)
[30] CN (201710060321.4) 2017-01-24

[21] **3,051,504**
[13] A1

[51] **Int.Cl. H01H 33/02 (2006.01) H01B 17/36 (2006.01) H02B 3/00 (2006.01)**
[25] EN
[54] **EXTRACTOR OF A BUSHING CONDUCTOR FROM A BUSHING INSULATOR FOR A DEAD TANK CIRCUIT BREAKER**
[54] **EXTRACTEUR DE CONDUCTEUR DE TRAVERSEE D'UN ISOLATEUR DE TRAVERSEE POUR DISJONCTEUR DE RESERVOIR HORS TENSION**
[72] MAIN, JAMES E., US
[71] GENERAL ELECTRIC TECHNOLOGY GMBH, CH
[85] 2019-07-24
[86] 2018-01-30 (PCT/EP2018/052205)
[87] (WO2018/145942)
[30] US (15/427,555) 2017-02-08

[21] **3,051,505**
[13] A1

[51] **Int.Cl. D04H 1/587 (2012.01) B27N 3/00 (2006.01) C08B 15/00 (2006.01) D04H 1/64 (2012.01)**
[25] EN
[54] **IMPROVED BINDER COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS DE LIANT AMELIOREES ET UTILISATIONS DE CELLES-CI**
[72] HAMPSON, CARL, GB
[72] CALLAGHAN, OLIVER, GB
[71] KNAUF INSULATION SPRL, BE
[85] 2019-07-24
[86] 2018-01-30 (PCT/EP2018/052279)
[87] (WO2018/141746)
[30] GB (1701569.4) 2017-01-31

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[21] **3,051,506**
[13] A1

[51] **Int.Cl. H04W 48/08 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND COMMUNICATIONS APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LOU, CHONG, CN
[72] WANG, RUI, CN
[72] DAI, MINGZENG, CN
[72] ZENG, QINGHAI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-07-24
[86] 2018-01-25 (PCT/CN2018/074128)
[87] (WO2018/137684)
[30] CN (201710062740.1) 2017-01-25

[21] **3,051,507**
[13] A1

[51] **Int.Cl. B01D 61/38 (2006.01) B01D 71/06 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **PLASMA SEPARATION DEVICE**
[54] **DISPOSITIF DE SEPARATION DE PLASMA**
[72] MURRAY, TIMOTHY, US
[72] BRAUN, DANIEL, US
[72] WEINBERG, BRIAN, US
[71] VIVEBIO SCIENTIFIC, LLC, US
[85] 2019-07-25
[86] 2018-01-30 (PCT/US2018/015969)
[87] (WO2018/140950)
[30] US (62/451,945) 2017-01-30

[21] **3,051,508**
[13] A1

[51] **Int.Cl. A61K 31/115 (2006.01) A61P 33/02 (2006.01)**
[25] EN
[54] **ANTIBIOTIC-FREE COMPOSITIONS FOR THE PREVENTION OR CONTROL OF COCCIDIOSIS**
[54] **COMPOSITIONS SANS ANTIBIOTIQUES POUR LA PREVENTION OU LE CONTROLE DE LA COCCIDIOSE**
[72] PFANNENSTIEL, MARY ANN, US
[72] ALBRECHT, JENNIFER, US
[71] HUVEPHARMA, INC., US
[85] 2019-07-24
[86] 2018-01-24 (PCT/US2018/015102)
[87] (WO2018/140533)
[30] US (15/414,341) 2017-01-24

[21] **3,051,509**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/70 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **DIAGNOSTIC APPLICATIONS USING NUCLEIC ACID FRAGMENTS**
[54] **APPLICATIONS DIAGNOSTIQUES METTANT EN OEUVRE DES FRAGMENTS D'ACIDE NUCLEIQUE**
[72] LO, YUK-MING DENNIS, CN
[72] CHIU, ROSSA WAI KWUN, CN
[72] CHAN, KWAN CHEE, CN
[72] JIANG, PEIYONG, CN
[72] LAM, WAI KEI, CN
[71] THE CHINESE UNIVERSITY OF HONG KONG, CN
[71] GRAIL, INC., US
[85] 2019-07-24
[86] 2018-01-25 (PCT/CN2018/074138)
[87] (WO2018/137685)
[30] US (62/450,541) 2017-01-25
[30] US (62/507,154) 2017-05-16
[30] US (PCT/US2017/058099) 2017-10-24

[21] **3,051,510**
[13] A1

[51] **Int.Cl. F16K 27/00 (2006.01)**
[25] EN
[54] **METHOD FOR CONNECTING AT LEAST TWO FLUID VALVES AND THE SYSTEM FOR FLUID COMMUNICATION IMPLEMENTED**
[54] **PROCEDE DE RACCORDEMENT D'AU MOINS DEUX VANNES A FLUIDE ET SYSTEME DE COMMUNICATION FLUIDIQUE MIS EN OEUVRE**
[72] VILLERET, GUILLAUME, FR
[72] TADINO, VINCENT LUC ANTOINE, BE
[72] LORENT, MARC, FR
[72] ORLEANS, ADRIEN, BE
[71] OUT AND OUT CHEMISTRY SPRL, BE
[85] 2019-07-24
[86] 2018-01-31 (PCT/EP2018/052342)
[87] (WO2018/141767)
[30] BE (2017/5057) 2017-01-31

[21] **3,051,512**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **CD47 ANTIGEN BINDING UNIT AND USES THEREOF**
[54] **UNITE DE LIAISON A L'ANTIGENE CD47 ET SES UTILISATIONS**
[72] QIU, YANGSHENG, CN
[72] LI, JING, CN
[72] GAO, HONGHAI, CN
[72] WU, FENGLAN, CN
[72] FANG, XU, CN
[72] LI, SHOU, CN
[72] LU, HONGTAO, CN
[72] YAN, JAMES S., CN
[72] SHI, LEI, CN
[71] ZLIP HOLDING LIMITED, KY
[85] 2019-07-24
[86] 2018-01-26 (PCT/CN2018/074318)
[87] (WO2018/137705)
[30] CN (PCT/CN2017/072738) 2017-01-26

[21] **3,051,513**
[13] A1

[51] **Int.Cl. C10G 2/00 (2006.01) B01J 37/18 (2006.01)**
[25] EN
[54] **START-UP PROCEDURE FOR A FISCHER-TROPSCH PROCESS**
[54] **PROCEDURE DE DEMARRAGE POUR UN PROCEDURE DE FISCHER-TROPSCH**
[72] FERGUSON, EWEN JAMES, GB
[72] OJEDA PINEDA, MANUEL, GB
[72] PATERSON, ALEXANDER JAMES, GB
[71] BP P.L.C., GB
[85] 2019-07-24
[86] 2018-02-09 (PCT/EP2018/053349)
[87] (WO2018/146276)
[30] GB (1702248.4) 2017-02-10

Demandes PCT entrant en phase nationale

[21] **3,051,514**
[13] A1

[51] **Int.Cl. A23N 5/00 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR TREATING SHELL-FRUITS, IN PARTICULAR FOR PRODUCING SHELL-FRUITS WITH IMPROVED SHELLING PROPERTIES**
[54] **PROCEDE ET DISPOSITIF POUR TRAITER DES FRUITS A COQUE, EN PARTICULIER POUR PRODUIRE DES FRUITS A COQUE AYANT DES PROPRIETES DE DECORTICAGE AMELIOREES**
[72] ROEDER, ISABELL, DE
[72] VOLKEL, VANESSA, DE
[72] TOPFL, STEFAN, DE
[71] ELEA VERTRIEBS- UND VERMARKTUNGSGESELLSCHAFT MBH, DE
[85] 2019-07-24
[86] 2018-02-05 (PCT/EP2018/052739)
[87] (WO2018/149675)
[30] DE (10 2017 202 684.7) 2017-02-20

[21] **3,051,515**
[13] A1

[51] **Int.Cl. C23C 2/12 (2006.01) C23C 2/28 (2006.01) C23C 2/40 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A STEEL STRIP WITH AN ALUMINIUM ALLOY COATING LAYER**
[54] **PROCEDE DE FABRICATION D'UNE BANDE D'ACIER COMPRENANT UNE COUCHE DE REVETEMENT EN ALLIAGE D'ALUMINIUM**
[72] HENSEN, GUIDO CORNELIS, NL
[72] VAN SCHOONEVELT, HUGO (DECEASED), NL
[71] TATA STEEL IJMUIDEN B.V., NL
[85] 2019-07-24
[86] 2018-02-23 (PCT/EP2018/054599)
[87] (WO2018/158165)
[30] EP (17158418.8) 2017-02-28
[30] EP (17158419.6) 2017-02-28

[21] **3,051,516**
[13] A1

[51] **Int.Cl. B25J 19/00 (2006.01)**
[25] EN
[54] **AN INDUSTRIAL ROBOT AND A DEVICE FOR TRANSFERRING MEDIA FROM THE ROBOT TO A TOOL**
[54] **ROBOT INDUSTRIEL ET DISPOSITIF PERMETTANT DE TRANSFERER DES SUPPORTS DU ROBOT A UN OUTIL**
[72] JOHANNESON, MORGAN, SE
[71] ROBOTAUTOMATION SVENSKA AB, SE
[85] 2019-07-24
[86] 2018-02-06 (PCT/EP2018/052888)
[87] (WO2018/162163)
[30] SE (1750250-1) 2017-03-06

[21] **3,051,517**
[13] A1

[51] **Int.Cl. H05G 1/02 (2006.01)**
[25] EN
[54] **COOLING DEVICE FOR X-RAY GENERATORS**
[54] **DISPOSITIF DE REFROIDISSEMENT POUR GENERATEURS DE RAYONS X**
[72] HEUFT, BERNHARD, DE
[72] POLSTER, WOLFGANG, DE
[71] HEUFT SYSTEMTECHNIK GMBH, DE
[85] 2019-07-24
[86] 2018-03-06 (PCT/EP2018/055393)
[87] (WO2018/162437)
[30] DE (10 2017 002 210.0) 2017-03-08

[21] **3,051,518**
[13] A1

[51] **Int.Cl. C07K 14/62 (2006.01) A61K 39/00 (2006.01) C12N 9/02 (2006.01)**
[25] EN
[54] **PEPTIDES AND METHODS FOR THE TREATMENT OF DIABETES**
[54] **PEPTIDES ET METHODES DE TRAITEMENT DU DIABETE**
[72] VANDER ELST, LUC, BE
[72] CARLIER, VINCENT, BE
[72] SAINT-REMY, JEAN-MARIE, BE
[71] IMCYSE SA, BE
[85] 2019-07-24
[86] 2018-03-06 (PCT/EP2018/055501)
[87] (WO2018/162498)
[30] EP (17160085.1) 2017-03-09

[21] **3,051,519**
[13] A1

[51] **Int.Cl. A61K 31/351 (2006.01) A61K 9/00 (2006.01) A61K 33/34 (2006.01) A61P 31/04 (2006.01) A61P 31/06 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOSITIONS COMPRISING COPPER-HYDROXYPYRONE COMPLEXES**
[54] **COMPOSITIONS ANTIMICROBIENNES COMPRENANT DES COMPLEXES CUIVRE-HYDROXYPYRONE**
[72] POWELL, JONATHAN JOSEPH, GB
[72] FARIA, NUNO JORGE RODRIGUES, GB
[72] BASTOS, CARLOS ANDRE PASSOS, GB
[71] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[85] 2019-07-24
[86] 2018-02-06 (PCT/EP2018/052958)
[87] (WO2018/141989)
[30] GB (1701944.9) 2017-02-06

[21] **3,051,520**
[13] A1

[51] **Int.Cl. A61B 50/30 (2016.01) A61B 50/33 (2016.01) A61B 50/00 (2016.01) A61B 90/00 (2016.01) A61B 17/16 (2006.01) A61B 17/86 (2006.01)**
[25] EN
[54] **SINGLE-USE DISPOSABLE STERILE KIT**
[54] **KIT STERILE JETABLE A USAGE UNIQUE**
[72] HEALEY, RICHARD, US
[72] WATT, PHILIP, US
[72] GRECO, STEVEN, US
[72] MOSZAK, DAVID, US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2019-07-24
[86] 2018-01-17 (PCT/US2018/013954)
[87] (WO2018/140266)
[30] US (15/415,624) 2017-01-25

PCT Applications Entering the National Phase

[21] **3,051,522**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/07 (2006.01) A61B 5/00 (2006.01) G02B 6/38 (2006.01) H01B 11/18 (2006.01) H01B 11/22 (2006.01) A61B 18/00 (2006.01) A61B 18/18 (2006.01)**

[25] EN

[54] **ELECTROSURGICAL ENERGY CONVEYING STRUCTURE AND ELECTROSURGICAL DEVICE INCORPORATING THE SAME STRUCTURE DE TRANSPORT D'ENERGIE ELECTROCHIRURGICALE ET DISPOSITIF ELECTROCHIRURGICAL L'INCORPORANT**

[72] HANCOCK, CHRISTOPHER PAUL, GB

[72] PRESTON, SHAUN, GB

[72] TAPLIN, WILLIAM, GB

[72] JAMES, SAM, GB

[72] ULLRICH, GEORGE, GB

[72] WEBB, DAVID, GB

[71] CREO MEDICAL LIMITED, GB

[85] 2019-07-24

[86] 2018-03-29 (PCT/EP2018/058112)

[87] (WO2018/178252)

[30] GB (1705167.3) 2017-03-30

[21] **3,051,523**
[13] A1

[51] **Int.Cl. F04B 53/10 (2006.01)**

[25] EN

[54] **FLUID END WITH REMOVABLE DUAL-VALVE CARTRIDGE**

[54] **EXTREMITE DE FLUIDE AVEC CARTOUCHE A DOUBLE VALVE AMOVIBLE**

[72] HAAS, IAN, US

[72] KLEYPAS, PAUL, US

[72] JOHNSON, DANIEL B., US

[71] TSC MANUFACTURING AND SUPPLY, LLC, US

[85] 2019-07-25

[86] 2018-01-30 (PCT/US2018/015833)

[87] (WO2018/144416)

[30] US (62/454,411) 2017-02-03

[21] **3,051,524**
[13] A1

[51] **Int.Cl. C09K 8/584 (2006.01) C09K 8/594 (2006.01)**

[25] EN

[54] **SURFACTANT FOR ENHANCED OIL RECOVERY**

[54] **TENSIOACTIF DE RECUPERATION AMELIOREE DE PETROLE**

[72] CUI, LEYU, FR

[72] BOURREL, MAURICE, FR

[72] DUBOS, FABIENNE, FR

[72] KLIMENKO, ALEXANDRA, FR

[71] TOTAL SA, FR

[85] 2019-07-24

[86] 2018-02-06 (PCT/EP2018/052977)

[87] (WO2018/146107)

[30] IB (PCT/IB2017/000232) 2017-02-07

[21] **3,051,526**
[13] A1

[51] **Int.Cl. E21B 7/14 (2006.01) E21B 29/02 (2006.01)**

[25] EN

[54] **MATERIAL REMOVAL METHODS AND ASSOCIATED APPARATUS**

[54] **APPAREIL THERMIQUE ET PROCEDES ASSOCIES**

[72] CARDNO, BRUCE, GB

[72] RAY, PAUL, GB

[71] CLEARWELL TECHNOLOGY LTD, GB

[85] 2019-07-24

[86] 2018-01-18 (PCT/GB2018/050151)

[87] (WO2018/138479)

[30] GB (1701224.6) 2017-01-25

[30] GB (1712344.9) 2017-08-01

[21] **3,051,527**
[13] A1

[51] **Int.Cl. G01N 21/958 (2006.01) B60R 25/30 (2013.01) B60R 25/34 (2013.01) B60S 1/08 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DAMAGE DETECTION**

[54] **SYSTEMES ET PROCEDES DE DETECTION DE DOMMAGES**

[72] FRANCIS, KELLY, GB

[72] DAVIES, CHRISTOPHER, GB

[71] BELRON INTERNATIONAL LIMITED, GB

[85] 2019-07-24

[86] 2018-01-31 (PCT/GB2018/050271)

[87] (WO2018/142120)

[30] GB (1701924.1) 2017-02-06

[21] **3,051,530**
[13] A1

[51] **Int.Cl. H02S 40/36 (2014.01) H02S 40/32 (2014.01)**

[25] EN

[54] **SOLAR MODULES HAVING SOLAR SUB CELLS WITH MATRIX CONNECTIONS BETWEEN THE SOLAR SUB CELLS**

[54] **MODULES SOLAIRES COMPORTANT DES SOUS-CELLULES SOLAIRES AVEC CONNEXIONS MATRICIELLES ENTRE LES SOUS-CELLULES SOLAIRES**

[72] VATELMACHER, BORIS, IL

[72] PAZ, GABI, IL

[71] SOLARWAT LTD., IL

[85] 2019-07-24

[86] 2018-01-31 (PCT/IL2018/050108)

[87] (WO2018/142398)

[30] US (62/452,389) 2017-01-31

[30] US (62/584,933) 2017-11-13

[21] **3,051,531**
[13] A1

[51] **Int.Cl. A45D 29/11 (2006.01) A45D 29/18 (2006.01) A45D 34/04 (2006.01) A46B 5/00 (2006.01) A46B 7/00 (2006.01)**

[25] EN

[54] **A NAIL POLISH KIT FOR USE BY AN AUTOMATED NAIL POLISH APPLICATION APPARATUS**

[54] **NECESSAIRE DE VERNIS A ONGLES DEVANT ETRE UTILISE PAR UN APPAREIL D'APPLICATION DE VERNIS A ONGLES AUTOMATISE**

[72] MOR YOSEF, AVICHAY, IL

[72] MILLER, RON, IL

[72] MORAN, OMRI, US

[72] SOKOL, GIL, IL

[71] NAILOMATIC LTD., IL

[85] 2019-07-24

[86] 2018-01-31 (PCT/IL2018/050110)

[87] (WO2018/142400)

[30] US (62/452,461) 2017-01-31

[30] US (62/533,720) 2017-07-18

[30] US (62/574,241) 2017-10-19

Demandes PCT entrant en phase nationale

[21] **3,051,532**
[13] A1

[51] **Int.Cl. B67D 1/08 (2006.01) B67D 1/12 (2006.01) F16K 17/16 (2006.01)**

[25] EN

[54] **KEG CLOSURE WITH INTEGRATED VENTING SYSTEM**

[54] **FERMETURE DE TONNELET DOTE D'UN SYSTEME D'AERATION INTEGRE**

[72] CORSTANJE, ERIN, GB

[72] ZANCAN, BENEDETTA, GB

[71] PETAINER LARGE CONTAINER IP LIMITED, GB

[85] 2019-07-24

[86] 2018-02-02 (PCT/GB2018/050302)

[87] (WO2018/142147)

[30] GB (1701851.6) 2017-02-03

[21] **3,051,533**
[13] A1

[51] **Int.Cl. B67D 1/08 (2006.01) B67D 1/12 (2006.01) F16K 17/16 (2006.01)**

[25] EN

[54] **KEG CLOSURE WITH ATTACHED VENTING SYSTEM**

[54] **FERMETURE DE FUT AVEC SYSTEME D'AERATION ATTACHE**

[72] CORSTANJE, ERIN, GB

[72] ZANCAN, BENEDETTA, GB

[71] PETAINER LARGE CONTAINER IP LIMITED, GB

[85] 2019-07-24

[86] 2018-02-02 (PCT/GB2018/050303)

[87] (WO2018/142148)

[30] GB (1701851.6) 2017-02-03

[21] **3,051,534**
[13] A1

[51] **Int.Cl. A24F 47/00 (2006.01)**

[25] EN

[54] **AN AEROSOL DELIVERY DEVICE INCLUDING A SHAPE-MEMORY ALLOY AND A RELATED METHOD**

[54] **DISPOSITIF DE DISTRIBUTION D'AEROSOL COMPRENANT UN ALLIAGE A MEMOIRE DE FORME ET PROCEDE ASSOCIE**

[72] SEBASTIAN, ANDRIES DON, US

[72] DAVIS, MICHAEL F., US

[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2019-07-24

[86] 2018-01-23 (PCT/IB2018/050410)

[87] (WO2018/138637)

[30] US (15/415,267) 2017-01-25

[21] **3,051,535**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 18/22 (2006.01) A61F 9/007 (2006.01) G02B 6/14 (2006.01) G02B 26/00 (2006.01)**

[25] EN

[54] **FIBER-BASED MODE MIXING TECHNIQUES FOR SURGICAL LASER ILLUMINATION**

[54] **TECHNIQUES DE MELANGE DE MODES AVEC DES FIBRES POUR L'ILLUMINATION PAR LASER CHIRURGICAL**

[72] DOS SANTOS, CESARIO, US

[72] BACHER, GERALD DAVID, US

[72] SMITH, RONALD, US

[72] MIRSEPASSI, ALIREZA, US

[72] PAPAC, MICHAEL, US

[71] NOVARTIS AG, CH

[85] 2019-07-24

[86] 2018-01-29 (PCT/IB2018/050529)

[87] (WO2018/142262)

[30] US (62/453,744) 2017-02-02

[21] **3,051,536**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) G02B 27/09 (2006.01)**

[25] EN

[54] **FOCUSING OPTICS FOR MIXED MODE SURGICAL LASER ILLUMINATION**

[54] **OPTIQUE DE FOCALISATION POUR ECLAIRAGE LASER CHIRURGICAL EN MODE MIXTE**

[72] DOS SANTOS, CESARIO, US

[72] BACHER, GERALD DAVID, US

[72] SMITH, RONALD, US

[72] MIRSEPASSI, ALIREZA, US

[72] PAPAC, MICHAEL, US

[71] NOVARTIS AG, CH

[85] 2019-07-24

[86] 2018-01-29 (PCT/IB2018/050535)

[87] (WO2018/142267)

[30] US (62/453,769) 2017-02-02

[21] **3,051,537**
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/427 (2006.01) A61K 31/44 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **HETEROARYLSULFONYL-SUBSTITUTED PYRIDINES AND THEIR USE IN THE TREATMENT OF CANCER**

[54] **PYRIDINES A SUBSTITUTION HETEROARYLSULFONYLE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] PELCMAN, BENJAMIN, SE

[72] SUNA, EDGARS, LV

[72] STAFFORD, WILLIAM, SE

[72] PRIEDE, MARTINS, LV

[71] OBLIQUE THERAPEUTICS AB, SE

[85] 2019-07-24

[86] 2018-02-07 (PCT/GB2018/050343)

[87] (WO2018/146469)

[30] US (62/455,639) 2017-02-07

[30] US (62/594,799) 2017-12-05

[21] **3,051,538**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/44 (2006.01) A61P 35/00 (2006.01) C07D 407/12 (2006.01)**

[25] EN

[54] **HETEROCYCLYLSULFONYL-SUBSTITUTED PYRIDINES AND THEIR USE IN THE TREATMENT OF CANCER**

[54] **PYRIDINES A SUBSTITUTION HETEROCYCLYLSULFONYLE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] PELCMAN, BENJAMIN, SE

[72] STAFFORD, WILLIAM, SE

[71] OBLIQUE THERAPEUTICS AB, SE

[85] 2019-07-24

[86] 2018-02-07 (PCT/GB2018/050345)

[87] (WO2018/146471)

[30] US (62/455,644) 2017-02-07

[30] US (62/594,784) 2017-12-05

PCT Applications Entering the National Phase

[21] **3,051,539**
[13] A1

[51] **Int.Cl. C07D 213/71 (2006.01) A61K 31/44 (2006.01) C07D 401/12 (2006.01) C07D 405/12 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **HYDROCARBYLSULFONYL-SUBSTITUTED PYRIDINES AND THEIR USE IN THE TREATMENT OF CANCER**

[54] **PYRIDINES A SUBSTITUTION HYDROCARBYLSULFONYLE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] PELCMAN, BENJAMIN, SE

[72] SUNA, EDGARS, LV

[72] STAFFORD, WILLIAM, SE

[72] PRIEDE, MARTINS, LV

[71] OBLIQUE THERAPEUTICS AB, SE

[85] 2019-07-24

[86] 2018-02-07 (PCT/GB2018/050346)

[87] (WO2018/146472)

[30] US (62/455,641) 2017-02-07

[30] US (62/594,794) 2017-12-05

[21] **3,051,540**
[13] A1

[51] **Int.Cl. H04N 21/442 (2011.01) H04N 21/438 (2011.01) H04N 21/61 (2011.01)**

[25] EN

[54] **PREDICTIVE TUNING SYSTEM**

[54] **SYSTEME DE SYNTONISATION PREDICTIVE**

[72] FERNANDES FEITICEIRO SOARES DELICADO, NELSON, PT

[72] MARQUES VITAL, CATARINA ALEXANDRA, PT

[72] GARBACZ, BARBARA MARIA, PT

[72] SANTOS RODRIGUES, SONIA SOFIA, PT

[72] MAGALHAES SARAIVA, MARIO, PT

[72] RAMALHO DOS SANTOS ROSADO, ANDRE, PT

[72] DOS REIS FERNANDES GAMA, ANA RAQUEL, PT

[72] DE SOUSA ROSA DA CRUZ FERNANDES, BRUNO, PT

[71] NOS INOVACAO, S.A., PT

[85] 2019-07-24

[86] 2017-02-24 (PCT/IB2017/051075)

[87] (WO2017/145109)

[30] PT (109185) 2016-02-24

[21] **3,051,544**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01)**

[25] EN

[54] **METHODS FOR ASSESSING RISK OF DEVELOPING A VIRAL DISEASE USING A GENETIC TEST**

[54] **PROCEDES D'EVALUATION DU RISQUE DE DEVELOPPER UNE MALADIE VIRALE A L'AIDE D'UN TEST GENETIQUE**

[72] HATCHWELL, ELI, GB

[72] EIS, PEGGY S., US

[72] SMITH, EDWARD B., III, US

[72] TAOUFIK, YASSINE, FR

[71] POPULATION BIO, INC., US

[71] UNIVERSITE PARIS-SUD, FR

[71] ASSISTANCE PUBLIQUE HOPITAUX DE PARIS, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[85] 2019-07-24

[86] 2018-02-02 (PCT/IB2018/000181)

[87] (WO2018/158632)

[30] US (62/454 676) 2017-02-03

[30] US (62/524 324) 2017-06-23

[30] US (15/639 591) 2017-06-30

[21] **3,051,545**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 9/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF GALLIUM (III) COMPLEXES FOR ORAL ADMINISTRATION**

[54] **COMPOSITIONS DE COMPLEXES DE GALLIUM (III) POUR ADMINISTRATION PAR VOIE ORALE**

[72] RHINEBARGER, RICKEY ROY, CA

[72] STETSKO, GINA G., CA

[71] ALTUM PHARMACEUTICALS INC., CA

[85] 2019-07-24

[86] 2018-02-09 (PCT/IB2018/000213)

[87] (WO2018/146551)

[30] US (62/457,712) 2017-02-10

[21] **3,051,547**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01)**

[25] EN

[54] **PIXELATED ARRAY OPTICS FOR MIXED MODE SURGICAL LASER ILLUMINATION**

[54] **ELEMENTS OPTIQUES EN RESEAU PIXELISE POUR ECLAIRAGE LASER CHIRURGICAL EN MODE MIXTE**

[72] DOS SANTOS, CESARIO, US

[72] BACHER, GERALD DAVID, US

[72] SMITH, RONALD, US

[72] MIRSEPASSI, ALIREZA, US

[72] PAPAC, MICHAEL, US

[71] NOVARTIS AG, CH

[85] 2019-07-24

[86] 2018-01-29 (PCT/IB2018/050539)

[87] (WO2018/142269)

[30] US (62/453,728) 2017-02-02

[21] **3,051,550**
[13] A1

[51] **Int.Cl. B64F 1/02 (2006.01) E01C 9/00 (2006.01)**

[25] EN

[54] **ENGINEERED MATERIAL ARRESTING SYSTEM AND METHODS FOR FORMING SAME**

[54] **SYSTEME D'ARRET A MATERIAU MODIFIE ET SES PROCEDES DE FORMATION**

[72] BARSOTTI, MATTHEW, US

[72] JONES, CLIFF, US

[72] HADJIOANNOU, MICHALIS, US

[72] PURYEAR, JOHN, US

[71] RUN WAY SAFE IPR AB, SE

[85] 2019-07-24

[86] 2018-03-05 (PCT/IB2018/051411)

[87] (WO2018/158756)

[30] US (62/466,922) 2017-03-03

Demandes PCT entrant en phase nationale

[21] **3,051,551**
[13] A1

[51] **Int.Cl. B64F 1/02 (2006.01) E01C 9/00 (2006.01)**

[25] EN

[54] **ENGINEERED MATERIAL ARRESTING SYSTEM AND METHODS FOR FORMING SAME**

[54] **SYSTEME D'IMMOBILISATION EN MATERIAU TRANSFORME ET PROCEDES POUR LE FORMER**

[72] BARSOTTI, MATTHEW, US
[72] JONES, CLIFF, US
[72] HADJIOANNOU, MICHALIS, US
[72] PURYEAR, JOHN, US
[71] RUN WAY SAFE IPR AB, SE
[85] 2019-07-24
[86] 2018-03-05 (PCT/IB2018/051412)
[87] (WO2018/158757)
[30] US (62/466,922) 2017-03-03

[21] **3,051,553**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **THERAPEUTIC TOPICAL COMPOSITIONS OF APREMILAST**

[54] **COMPOSITIONS THERAPEUTIQUES TOPIQUES D'APREMILAST**

[72] SREEDHARALA, VENKATA NOOKARAJU, IN
[71] SARUDBHAVA FORMULATIONS PRIVATE LIMITED, IN
[85] 2019-07-24
[86] 2018-01-24 (PCT/IN2018/050038)
[87] (WO2018/138737)
[30] IN (201741003041) 2017-01-27

[21] **3,051,557**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 40/08 (2012.01) G06Q 50/16 (2012.01) G09B 19/00 (2006.01)**

[25] EN

[54] **A DIGITAL CHECKLIST SYSTEM USING MOBILE TECHNOLOGY, ARTIFICIAL INTELLIGENCE, AND INFRARED TECHNOLOGY**

[54] **SYSTEME DE LISTE DE CONTROLE NUMERIQUE UTILISANT UNE TECHNOLOGIE MOBILE, UNE INTELLIGENCE ARTIFICIELLE ET UNE TECHNOLOGIE INFRAROUGE**

[72] JONES, JOE DALE, US
[72] LEEKEY, GERALD HENRY, US
[72] CROSBY, CHRISTOPHER J., JR., US
[72] OJHA, DAYA SHANKAR, IN
[71] ICARUS OPS LLC., US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/016012)
[87] (WO2018/144479)
[30] US (15/424,559) 2017-02-03

[21] **3,051,558**
[13] A1

[51] **Int.Cl. G06F 16/903 (2019.01) G10L 17/22 (2013.01) G06F 16/9032 (2019.01) G06F 16/93 (2019.01) G10L 15/22 (2006.01) G10L 15/26 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SPEECH-BASED INTERACTION RESOLUTION**

[54] **SYSTEME ET PROCEDE DE RESOLUTION D'INTERACTION BASEE SUR LA PAROLE**

[72] SAINI, RANJEET, US
[72] ROY, PARTHA PRATIM, US
[71] GREENEDEN U.S. HOLDINGS II, LLC, US
[85] 2019-07-23
[86] 2018-01-30 (PCT/US2018/015972)
[87] (WO2018/144465)
[30] US (62/452,556) 2017-01-31

[21] **3,051,576**
[13] A1

[51] **Int.Cl. A63H 33/00 (2006.01) A63J 25/00 (2009.01) A63J 5/02 (2006.01) F41H 9/06 (2006.01)**

[25] EN

[54] **APPARATUS FOR GENERATING THREE-DIMENSIONAL VISUAL EFFECTS, AND SMOKE-GENERATING DEVICE FOR SUCH AN APPARATUS**

[54] **APPAREIL GENERATEUR D'EFFETS VISUELS TRIDIMENSIONNELS, ET DISPOSITIF GENERATEUR DE FUMEE POUR UN TEL APPAREIL**

[72] NGUYEN, LUC, US
[72] CHAU, MICHEL, FR
[72] WU, JUI-HUNG, TW
[71] NGUYEN, LUC, US
[71] CHAU, MICHEL, FR
[71] WU, JUI-HUNG, TW
[85] 2019-07-08
[86] 2017-12-05 (PCT/IB2017/057654)
[87] (WO2018/104863)
[30] FR (16/01734) 2016-12-06
[30] FR (17/70433) 2017-04-28

[21] **3,051,577**
[13] A1

[51] **Int.Cl. A61M 5/158 (2006.01) A61M 5/178 (2006.01) A61M 5/32 (2006.01) A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 39/24 (2006.01)**

[25] EN

[54] **CATHETER ASSEMBLY**

[54] **ENSEMBLE CATHETER**

[72] STALEY, SHAUN, US
[72] HARDING, WESTON, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2019-07-25
[86] 2017-02-24 (PCT/US2017/019430)
[87] (WO2018/156148)

PCT Applications Entering the National Phase

[21] **3,051,578**
[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/04 (2006.01) C11D 3/22 (2006.01) C11D 3/37 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **BENEFIT AGENT CONTAINING DELIVERY PARTICLE SLURRIES**

[54] **SUSPENSIONS DE PARTICULES DE DISTRIBUTION CONTENANT UN AGENT BENEFIQUE**

[72] LEBRON, ARIEL, US

[72] VANSTEENWINCKEL, PASCALE, US

[72] KENNEALLY, COREY, US

[72] SMETS, JOHAN, US

[72] BOBNOCK, ROBERT, US

[72] SANDS, PEGGY, US

[72] SCHWANTES, TODD, US

[72] HLADILEK, CHAD ALEXANDER, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-07-25

[86] 2017-03-16 (PCT/US2017/022613)

[87] (WO2018/169531)

[21] **3,051,579**
[13] A1

[51] **Int.Cl. H02G 15/02 (2006.01) H01B 9/00 (2006.01) H02G 15/08 (2006.01)**

[25] EN

[54] **CABLE ASSEMBLY FOR CONFIGURING POWER AND CONTROL LINES**

[54] **ENSEMBLE CABLE PERMETTANT DE CONFIGURER DES LIGNES ELECTRIQUES ET DES LIGNES DE COMMANDE**

[72] TODD, DAVID NORMAN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2019-07-25

[86] 2017-04-18 (PCT/US2017/028037)

[87] (WO2018/194556)

[21] **3,051,580**
[13] A1

[51] **Int.Cl. G06F 12/16 (2006.01)**

[25] EN

[54] **IDENTIFICATION OF PORTIONS OF DATA**

[54] **IDENTIFICATION DE PARTIES DE DONNEES**

[72] GARCIA-FERNANDEZ, JOSE OMAR, US

[72] WILTSE, WILLIAM SCOTT, US

[71] CHILD RESCUE COALITION, INC., US

[71] GARCIA-FERNANDEZ, JOSE OMAR, US

[71] WILTSE, WILLIAM SCOTT, US

[85] 2019-07-25

[86] 2017-08-01 (PCT/US2017/044877)

[87] (WO2018/026802)

[30] US (62/369,833) 2016-08-02

[21] **3,051,581**
[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01)**

[25] EN

[54] **TRASH PRESS DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE COMPACTEUR DE DECHETS**

[72] ESOMEJU, ANGELA, US

[72] ESOMEJU, ONYEDIKA, US

[71] ESOMEJU, ANGELA, US

[71] ESOMEJU, ONYEDIKA, US

[85] 2019-07-25

[86] 2017-11-20 (PCT/US2017/062639)

[87] (WO2018/094361)

[30] US (62/425,030) 2016-11-21

[30] US (15/643,057) 2017-09-17

[21] **3,051,582**
[13] A1

[51] **Int.Cl. E04C 1/00 (2006.01) E04C 2/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DOUBLE FACED WALL**

[54] **PROCEDE ET APPAREIL POUR PAROI A DOUBLE FACE**

[72] RAVELLI, JOHN E., US

[72] LONG, ERIC Y., US

[72] POIGNARD, JOHN M., US

[71] E.P. HENRY CORPORATION, US

[85] 2019-07-25

[86] 2018-01-03 (PCT/US2018/012222)

[87] (WO2018/140197)

[30] US (62/450,294) 2017-01-25

[21] **3,051,583**
[13] A1

[51] **Int.Cl. C12N 15/00 (2006.01) C12N 15/09 (2006.01) C12N 15/87 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **METHODS FOR BUILDING GENOMIC NETWORKS AND USES THEREOF**

[54] **PROCEDES DE CONSTRUCTION DE RESEAUX GENOMIQUES ET LEURS UTILISATIONS**

[72] KHURANA, VIKRRAM, US

[72] CHUNG, CHEE YEUN, US

[72] LINDQUIST, SUSAN, US

[72] PENG, JIAN, US

[72] FRAENKEL, ERNEST, US

[72] BERGER, BONNIE A., US

[71] WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH, US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[85] 2019-07-25

[86] 2018-01-25 (PCT/US2018/015331)

[87] (WO2018/140657)

[30] US (62/450,540) 2017-01-25

[21] **3,051,584**
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 17/221 (2006.01) A61F 2/01 (2006.01)**

[25] EN

[54] **CLOT RETRIEVAL SYSTEM**

[54] **SYSTEME D'EXTRACTION DE CAILLOT**

[72] ULM, ARTHUR JOHN, III, US

[71] LEGACY VENTURES LLC, US

[85] 2019-07-25

[86] 2018-01-26 (PCT/US2018/015406)

[87] (WO2018/140702)

[30] US (15/417,505) 2017-01-27

[30] US (15/449,901) 2017-03-03

[30] US (15/610,209) 2017-05-31

[30] US (15/611,762) 2017-06-01

[30] US (15/629,703) 2017-06-21

[30] US (15/710,648) 2017-09-20

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[21] **3,051,585**
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)**

[25] EN
[54] **NOVEL PLANT CELLS, PLANTS, AND SEEDS**
[54] **NOUVELLES CELLULES VEGETALES, PLANTES ET SEMENCES**

[72] NIU, YAJIE, US
[72] SHULTZ, RANDALL WILLIAM, US
[72] UNSON, MARIA MARGARITA D., US

[72] KOCK, MICHAEL ANDREAS, US
[72] CASEY, JOHN P., JR., US
[71] INARI AGRICULTURE, INC., US
[85] 2019-07-25
[86] 2018-01-29 (PCT/US2018/015793)
[87] (WO2018/140899)
[30] US (62/451,708) 2017-01-28
[30] US (62/451,710) 2017-01-28
[30] US (62/452,610) 2017-01-31
[30] US (62/477,244) 2017-03-27
[30] US (62/480,989) 2017-04-03
[30] US (62/510,645) 2017-05-24
[30] US (62/523,675) 2017-06-22
[30] US (62/530,495) 2017-07-10
[30] US (62/530,839) 2017-07-10
[30] US (62/531,305) 2017-07-11

[21] **3,051,586**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/424 (2006.01) A61P 25/00 (2006.01)**

[25] EN
[54] **USE OF GABOXADOL IN THE TREATMENT OF TINNITUS**
[54] **UTILISATION DE GABOXADOL DANS LE TRAITEMENT DES ACOUPHENES**

[72] DURING, MATTHEW, US
[71] OVID THERAPEUTICS INC., US
[85] 2019-07-25
[86] 2018-02-02 (PCT/US2018/016602)
[87] (WO2018/144827)
[30] US (62/454,280) 2017-02-03
[30] US (62/530,528) 2017-07-10
[30] US (62/536,669) 2017-07-25

[21] **3,051,587**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 47/64 (2017.01) A61K 31/167 (2006.01) A61K 31/275 (2006.01) A61K 31/7088 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS FOR INHIBITING RETICULON 4**
[54] **COMPOSITIONS ET METHODES PERMETTANT D'INHIBER L'INHIBITEUR RETICULON 4**

[72] NOMURA, DANIEL K., US
[72] OLZMANN, JAMES A., US
[72] BATEMAN, LESLIE A., US
[72] NGUYEN, TRUC B., US
[72] MIYAMOTO, DAVID K., US
[72] HUFFMAN, TUCKER R., US
[72] ROBERTS, ALLISON M., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2019-07-25
[86] 2018-02-02 (PCT/US2018/016650)
[87] (WO2018/144870)
[30] US (62/454,681) 2017-02-03
[30] US (62/471,865) 2017-03-15

[21] **3,051,588**
[13] A1

[51] **Int.Cl. C07D 487/08 (2006.01) A61K 31/4439 (2006.01) A61K 31/506 (2006.01) A61K 31/5365 (2006.01) A61P 31/18 (2006.01) C07D 405/14 (2006.01) C07D 498/04 (2006.01)**

[25] EN
[54] **ATAZANAVIR (ATV) ANALOGUES FOR TREATING HIV INFECTIONS**
[54] **ANALOGUES D'ATAZANAVIR (ATV) POUR TRAITER DES INFECTIONS PAR LE VIH**

[72] BACON, ELIZABETH M., US
[72] CHIN, ELBERT, US
[72] COTTELL, JEROMY J., US
[72] KATANA, ASHLEY ANNE, US
[72] KATO, DARRYL, US
[72] LINK, JOHN O., US
[72] SHAPIRO, NATHAN, US
[72] TREJO MARTIN, TERESA ALEJANDRA, US
[72] YANG, ZHENG-YU, US
[71] GILEAD SCIENCES, INC., US
[85] 2019-07-25
[86] 2018-02-05 (PCT/US2018/016893)
[87] (WO2018/145021)
[30] US (62/455,348) 2017-02-06

[21] **3,051,589**
[13] A1

[51] **Int.Cl. A47G 1/06 (2006.01) A63F 9/08 (2006.01) A63H 33/04 (2006.01) A63H 33/16 (2006.01) B25H 7/00 (2006.01) B65D 5/52 (2006.01) G09F 19/00 (2006.01)**

[25] EN
[54] **IMAGE DISPLAY ASSEMBLY AND INTERLOCKING FASTENER THEREOF**
[54] **ENSEMBLE D'AFFICHAGE D'IMAGE ET SON DISPOSITIF DE FIXATION PAR VERROUILLAGE**

[72] MILLMAN, RYAN J., US
[72] SMITH, CHEYNE J., US
[71] GALLERY BLOCKS LLC D/B/A ARTSY COUTURE, US
[85] 2019-07-25
[86] 2018-01-30 (PCT/US2018/015898)
[87] (WO2018/144434)
[30] US (62/452,760) 2017-01-31

[21] **3,051,590**
[13] A1

[51] **Int.Cl. A61K 31/122 (2006.01) A61K 31/192 (2006.01) A61K 45/06 (2006.01) G01N 33/50 (2006.01)**

[25] EN
[54] **PROPHYLAXIS AND TREATMENT OF ACUTE MYELOID LEUKEMIA**
[54] **PROPHYLAXIE ET TRAITEMENT DE LA LEUCEMIE MYELOIDE AIGUE**

[72] KELLEY, MARK R., US
[72] KAPUR, REUBEN, US
[71] INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, US
[85] 2019-07-25
[86] 2018-01-18 (PCT/US2018/014252)
[87] (WO2018/140286)
[30] US (62/450,111) 2017-01-25

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[21] **3,051,591**
[13] A1

[51] **Int.Cl. G01N 29/34 (2006.01) G01N 29/14 (2006.01) G01N 29/38 (2006.01) G01N 29/44 (2006.01)**

[25] EN

[54] **ULTRASONIC INSPECTION SYSTEM EMPLOYING SPECTRAL AND TIME DOMAIN PROCESSING OF ULTRASONIC SIGNAL**

[54] **SYSTEME D'INSPECTION ULTRASONORE PAR TRAITEMENT DU DOMAINE SPECTRO-TEMPOREL DU SIGNAL ULTRASONORE**

[72] CHAMBERS, JANELLE KAY, US

[71] SOUTHERN RESEARCH INSTITUTE, US

[85] 2019-07-25

[86] 2018-02-21 (PCT/US2018/018994)

[87] (WO2018/156612)

[30] US (15/440,852) 2017-02-23

[21] **3,051,593**
[13] A1

[51] **Int.Cl. B01J 20/30 (2006.01)**

[25] EN

[54] **CHLORAMINE AND CHLORINE REMOVAL MATERIAL AND METHODS FOR MAKING THE SAME**

[54] **MATERIAU D'ELIMINATION DE CHLORAMINE ET DE CHLORE ET PROCEDES DE FABRICATION DE CELUI-CI**

[72] MAZZOCCOLI, JASON, US

[72] TRAMPOSCH, WALTER G., US

[72] WALKER, RYAN, US

[72] VAUGHN, ROBERT H., US

[71] CALGON CARBON CORPORATION, US

[85] 2019-07-25

[86] 2018-02-13 (PCT/US2018/017973)

[87] (WO2018/148719)

[30] US (62/458,371) 2017-02-13

[21] **3,051,595**
[13] A1

[51] **Int.Cl. A61G 11/00 (2006.01)**

[25] EN

[54] **DISPOSABLE INFANT INCUBATOR AND DISPOSABLE CONTAINED MICROENVIRONMENT FOR STATIONARY OR TRANSPORT CASES**

[54] **INCUBATEUR JETABLE POUR NOURRISSON ET MICRO-ENVIRONNEMENT CONFINE POUR DES CAS STATIONNAIRES OU DE TRANSPORT**

[72] BREEGI, WISAM, US

[71] BREEGI, WISAM, US

[85] 2019-07-25

[86] 2018-02-02 (PCT/US2018/016581)

[87] (WO2018/144809)

[30] US (62/454,283) 2017-02-03

[21] **3,051,592**
[13] A1

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

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING PRODUCT PERISHABILITY**

[54] **SYSTEME ET PROCEDE PERMETTANT DE DETERMINER LA PERISSABILITE D'UN PRODUIT**

[72] PAYNE, MICHAEL L., US

[72] FREEMAN, JOSHUA R., US

[72] JONES, JACOB A., US

[72] SPENCER, WINSTON E. D., US

[71] WALMART APOLLO, LLC, US

[85] 2019-07-25

[86] 2018-01-12 (PCT/US2018/013444)

[87] (WO2018/144205)

[30] US (62/453,327) 2017-02-01

[21] **3,051,594**
[13] A1

[51] **Int.Cl. E21B 10/56 (2006.01) E21B 10/43 (2006.01) E21B 10/50 (2006.01) E21B 10/52 (2006.01) E21B 10/58 (2006.01) E21B 10/62 (2006.01)**

[25] EN

[54] **DRILL BIT INSERTS AND DRILL BITS INCLUDING SAME**

[54] **PARTIES RAPPORTEES DE TREPAN ET TREPANS EQUIPES DESDITES PARTIES RAPPORTEES**

[72] RAHMANI, REZA, US

[72] OMIDVAR, NAVID, US

[72] AGHDAM, AFSHIN BABAIE, US

[72] GRAHAM, RYAN BASSON, US

[71] NATIONAL OILWELL DHT, L.P., US

[85] 2019-07-25

[86] 2018-02-01 (PCT/US2018/016495)

[87] (WO2018/144762)

[30] US (62/453,836) 2017-02-02

[21] **3,051,596**
[13] A1

[51] **Int.Cl. C11D 3/04 (2006.01) C11D 3/20 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **METHODS FOR MAKING ENCAPSULATE-CONTAINING PRODUCT COMPOSITIONS**

[54] **PROCEDES DE FABRICATION DE COMPOSITIONS DE PRODUIT CONTENANT UN PRODUIT D'ENCAPSULATION**

[72] SONG, XINBEI, US

[72] KENNEALLY, COREY JAMES, US

[72] SADLOWSKI, EUGENE STEVEN, US

[72] SCHEIBEL, JEFFREY JOHN, US

[72] SMETS, JOHAN, BE

[72] VANSTEENWINCKEL, PASCALE CLAIRE ANNICK, BE

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-07-25

[86] 2018-02-27 (PCT/US2018/019816)

[87] (WO2018/169674)

[30] US (15/460,277) 2017-03-16

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[21] **3,051,597**
[13] A1

[51] **Int.Cl. G07G 1/12 (2006.01)**
[25] EN
[54] **POS SYSTEM AND PAYMENT METHOD**
[54] **SYSTEME POS ET PROCEDE DE REGLEMENT**
[72] WATANABE, MITSUO, JP
[72] OHKAWA, MASANORI, JP
[72] MATSUI, NOBUHIRO, JP
[72] MIYAKE, TOSHIMASA, JP
[71] FUJITSU FRONTTECH LIMITED, JP
[85] 2019-07-24
[86] 2017-02-17 (PCT/JP2017/005936)
[87] (WO2018/150545)

[21] **3,051,598**
[13] A1

[51] **Int.Cl. A01N 65/42 (2009.01) A01N 65/00 (2009.01) A01P 1/00 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL GARLIC COMPOSITIONS**
[54] **COMPOSITIONS A BASE D'AIL ANTIMICROBIENNES**
[72] PENG, LI VERN, MY
[72] LIM, KING TING, MY
[72] COSTA, DE PATRICIA, MY
[71] MOOTRAL SA, CH
[85] 2019-07-24
[86] 2018-03-23 (PCT/MY2018/000014)
[87] (WO2018/182399)
[30] MY (PI 2017701113) 2017-03-30

[21] **3,051,599**
[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01)**
[25] EN
[54] **PURIFICATION COLUMN**
[54] **COLONNE DE PURIFICATION**
[72] SUZUKI, HISASHI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2019-07-24
[86] 2017-12-26 (PCT/JP2017/046555)
[87] (WO2018/139145)
[30] JP (2017-013902) 2017-01-30

[21] **3,051,600**
[13] A1

[51] **Int.Cl. C08G 63/672 (2006.01) C08G 63/199 (2006.01)**
[25] EN
[54] **2,5-FURANDICARBOXYLIC ACID-BASED POLYESTERS**
[54] **POLYESTERS A BASE D'ACIDE 2, 5-FURANDICARBOXYLIQUE**
[72] JACQUEL, NICOLAS, FR
[72] DEGAND, GABRIEL, FR
[72] SAINT-LOUP, RENE, FR
[72] DAM, MATHEUS ADRIANUS, NL
[72] WANG, BING, NL
[71] SYNVINA C.V., NL
[71] ROQUETTE FRERES, FR
[85] 2019-07-24
[86] 2018-01-22 (PCT/NL2018/050044)
[87] (WO2018/139919)
[30] NL (2018236) 2017-01-26

[21] **3,051,601**
[13] A1

[51] **Int.Cl. A23D 9/00 (2006.01) A23G 1/00 (2006.01)**
[25] EN
[54] **OIL/FAT FOR SUPPRESSING BLOOM**
[54] **HUILE/GRAISSE PERMETTANT DE SUPPRIMER LE BLANCHIMENT**
[72] HE, MOGENG, JP
[72] KARATANI, NAOHIRO, JP
[71] FUJI OIL HOLDINGS INC., JP
[85] 2019-07-24
[86] 2018-01-09 (PCT/JP2018/000142)
[87] (WO2018/159098)
[30] JP (2017-037116) 2017-02-28
[30] JP (2017-198775) 2017-10-12

[21] **3,051,602**
[13] A1

[51] **Int.Cl. G01L 1/12 (2006.01)**
[25] EN
[54] **MAGNETIC FORCE SENSOR AND PRODUCTION THEREOF**
[54] **CAPTEUR DE FORCE MAGNETIQUE ET SA FABRICATION**
[72] HANSAL, WOLFGANG, AT
[72] HANSAL, SELMA, AT
[72] MANN, RUDOLF, AT
[72] HALMDIENST, MARTINA, AT
[71] HIRTENBERGER ENGINEERED SURFACES GMBH, AT
[85] 2019-07-25
[86] 2018-01-26 (PCT/AT2018/060025)
[87] (WO2018/136988)
[30] AT (A 50057/2017) 2017-01-27

[21] **3,051,603**
[13] A1

[51] **Int.Cl. B60W 10/04 (2006.01) B60W 10/188 (2012.01) B60W 40/076 (2012.01) B60L 7/24 (2006.01) B60L 15/20 (2006.01) B60T 7/12 (2006.01) B60W 10/08 (2006.01) B60W 10/18 (2012.01) B60W 30/18 (2012.01)**
[25] EN
[54] **VEHICLE CONTROL DEVICE AND CONTROL METHOD**
[54] **DISPOSITIF DE COMMANDE ET PROCEDE DE COMMANDE DE VEHICULE**
[72] SHINDO, IKUMA, JP
[72] SUZUKI, TATSUYA, JP
[72] OHTA, MITSUNORI, JP
[71] NISSAN MOTOR CO., LTD., JP
[85] 2019-07-24
[86] 2018-01-16 (PCT/JP2018/001035)
[87] (WO2018/139270)
[30] JP (2017-010565) 2017-01-24

[21] **3,051,604**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **DERIVATIVES OF N-CYCLOALKYL/HETEROCYCLOA LKYL-4-(IMIDAZO [1,2-A]PYRIDINE)PYRIMIDIN-2-AMINE AS THERAPEUTIC AGENTS**
[54] **DERIVES DE N-CYCLOALKYL/HETEROCYCLOA LKYLE-4-(IMIDAZO[1,2-A]PYRIDINE)PYRIMIDIN-2-AMINE EN TANT QU'AGENTS THERAPEUTIQUES**
[72] WANG, SHUDONG, AU
[72] AL HAJ DIAB, SARAH, AU
[72] LONG, YI, AU
[71] AUCENTRA THERAPEUTICS PTY LTD, AU
[85] 2019-07-25
[86] 2018-02-01 (PCT/AU2018/000011)
[87] (WO2018/141002)
[30] AU (2017900290) 2017-02-01

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[21] **3,051,605**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4709 (2006.01) A61P 9/00 (2006.01) A61P 13/12 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/02 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **ETHANE-SULFONATE SALT OF QUINOLINE DERIVATIVE**

[54] **SEL D'ETHANE-SULFONATE DE DERIVE DE QUINOLEINE**

[72] NEKADO, TAKAHIRO, JP

[72] KIJIMA, HIDEOMI, JP

[72] ONO, SHIZUKA, JP

[72] NISHIYAMA, TOSHIHIKO, JP

[71] ONO PHARMACEUTICAL CO., LTD., JP

[85] 2019-07-24

[86] 2018-01-25 (PCT/JP2018/002250)

[87] (WO2018/139527)

[30] JP (2017-011835) 2017-01-26

[21] **3,051,606**
[13] A1

[51] **Int.Cl. E04C 5/08 (2006.01) E04B 5/04 (2006.01) E04B 5/26 (2006.01) E04C 5/16 (2006.01) F16L 3/02 (2006.01)**

[25] EN

[54] **BUILDING STRUCTURE**

[54] **STRUCTURE DE CONSTRUCTION**

[72] MCUTCHEM, PETER JAMES STIRLING, AU

[71] PARKD LTD, AU

[85] 2019-07-25

[86] 2018-02-26 (PCT/AU2018/050164)

[87] (WO2018/152590)

[30] AU (2017900630) 2017-02-24

[21] **3,051,607**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **OPTICAL FIBER CABLE**

[54] **CABLE A FIBRE OPTIQUE**

[72] KAJI, TOMOAKI, JP

[72] TOMIKAWA, KOUJI, JP

[72] OSATO, KEN, JP

[71] FUJIKURA, LTD., JP

[85] 2019-07-24

[86] 2018-02-06 (PCT/JP2018/003976)

[87] (WO2018/150947)

[30] JP (2017-029056) 2017-02-20

[21] **3,051,608**
[13] A1

[51] **Int.Cl. A61F 2/01 (2006.01) A61B 17/22 (2006.01)**

[25] EN

[54] **FILTER DEVICE**

[54] **DISPOSITIF DE FILTRAGE (DISPOSITIF DE CAPTURE D'EMBOLES)**

[72] SAKAKIBARA, HAJIME, JP

[72] YAGI, TAKAHIRO, JP

[71] TORAY INDUSTRIES, INC., JP

[85] 2019-07-24

[86] 2018-03-13 (PCT/JP2018/009669)

[87] (WO2018/168832)

[30] JP (2017-047184) 2017-03-13

[21] **3,051,609**
[13] A1

[51] **Int.Cl. A01K 13/00 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **NOISE ATTENUATION EARPHONE DEVICE FOR ANIMALS**

[54] **DISPOSITIF ECOUTEUR A ATTENUATION DE BRUIT POUR ANIMAUX**

[72] FERLAND, DANIEL, CA

[72] DEDIEU, STEPHANE, CA

[71] FERLAND, DANIEL, CA

[71] DEDIEU, STEPHANE, CA

[85] 2019-07-25

[86] 2018-01-26 (PCT/CA2018/050092)

[87] (WO2018/137037)

[30] US (62/450,915) 2017-01-26

[21] **3,051,610**
[13] A1

[51] **Int.Cl. H04N 21/8547 (2011.01) H04N 21/414 (2011.01)**

[25] EN

[54] **CAPTURING AND SYNCHRONIZING MOTION WITH RECORDED AUDIO/VIDEO**

[54] **CAPTURE ET SYNCHRONISATION DE MOUVEMENT AVEC FLUX AUDIO/VIDEO ENREGISTRE**

[72] LIMAME, ALA EDDINE, CA

[72] MENARD, JEAN-FRANCOIS, CA

[71] D-BOX TECHNOLOGIES INC., CA

[85] 2019-07-25

[86] 2018-01-26 (PCT/CA2018/050096)

[87] (WO2018/137040)

[30] US (62/450,754) 2017-01-26

[21] **3,051,611**
[13] A1

[51] **Int.Cl. G05D 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING HEADING OF UNMANNED AERIAL VEHICLE AND UNMANNED AERIAL VEHICLE**

[54] **PROCEDE DE DETERMINATION D'UN CAP DE VEHICULE AERIEN SANS PILOTE, ET VEHICULE AERIEN SANS PILOTE**

[72] CHEN, YOUSHENG, CN

[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN

[85] 2019-07-25

[86] 2017-05-26 (PCT/CN2017/086196)

[87] (WO2018/214166)

[21] **3,051,612**
[13] A1

[51] **Int.Cl. C10C 3/14 (2006.01) B03B 9/02 (2006.01) C08J 3/12 (2006.01) C10C 3/16 (2006.01) C08L 95/00 (2006.01)**

[25] EN

[54] **ENDOGENOUS ASPHALTENIC ENCAPSULATION OF BITUMINOUS MATERIALS WITH RECOVERY OF LIGHT ENDS**

[54] **ENCAPSULATION ASPHALTENIQUE ENDOGENE DE MATERIAUX BITUMINEUX AVEC RECUPERATION DES FRACTIONS LEGERES**

[72] GATES, IAN DONALD, CA

[72] WANG, JINGYI, CA

[71] SOLIDEUM HOLDINGS INC., CA

[85] 2019-07-25

[86] 2018-03-09 (PCT/CA2018/050287)

[87] (WO2018/165745)

[30] US (62/471,218) 2017-03-14

[30] US (62/525,669) 2017-06-27

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[21] **3,051,614**
[13] A1

[51] **Int.Cl. A61K 9/24 (2006.01) A61K 9/20 (2006.01) A61K 9/22 (2006.01)**
[25] EN
[54] **DOSAGE FORMS OF CONTROLLED RELEASE AT SPECIFIC GASTROINTESTINAL SITES**
[54] **FORMES POSOLOGIQUES DE LIBERATION CONTROLEE A DES SITES GASTRO-INTESTINAUX SPECIFIQUES**
[72] CHENG, SENPING, CN
[72] LI, XIAOLING, US
[72] DENG, FEIHUANG, CN
[72] YAO, JUAN, CN
[71] TRIASTEK, INC., CN
[85] 2019-07-25
[86] 2018-01-25 (PCT/CN2018/074146)
[87] (WO2018/137686)
[30] CN (201710057401.4) 2017-01-26

[21] **3,051,616**
[13] A1

[51] **Int.Cl. B60P 7/06 (2006.01)**
[25] EN
[54] **A LOCKING ASSEMBLY THAT LOCKS A CARGO NET TO A PALLET**
[54] **ENSEMBLE DE VERROUILLAGE QUI VERROUILLE UN FILET DE CHARGEMENT SUR UNE PALETTE**
[72] CHAN, HANSON HOW SIN, CN
[72] LEUNG, SAI HO SIMON, CN
[71] CATHAY PACIFIC AIRWAYS LIMITED, HK
[85] 2019-07-25
[86] 2018-06-25 (PCT/CN2018/092621)
[87] (WO2019/019847)
[30] HK (17107456.3) 2017-07-25

[21] **3,051,617**
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/12 (2006.01) C08G 18/32 (2006.01) C08G 18/75 (2006.01) C08G 18/76 (2006.01) C09D 175/02 (2006.01) C09D 175/08 (2006.01)**
[25] EN
[54] **LOW VOC, HIGH SOLID DECK MEMBRANES**
[54] **MEMBRANES DE PLATEAU A FAIBLE TENEUR EN COV ET A HAUTE TENEUR EN SOLIDES**
[72] WANG, CHIA, US
[72] MULLEN, BRIAN, US
[72] PAVEK, ROLAND, US
[71] CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DE
[85] 2019-07-25
[86] 2017-02-15 (PCT/EP2017/053351)
[87] (WO2018/149490)

[21] **3,051,618**
[13] A1

[51] **Int.Cl. B32B 15/01 (2006.01) C21D 1/70 (2006.01) H01F 3/04 (2006.01) H01F 27/25 (2006.01) H01F 41/02 (2006.01)**
[25] EN
[54] **COMPOSITE MATERIAL FOR A STATOR STACK AND ROTOR STACK**
[54] **MATERIAU COMPOSITE POUR PAQUET STATORIQUE ET ROTORIQUE**
[72] LEWE, TOBIAS, DE
[72] TIETZ, MARCO, DE
[72] DREWES, STEPHAN, DE
[72] GRUNDEN, PHILIPP, DE
[72] TELGER, KARL, DE
[72] MUELLER, JOHANN, DE
[72] KAHVECI, ABDULLAH, DE
[71] THYSSENKRUPP STEEL EUROPE AG, DE
[71] THYSSENKRUPP AG, DE
[85] 2019-07-25
[86] 2017-03-03 (PCT/EP2017/055059)
[87] (WO2018/157943)

[21] **3,051,620**
[13] A1

[51] **Int.Cl. F02M 43/04 (2006.01) F02D 19/06 (2006.01) F02M 23/00 (2006.01) F02M 67/02 (2006.01)**
[25] EN
[54] **METHOD OF INTRODUCING AN ADDITIONAL COMBUSTION PROMOTING MEDIUM INTO THE CYLINDER OF A COMBUSTION ENGINE**
[54] **MOTEUR A COMBUSTION INTERNE COMPRENANT UN INJECTEUR DE CARBURANT DOTE D'UNE ALIMENTATION SUPPLEMENTAIRE DE LA CHAMBRE DE COMBUSTION EN FLUIDE COMBURANT**
[72] JUNKER, ERWIN, DE
[71] ERWIN JUNKER GRINDING TECHNOLOGY A.S., CZ
[85] 2019-07-25
[86] 2018-01-24 (PCT/EP2018/051683)
[87] (WO2018/138126)
[30] DE (10 2017 201 275.7) 2017-01-26

[21] **3,051,622**
[13] A1

[51] **Int.Cl. G01D 5/244 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MONITORING THE TRACK SIGNALS OF A POSITION CHANGE SENSOR**
[54] **PROCEDE ET DISPOSITIF POUR SURVEILLER LES SIGNAUX DE VOIE D'UN CAPTEUR DE CHANGEMENT DE POSITION**
[72] MULLER, MICHAEL, DE
[72] ZERFASS, FLORIAN, DE
[72] NORENBURG, BENJAMIN, DE
[72] SENFT, CHRISTIAN, DE
[72] RICHTER, SEBASTIAN, DE
[71] SEW-EURODRIVE GMBH & CO. KG, DE
[85] 2019-07-25
[86] 2018-01-23 (PCT/EP2018/025017)
[87] (WO2018/141482)
[30] DE (10 2017 000 931.7) 2017-02-02

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[21] **3,051,623**
[13] A1

[51] **Int.Cl. A61C 17/26 (2006.01) A61C 17/22 (2006.01)**
[25] EN
[54] **AN ELECTRIC UTILITY BRUSH WITH A DYNAMIC BRUSH HEAD**
[54] **BROSSE UTILITAIRE ELECTRIQUE DOTEE D'UNE TETE DE BROSSE DYNAMIQUE**
[72] DIAMOND, DAVID, GB
[72] DIAMOND, JEAN, GB
[71] GLAXOSMITHKLINE CONSUMER HEALTHCARE (UK) IP LIMITED, GB
[85] 2019-07-25
[86] 2018-01-25 (PCT/EP2018/051764)
[87] (WO2018/138173)
[30] IE (S2017/0028) 2017-01-27

[21] **3,051,625**
[13] A1

[51] **Int.Cl. B03C 3/12 (2006.01) B03C 3/68 (2006.01) B03C 3/72 (2006.01)**
[25] EN
[54] **ELECTROSTATIC PRECIPITATOR**
[54] **ELECTRO-FILTRE**
[72] SCHINDLER, KASPAR, CH
[71] CLEAN AIR ENTERPRISE AG, CH
[85] 2019-07-25
[86] 2018-01-03 (PCT/EP2018/050093)
[87] (WO2018/137899)
[30] CH (00098/17) 2017-01-30

[21] **3,051,626**
[13] A1

[51] **Int.Cl. B65D 51/28 (2006.01)**
[25] EN
[54] **CARTRIDGE TO DISPENSE A PRODUCT IN A CONTAINER**
[54] **CARTOUCHE POUR DISTRIBUER UN PRODUIT DANS UN CONTENANT**
[72] GUERY, JEAN-CLAUDE, BE
[72] HERLIN, CORINNE, FR
[71] BNOVA, BE
[85] 2019-07-25
[86] 2018-01-25 (PCT/EP2018/051787)
[87] (WO2018/138186)
[30] CN (201710057279.0) 2017-01-26

[21] **3,051,627**
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR VENTILATING A PATIENT**
[54] **DISPOSITIFS ET PROCEDES POUR LA VENTILATION ARTIFICIELLE D'UN PATIENT**
[72] ENK, DIETMAR, DE
[72] BARNES, THOMAS HEINRICH, GB
[72] VAN ASSELDONK, DIRK THEODORUS ANDREAS, NL
[71] VENTINOVA TECHNOLOGIES B.V., NL
[85] 2019-07-25
[86] 2018-01-25 (PCT/EP2018/051808)
[87] (WO2018/138191)
[30] DE (10 2017 101 645.7) 2017-01-27

[21] **3,051,629**
[13] A1

[51] **Int.Cl. E04G 21/24 (2006.01) C09D 5/18 (2006.01) E01F 8/00 (2006.01) E04B 1/82 (2006.01) G10K 11/168 (2006.01)**
[25] EN
[54] **ACOUSTIC CURTAIN**
[54] **RIDEAU ACOUSTIQUE**
[72] CHATTELL, TIMOTHY, GB
[71] RVT GROUP LIMITED, GB
[85] 2019-07-25
[86] 2018-01-26 (PCT/EP2018/051936)
[87] (WO2018/138248)
[30] EP (17153622.0) 2017-01-27

[21] **3,051,630**
[13] A1

[51] **Int.Cl. B66B 9/08 (2006.01)**
[25] EN
[54] **STAIRLIFT**
[54] **MONTE-ESCALIER**
[72] VAN EIJGEN, WILCO, NL
[71] THYSSENKRUPP STAIRLIFTS B.V., NL
[71] THYSSENKRUPP AG, DE
[85] 2019-07-25
[86] 2018-01-16 (PCT/EP2018/050988)
[87] (WO2018/145862)
[30] DE (10 2017 202 010.5) 2017-02-08

[21] **3,051,631**
[13] A1

[51] **Int.Cl. H04N 21/2343 (2011.01) H04H 60/04 (2009.01) H04N 21/2187 (2011.01) H04N 21/242 (2011.01) H04N 5/222 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING MEDIA CONTENT CAPTURE FOR LIVE VIDEO BROADCAST PRODUCTION**
[54] **SYSTEME ET PROCEDE DE COMMANDE DE CAPTURE DE CONTENU MULTIMEDIA POUR LA PRODUCTION DE RADIODIFFUSION VIDEO EN DIRECT**
[72] MEYER, CHARLES S., LU
[71] GVBB HOLDINGS, S.A.R.L., LU
[85] 2019-07-25
[86] 2018-01-27 (PCT/EP2018/052023)
[87] (WO2018/138300)
[30] US (62/451,477) 2017-01-27
[30] US (15/880,988) 2018-01-26

[21] **3,051,632**
[13] A1

[51] **Int.Cl. A47K 10/38 (2006.01)**
[25] EN
[54] **PAPER DISPENSER**
[54] **DISTRIBUTEUR DE PAPIER**
[72] TEDESCO, DANIELE SALVATORE, US
[72] BILLMAN, CRAIG, US
[72] DOTSEY, MICHAEL AUSTIN, US
[72] ALLARD, BRYAN FITZGERALD, US
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2019-07-25
[86] 2018-01-18 (PCT/EP2018/051185)
[87] (WO2018/137992)
[30] US (15/415,908) 2017-01-26

Demandes PCT entrant en phase nationale

[21] **3,051,633**
[13] A1

[51] **Int.Cl. G05B 15/02 (2006.01)**
[25] EN
[54] **ELECTRONIC CONTROL SYSTEM FOR A NUMBER OF ELECTROSTATIC PRECIPITATORS**
[54] **ELECTRONIQUE DE COMMANDE POUR PLUSIEURS FILTRES ELECTROSTATIQUES**
[72] OBERHAENSLI, RENE, CH
[71] CLEAN AIR ENTERPRISE AG, CH
[85] 2019-07-25
[86] 2018-01-29 (PCT/EP2018/052090)
[87] (WO2018/138315)
[30] CH (00096/17) 2017-01-30

[21] **3,051,634**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A23L 33/20 (2016.01)**
[25] EN
[54] **DIET COMPOSITION FOR THE PREVENTION AND/OR THE TREATMENT OF ENDOMETRIAL HYPERPLASIA**
[54] **COMPOSITION DIETETIQUE POUR LA PREVENTION ET/OU LE TRAITEMENT DE L'HYPERPLASIE DE L'ENDOMETRE**
[72] NENCIONI, ALESSIO, IT
[72] CAFFA, IRENE, IT
[72] BECHERINI, PAMELA, IT
[72] LONGO, VALTER, US
[71] UNIVERSITA DEGLI STUDI DI GENOVA, IT
[71] L-NUTRA INC., US
[85] 2019-07-25
[86] 2018-01-23 (PCT/EP2018/051590)
[87] (WO2018/138090)
[30] IT (102017000008499) 2017-01-26

[21] **3,051,635**
[13] A1

[51] **Int.Cl. C07C 269/00 (2006.01) C07C 271/28 (2006.01) C07D 231/22 (2006.01)**
[25] EN
[54] **PRODUCTION OF N-SUBSTITUTED AROMATIC HYDROXYLAMINE**
[54] **PRODUCTION D'HYDROXYLAMINES AROMATIQUES N-SUBSTITUEES**
[72] STEINER, HEINZ, CH
[71] SOLVIAS AG, CH
[85] 2019-07-25
[86] 2018-01-30 (PCT/EP2018/052291)
[87] (WO2018/141751)
[30] EP (17020041.4) 2017-02-01

[21] **3,051,636**
[13] A1

[51] **Int.Cl. C01B 21/26 (2006.01) B01D 53/02 (2006.01) B01D 53/56 (2006.01) C01B 21/28 (2006.01) C01B 21/46 (2006.01)**
[25] EN
[54] **A PLANT FOR THE PRODUCTION OF NITRIC ACID, A RELATED PROCESS AND METHOD OF REVAMPING**
[54] **INSTALLATION POUR LA PRODUCTION D'ACIDE NITRIQUE, PROCEDE ASSOCIE ET METHODE DE MODERNISATION**
[72] CERIA, IACOPO, CH
[72] GRANGER, JEAN FRANCOIS, CH
[71] CASALE SA, CH
[85] 2019-07-25
[86] 2018-02-01 (PCT/EP2018/052469)
[87] (WO2018/162150)
[30] EP (17159734.7) 2017-03-07

[21] **3,051,637**
[13] A1

[51] **Int.Cl. B66B 9/08 (2006.01)**
[25] EN
[54] **METHOD OF CONTROLLING A STAIRLIFT AND A STAIRLIFT PROCEDE DE COMMANDE D'UN MONTE-ESCALIER, ET MONTE-ESCALIER**
[72] BOXUM, CORNELIS, NL
[72] KASBERGEN, PAUL, NL
[72] BLOKZIJL, ALBERTUS, NL
[71] THYSSENKRUPP STAIRLIFTS B.V., NL
[71] THYSSENKRUPP AG, DE
[85] 2019-07-25
[86] 2018-03-08 (PCT/EP2018/055729)
[87] (WO2018/162627)
[30] DE (10 2017 203 774.1) 2017-03-08

[21] **3,051,639**
[13] A1

[51] **Int.Cl. C07K 16/36 (2006.01) A61P 7/04 (2006.01)**
[25] EN
[54] **PROCOAGULANT ANTIBODIES**
[54] **ANTICORPS PROCOAGULANTS**
[72] THORN, KARINA, DK
[72] HANSEN, BJARNE GRAM, DK
[72] JOHNSEN, LAUST BRUUN, DK
[72] HARND AHL, MIKKEL NORS, DK
[72] YANG, ZHIRU, CN
[72] OSTERGAARD, HENRIK, DK
[72] GREISEN, PER J., DK
[72] JOHANSSON, EVA, DK
[72] RASCH, MORTEN GRONBECH, DK
[72] CHEN, JIANHE, CN
[72] SVENSSON, ANDERS, DK
[72] ZHU, HAI SUN, CN
[72] ZHOU, RONG, CN
[71] NOVO NORDISK A/S, DK
[85] 2019-07-25
[86] 2018-02-01 (PCT/EP2018/052550)
[87] (WO2018/141863)
[30] CN (PCT/CN2017/072796) 2017-02-01
[30] CN (PCT/CN2017/105556) 2017-10-10
[30] CN (PCT/CN2017/115210) 2017-12-08
[30] EP (18154489.1) 2018-01-31

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[21] **3,051,640**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CANCER**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DU CANCER**

[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] 2019-07-25
[86] 2018-03-16 (PCT/EP2018/056661)
[87] (WO2018/167267)
[30] US (62/471,994) 2017-03-16
[30] US (62/586,220) 2017-11-15

[21] **3,051,642**
[13] A1

[51] **Int.Cl. B63B 21/18 (2006.01) B63B 21/08 (2006.01) B63B 21/10 (2006.01) B63B 21/50 (2006.01) B63B 22/02 (2006.01)**

[25] EN
[54] **MOORING CONNECTOR ASSEMBLY**
[54] **ENSEMBLE RACCORD D'AMARRAGE**

[72] TEIXEIRA, MARCO ANDRE, GB
[72] PRESTON, JONATHAN SCOTT, GB
[72] JACKSON, JONATHAN FLETCHER, GB
[72] PARRY, WILLIAM DAVID LOTON, GB
[71] BALLTEC LIMITED, GB
[85] 2019-07-25
[86] 2017-02-03 (PCT/GB2017/050278)
[87] (WO2017/134457)
[30] GB (1602041.4) 2016-02-04

[21] **3,051,643**
[13] A1

[51] **Int.Cl. C07C 67/52 (2006.01) C07C 69/675 (2006.01)**

[25] EN
[54] **PURIFICATION OF PLEUROMUTILIN**
[54] **PURIFICATION DE PLEUROMUTILINE**

[72] HEILMAYER, WERNER, AT
[72] SPENCE, LEE, AT
[72] HINSMANN, PETER, AT
[71] NABRIVA THERAPEUTICS GMBH, AT
[85] 2019-07-25
[86] 2018-02-09 (PCT/EP2018/053314)
[87] (WO2018/146264)
[30] EP (17155542.8) 2017-02-10

[21] **3,051,644**
[13] A1

[51] **Int.Cl. C07D 213/72 (2006.01) A61K 31/44 (2006.01) A61P 35/00 (2006.01)**

[25] EN
[54] **SULFINYL PYRIDINES AND THEIR USE IN THE TREATMENT OF CANCER**
[54] **SULFINYL PYRIDINES ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] PELCMAN, BENJAMIN, SE
[72] ORWAR, OWE, SE
[72] STAFFORD, WILLIAM, SE
[72] ANDERSSON, KJELL, SE
[71] OBLIQUE THERAPEUTICS AB, SE
[85] 2019-07-25
[86] 2018-02-07 (PCT/GB2018/050342)
[87] (WO2018/146468)
[30] US (62/455,645) 2017-02-07

[21] **3,051,645**
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) C07D 209/10 (2006.01) C07D 401/12 (2006.01) C07D 405/12 (2006.01)**

[25] EN
[54] **ARYL HYDROCARBON RECEPTOR (AHR) MODULATOR COMPOUNDS**
[54] **COMPOSES MODULATEURS DU RECEPTEUR DES HYDROCARBURES ARYLE (AHR)**

[72] DEUSCHLE, ULRICH, DE
[72] STEENECK, CHRISTOPH, DE
[72] ALBERS, MICHAEL, DE
[72] HOFFMANN, THOMAS, DE
[71] PHENEX PHARMACEUTICALS AG, DE
[85] 2019-07-25
[86] 2018-02-21 (PCT/EP2018/054234)
[87] (WO2018/153893)
[30] EP (17000276.0) 2017-02-21

[21] **3,051,646**
[13] A1

[51] **Int.Cl. C22B 1/24 (2006.01) C22B 1/243 (2006.01)**

[25] EN
[54] **USE OF COPOLYMERS AS BINDERS FOR PELLETIZING METAL CONTAINING ORES**
[54] **UTILISATION DE COPOLYMERES EN TANT QUE LIANTS POUR LA PELLETISATION DE MINERAIS CONTENANT DU METAL**

[72] LANGLOTZ, BJORN, DE
[72] HOFF, SHANE, US
[72] VILLANUEVA BERINDOAGUE, ADRIAN MAURICIO, DE
[72] MICHAILOVSKI, ALEXEI, DE
[72] DIERSCHKE, FRANK, DE
[71] BASF SE, DE
[85] 2019-07-25
[86] 2018-02-22 (PCT/EP2018/054402)
[87] (WO2018/153995)
[30] EP (17157296.9) 2017-02-22

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[21] **3,051,647**
[13] A1

[51] **Int.Cl. C07D 403/10 (2006.01) A61K 31/4155 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **AMPA RECEPTOR POTENTIATORS**

[54] **POTENTIALISATEURS DU RECEPTEUR AMPA**

[72] WARD, SIMON, GB

[72] BESWICK, PAUL, GB

[72] PENNICOTT, LEWIS, GB

[72] REUILLON, TRISTAN, GB

[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, GB

[85] 2019-07-25

[86] 2018-02-09 (PCT/GB2018/050370)

[87] (WO2018/146486)

[30] GB (1702221.1) 2017-02-10

[21] **3,051,649**
[13] A1

[51] **Int.Cl. F16F 9/53 (2006.01) F16F 9/14 (2006.01) F16F 9/06 (2006.01)**

[25] EN

[54] **ROTARY DAMPER**

[54] **AMORTISSEUR ROTATIF**

[72] BATTLOGG, STEFAN, AT

[71] INVENTUS ENGINEERING GMBH, AT

[85] 2019-07-25

[86] 2018-02-26 (PCT/EP2018/054677)

[87] (WO2018/154112)

[30] DE (10 2017 103 810.8) 2017-02-24

[21] **3,051,650**
[13] A1

[51] **Int.Cl. B65D 8/00 (2006.01) B65D 25/24 (2006.01) B65D 25/28 (2006.01) B67D 1/08 (2006.01)**

[25] EN

[54] **TOP CHIME FOR A BEVERAGE KEG**

[54] **REBORD SUPERIEUR POUR UN FUT DE BOISSON**

[72] FALVEY, JAMES, GB

[71] PETAINER LARGE CONTAINER IP LIMITED, GB

[85] 2019-07-25

[86] 2018-02-27 (PCT/GB2018/050499)

[87] (WO2018/154334)

[30] GB (1703148.5) 2017-02-27

[30] GB (1705593.0) 2017-04-06

[21] **3,051,651**
[13] A1

[51] **Int.Cl. A47J 31/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE PREPARATION OF A BEVERAGE FROM A CAPSULE WITH PREWETTING**

[54] **PROCEDE DE PREPARATION D'UNE BOISSON A PARTIR D'UNE CAPSULE A PRE-MOULLAGE**

[72] GUYON, BERTRAND, FR

[72] CHIODA, SERGIO, CH

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2019-07-25

[86] 2018-03-06 (PCT/EP2018/055397)

[87] (WO2018/162440)

[30] EP (17159778.4) 2017-03-08

[21] **3,051,652**
[13] A1

[51] **Int.Cl. A61K 31/70 (2006.01) A61P 17/02 (2006.01) A61P 43/00 (2006.01) C07K 5/068 (2006.01) C07K 5/09 (2006.01)**

[25] EN

[54] **GLYCOPEPTIDE DERIVATIVES FOR USE IN THE TREATMENT AND/OR PREVENTION AND/OR ATTENUATION OF FIBROSIS DISEASES**

[54] **DERIVES DE GLYCOPEPTIDES DESTINES A ETRE UTILISES DANS LE TRAITEMENT ET/OU LA PREVENTION ET/OU L'ATTENUATION DE MALADIES DE FIBROSE**

[72] DELIENCOURT-GODEFROY, GERALDINE, FR

[72] LEGOEDDEC, JOCELYNE, FR

[71] TFCHEM, FR

[85] 2019-07-25

[86] 2017-01-30 (PCT/IB2017/000207)

[87] (WO2018/138541)

[21] **3,051,654**
[13] A1

[51] **Int.Cl. E04G 7/32 (2006.01)**

[25] EN

[54] **CONNECTOR FOR TEMPORARY SCAFFOLDING**

[54] **RACCORD POUR ECHAFAUDAGE TEMPORAIRE**

[72] SEKIYAMA, TADAKATSU, JP

[72] OKADA, TETSURO, JP

[72] WADA, SOHEI, JP

[72] ITO, MASAKI, JP

[72] SASAKI, HIROFUMI, JP

[72] SATO, SHINOBU, JP

[72] SHINOHARA, HAZUKI, JP

[71] NIKKEN LEASE KOGYO CO., LTD., JP

[85] 2019-07-25

[86] 2017-01-27 (PCT/JP2017/002964)

[87] (WO2018/138873)

[21] **3,051,656**
[13] A1

[51] **Int.Cl. H04B 7/155 (2006.01)**

[25] EN

[54] **CONTROL STATION, SATELLITE STATION, EARTH STATION, DATA TRANSMISSION SYSTEM, AND DATA TRANSMISSION METHOD**

[54] **STATION DE COMMANDE, STATION DE SATELLITE, STATION TERRESTRE, SYSTEME DE TRANSMISSION DE DONNEES ET PROCEDE DE TRANSMISSION DE DONNEES**

[72] TANI, SHIGENORI, JP

[72] MOTOYOSHI, KATSUYUKI, JP

[71] MITSUBISHI ELECTRIC CORPORATION, JP

[85] 2019-07-25

[86] 2017-02-02 (PCT/JP2017/003795)

[87] (WO2018/142539)

PCT Applications Entering the National Phase

[21] **3,051,657**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01)**
[25] EN
[54] **PUNCTURE INSTRUMENT AND PUNCTURE DEVICE**
[54] **INSTRUMENT DE PONCTION ET DISPOSITIF DE PONCTION**
[72] NAKAMURA, SHUJI, JP
[72] MASAMUNE, KEN, JP
[72] MIKI, KOHEI, JP
[72] SADO, KATSUYUKI, JP
[72] TAKAGAWA, HIROKAZU, JP
[72] IWASHIMA, FUMIYA, JP
[72] NABESHIMA, AKIHIRO, JP
[71] TRANSELL CO., LTD., JP
[85] 2019-07-25
[86] 2018-01-31 (PCT/JP2018/003178)
[87] (WO2018/143262)
[30] JP (2017-015764) 2017-01-31
[30] JP (2017-015767) 2017-01-31
[30] JP (2017-015795) 2017-01-31

[21] **3,051,662**
[13] A1

[51] **Int.Cl. H01G 7/02 (2006.01) H01L 41/193 (2006.01)**
[25] EN
[54] **ENERGY CONVERSION FILM AND ENERGY CONVERSION ELEMENT USING SAME**
[54] **FILM DE CONVERSION D'ENERGIE ET ELEMENT DE CONVERSION D'ENERGIE L'UTILISANT**
[72] KOIKE, HIROSHI, JP
[72] SUGAMATA, YUTAROU, JP
[72] IIDA, SEIICHIRO, JP
[71] YUPO CORPORATION, JP
[85] 2019-07-25
[86] 2018-01-31 (PCT/JP2018/003271)
[87] (WO2018/143294)
[30] JP (2017-017081) 2017-02-01

[21] **3,051,663**
[13] A1

[51] **Int.Cl. A61K 31/728 (2006.01) A61K 31/196 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR TREATING JOINT DISEASES AND KIT INCLUDING SAME**
[54] **COMPOSITION POUR TRAITEMENT DES MALADIES ARTICULAIRES, ET KIT CONTENANT CETTE COMPOSITION**
[72] KANO, KAZUYUKI, JP
[72] NOBUOKA, YUJI, JP
[72] SEO, TAKAYUKI, JP
[71] SEIKAGAKU CORPORATION, JP
[85] 2019-07-25
[86] 2018-03-14 (PCT/JP2018/009945)
[87] (WO2018/168921)
[30] JP (2017-049204) 2017-03-14
[30] JP (2017-132510) 2017-07-06

[21] **3,051,664**
[13] A1

[51] **Int.Cl. H04Q 3/58 (2006.01) H04M 3/42 (2006.01)**
[25] EN
[54] **INCOMING CALL CONTROLLING DEVICE, INCOMING CALL CONTROLLING SYSTEM, INCOMING CALL CONTROLLING METHOD, AND PROGRAM**
[54] **DISPOSITIF DE COMMANDE D'APPEL ENTRANT, SYSTEME DE COMMANDE D'APPEL ENTRANT, PROCEDE DE COMMANDE D'APPEL ENTRANT ET PROGRAMME**
[72] TAKATSUKA, FUMITAKA, JP
[72] UTSUNOMIYA, KAORI, JP
[72] SHIMIZU, SHIGEKI, JP
[72] HACHIYA, RYOTARO, JP
[72] KANAFUKA, KYOKO, JP
[72] MORIMOTO, AKIRA, JP
[71] NEC PLATFORMS, LTD., JP
[71] NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION, JP
[71] NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION, JP
[85] 2019-07-25
[86] 2019-01-11 (PCT/JP2019/000611)
[87] (WO2019/139106)
[30] JP (2018-004133) 2018-01-15

[21] **3,051,665**
[13] A1

[51] **Int.Cl. C07D 487/22 (2006.01) A61K 31/5025 (2006.01) A61K 31/519 (2006.01)**
[25] EN
[54] **IMIDAZOPYRIDAZINE COMPOUND**
[54] **COMPOSE D'IMIDAZOPYRIDAZINE**
[72] HAM, YOUNG JIN, KR
[72] KANG, SEOK JONG, KR
[71] HANMI PHARMACEUTICAL CO., LTD., KR
[85] 2019-07-25
[86] 2018-01-23 (PCT/KR2018/000982)
[87] (WO2018/139825)
[30] KR (10-2017-0012767) 2017-01-26

[21] **3,051,666**
[13] A1

[51] **Int.Cl. G01L 5/04 (2006.01) B62D 55/112 (2006.01) B62D 55/30 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING TENSION OF TRACK**
[54] **PROCEDE ET SYSTEME DE SURVEILLANCE DE TENSION DE CHENILLE**
[72] CHO, CHEOL HYUN, KR
[72] CHO, EUI JAE, KR
[71] DRB INDUSTRIAL CO.,LTD., KR
[85] 2019-07-25
[86] 2018-01-23 (PCT/KR2018/001021)
[87] (WO2018/139836)
[30] KR (10-2017-0012220) 2017-01-25

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[21] **3,051,667**
[13] A1

[51] **Int.Cl. C12N 9/02 (2006.01) C07K 14/00 (2006.01) C07K 16/40 (2006.01) C12N 15/53 (2006.01) C12N 15/79 (2006.01) C12Q 1/66 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **NOVEL LUCIFERASES AND METHODS FOR USING SAME**

[54] **NOUVELLES LUCIFERASES ET LEURS PROCEDES DE PRODUCTION**

[72] YAMPOL'SKIY, IL'YA VIKTOROVICH, RU

[71] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOSTYU "PLANTA", RU

[85] 2019-07-25

[86] 2017-12-06 (PCT/RU2017/050125)

[87] (WO2018/139956)

[30] RU (2017102986) 2017-01-30

[21] **3,051,668**
[13] A1

[51] **Int.Cl. G05D 1/12 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CONTROLLING FLIGHT OF UNMANNED AERIAL VEHICLE**

[54] **PROCEDE ET APPAREIL PERMETTANT DE COMMANDER LE VOL D'UN VEHICULE AERIEN SANS PILOTE**

[72] WU, BIN, CN

[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN

[85] 2019-05-30

[86] 2017-11-24 (PCT/CN2017/112862)

[87] (WO2018/095407)

[30] CN (201611070426.X) 2016-11-28

[21] **3,051,669**
[13] A1

[51] **Int.Cl. D01D 5/26 (2006.01) D04H 1/26 (2012.01) D01D 1/06 (2006.01) D01F 1/02 (2006.01) D01F 2/00 (2006.01) D02G 3/02 (2006.01)**

[25] EN

[54] **A NATURAL FIBER BASED STAPLE FIBERS, A METHOD AND APPARATUS FOR MANUFACTURING SUCH FIBRES DISCONTINUES A BASE DE FIBRES NATURELLES, PROCEDE ET APPAREIL DE FABRICATION DE TELLES FIBRES DISCONTINUES A BASE DE FIBRES NATURELLES**

[72] LIUKKONEN, JOHANNA, FI

[72] HAAVISTO, SANNA, FI

[72] SELENIUS, PASI, FI

[72] SALMELA, JUHA, FI

[72] PORANEN, JANNE, FI

[72] SALMINEN, ARTO, FI

[72] MYLLYS, MARKO, FI

[72] VENTO, PIA, FI

[72] BJORKLUND, KARRI, FI

[71] SPINNOVA OY, FI

[85] 2019-07-25

[86] 2018-02-15 (PCT/FI2018/050115)

[87] (WO2018/150099)

[30] FI (20175134) 2017-02-15

[21] **3,051,670**
[13] A1

[51] **Int.Cl. F02M 35/16 (2006.01) B60K 11/00 (2006.01) F02M 35/02 (2006.01) F02M 35/04 (2006.01)**

[25] EN

[54] **VEHICLE HAVING AIR FILTER ACCESS PANEL**

[54] **VEHICULE DOTE D'UN PANNEAU D'ACCES DE FILTRE A AIR**

[72] BOUCHARD, SACHA, CA

[72] LANG, SERGE, CA

[72] SCHULER, MARC, CA

[72] VEILLETTE, STEPHANE, CA

[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA

[85] 2019-07-25

[86] 2017-11-02 (PCT/IB2017/056842)

[87] (WO2018/138562)

[30] US (62/451,953) 2017-01-30

[21] **3,051,676**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) A61B 5/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PATIENT MANAGEMENT USING RULES ENGINE**

[54] **PROCEDE ET SYSTEME DE GESTION DE PATIENTS UTILISANT UN MOTEUR DE REGLES**

[72] CASSE, BENJAMIN WILSON, NZ

[72] CAMPBELL, CHRISTOPHER HARDING, NZ

[72] SOBOLEWSKA, KATARZYNA, NZ

[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ

[85] 2019-07-25

[86] 2018-01-26 (PCT/IB2018/050472)

[87] (WO2018/138675)

[30] US (62/450,819) 2017-01-26

[21] **3,051,678**
[13] A1

[51] **Int.Cl. B01J 35/00 (2006.01) B01J 21/04 (2006.01) B01J 21/06 (2006.01) B01J 23/10 (2006.01) B01J 23/40 (2006.01) B01J 35/02 (2006.01) B01J 37/00 (2006.01) B01J 37/16 (2006.01)**

[25] EN

[54] **CATALYST COMPOSITION COMPRISING COLLOIDAL PLATINUM GROUP METAL NANOPARTICLES**

[54] **COMPOSITION DE CATALYSEUR COMPRENANT DES NANOPARTICULES METALLIQUES DU GROUPE PLATINE COLLOIDAL**

[72] LUO, TIAN, US

[72] DEEBA, MICHEL, US

[72] GU, YUNLONG, US

[72] DEUERLEIN, STEPHAN, DE

[72] LEUNG, EMI, US

[71] BASF CORPORATION, US

[85] 2019-07-25

[86] 2018-01-26 (PCT/IB2018/050501)

[87] (WO2018/138687)

[30] US (62/451,130) 2017-01-27

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[21] **3,051,681**
[13] A1

[51] **Int.Cl. A01N 43/54 (2006.01) A01N 33/18 (2006.01) A01N 43/64 (2006.01) A01N 43/707 (2006.01)**
[25] EN
[54] **HERBICIDAL COMBINATION**
[54] **ASSOCIATION D'HERBICIDES**
[72] FABRI, CARLOS EDUARDO, BR
[72] SHROFF, RAJNIKANT DEVIDAS, IN
[72] KUMAR, AJIT, IN
[72] SHROFF, JAIDEV RAJNIKANT, AE
[72] SHROFF, VIKRAM RAJNIKANT, AE
[71] UPL LTD, IN
[85] 2019-07-25
[86] 2018-01-30 (PCT/IB2018/050547)
[87] (WO2018/142273)
[30] IN (201731003641) 2017-01-31
[30] IN (201731042834) 2017-11-29

[21] **3,051,682**
[13] A1

[51] **Int.Cl. A01N 59/00 (2006.01) A01N 25/30 (2006.01) A01N 31/08 (2006.01) A01N 37/16 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **PEROXIDE-BASED DISINFECTING SOLUTIONS CONTAINING INORGANIC SALTS**
[54] **SOLUTIONS DESINFECTANTES A BASE DE PEROXYDE CONTENANT DES SELS INORGANQUES**
[72] AHMADPOUR, FARAZ, CA
[72] GRASCHA, PIERRE, FR
[72] SLACK, MATTHEW ALASDAIR TIMOTHY, GB
[71] VIROX TECHNOLOGIES INC., CA
[85] 2019-07-25
[86] 2018-02-15 (PCT/IB2018/050946)
[87] (WO2018/150359)
[30] US (62/460,115) 2017-02-17

[21] **3,051,686**
[13] A1

[51] **Int.Cl. A61B 17/132 (2006.01)**
[25] EN
[54] **SMART TOURNIQUET**
[54] **GARROT INTELLIGENT**
[72] BATEMAN, DANIELLE, US
[72] DAI, QI-DONG, US
[72] GU, QING, US
[72] TOH, SEOK-CHOON, US
[71] SHIRE HUMAN GENETIC THERAPIES, INC., US
[85] 2019-07-25
[86] 2018-01-11 (PCT/US2018/013330)
[87] (WO2018/132577)
[30] US (62/445,643) 2017-01-12

[21] **3,051,688**
[13] A1

[51] **Int.Cl. F16L 19/00 (2006.01) F16B 23/00 (2006.01) F16L 19/04 (2006.01) F16L 33/26 (2006.01) F16L 37/08 (2006.01)**
[25] EN
[54] **FITTING FOR MEDICAL PIPING SYSTEM**
[54] **RACCORD POUR SYSTEME DE TUYAUTERIE MEDICAL**
[72] RIVEST, DEAN W., US
[71] OMEGA FLEX, INC., US
[85] 2019-07-25
[86] 2018-01-18 (PCT/US2018/014160)
[87] (WO2018/140274)
[30] US (15/417,440) 2017-01-27

[21] **3,051,690**
[13] A1

[51] **Int.Cl. A47J 36/10 (2006.01) A47J 43/07 (2006.01)**
[25] EN
[54] **FOOD PROCESSOR LID**
[54] **COUVERCLE DE ROBOT CULINAIRE**
[72] CODY, THOMAS EDWARD KINGSBOROUGH, GB
[72] POTTER, JAMES RICHARD, GB
[72] CHAMBERS, OLIVER HENRY SHERSTON, GB
[72] ROBERTS, ANDREW DAVID, GB
[71] SHARKNINJA OPERATING LLC, US
[85] 2019-07-25
[86] 2018-01-24 (PCT/US2018/015053)
[87] (WO2018/140498)
[30] US (62/451,166) 2017-01-27

[21] **3,051,691**
[13] A1

[51] **Int.Cl. B31B 50/26 (2017.01) B31B 70/26 (2017.01) B32B 3/04 (2006.01) B32B 3/06 (2006.01) B32B 38/18 (2006.01) B65G 47/24 (2006.01) B65H 29/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CUTTING AND TAPING A SUBSTRATE AND A PRODUCT MADE BY THE METHOD**
[54] **PROCEDE ET APPAREIL DE DECOUPE ET D'ENRUBANNAGE D'UN SUBSTRAT ET PRODUIT OBTENU PAR LE PROCEDE**
[72] CLARK, THOMAS, US
[71] SFC LTD., US
[85] 2019-07-25
[86] 2018-01-24 (PCT/US2018/015063)
[87] (WO2018/140506)
[30] US (62/451,385) 2017-01-27

[21] **3,051,693**
[13] A1

[51] **Int.Cl. A61F 5/24 (2006.01) A61F 5/03 (2006.01) A61F 5/449 (2006.01)**
[25] EN
[54] **HERNIA BELT**
[54] **CEINTURE HERNIAIRE**
[72] CISKO, GEORGE J., US
[72] AUGUSTYN, CHRISTINA, US
[72] PARK, RYAN S., US
[72] RAKEVICIUS, DONALD, US
[72] WANG, XUEMEI, US
[72] KIA, STEPHANIE, US
[72] BURGER, JEFFREY R., US
[71] HOLLISTER INCORPORATED, US
[85] 2019-07-25
[86] 2018-01-30 (PCT/US2018/015955)
[87] (WO2018/144456)
[30] US (62/453,155) 2017-02-01
[30] US (62/551,370) 2017-08-29

Demandes PCT entrant en phase nationale

[21] **3,051,694**
[13] A1

[51] **Int.Cl. A23B 7/154 (2006.01) A01G 17/00 (2006.01) A23B 7/16 (2006.01) C09D 101/02 (2006.01)**

[25] EN
[54] **FOOD PRODUCT COATINGS**
[54] **ENROBAGES DE PRODUITS ALIMENTAIRES**

[72] JUNG, JOOYEOUN, US
[72] SIMONSEN, JOHN, US
[72] ZHAO, YANYUN, US
[71] OREGON STATE UNIVERSITY, US
[85] 2019-07-25
[86] 2018-01-30 (PCT/US2018/016021)
[87] (WO2018/144482)
[30] US (62/452,897) 2017-01-31

[21] **3,051,695**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01) G02B 6/54 (2006.01)**

[25] EN
[54] **LOW FRICTION INDOOR/OUTDOOR OPTIC FIBER CABLE WITH FLUTED OUTER SHAPE**
[54] **CABLE A FIBRE(S) OPTIQUE(S) INTERIEUR/EXTERIEUR A FAIBLE COEFFICIENT DE FROTTEMENT AYANT UNE FORME EXTERIEURE CANNELEE**

[72] PAUSAN, NORIN PAUL, GB
[72] WALKER, DAVID JOHN, GB
[72] ABBAS, AMJED MOHAMED S., GB
[71] COMMSCOPE TECHNOLOGIES LLC, US
[85] 2019-07-25
[86] 2018-01-31 (PCT/US2018/016129)
[87] (WO2018/144529)
[30] US (62/453,391) 2017-02-01

[21] **3,051,696**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**

[25] EN
[54] **TGF.BETA. AND ACTRII ANTAGONISTS FOR USE IN INCREASING IMMUNE ACTIVITY**
[54] **ANTAGONISTES DU TGFS ET D'ACTRII A UTILISER AFIN DE STIMULER L'ACTIVITE IMMUNITAIRE**

[72] PEARSALE, ROBERT SCOTT, US
[72] KUMAR, RAVINDRA, US
[71] ACCELERON PHARMA INC., US
[85] 2019-07-25
[86] 2018-01-31 (PCT/US2018/016148)
[87] (WO2018/144542)
[30] US (62/453,413) 2017-02-01

[21] **3,051,697**
[13] A1

[51] **Int.Cl. C01B 3/24 (2006.01) C01B 3/00 (2006.01) C01B 3/02 (2006.01) C01B 3/22 (2006.01) C10G 15/00 (2006.01) C10G 15/08 (2006.01)**

[25] EN
[54] **HYDROCARBON WAVE REFORMER AND METHODS OF USE**
[54] **REFORMEUR A ONDES D'HYDROCARBURES ET PROCEDES D'UTILISATION**

[72] KIELB, ROBERT, US
[71] STANDING WAVE REFORMERS LLC, US
[85] 2019-07-25
[86] 2018-01-31 (PCT/US2018/016226)
[87] (WO2018/144595)
[30] US (62/452,807) 2017-01-31

[21] **3,051,698**
[13] A1

[51] **Int.Cl. B65D 25/10 (2006.01) B65D 85/07 (2017.01) A61F 2/00 (2006.01) A61F 13/00 (2006.01) A61L 27/00 (2006.01) B65D 75/22 (2006.01)**

[25] EN
[54] **PROTECTIVE PACKAGING STRUCTURE FOR COMPRESSIBLE MATERIALS**
[54] **STRUCTURE D'EMBALLAGE DE PROTECTION DESTINEE A DES MATERIAUX COMPRESSIBLES**

[72] JUNG, STEVEN B., US
[71] ETS TECHNOLOGY HOLDING LLC, US
[85] 2019-07-25
[86] 2018-02-07 (PCT/US2018/017250)
[87] (WO2018/148299)
[30] US (62/456,180) 2017-02-08

[21] **3,051,699**
[13] A1

[51] **Int.Cl. A61K 31/185 (2006.01) A61K 31/195 (2006.01) A61K 31/205 (2006.01) C07C 229/00 (2006.01) C07C 229/46 (2006.01) C07C 229/48 (2006.01)**

[25] EN
[54] **METHODS OF TREATING SEIZURE DISORDERS AND PRADER-WILLI SYNDROME**
[54] **METHODES DE TRAITEMENT DE TROUBLES EPILEPTIQUES ET DU SYNDROME DE PRADER-WILLI**

[72] DURING, MATTHEW, US
[71] OVID THERAPEUTICS INC., US
[85] 2019-07-25
[86] 2018-02-08 (PCT/US2018/017382)
[87] (WO2018/148380)
[30] US (62/456,320) 2017-02-08

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[21] **3,051,700**
[13] A1

[51] **Int.Cl. C07K 16/40 (2006.01)**
[25] EN
[54] **ANTI-TRYPTASE ANTIBODIES, COMPOSITIONS THEREOF, AND USES THEREOF**
[54] **ANTICORPS ANTI-TRYPTASE, COMPOSITIONS LES CONTENANT ET LEURS UTILISATIONS**
[72] CHEN, XIAOCHENG, US
[72] DENNIS, MARK, US
[72] JACKMAN, JANET, US
[72] KOERBER, JAMES T., US
[72] LU, MASON, US
[72] MAUN, HENRY R., US
[72] RAJAPAKSA, KATHILA, US
[72] RAMANUJAN, SAROJA, US
[72] STATON, TRACY, US
[72] WU, LAWREN, US
[72] YI, TANGSHENG, US
[71] GENENTECH, INC., US
[85] 2019-07-25
[86] 2018-02-09 (PCT/US2018/017680)
[87] (WO2018/148585)
[30] US (62/457,722) 2017-02-10

[21] **3,051,701**
[13] A1

[51] **Int.Cl. C11D 3/04 (2006.01) C11D 3/16 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 7/06 (2006.01) C11D 7/08 (2006.01) C11D 7/22 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **METHODS FOR MAKING ENCAPSULATE-CONTAINING PRODUCT COMPOSITIONS**
[54] **PROCEDES DE FABRICATION DE COMPOSITIONS DE PRODUIT CONTENANT DES AGENTS D'ENCAPSULATION**
[72] SONG, XINBEI, US
[72] WILDEMUTH, DOUGLAS JAMES, US
[72] KENNEALLY, COREY JAMES, US
[72] VERSTRAETE, PIERRE, BE
[72] FASBENDER, OLIVER, BE
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-07-25
[86] 2018-02-27 (PCT/US2018/019815)
[87] (WO2018/169673)
[30] US (15/460,272) 2017-03-16

[21] **3,051,702**
[13] A1

[51] **Int.Cl. G02B 1/04 (2006.01) B32B 27/40 (2006.01) G02C 7/10 (2006.01)**
[25] EN
[54] **OPTICAL ARTICLES COMPRISING PHOTOCHROMIC POLY(UREA-URETHANE)**
[54] **ARTICLES OPTIQUES COMPRENANT DU POLY (UREE-URETHANE) PHOTOCHROMIQUE**
[72] NIEMI, KEVIN M., US
[72] AMBLER, DAVID MARK, US
[71] YOUNGER MFG. CO. DBA YOUNGER OPTICS, US
[85] 2019-07-25
[86] 2018-03-01 (PCT/US2018/020524)
[87] (WO2018/160885)
[30] US (62/465,639) 2017-03-01

[21] **3,051,703**
[13] A1

[51] **Int.Cl. H04W 72/12 (2009.01)**
[25] EN
[54] **HIGH RELIABILITY LOW LATENCY CONFIGURATION FOR WIRELESS COMMUNICATIONS SYSTEMS**
[54] **CONFIGURATION A FAIBLE LATENCE A HAUTE FIABILITE POUR SYSTEMES DE COMMUNICATION SANS FIL**
[72] CHEN, WANSHI, US
[72] HOSSEINI, SEYEDKIANOUSH, US
[72] RICO ALVARINO, ALBERTO, US
[72] PATEL, SHIMMAN ARVIND, US
[71] QUALCOMM INCORPORATED, US
[85] 2019-07-25
[86] 2018-03-09 (PCT/US2018/021815)
[87] (WO2018/165592)
[30] US (62/470,187) 2017-03-10
[30] US (15/915,430) 2018-03-08

[21] **3,051,707**
[13] A1

[51] **Int.Cl. B21C 37/08 (2006.01)**
[25] EN
[54] **ASSEMBLY AND WELDING MILL FOR PRODUCTION OF PIPES**
[54] **TRAIN DE MONTAGE ET DE SOUDAGE POUR LA PRODUCTION DE TUBES**
[72] ROMANTSOV, ALEKSANDR IGOREVICH, RU
[72] FEDOROV, MIKHAIL ALEKSANDROVICH, RU
[72] CHERNYAEV, ANTON ALEKSANDROVICH, RU
[72] KOTLOV, ALEKSANDR OLEGOVICH, RU
[71] PUBLICHNOE AKTSIONERNOE OBSHCHESTVO "CHELYABINSKIY TRUBOPROKATNYI ZAVOD" (PAO "CHTPZ"), RU
[85] 2019-07-24
[86] 2017-12-05 (PCT/RU2017/000894)
[87] (WO2018/132034)
[30] RU (2017101392) 2017-01-16

[21] **3,051,708**
[13] A1

[51] **Int.Cl. B60J 7/00 (2006.01) B60P 7/00 (2006.01) F16M 13/00 (2006.01)**
[25] EN
[54] **HINGED FLEXIBLE CABLE COUPLER AND ROLL TARP SYSTEM**
[54] **COUPLEUR DE CABLE FLEXIBLE ARTICULE ET SYSTEME DE BACHE EN ROULEAU**
[72] HUNTER, STEPHEN, US
[72] PICCARD, DOUGLAS, US
[72] MALCOLM, ROBERT, US
[72] PINON, JAMES, US
[71] ROLL-RITE, LLC, US
[85] 2019-07-24
[86] 2018-01-25 (PCT/US2018/015179)
[87] (WO2018/140572)
[30] US (62/450,472) 2017-01-25

Demandes PCT entrant en phase nationale

[21] **3,051,709**
[13] A1

[51] **Int.Cl. G06F 12/14 (2006.01) H04W 40/34 (2009.01) H04L 12/801 (2013.01) H04L 29/06 (2006.01) H04L 29/12 (2006.01)**

[25] EN

[54] **LOCAL INTERCEPTION OF TRAFFIC TO A REMOTE FORWARD PROXY**

[54] **INTERCEPTION LOCALE DE TRAFIC DESTINE A UN MANDATAIRE DE TRANSFERT DISTANT**

[72] LAPIDOUS, EUGENE, US
[72] GHIODEL, SEAN, US
[72] MOLCHANOV, MAXIM, US
[72] PANISSET, EDUARDO, US
[71] ANCHORFREE INC., US
[85] 2019-07-25
[86] 2018-11-30 (PCT/US2018/063249)
[87] (WO2019/108895)
[30] US (62/593,719) 2017-12-01
[30] US (62/618,397) 2018-01-17
[30] US (16/058,567) 2018-08-08
[30] US (16/058,610) 2018-08-08
[30] US (16/058,511) 2018-08-08

[21] **3,051,712**
[13] A1

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 47/00 (2012.01) E21B 47/06 (2012.01)**

[25] EN

[54] **COIL TUBING BOTTOM HOLE ASSEMBLY WITH REAL TIME DATA STREAM**

[54] **ENSEMBLE TROU DE FOND DE TUBE SPIRALE AVEC FLUX DE DONNEES EN TEMPS REEL**

[72] KENNEDY, JEFFREY DOUGLAS MARTIN, CA
[72] GAMROTH, EMMETT DONALD HERBERT, CA
[72] GAMROTH, DARRYL GEORGE HERBERT, CA
[71] KOBOLD CORPORATION, CA
[85] 2019-07-26
[86] 2018-01-24 (PCT/CA2018/050080)
[87] (WO2018/137027)
[30] CA (2,956,371) 2017-01-27

[21] **3,051,713**
[13] A1

[51] **Int.Cl. H05H 7/22 (2006.01) H05H 9/00 (2006.01) G21G 1/10 (2006.01)**

[25] EN

[54] **EXIT WINDOW FOR ELECTRON BEAM IN ISOTOPE PRODUCTION**

[54] **FENETRE DE SORTIE DE FAISCEAU D'ELECTRONS POUR LA PRODUCTION D'ISOTOPES**

[72] ULLRICH, DOUGLAS, CA
[71] CANADIAN LIGHT SOURCE INC., CA
[85] 2019-07-26
[86] 2018-01-26 (PCT/CA2018/050098)
[87] (WO2018/137042)
[30] US (62/450,935) 2017-01-26

[21] **3,051,714**
[13] A1

[51] **Int.Cl. C40B 40/02 (2006.01) C12Q 1/6897 (2018.01) C12N 7/01 (2006.01) C12N 15/63 (2006.01) C12Q 1/68 (2018.01) C40B 20/04 (2006.01) C40B 30/04 (2006.01) C40B 70/00 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **DISPLAY OF MOLECULES ON SILENTLY GENETICALLY ENCODED NANOSCALE CARRIERS FOR DETERMINING SYNERGISTIC MOLECULAR INTERACTIONS**

[54] **PRESENTATION DE MOLECULES SUR DES NANOSUPPORTS GENETIQUEMENT CODES SILENCIEUSEMENT POUR DETERMINER DES INTERACTIONS MOLECULAIRES SYNERGIQUES**

[72] DERDA, RATMIR, CA
[72] BENNETT, NICHOLAS, CA
[72] SARKAR, SUSMITA, CA
[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2019-07-26
[86] 2018-01-31 (PCT/CA2018/050113)
[87] (WO2018/141058)
[30] US (62/452,744) 2017-01-31

[21] **3,051,716**
[13] A1

[51] **Int.Cl. E01C 13/02 (2006.01)**

[25] EN

[54] **RIDING SURFACE AND METHOD FOR CONSTRUCTING A RIDING SURFACE**

[54] **SOL EQUESTRE ET PROCEDE DE CONSTRUCTION D'UN SOL EQUESTRE**

[72] BACHER, WOLFGANG, DE
[72] HOEFLER, ROBERT, DE
[71] BACHER, WOLFGANG, DE
[85] 2019-07-26
[86] 2017-12-28 (PCT/DE2017/200140)
[87] (WO2018/141321)
[30] DE (10 2017 201 564.0) 2017-01-31
[30] DE (10 2017 202 251.5) 2017-02-13
[30] DE (10 2017 212 824.0) 2017-07-26

[21] **3,051,717**
[13] A1

[51] **Int.Cl. B23Q 15/00 (2006.01) B07C 5/34 (2006.01) B23D 59/00 (2006.01) B23Q 17/20 (2006.01) B23Q 17/24 (2006.01) G01N 25/18 (2006.01) G01N 25/20 (2006.01) G01N 33/20 (2019.01) G01N 33/46 (2006.01) G05B 19/401 (2006.01) G05B 19/4093 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING A POWER TOOL AND POWER TOOL CONFIGURED FOR CARRYING OUT THE METHOD**

[54] **PROCEDE DE COMMANDE D'UN OUTIL ELECTRIQUE ET OUTIL ELECTRIQUE ADAPTE A LA MISE EN ~UVRE DU PROCEDE**

[72] BINDHAMMER, MARKUS, DE
[71] SCHEPPACH FABRIKATION VON HOLZBEARBEITUNGSMASCHINEN GMBH, DE
[85] 2019-07-26
[86] 2017-11-20 (PCT/EP2017/025338)
[87] (WO2018/162020)
[30] EP (17020094.3) 2017-03-10

PCT Applications Entering the National Phase

[21] **3,051,718**
[13] A1

[51] **Int.Cl. H04H 60/31 (2009.01) H04H 60/66 (2009.01) H04H 60/91 (2009.01) H04N 21/41 (2011.01) H04N 21/442 (2011.01) H04N 21/61 (2011.01) H04N 21/658 (2011.01) H03M 7/40 (2006.01)**

[25] EN

[54] **VIEWING DATA TRANSFER USING BARCODE OR QR CODE AND SIGNAL CAPTURE DEVICE**

[54] **TRANSFERT DE DONNEES DE VISUALISATION A L'AIDE D'UN CODE A BARRES OU D'UN CODE QR ET D'UN DISPOSITIF DE CAPTURE DE SIGNAUX**

[72] SOULIER, JULIEN, FR
[71] SMARDTV SA, CH
[85] 2019-07-26
[86] 2017-07-31 (PCT/EP2017/069332)
[87] (WO2018/024679)
[30] EP (16306015.5) 2016-08-04

[21] **3,051,719**
[13] A1

[51] **Int.Cl. F16D 59/02 (2006.01) F16D 65/00 (2006.01)**

[25] EN

[54] **ELECTROMAGNETICALLY ACTUABLE BRAKE ARRANGEMENT FOR BRAKING A ROTABLY MOUNTED SHAFT**

[54] **SYSTEME DE FREINAGE A COMMANDE ELECTROMAGNETIQUE POUR LE FREINAGE D'UN ARBRE MONTE A ROTATION**

[72] FICHTNER-PFLAUM, GEROLF, DE
[71] SEW-EURODRIVE GMBH & CO. KG, DE
[85] 2019-07-26
[86] 2018-01-16 (PCT/EP2018/025011)
[87] (WO2018/141481)
[30] DE (10 2017 000 846.9) 2017-01-31

[21] **3,051,720**
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6869 (2018.01)**

[25] EN

[54] **NOVEL SPIKE-IN OLIGONUCLEOTIDES FOR NORMALIZATION OF SEQUENCE DATA**

[54] **NOUVEAUX OLIGONUCLEOTIDES DE TYPE "SPIKE-IN" DESTINES A LA NORMALISATION DE DONNEES DE SEQUENCE**

[72] NODINE, MICHAEL DOUGLAS, AT
[71] GMI - GREGOR-MENDEL-INSTITUTE FUR MOLEKULARE PFLANZENBIOLOGIE GMBH, AT
[85] 2019-07-26
[86] 2018-01-29 (PCT/EP2018/052127)
[87] (WO2018/138334)
[30] EP (17153689.9) 2017-01-30

[21] **3,051,721**
[13] A1

[51] **Int.Cl. A23L 3/00 (2006.01) A23L 3/18 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR CONTINUOUS PROCESSING WITH A PULSED ELECTRIC FIELD**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT CONTINU AU MOYEN D'UN CHAMP ELECTRIQUE PULSE**

[72] TOPFL, STEFAN, DE
[72] HEINZ, VOLKER, DE
[72] ISAAK, JOHANN, DE
[72] STUTE, MARTIN, DE
[71] DEUTSCHES INSTITUT FUR LEBENSMITTELTECHNIK E.V., DE
[85] 2019-07-26
[86] 2018-01-29 (PCT/EP2018/052170)
[87] (WO2018/138361)
[30] DE (20 2017 100 453.8) 2017-01-27

[21] **3,051,722**
[13] A1

[51] **Int.Cl. B01J 23/86 (2006.01) B01J 25/02 (2006.01) B01J 35/00 (2006.01) B01J 35/02 (2006.01) B01J 35/10 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A PELLETT, PELLETT, CATALYST CHARGE, AND STATIC MIXER**

[54] **PROCEDE DE PRODUCTION D'UN GRAIN, GRAIN, CHARGE DE CATALYSEUR ET MELANGEUR STATIQUE**

[72] CHOI, BYOUNGKWON, KR
[72] KIM, JONGKWANG, KR
[72] BAE, JUNGSUK, KR
[72] TILLMANN, ANDREAS, DE
[72] TORKUHL, LARS, DE
[72] BETON, DIDIER, DE
[72] KOLVENBACH, ROBIN, DE
[71] ALANTUM EUROPE GMBH, DE
[85] 2019-07-26
[86] 2018-01-30 (PCT/EP2018/052238)
[87] (WO2018/141729)
[30] EP (17154045.3) 2017-01-31

[21] **3,051,723**
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01)**

[25] EN

[54] **CONTROL OF UPLINK DATA TRANSMISSION**

[54] **COMMANDE DE TRANSMISSION DE DONNEES DE LIAISON MONTANTE**

[72] ARZELIER, CLAUDE JEAN-FREDERIC, CA
[72] BARRETT, STEPHEN JOHN, CA
[72] FAURIE, RENE, CA
[72] BACHMAN, KAREN LYNN, CA
[71] BLACKBERRY LIMITED, CA
[71] 2236008 ONTARIO INC., CA
[85] 2019-07-26
[86] 2018-01-30 (PCT/EP2018/052305)
[87] (WO2018/138382)
[30] US (15/419,321) 2017-01-30

Demandes PCT entrant en phase nationale

[21] **3,051,724**
[13] A1

[51] **Int.Cl. A61K 31/7125 (2006.01) A61K 9/00 (2006.01) A61K 9/113 (2006.01) A61K 47/20 (2006.01) A61K 47/44 (2017.01) A61P 27/02 (2006.01)**

[25] EN

[54] **STERILE FORMULATION COMPRISING A STABLE PHOSPHOROTHIOATE OLIGONUCLEOTIDE**

[54] **FORMULATION STERILE COMPRENANT UN OLIGONUCLEOTIDE PHOSPHOROTHIOATE STABLE**

[72] VIAUD, ERIC, CH

[72] FERRY, ANTOINE, FR

[72] MISSIAEN, CARLA, BE

[72] VERCAMMEN, JO, BE

[71] GENE SIGNAL INTERNATIONAL SA, CH

[85] 2019-07-26

[86] 2018-02-02 (PCT/EP2018/052663)

[87] (WO2018/141908)

[30] EP (17154670.8) 2017-02-03

[30] US (15/423,964) 2017-02-03

[21] **3,051,725**
[13] A1

[51] **Int.Cl. A61K 31/4402 (2006.01) A61K 9/08 (2006.01) A61K 47/32 (2006.01) A61P 27/16 (2006.01)**

[25] EN

[54] **INTRANASAL COMPOSITION COMPRISING BETAHISTINE**

[54] **COMPOSITION INTRANASALE COMPRENANT DE LA BETAHISTINE**

[72] WRAIGHT, CHRISTOPHER JOHN, AU

[72] MEYER, THOMAS, CH

[71] OTOLANUM AG, CH

[85] 2019-07-26

[86] 2018-02-02 (PCT/EP2018/052695)

[87] (WO2018/141922)

[30] US (62/453,931) 2017-02-02

[21] **3,051,744**
[13] A1

[51] **Int.Cl. A01K 15/02 (2006.01) A01K 29/00 (2006.01) A63H 33/00 (2006.01) A63H 33/08 (2006.01) F16C 11/06 (2006.01) F16D 1/12 (2006.01)**

[25] EN

[54] **SECURING DEVICE FOR ANIMAL CHEW**

[54] **DISPOSITIF DE FIXATION D'UN OS A MACHER POUR ANIMAUX**

[72] KENDALL, JOHN, US

[71] KENDALL, JOHN, US

[85] 2019-07-23

[86] 2018-01-28 (PCT/US2018/015623)

[87] (WO2018/144349)

[30] US (62/452,857) 2017-01-31

[21] **3,051,761**
[13] A1

[51] **Int.Cl. H03M 13/11 (2006.01) H04L 1/00 (2006.01)**

[25] EN

[54] **INFORMATION PROCESSING METHOD AND COMMUNICATIONS APPARATUS**

[54] **PROCEDE DE TRAITEMENT DE L'INFORMATION ET APPAREIL DE COMMUNICATION**

[72] ZHENG, CHEN, CN

[72] MA, LIANG, CN

[72] LIU, XIAOJIAN, CN

[72] WEI, YUEJUN, CN

[72] ZENG, XIN, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2019-07-26

[86] 2017-07-13 (PCT/CN2017/092877)

[87] (WO2018/201609)

[30] CN (201710314217.3) 2017-05-05

[30] CN (201710381396.2) 2017-05-25

[30] CN (PCT/CN2017/086227) 2017-05-26

[30] CN (PCT/CN2017/087073) 2017-06-02

[30] CN (PCT/CN2017/087830) 2017-06-09

[30] CN (PCT/CN2017/087943) 2017-06-12

[30] CN (PCT/CN2017/090417) 2017-06-27

[21] **3,051,764**
[13] A1

[51] **Int.Cl. C07D 513/04 (2006.01) A61K 31/542 (2006.01) A61P 25/28 (2006.01) C07D 498/04 (2006.01)**

[25] EN

[54] **INHIBITORS OF BETA SECRETASE**

[54] **INHIBITEURS DE BETA-SECRETASE**

[72] VOS, ANN MARLEEN, BE

[72] OEHLRICH, DANIEL, BE

[72] GIJSEN, HENRICUS JACOBUS MARIA, BE

[72] WATTS, KARL SHAWN, US

[72] BHAT, SATHESH PANGALA, US

[72] VAN DEN KEYBUS, FRANS ALFONS MARIA, BE

[71] JANSSEN PHARMACEUTICA NV, BE

[85] 2019-07-26

[86] 2018-03-06 (PCT/EP2018/055401)

[87] (WO2018/162443)

[30] US (62/468,052) 2017-03-07

[30] EP (17189762.2) 2017-09-07

[21] **3,051,765**
[13] A1

[51] **Int.Cl. C07B 59/00 (2006.01) C07F 3/12 (2006.01)**

[25] EN

[54] **IN VIVO STABLE HG-197(M) COMPOUNDS, METHOD FOR THE PRODUCTION THEREOF AND USE THEREOF IN NUCLEAR MEDICAL DIAGNOSTICS AND ENDORADIONUCLIDE THERAPY (THERANOSTICS)**

[54] **COMPOSES DE HG-197(M) STABLES IN VIVO, PROCEDE DE PRODUCTION ASSOCIE ET UTILISATION ASSOCIEE EN DIAGNOSTIC MEDICAL NUCLEAIRE ET EN THERAPIE UTILISANT DES ENDORADIONUCLEIDES (THERANOSTIC)**

[72] PIETZSCH, HANS-JURGEN, DE

[72] WALTHER, MARTIN, DE

[72] WUNSCH, THOMAS, DE

[71] HELMHOLTZ-ZENTRUM DRESDEN - ROSSENDORF E.V., DE

[85] 2019-07-26

[86] 2018-02-07 (PCT/EP2018/052996)

[87] (WO2018/146116)

[30] EP (17155213.6) 2017-02-08

PCT Applications Entering the National Phase

[21] **3,051,766**
[13] A1

[51] **Int.Cl. C10G 2/00 (2006.01) B01J 23/75 (2006.01) B01J 23/889 (2006.01) B01J 37/00 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) B01J 37/16 (2006.01) B01J 37/18 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING A FISCHER-TROPSCH SYNTHESIS CATALYST**

[54] **PROCEDE DE PRODUCTION D'UN CATALYSEUR DE SYNTHESE DE FISCHER-TROPSCH**

[72] OJEDA PINEDA, MANUEL, GB

[72] PATERSON, ALEXANDER JAMES, GB

[71] BP P.L.C., GB

[85] 2019-07-26

[86] 2018-02-09 (PCT/EP2018/053350)

[87] (WO2018/146277)

[30] GB (1702251.8) 2017-02-10

[21] **3,051,770**
[13] A1

[51] **Int.Cl. A21D 8/04 (2006.01) A21D 10/00 (2006.01) C12N 9/20 (2006.01)**

[25] EN

[54] **LIPOLYTIC ENZYME FOR USE IN BAKING**

[54] **ENZYME LIPOLYTIQUE A UTILISER POUR LA CUISSON**

[72] OESTDAL, HENRIK, DK

[72] LANDVIK, SARA, MARIA, DK

[72] OLINSKI, ROBERT, PIOTR, DK

[72] AGACHE, EVELIEN, BE

[72] VAN WINCKEL, BRUNO, BE

[72] ARNAUT, FILIP, BE

[71] NOVOZYMES A/S, DK

[71] PURATOS NV/SA, BE

[85] 2019-07-26

[86] 2018-02-19 (PCT/EP2018/054015)

[87] (WO2018/150021)

[30] EP (17156925.4) 2017-02-20

[21] **3,051,776**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 9/14 (2006.01) A61K 31/575 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY**

[54] **COMBINAISON D'UN AGONISTE PPAR AVEC UN AGONISTE FXR**

[72] NOEL, BENOIT, FR

[72] WALCZAK, ROBERT, FR

[72] BELANGER, CAROLE, FR

[71] GENFIT, FR

[85] 2019-07-26

[86] 2018-02-21 (PCT/EP2018/054305)

[87] (WO2018/153933)

[30] EP (17157279.5) 2017-02-21

[30] EP (17162161.8) 2017-03-21

[30] EP (17165131.8) 2017-04-05

[21] **3,051,777**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04W 12/02 (2009.01) H04W 12/04 (2009.01) H04W 12/06 (2009.01) H04L 9/08 (2006.01) H04L 9/32 (2006.01)**

[25] EN

[54] **ENCRYPTING DATA IN A PRE-ASSOCIATED STATE**

[54] **CHIFFREMENT DE DONNEES DANS UN ETAT DE PRE-ASSOCIATION**

[72] MCCANN, STEPHEN, GB

[72] MONTEMURRO, MICHAEL PETER, CA

[72] LEPP, JAMES RANDOLPH WINTER, CA

[71] BLACKBERRY LIMITED, CA

[85] 2019-07-26

[86] 2018-02-21 (PCT/EP2018/054307)

[87] (WO2018/188841)

[30] US (15/485,786) 2017-04-12

[21] **3,051,778**
[13] A1

[51] **Int.Cl. E05F 15/60 (2015.01)**

[25] EN

[54] **CONNECTED ENTRANCE SYSTEM**

[54] **SYSTEME D'ENTREE CONNECTE**

[72] DREYER, ROGER, SE

[71] ASSA ABLOY ENTRANCE SYSTEMS AB, SE

[85] 2019-07-26

[86] 2018-03-06 (PCT/EP2018/055392)

[87] (WO2018/162436)

[30] SE (1730060-9) 2017-03-07

[21] **3,051,779**
[13] A1

[51] **Int.Cl. C07D 513/04 (2006.01) A61K 31/542 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **INHIBITORS OF BETA SECRETASE**

[54] **INHIBITEURS DE BETA-SECRETASE**

[72] VAN BRANDT, SVEN FRANCISCUS ANNA, BE

[72] GIJSEN, HENRICUS JACOBUS MARIA, BE

[72] VOS, ANN MARLEEN, BE

[72] OEHLRICH, DANIEL, BE

[71] JANSSEN PHARMACEUTICA NV, BE

[85] 2019-07-26

[86] 2018-03-06 (PCT/EP2018/055403)

[87] (WO2018/162445)

[30] US (62/468070) 2017-03-07

[30] EP (17189778.8) 2017-09-07

[21] **3,051,781**
[13] A1

[51] **Int.Cl. A47J 31/54 (2006.01) G05D 23/19 (2006.01)**

[25] EN

[54] **BEVERAGE PREPARATION MACHINE AND METHOD FOR THE CONTROL OF A THERMAL CONDITIONING DEVICE OF SUCH A BEVERAGE PREPARATION MACHINE**

[54] **MACHINE DE PREPARATION DE BOISSONS ET PROCEDE DE COMMANDE D'UN DISPOSITIF DE CONDITIONNEMENT THERMIQUE D'UNE TELLE MACHINE DE PREPARATION DE BOISSONS**

[72] ARGYRIS, IOANNIS, CH

[72] GRANGER, ERIC, CH

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2019-07-26

[86] 2018-03-08 (PCT/EP2018/055692)

[87] (WO2018/162609)

[30] EP (17160448.1) 2017-03-10

[30] EP (17165487.4) 2017-04-07

Demandes PCT entrant en phase nationale

[21] **3,051,782**
[13] A1

[51] **Int.Cl. C09K 21/04 (2006.01) A62C 27/00 (2006.01) A62C 31/00 (2006.01) A62D 1/00 (2006.01) B64D 1/16 (2006.01) C09K 21/06 (2006.01)**

[25] FR

[54] **FLAME RETARDANT PRODUCT, METHOD FOR MANUFACTURING SUCH A PRODUCT AND EXTINGUISHING DEVICE COMPRISING SUCH A PRODUCT**

[54] **PRODUIT RETARDATEUR DE FLAMME, PROCEDE DE FABRICATION D'UN TEL PRODUIT ET DISPOSITIF D'EXTINCTION COMPORTANT UN TEL PRODUIT**

[72] ISSARTEL, ERIC, FR

[71] EITL, FR

[85] 2019-07-22

[86] 2018-01-22 (PCT/EP2018/051412)

[87] (WO2018/134393)

[30] FR (1750513) 2017-01-23

[21] **3,051,783**
[13] A1

[51] **Int.Cl. G01N 27/90 (2006.01)**

[25] FR

[54] **TUBE INSPECTION UNIT WITH EDDY CURRENT PROBE AND CORRESPONDING METHOD**

[54] **ENSEMBLE D'INSPECTION DE TUBES AVEC UNE SONDE A COURANTS DE FOUCAULT ET PROCEDE ASSOCIE**

[72] KERNIN, YANN, FR

[72] PIRIOU, MARC, FR

[72] DECITRE, JEAN-MARC, FR

[72] NOZAIS, FREDERIC, FR

[71] FRAMATOME, FR

[85] 2019-07-22

[86] 2018-02-06 (PCT/EP2018/052916)

[87] (WO2018/146081)

[30] FR (17 51124) 2017-02-10

[21] **3,051,784**
[13] A1

[51] **Int.Cl. C25C 3/14 (2006.01)**

[25] FR

[54] **DEVICE FOR SUPPLYING ALUMINA TO AN ELECTROLYTIC CELL**

[54] **DISPOSITIF D'ALIMENTATION EN ALUMINE D'UNE CUVE D'ELECTROLYSE**

[72] RENAUDIER, STEEVE, FR

[72] BECASSE, SEBASTIEN, FR

[72] BRUN, FREDERIC, FR

[72] COTE, PATRICE, CA

[72] FIGUE, JEAN-PIERRE, FR

[71] RIO TINTO ALCAN INTERNATIONAL LIMITED, CA

[85] 2019-07-23

[86] 2018-01-22 (PCT/CA2018/050070)

[87] (WO2018/137025)

[30] FR (17/00067) 2017-01-24

[21] **3,051,785**
[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **IMPROVED USE OF BOTULINUM NEUROTOXIN IN THE TREATMENT OF SIALORRHEA**

[54] **UTILISATION AMELIOREE DE NEUROTOXINE BOTULIQUE DANS LE TRAITEMENT DE LA SIALORRHEE**

[72] CSIKOS, JANOS, DE

[72] PULTE, IRENA, DE

[72] ALTHAUS, MICHAEL, DE

[72] KRUEER, MARKUS, DE

[72] WEGENER, NICO, DE

[71] MERZ PHARMA GMBH & CO. KGAA, DE

[85] 2019-07-26

[86] 2018-03-19 (PCT/EP2018/056850)

[87] (WO2018/172264)

[30] EP (17162719.3) 2017-03-24

[21] **3,051,786**
[13] A1

[51] **Int.Cl. B64D 31/06 (2006.01) B64C 27/00 (2006.01)**

[25] FR

[54] **PROCEDE ET SYSTEME DE COMMANDE D'UN DISPOSITIF D'URGENCE**

[54] **METHOD AND SYSTEM FOR CONTROLLING AN EMERGENCY DEVICE**

[72] THIRIET, ROMAIN, FR

[72] BAZET, JEAN MICHEL, FR

[72] FREALLE, JEAN-LUC CHARLES GILBERT, FR

[72] DARFEUIL, PIERRE, FR

[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2019-07-23

[86] 2018-02-14 (PCT/FR2018/050358)

[87] (WO2018/150138)

[30] FR (1751219) 2017-02-15

[21] **3,051,788**
[13] A1

[51] **Int.Cl. E01F 13/00 (2006.01) E01F 9/692 (2016.01) E01F 13/02 (2006.01) E01F 13/12 (2006.01)**

[25] FR

[54] **CONCRETE BLOCK, PARTICULARLY ACCESS-DENIAL BOLLARD, WITH ADDITIONAL FUNCTIONALITIES**

[54] **BLOC DE BETON, EN PARTICULIER BLOC ANTI-FRANCHISSEMENT AVEC FONCTIONNALITES SUPPLEMENTAIRES**

[72] FEGHOUL, ABDLA, FR

[71] FEGHOUL, ABDLA, FR

[85] 2019-07-23

[86] 2018-01-26 (PCT/EP2018/051979)

[87] (WO2018/138276)

[30] FR (1770085) 2017-01-26

PCT Applications Entering the National Phase

[21] **3,051,789**
[13] A1

[51] **Int.Cl. A61K 31/216 (2006.01) A61K 31/7048 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01)**

[25] FR

[54] **PHARMACEUTICAL ACTIVE INGREDIENT AND USE THEREOF, IN PARTICULAR FOR THE PREVENTION AND TREATMENT OF METABOLIC DISORDERS IN HUMANS AND ANIMALS**

[54] **PRINCIPE ACTIF PHARMACEUTIQUE ET UTILISATION EN PARTICULIER DANS LA PREVENTION ET LE TRAITEMENT DES DEREGLEMENTS METABOLIQUES CHEZ L'HOMME ET L'ANIMAL**

[72] PELTIER, SEBASTIEN, FR

[72] CHAVANELLE, VIVIEN, FR

[72] LE JOUBIOUX, FLORIAN, FR

[72] SIRVENT, PASCAL, FR

[72] MAUGARD, THIERRY, FR

[71] VALBIOTIS, FR

[71] UNIVERSITE CLERMONT AUVERGNE, FR

[71] UNIVERSITE DE LA ROCHELLE, FR

[71] CNRS, FR

[85] 2019-07-23

[86] 2018-02-13 (PCT/EP2018/053520)

[87] (WO2018/149812)

[30] FR (1770144) 2017-02-16

[21] **3,051,790**
[13] A1

[51] **Int.Cl. H02K 19/34 (2006.01) H02K 3/28 (2006.01)**

[25] FR

[54] **ELECTRIC MACHINE POWERED AT LOW VOLTAGE AND ASSOCIATED MULTICELLULAR TRACTION CHAIN**

[54] **MACHINE ELECTRIQUE ALIMENTEE EN BASSE TENSION ET CHAINE DE TRACTION MULTICELLULAIRE ASSOCIEE**

[72] HOANG, EMMANUEL, FR

[72] LABOURE, ERIC, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2019-07-23

[86] 2018-02-16 (PCT/EP2018/053940)

[87] (WO2018/149996)

[30] FR (1751280) 2017-02-17

[21] **3,051,791**
[13] A1

[51] **Int.Cl. A61B 5/0205 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **VITAL SIGNS MONITOR/MEASUREMENT APPARATUS**

[54] **APPAREIL DE SURVEILLANCE/MESURE DES SIGNES VITAUX**

[72] ONTIVEROS, JULIO ENRIQUE GUERRERO, GB

[71] METIX LIMITED, GB

[85] 2019-07-26

[86] 2017-01-27 (PCT/GB2017/050223)

[87] (WO2017/130000)

[30] GB (1601593.5) 2016-01-28

[30] GB (1601591.9) 2016-01-28

[21] **3,051,795**
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01)**

[25] EN

[54] **APPARATUS, METHOD, AND SYSTEM FOR ALIGNMENT OF 3D DATASETS**

[54] **APPAREIL, PROCEDE ET SYSTEME D'ALIGNEMENT D'ENSEMBLES DE DONNEES 3D**

[72] SELVIAH, DAVID R., GB

[72] WILLMAN, EERO, GB

[71] UCL BUSINESS PLC, GB

[85] 2019-07-26

[86] 2018-01-26 (PCT/GB2018/050233)

[87] (WO2018/138516)

[30] GB (1701383.0) 2017-01-27

[21] **3,051,797**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **BINDING AGENTS**

[54] **AGENTS LIANTS**

[72] FINLAY, WILLIAM JAMES JONATHAN, GB

[71] ULTRAHUMAN ONE LIMITED, GB

[85] 2019-07-26

[86] 2018-01-26 (PCT/GB2018/050239)

[87] (WO2018/138521)

[30] GB (1701351.7) 2017-01-27

[30] GB (1713296.0) 2017-08-18

[21] **3,051,798**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01)**

[25] EN

[54] **HSMI DISEASE RESISTANCE IN SALMONIDS**

[54] **RESISTANCE AUX MALADIES HSMI CHEZ LES SALMONIDES**

[72] TORGERSEN, JACOB SEILO, NO

[72] BRUHEIM, TORKJEL, NO

[72] EMILSEN, VIBEKE EVENSTAD, NO

[72] MOEN, THOMAS, NO

[72] SANTI, NINA, NO

[71] AQUAGEN AS, NO

[85] 2019-07-26

[86] 2018-01-30 (PCT/GB2018/050252)

[87] (WO2018/138527)

[30] GB (1701480.4) 2017-01-30

[21] **3,051,799**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/69 (2006.01)**

[25] EN

[54] **TOPICAL COMPOSITION**

[54] **COMPOSITION TOPIQUE**

[72] CRUTCHLEY, NIGEL, GB

[72] GEORGIOU, MICHELLE, GB

[71] MC2 THERAPEUTICS LIMITED, GB

[85] 2019-07-26

[86] 2018-01-30 (PCT/GB2018/050263)

[87] (WO2018/142117)

[30] GB (1701583.5) 2017-01-31

[21] **3,051,800**
[13] A1

[51] **Int.Cl. E21B 43/08 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **DOWNHOLE FLOW CONTROL DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE COMMANDE D'ECOULEMENT EN PROFONDEUR DE FORAGE**

[72] ISMAIL, ISMARULLIZAM MOHD, GB

[72] GREEN, ANNABEL, GB

[72] WEBSTER, OLIVER, GB

[72] PATTON, DAMIEN GERARD, GB

[72] GARDEN, STEPHEN, GB

[71] SWELLFIX UK LIMITED, GB

[85] 2019-07-26

[86] 2018-01-30 (PCT/GB2018/050267)

[87] (WO2018/142118)

[30] GB (1701590.0) 2017-01-31

Demandes PCT entrant en phase nationale

[21] **3,051,801**
[13] A1

[51] **Int.Cl. C07K 14/22 (2006.01) A61K 47/50 (2017.01) A61K 39/095 (2006.01)**

[25] EN

[54] **NEISSERIA MENINGITIDIS COMPOSITIONS AND METHODS THEREOF**

[54] **COMPOSITIONS DE NEISSERIA MENINGITIDIS ET METHODES ASSOCIEES**

[72] JANSEN, KATHRIN UTE, US

[72] ANDERSON, ANNALIESA SYBIL, US

[72] ABSALON, JUDITH, US

[72] BEESLAAR, JOHANNES FREDERIK, GB

[72] FARLEY, JOHN ERWIN, US

[72] FLETCHER, LEAH DIANE, US

[72] HARRIS, SHANNON LEA, US

[72] JONES, THOMAS RICHARD, US

[72] KHANDKE, LAKSHMI, US

[72] LIBERATOR, PAUL, US

[72] PEREZ, JOHN LANCE, US

[72] PHELAN, LYNN MARIE, US

[72] ZLOTNICK, GARY WARREN, US

[72] COOPER, DAVID, US

[72] ASTE-AMEZAGA, JOSE MIGUEL, US

[72] KANEVSKY, ISIS, US

[71] PFIZER INC., US

[85] 2019-07-26

[86] 2018-01-30 (PCT/IB2018/050563)

[87] (WO2018/142280)

[30] US (62/452,963) 2017-01-31

[30] US (62/503,295) 2017-05-08

[30] US (62/613,945) 2018-01-05

[30] US (62/623,233) 2018-01-29

[21] **3,051,802**
[13] A1

[51] **Int.Cl. F04D 17/06 (2006.01) F01D 5/04 (2006.01) F01D 5/14 (2006.01) F04D 17/10 (2006.01) F04D 29/30 (2006.01) F04D 29/68 (2006.01)**

[25] FR

[54] **WHEEL BLADE FOR A TURBOMACHINE, COMPRISING A WINGLET AT ITS TIP AND AT THE LEADING EDGE**

[54] **PALE DE ROUET POUR TURBOMACHINE, COMPRENANT UNE AILERETTE A SON SOMMET ET AU BORD D'ATTAQUE**

[72] ARTUS, FABIEN, FR

[72] BOUCHIA, YOUSSEF, FR

[72] TARNOWSKI, LAURENT PIERRE, FR

[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2019-07-24

[86] 2018-01-25 (PCT/FR2018/050167)

[87] (WO2018/138438)

[30] FR (17 50685) 2017-01-27

[21] **3,051,803**
[13] A1

[51] **Int.Cl. H02J 4/00 (2006.01) B64D 41/00 (2006.01)**

[25] FR

[54] **METHOD AND ARCHITECTURE FOR DISTRIBUTING ON-BOARD POWER IN AN AIRCRAFT**

[54] **PROCEDE ET ARCHITECTURE DE DISTRIBUTION DE PUISSANCE EMBARQUEE DANS UN AERONEF**

[72] DELAME, CYRILLE, FR

[72] PLATZER, JEAN-PAUL, FR

[72] BERANGER, SERGE, FR

[71] LATECOERE, FR

[85] 2019-07-24

[86] 2018-02-20 (PCT/EP2018/054059)

[87] (WO2018/153821)

[30] FR (1751382) 2017-02-22

[21] **3,051,804**
[13] A1

[51] **Int.Cl. G21C 1/32 (2006.01) G21C 15/18 (2006.01)**

[25] FR

[54] **NUCLEAR REACTOR INCORPORATING A PRIMARY SAFETY HEAT EXCHANGER**

[54] **REACTEUR NUCLEAIRE INTEGRANT UN ECHANGEUR DE CHALEUR PRIMAIRE DE SECURITE**

[72] CANDILLIER, LAURENT, FR

[72] COSTANTINI, FREDERIC, FR

[72] FELZIERE, MICHEL, FR

[72] DEMAS, LORRAIN, FR

[71] SOCIETE TECHNIQUE POUR L'ENERGIE ATOMIQUE, FR

[85] 2019-07-25

[86] 2018-01-25 (PCT/EP2018/051875)

[87] (WO2018/138217)

[30] FR (1750649) 2017-01-26

[21] **3,051,805**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) B01J 8/00 (2006.01) B01J 19/24 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ENHANCING PHASE CONTACT AND CHEMICAL REACTIONS**

[54] **APPAREIL ET PROCEDE POUR AMELIORER UN CONTACT DE PHASE ET DES REACTIONS CHIMIQUES**

[72] CAVAGLIA, GIULIANO, IT

[71] BOB SERVICE SRL, IT

[85] 2019-07-26

[86] 2018-02-12 (PCT/IB2018/050850)

[87] (WO2018/146647)

[30] IT (102017000015144) 2017-02-10

[21] **3,051,806**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61B 17/32 (2006.01)**

[25] EN

[54] **VITRECTOMY PROBE WITH ROTATIONAL HELICAL CUTTER**

[54] **SONDE DE VITRECTOMIE AVEC DISPOSITIF DE COUPE HELICOIDAL ROTATIF**

[72] VALENCIA, SALOMON, US

[71] NOVARTIS AG, CH

[85] 2019-07-26

[86] 2018-03-19 (PCT/IB2018/051835)

[87] (WO2018/178804)

[30] US (62/477,360) 2017-03-27

PCT Applications Entering the National Phase

[21] **3,051,807**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 31/04 (2006.01) A61P 37/08 (2006.01)**

[25] FR

[54] **FECAL MICROBIOTA FOR TREATING PATIENTS UNDERGOING A HEMATOPOIETIC STEM CELL TRANSPLANT**

[54] **MICROBIOTE FECAL POUR TRAITER DES PATIENTS SUBISSANT UNE GREFFE DE CELLULES SOUCHES HEMATOPOIETIQUES**

[72] MOHTY, MOHAMAD, FR

[72] SOKOL, HARRY, FR

[71] SORBONNE UNIVERSITE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] ASSISTANCE PUBLIQUE-HOPITAUX DE PARIS, FR

[85] 2019-07-25

[86] 2018-01-26 (PCT/EP2018/051941)

[87] (WO2018/138251)

[30] FR (1750629) 2017-01-26

[21] **3,051,808**
[13] A1

[51] **Int.Cl. B32B 13/04 (2006.01) B29D 99/00 (2010.01) B27N 3/06 (2006.01) B32B 3/06 (2006.01) B32B 3/30 (2006.01) B32B 5/16 (2006.01) B32B 5/22 (2006.01) B32B 5/24 (2006.01) B32B 5/30 (2006.01) B32B 7/04 (2019.01) B32B 7/08 (2019.01) B32B 7/12 (2006.01) B32B 13/12 (2006.01) B32B 21/02 (2006.01) B32B 27/26 (2006.01) B32B 27/28 (2006.01) B32B 29/04 (2006.01) B32B 37/14 (2006.01) B44C 1/00 (2006.01) E04B 1/14 (2006.01) E04C 2/22 (2006.01) E04C 2/24 (2006.01)**

[25] EN

[54] **BOARD AND METHOD OF MANUFACTURING A BOARD**

[54] **PLANCHE ET PROCEDE DE FABRICATION D'UNE PLANCHE**

[72] CLEMENT, BENJAMIN, BE

[71] UNILIN, BVBA, BE

[85] 2019-07-26

[86] 2018-03-21 (PCT/IB2018/051903)

[87] (WO2018/172959)

[30] BE (BE2017/5181) 2017-03-21

[30] US (62/564,719) 2017-09-28

[21] **3,051,809**
[13] A1

[51] **Int.Cl. B29B 17/02 (2006.01) B26D 3/00 (2006.01) B29B 17/04 (2006.01)**

[25] EN

[54] **TIRE DISRUPTOR DEVICE**

[54] **DISPOSITIF D'INTERRUPTION DE PNEU**

[72] ZUNINO, DOMENICO, IT

[71] PNEUS JET RECYCLING SRL, IT

[85] 2019-07-26

[86] 2018-01-31 (PCT/IT2018/000013)

[87] (WO2018/150444)

[30] IT (102017000001260) 2017-02-14

[30] IT (102017000017212) 2017-02-16

[21] **3,051,815**
[13] A1

[51] **Int.Cl. B60L 53/12 (2019.01) B60L 53/38 (2019.01) B60L 5/00 (2006.01)**

[25] EN

[54] **PARKING ASSISTANCE METHOD AND PARKING ASSISTANCE DEVICE**

[54] **PROCEDE ET DISPOSITIF D'AIDE AU STATIONNEMENT**

[72] TSUKAMOTO, YUKINORI, JP

[71] NISSAN MOTOR CO., LTD., JP

[85] 2019-07-26

[86] 2017-01-30 (PCT/JP2017/003148)

[87] (WO2018/138907)

[21] **3,051,817**
[13] A1

[51] **Int.Cl. B60L 5/00 (2006.01) H02J 50/10 (2016.01) H01F 38/14 (2006.01)**

[25] EN

[54] **VEHICLE-MOUNTING STRUCTURE FOR CONTACTLESS POWER RECEPTION DEVICE**

[54] **STRUCTURE DE MONTAGE SUR VEHICULE POUR DISPOSITIF DE RECEPTION D'ENERGIE SANS CONTACT**

[72] ASAI, AKIHIRO, JP

[71] NISSAN MOTOR CO., LTD., JP

[85] 2019-07-26

[86] 2017-01-30 (PCT/JP2017/003149)

[87] (WO2018/138908)

[21] **3,051,820**
[13] A1

[51] **Int.Cl. H01F 38/14 (2006.01) H02J 50/12 (2016.01) H02J 7/00 (2006.01)**

[25] EN

[54] **NON-CONTACT POWER SUPPLY COIL UNIT**

[54] **UNITE DE BOBINE D'ALIMENTATION ELECTRIQUE SANS CONTACT**

[72] YAMAUCHI, YUUYA, JP

[71] NISSAN MOTOR CO., LTD., JP

[85] 2019-07-26

[86] 2017-01-30 (PCT/JP2017/003150)

[87] (WO2018/138909)

[21] **3,051,821**
[13] A1

[51] **Int.Cl. B21B 45/02 (2006.01) B21C 51/00 (2006.01)**

[25] EN

[54] **COOLING DEVICE FOR HOT ROLLED STEEL SHEET AND COOLING METHOD FOR THE SAME**

[54] **DISPOSITIF ET PROCEDE DE REFROIDISSEMENT DE TOLE D'ACIER LAMINEE A CHAUD**

[72] HARAGUCHI, YOHICHI, JP

[72] SERIZAWA, YOSHIHIRO, JP

[72] HONDA, TATSURO, JP

[72] TACHIBANA, HISAYOSHI, JP

[72] NAKAGAWA, SUSUMU, JP

[72] TANAKA, KOKI, JP

[72] ISHITSUKA, SHOTA, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2019-07-26

[86] 2017-03-31 (PCT/JP2017/013865)

[87] (WO2018/179449)

Demandes PCT entrant en phase nationale

[21] **3,051,822**
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERFORMING PLANAR INTRA PREDICTION VIDEO CODING**
[54] **SYSTEMES ET PROCEDES DE MISE EN OEUVRE DE CODAGE VIDEO AVEC PREDICTION INTRA-IMAGE PLANAIRE**
[72] MISRA, KIRAN MUKESH, US
[72] ZHAO, JIE, US
[72] SEGALL, CHRISTOPHER ANDREW, US
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2019-07-26
[86] 2017-12-21 (PCT/JP2017/045945)
[87] (WO2018/142795)
[30] US (62/452,879) 2017-01-31

[21] **3,051,823**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/14 (2006.01) H01F 1/147 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING NON-ORIENTED ELECTRICAL STEEL SHEET, METHOD FOR PRODUCING MOTOR CORE, AND MOTOR CORE**
[54] **PROCEDE DE PRODUCTION DE TOLE D'ACIER ELECTROMAGNETIQUE A GRAINS NON ORIENTES, PROCEDE DE PRODUCTION DE NOYAU DE MOTEUR ET NOYAU DE MOTEUR**
[72] ZAIZEN, YOSHIKI, JP
[72] ODA, YOSHIHIKO, JP
[72] OKUBO, TOMOYUKI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2019-07-26
[86] 2018-01-19 (PCT/JP2018/001533)
[87] (WO2018/147044)
[30] JP (2017-019994) 2017-02-07

[21] **3,051,824**
[13] A1

[51] **Int.Cl. C02F 1/28 (2006.01)**
[25] EN
[54] **ACTIVATED CARBON SLURRY SUPPLY METHOD**
[54] **PROCEDE DE FOURNITURE D'UNE SUSPENSION DE CHARBON ACTIF**
[72] MIMA, SATORU, JP
[72] SHIODE, SADAMITSU, JP
[72] OYACHI, HIROYUKI, JP
[72] SUGIURA, KIYOTAKA, JP
[71] METAWATER CO., LTD., JP
[85] 2019-07-26
[86] 2018-01-22 (PCT/JP2018/001808)
[87] (WO2018/163620)
[30] JP (2017-043169) 2017-03-07

[21] **3,051,825**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 9/04 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **THERAPEUTIC AGENT FOR CARDIOMYOPATHY, OLD MYOCARDIAL INFARCTION AND CHRONIC HEART FAILURE**
[54] **AGENT THERAPEUTIQUE POUR LES CARDIOMYOPATHIES, L'INFARCTUS DU MYOCARDE ANCIEN ET L'INSUFFISANCE CARDIAQUE CHRONIQUE**
[72] TAMAI, KATSUTO, JP
[72] SAWA, YOSHIKI, JP
[72] MIYAGAWA, SHIGERU, JP
[72] KIDO, TAKASHI, JP
[72] GOTO, TAKASUMI, JP
[72] YAMAZAKI, TAKEHIKO, JP
[71] STEMRIM INC., JP
[71] OSAKA UNIVERSITY, JP
[85] 2019-07-26
[86] 2018-01-26 (PCT/JP2018/002373)
[87] (WO2018/139562)
[30] JP (2017-013293) 2017-01-27
[30] JP (2017-151788) 2017-08-04

[21] **3,051,826**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 37/02 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **PROPHYLACTIC AND/OR THERAPEUTIC AGENT OF INFECTIOUS DISEASE OR INFLAMMATORY DISEASE**
[54] **AGENT PREVENTIF ET/OU THERAPEUTIQUE CONTRE DES MALADIES INFECTIEUSES OU INFLAMMATOIRES**
[72] SUZUKI, KAZUO, JP
[72] KAMEOKA, YOSUKE, JP
[72] YAMAKAWA, YOSHIO, JP
[72] KISHI, FUKUKO, JP
[72] SUZUKI, OSAMU, JP
[72] KOURA, MINAKO, JP
[72] MATSUDA, JUNICHIRO, JP
[71] A-CLIP INSTITUTE, CO., LTD., JP
[71] NATIONAL INSTITUTES OF BIOMEDICAL INNOVATION, HEALTH AND NUTRITION, JP
[85] 2019-07-26
[86] 2018-01-26 (PCT/JP2018/002576)
[87] (WO2018/139608)
[30] JP (2017-013486) 2017-01-27

[21] **3,051,831**
[13] A1

[51] **Int.Cl. A23L 7/157 (2016.01) A23L 35/00 (2016.01)**
[25] EN
[54] **BREADCRUMB MIX**
[54] **MELANGE DE CHAPELURE**
[72] YAMAZAKI, SHUHEI, JP
[72] OMURA, MASATO, JP
[72] SAKAKIBARA, MICHIIHIRO, JP
[71] NISSHIN FOODS INC., JP
[85] 2019-07-26
[86] 2018-02-05 (PCT/JP2018/003715)
[87] (WO2018/143447)
[30] JP (2017-019214) 2017-02-06

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[21] **3,051,838**
[13] A1

[51] **Int.Cl. A01G 7/04 (2006.01) A01G 9/24 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR CULTIVATING A CROP**
[54] **PROCEDE ET DISPOSITIF DE CULTURE DE PLANTES CULTIVEES**
[72] MEEUWS, GERARDUS JOHANNES JOZEF MARIA, NL
[72] MEEUWS-ABEN, CORNELIA HENRICA PETRONELLA MARIA, NL
[72] KREUGER, MARC, NL
[72] BREUKEL, CORNELIS MARINUS GJISBERTUS ADRIANUS MARIA, NL
[71] PRIVA HOLDING B.V., NL
[85] 2019-07-26
[86] 2018-02-06 (PCT/NL2018/050079)
[87] (WO2018/147728)
[30] NL (2018324) 2017-02-07

[21] **3,051,840**
[13] A1

[51] **Int.Cl. A61K 31/616 (2006.01) A61K 31/12 (2006.01) A61K 31/138 (2006.01) A61K 31/165 (2006.01) A61K 31/415 (2006.01) A61K 35/00 (2006.01)**
[25] EN
[54] **CANCER THERAPEUTIC**
[54] **TRAITEMENT DU CANCER**
[72] DAVIS, PAUL FRANK, NZ
[72] ITINTEANG, TINTE, NZ
[72] MARSH, REGINALD WALTER, NZ
[72] TAN, SWEE THONG, NZ
[71] GILLIES MCINDOE RESEARCH INSTITUTE, NZ
[85] 2019-07-26
[86] 2018-01-31 (PCT/NZ2018/050006)
[87] (WO2018/143826)
[30] US (62/452,479) 2017-01-31

[21] **3,051,842**
[13] A1

[51] **Int.Cl. H05B 3/54 (2006.01) H05B 1/02 (2006.01) H05B 3/14 (2006.01)**
[25] EN
[54] **DEVICES FOR HEATING SMALL-DIAMETER TUBING AND METHODS OF MAKING AND USING**
[54] **DISPOSITIFS DE CHAUFFAGE DE TUBE DE PETIT DIAMETRE ET PROCEDES DE FABRICATION ET D'UTILISATION**
[72] ZIMMERMAN, JAMES ROBERT, US
[72] HILGER, RYAN TYLER, US
[71] PURDUE RESEARCH FOUNDATION, US
[85] 2019-07-26
[86] 2018-01-22 (PCT/US2018/014649)
[87] (WO2018/140344)
[30] US (62/451,128) 2017-01-27

[21] **3,051,844**
[13] A1

[51] **Int.Cl. C09K 8/80 (2006.01)**
[25] EN
[54] **BIORENEWABLE RESIN COMPOSITION FOR WELL TREATMENT**
[54] **COMPOSITION DE RESINE BIO-RENOUVELABLE POUR LE TRAITEMENT DE PUIT**
[72] RAMOS, EVA, US
[71] LAWTER, INC., US
[85] 2019-07-26
[86] 2018-01-23 (PCT/US2018/014858)
[87] (WO2018/140400)
[30] US (62/451,188) 2017-01-27

[21] **3,051,845**
[13] A1

[51] **Int.Cl. B26D 7/00 (2006.01) B26D 1/04 (2006.01) B26D 3/08 (2006.01) B26D 5/10 (2006.01)**
[25] EN
[54] **BENCH TOP BOARD SCORING DEVICE**
[54] **DISPOSITIF D'ENTAILLAGE DE PANNEAU SUPERIEUR D'ETABLI**
[72] RAGO, WILLIAM J., US
[72] COCHRAN, CHARLES W., US
[71] UNITED STATES GYPSUM COMPANY, US
[85] 2019-07-26
[86] 2018-01-26 (PCT/US2018/015373)
[87] (WO2018/140682)
[30] US (15/419,476) 2017-01-30

[21] **3,051,846**
[13] A1

[51] **Int.Cl. A61K 31/5375 (2006.01) A61K 31/55 (2006.01) A61K 31/69 (2006.01)**
[25] EN
[54] **AGENTS THAT INHIBIT NGLY1 AND METHODS OF USE THEREOF**
[54] **AGENTS INHIBANT NGLY1 ET LEURS METHODES D'UTILISATION**
[72] BERTOZZI, CAROLYN RUTH, US
[72] TOMLIN, FREDERICK, US
[72] GERLING-DRIESSEN, ULLA, US
[71] THE BOARD OF TRUSTEES OF LELAND STANDFORD JUNIOR UNIVERSITY, US
[85] 2019-07-26
[86] 2018-01-26 (PCT/US2018/015380)
[87] (WO2018/144327)
[30] US (62/452,808) 2017-01-31

[21] **3,051,849**
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/56 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVING NATURAL GAS USAGE IN STEAM METHANE REFORMERS**
[54] **SYSTEMES ET METHODES POUR AMELIORER L'UTILISATION DE GAZ NATUREL DANS DES VAPOREFORMEURS DE METHANE**
[72] KANG, TAEKYU, US
[72] SHRIVASTAVA, SWATANTRA KUMAR, DE
[72] LEHMANN, MAIK, DE
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2019-07-26
[86] 2018-01-26 (PCT/US2018/015382)
[87] (WO2018/140686)
[30] US (15/417,803) 2017-01-27

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[21] **3,051,850**
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/56 (2006.01)**

[25] EN

[54] **MAXIMIZING STEAM METHANE REFORMER COMBUSTION EFFICIENCY BY PRE-HEATING PRE-REFORMED FUEL GAS**

[54] **MAXIMISATION DE L'EFFICACITE DE COMBUSTION D'UN VAPOREFORMEUR DE METHANE PAR PRECHAUFFAGE D'UN GAZ COMBUSTIBLE PRE-REFORME**

[72] KANG, TAEKYU, US
[72] FAN, RONG, US
[72] PRANDA, PAVOL, US
[72] GAGLIANO, ROBERT A., US
[72] JURCIK, BENJAMIN J., JR., US
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[85] 2019-07-26
[86] 2018-01-26 (PCT/US2018/015385)
[87] (WO2018/140689)
[30] US (15/417,892) 2017-01-27

[21] **3,051,857**
[13] A1

[51] **Int.Cl. G01N 21/25 (2006.01) C40B 30/04 (2006.01) G01J 1/42 (2006.01) G01J 1/58 (2006.01) G01T 1/10 (2006.01)**

[25] EN

[54] **METHOD FOR NON-INVASIVE MONITORING OF FLUORESCENT TRACER AGENT WITH BACKGROUND SEPARATION CORRECTIONS**

[54] **PROCEDE DE SURVEILLANCE NON INVASIVE D'AGENT TRACEUR FLUORESCENT AVEC CORRECTIONS DE SEPARATION D'ARRIERE-PLAN**

[72] KEATING, JENNIFER, US
[72] SCHULTZ, KIMBERLY, US
[72] BECHTEL, KATE, US
[72] SOLOMON, EDWARD, US
[71] MEDIBEACON INC., US

[85] 2019-07-26
[86] 2018-01-30 (PCT/US2018/016053)
[87] (WO2018/140984)
[30] US (62/452,021) 2017-01-30

[21] **3,051,858**
[13] A1

[51] **Int.Cl. A61B 1/233 (2006.01) A61B 1/00 (2006.01) A61B 1/227 (2006.01) A61B 1/32 (2006.01) A61M 29/00 (2006.01)**

[25] EN

[54] **NAVIGATION GUIDEWIRE WITH INTERLOCKED COILS**

[54] **FIL-GUIDE DE NAVIGATION A BOBINES IMBRIQUEES**

[72] SEMA, GHISLAIN G., US
[72] CHOW, MINA W., US
[72] PALUSHI, JETMIR, US
[72] MUNI, KETAN P., US
[72] SALAZAR, HENRY F., US
[71] ACCLARENT, INC., US

[85] 2019-07-26
[86] 2018-01-31 (PCT/US2018/016077)
[87] (WO2018/144500)
[30] US (62/453,220) 2017-02-01
[30] US (15/861,959) 2018-01-04

[21] **3,051,859**
[13] A1

[51] **Int.Cl. C11D 3/04 (2006.01) C11D 3/16 (2006.01) C11D 3/22 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 7/06 (2006.01) C11D 7/08 (2006.01) C11D 7/22 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **METHODS FOR MAKING ENCAPSULATE-CONTAINING PRODUCT COMPOSITIONS**

[54] **PROCEDES DE FABRICATION DE COMPOSITIONS DE PRODUIT CONTENANT UN PRODUIT D'ENCAPSULATION**

[72] SONG, XINBEI, US
[72] SMETS, JOHAN, BE
[72] VANSTEENWINCKEL, PASCALE CLAIRE ANNICK, BE
[72] SCHEIBEL, JEFFREY JOHN, US
[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-07-26
[86] 2018-02-27 (PCT/US2018/019817)
[87] (WO2018/169675)
[30] US (15/460,279) 2017-03-16

[21] **3,051,860**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A23L 7/10 (2016.01) A23L 7/109 (2016.01)**

[25] EN

[54] **HIGH FIBER, HIGH PROTEIN, LOW CARBOHYDRATE FLOUR, SWEETENED LIQUID, SWEETENERS, CEREALS, AND METHODS FOR PRODUCTION THEREOF**

[54] **FARINE A HAUTE TENEUR EN FIBRES, HAUTE TENEUR EN PROTEINES, FAIBLE TENEUR EN GLUCIDES, LIQUIDE SUCRE, EDULCORANTS, CEREALES ET LEURS PROCEDES DE PRODUCTION**

[72] NACCARATO, DAVID CLAYTON, US
[72] GORDON, STUART GRAY, US
[71] MANNA NUTRITIONAL GROUP LLC, US

[85] 2019-07-26
[86] 2018-01-31 (PCT/US2018/016274)
[87] (WO2018/144621)
[30] US (62/453,308) 2017-02-01

[21] **3,051,861**
[13] A1

[51] **Int.Cl. A61F 2/30 (2006.01) A61B 17/17 (2006.01) A61B 17/68 (2006.01) A61B 17/80 (2006.01) A61F 2/38 (2006.01) A61F 2/42 (2006.01)**

[25] EN

[54] **INTERNAL JOINT STABILIZER DEVICE, SYSTEM AND METHOD OF USE**

[54] **DISPOSITIF DE STABILISATION D'ARTICULATION INTERNE, SYSTEME ET PROCEDE D'UTILISATION**

[72] ORBAY, JORGE L., US
[72] HAUSMAN, MICHAEL R., US
[71] SKELETAL DYNAMICS LLC, US

[85] 2019-07-26
[86] 2018-02-28 (PCT/US2018/020077)
[87] (WO2018/160612)
[30] US (15/444,847) 2017-02-28

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[51] Int.Cl. A61K 38/00 (2006.01) A61K 9/00 (2006.01) C12N 9/64 (2006.01)	[51] Int.Cl. C07K 16/08 (2006.01) A61K 38/16 (2006.01) A61K 39/395 (2006.01) A61K 39/42 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) C07K 16/10 (2006.01)	[51] Int.Cl. A61K 39/395 (2006.01) A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)
[25] EN	[25] EN	[25] EN
[54] FACTOR IX FUSION PROTEINS AND METHODS OF MAKING AND USING SAME	[54] ANTI-RSV MONOCLONAL ANTIBODY FORMULATION	[54] CALRETICULIN-MEDIATED CANCER TREATMENT
[54] PROTEINE DE FUSION DU FACTEUR IX ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES	[54] FORMULATION D'ANTICORPS MONOCLONAL ANTI-RSV	[54] TRAITEMENT DU CANCER A MEDIATION PAR CALRETICULINE
[72] VAN DER FLIER, ARJAN, US	[72] LOBO, BRIAN, US	[72] SOON-SHIONG, PATRICK, US
[72] LIU, ZHIQIAN, US	[72] GOLDBERG, DEBORAH, US	[71] NANT HOLDINGS IP, LLC, US
[72] LIGHT, DAVID R., US	[71] MEDIMMUNE LIMITED, GB	[85] 2019-07-26
[72] CHHABRA, EKTA SETH, US	[85] 2019-07-26	[86] 2018-02-01 (PCT/US2018/016513)
[72] LIU, TONGYAO, US	[86] 2018-02-28 (PCT/US2018/020264)	[87] (WO2018/144777)
[72] PETERS, ROBERT T., US	[87] (WO2018/160722)	[30] US (62/453,229) 2017-02-01
[72] KULMAN, JOHN, US	[30] US (62/465,379) 2017-03-01	
[72] ISMAIL, AYMAN, US		
[71] BIOVERATIV THERAPEUTICS INC., US	[21] 3,051,865 [13] A1	[21] 3,051,867 [13] A1
[85] 2019-07-26	[51] Int.Cl. A61K 39/395 (2006.01) A61P 7/10 (2006.01) A61P 13/12 (2006.01) C07K 16/00 (2006.01)	[51] Int.Cl. A61K 35/76 (2015.01) A61P 3/04 (2006.01) A61P 29/00 (2006.01)
[86] 2018-01-31 (PCT/US2018/016277)	[25] EN	[25] EN
[87] (WO2018/144623)	[54] TREATMENT OF DIURETIC RESISTANCE	[54] METHODS AND COMPOSITIONS FOR TREATING OBESITY, INFLAMMATION, OR METABOLIC DISORDERS WITH BACTERIOPHAGES
[30] US (62/452,826) 2017-01-31	[54] TRAITEMENT DE LA RESISTANCE AUX DIURETIQUES	[54] METHODES ET COMPOSITIONS POUR TRAITER L'OBESITE, L'INFLAMMATION OU DES TROUBLES METABOLIQUES AVEC DES BACTERIOPHAGES
	[72] LO, CHIH-HUNG, US	[72] BRIDGEWATER, LAURA CLARKE, US
	[72] TESTANI, JEFFREY MOORE, US	[72] ZHAO, GONGZE, US
	[72] RAO, VEENA, US	[71] BRIGHAM YOUNG UNIVERSITY, US
	[72] KAKKAR, RAHUL, US	[85] 2019-07-26
	[72] DEVALARAJA, MADHAV N., US	[86] 2018-03-14 (PCT/US2018/022419)
	[71] YALE UNIVERSITY, US	[87] (WO2018/170118)
	[71] CORVIDIA THERAPEUTICS, INC., US	[30] US (62/471,248) 2017-03-14
	[85] 2019-07-26	
	[86] 2018-02-01 (PCT/US2018/016508)	
	[87] (WO2018/144773)	
	[30] US (62/453,257) 2017-02-01	
[21] 3,051,863 [13] A1		
[51] Int.Cl. A61K 8/44 (2006.01) A61Q 11/00 (2006.01)		
[25] EN		
[54] TABLET COMPRISING ABRASIVE FOR DENTAL CLEANING		
[54] COMPRIME COMPRENANT UN ABRASIF POUR NETTOYAGE DENTAIRE		
[72] SNYDER, CLIFFORD, US		
[71] WATER PIK, INC., US		
[85] 2019-07-26		
[86] 2018-02-01 (PCT/US2018/016505)		
[87] (WO2018/144771)		
[30] US (62/453,949) 2017-02-02		

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[21] **3,051,868**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **METHOD**
[54] **PROCEDE**
[72] WAGNER, GEORGE, US
[72] MAHAYLOVA-KROUMOVA, ANTOANETA BORISSOVA, US
[72] TANG, GUILIANG, US
[72] WANG, ERMING, US
[71] UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, US
[85] 2019-07-26
[86] 2018-02-06 (PCT/US2018/016963)
[87] (WO2018/148169)
[30] US (62/455,850) 2017-02-07

[21] **3,051,869**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF IMMUNE CHECKPOINT MODULATORS IN COMBINATION WITH ANTIGEN-SPECIFIC T CELLS IN ADOPTIVE IMMUNOTHERAPY**
[54] **UTILISATION DE MODULATEURS DE POINT DE CONTROLE IMMUNITAIRE EN ASSOCIATION AVEC DES CELLULES T SPECIFIQUES D'UN ANTIGENE EN IMMUNOTHERAPIE ADOPTIVE**
[72] O'REILLY, RICHARD JOHN, US
[72] PROCKOP, SUSAN ELIZABETH, US
[72] DOUBROVINA, EKATERINA, US
[72] DAHI, PARASTOO BAHRAMI, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2019-07-26
[86] 2018-02-06 (PCT/US2018/016995)
[87] (WO2018/148183)
[30] US (62/455,860) 2017-02-07

[21] **3,051,870**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/34 (2015.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR ENHANCING CARDIOMYOCYTE MATURATION AND ENGRAFTMENT**
[54] **METHODES ET COMPOSITIONS POUR AMELIORER LA MATURATION ET LA PRISE DE GREFFE DE CARDIOMYOCYTES**
[72] MURRY, CHARLES E., US
[72] SINHA, SANJAY, GB
[72] BARGEHR, JOHANNES, GB
[72] IYER, DHARINI, US
[71] UNIVERSITY OF WASHINGTON, US
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2019-07-26
[86] 2018-03-15 (PCT/US2018/022659)
[87] (WO2018/170280)
[30] US (62/471,737) 2017-03-15

[21] **3,051,873**
[13] A1

[51] **Int.Cl. C22C 21/00 (2006.01) C22F 1/04 (2006.01)**
[25] EN
[54] **ALUMINUM ALLOY, EXTRUDED TUBE FORMED FROM ALUMINUM ALLOY, AND HEAT EXCHANGER**
[54] **ALLIAGE D'ALUMINIUM, TUBE EXTRUDE FAIT D'UN ALLIAGE D'ALUMINIUM, ET ECHANGEUR DE CHALEUR**
[72] SOMANI, VIKAS, US
[72] WANG, ALFRED, US
[71] BRAZEWAY, INC., US
[85] 2019-07-26
[86] 2018-02-08 (PCT/US2018/017449)
[87] (WO2018/148429)
[30] US (62/456,742) 2017-02-09
[30] US (15/889,331) 2018-02-06

[21] **3,051,876**
[13] A1

[51] **Int.Cl. B42D 25/305 (2014.01) B42D 25/23 (2014.01) B42D 25/24 (2014.01) B42D 25/29 (2014.01) B42D 25/324 (2014.01) B42D 25/328 (2014.01) B42D 25/333 (2014.01) B42D 25/342 (2014.01) B42D 25/346 (2014.01) B42D 25/351 (2014.01) B42D 25/355 (2014.01) B42D 25/369 (2014.01) B42D 25/382 (2014.01) B42D 25/387 (2014.01) B42D 25/405 (2014.01)**
[25] EN
[54] **AUTHENTICATION AND ANTI-HARVESTING SECURITY FEATURE WITH MACHINE DETECTABLE INDICIA**
[54] **FONCTION DE SECURITE D'AUTHENTIFICATION ET D'ANTI-COLLECTE AVEC DES INDICES DETECTABLES PAR MACHINE**
[72] ZIEGLER, ERIC M., US
[71] CRANE & CO., INC., US
[85] 2019-07-26
[86] 2018-02-12 (PCT/US2018/017878)
[87] (WO2018/148688)
[30] US (62/457,230) 2017-02-10

[21] **3,051,877**
[13] A1

[51] **Int.Cl. G01N 33/24 (2006.01) E21B 47/10 (2012.01) E21B 49/00 (2006.01)**
[25] EN
[54] **METAL ISOTOPE APPLICATIONS IN HYDROCARBON EXPLORATION, DEVELOPMENT, AND PRODUCTION**
[54] **APPLICATIONS D'ISOTOPES METALLIQUES DANS L'EXPLORATION, LE DEVELOPPEMENT ET LA PRODUCTION D'HYDROCARBURES**
[72] FORMOLO, MICHAEL J., US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2019-07-26
[86] 2018-02-20 (PCT/US2018/018756)
[87] (WO2018/160388)
[30] US (62/464,853) 2017-02-28

PCT Applications Entering the National Phase

[21] **3,051,878**
[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 1/62 (2006.01) C11D 3/22 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **FABRIC SOFTENER COMPOSITION COMPRISING ENCAPSULATED BENEFIT AGENT**

[54] **COMPOSITION D'ADOUCISSANT POUR TISSUS COMPRENANT UN AGENT BENEFIQUE ENCAPSULE**

[72] FERNANDEZ PRIETO, SUSANA, BE

[72] SMETS, JOHAN, BE

[72] SAVEYN, PIETER JAN MARIA, BE

[72] ORLANDINI, LAURA, CH

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-07-26

[86] 2018-03-16 (PCT/US2018/022792)

[87] (WO2018/170357)

[30] EP (17161464.7) 2017-03-16

[21] **3,051,879**
[13] A1

[51] **Int.Cl. E04H 15/20 (2006.01) E04H 15/02 (2006.01) E04H 15/18 (2006.01) E04H 15/26 (2006.01) E04H 15/36 (2006.01)**

[25] FR

[54] **EMERGENCY SHELTER FOR AT LEAST ONE PERSON, METHOD FOR CONVERTING THIS FROM A FOLDED POSITION TO A DEPLOYED POSITION, AND MODULE OF SUCH SHELTERS**

[54] **ABRI D'URGENCE POUR AU MOINS UNE PERSONNE, PROCEDE POUR L'AMENER D'UNE POSITION REPLIEE A UNE POSITION DEPLOYEE ET MODULE DE TELS ABRIS**

[72] ANDRE, SEBASTIEN, FR

[72] GIRAULT, CELINE, FR

[72] NADJAR, RAPHAEL, FR

[72] GODEAU, DENIS, FR

[72] AVRIL, KATARZYNA, FR

[71] HUTCHINSON, FR

[85] 2019-07-25

[86] 2017-01-25 (PCT/FR2017/050171)

[87] (WO2018/138418)

[21] **3,051,881**
[13] A1

[51] **Int.Cl. G05D 1/02 (2006.01) B60W 30/095 (2012.01) B60W 30/16 (2012.01) E01C 1/00 (2006.01)**

[25] FR

[54] **AUTOMATIC TRANSPORT SYSTEM**

[54] **SYSTEME DE TRANSPORT AUTOMATIQUE**

[72] MOULENE, DANIEL, FR

[71] MOULENE, DANIEL, FR

[85] 2019-07-25

[86] 2017-01-27 (PCT/FR2017/050192)

[87] (WO2017/129918)

[30] FR (1600155) 2016-01-29

[21] **3,051,883**
[13] A1

[51] **Int.Cl. F01D 5/00 (2006.01)**

[25] FR

[54] **METHOD FOR REMOVING A METAL ELEMENT BONDED TO AN ELEMENT MADE OF COMPOSITE MATERIAL**

[54] **PROCEDE POUR LE DECOLLEMENT D'UN ELEMENT METALLIQUE COLLE A UN ELEMENT EN MATERIAU COMPOSITE**

[72] CHARLAS, MATHIEU JULIEN, FR

[71] SAFRAN AIRCRAFT ENGINES, FR

[85] 2019-07-25

[86] 2018-01-26 (PCT/FR2018/050177)

[87] (WO2018/138445)

[30] FR (17 50731) 2017-01-30

[21] **3,051,884**
[13] A1

[51] **Int.Cl. C04B 35/573 (2006.01) B29B 11/16 (2006.01) C04B 35/628 (2006.01) C04B 35/80 (2006.01) B29C 70/38 (2006.01) B29C 70/48 (2006.01)**

[25] FR

[54] **METHOD FOR THE PRODUCTION OF A PART MADE FROM A COMPOSITE MATERIAL**

[54] **PROCEDE DE FABRICATION D'UNE PIECE EN MATERIAU COMPOSITE**

[72] SCHWARTZ, MATHIEU, FR

[72] DELEHOUZE, ARNAUD, FR

[72] LAVAL, NICOLAS, FR

[72] DESJOYEUX, BERTRAND, FR

[71] SAFRAN CERAMICS, FR

[85] 2019-07-25

[86] 2018-02-01 (PCT/FR2018/050244)

[87] (WO2018/142080)

[30] FR (1750866) 2017-02-02

[21] **3,051,885**
[13] A1

[51] **Int.Cl. A61B 17/32 (2006.01) A61C 1/07 (2006.01) A61B 17/00 (2006.01)**

[25] FR

[54] **AN ULTRASOUND TREATMENT APPLIANCE WITH AUTOMATIC SETPOINT CONTROL**

[54] **APPAREIL DE TRAITEMENT A ULTRASONS AVEC CONTROLE AUTOMATIQUE DE CONSIGNE**

[72] CAPET, XAVIER, FR

[72] RECHE, CHARLES, FR

[71] SOCIETE POUR LA CONCEPTION DES APPLICATIONS DES TECHNIQUES ELECTRONIQUES, FR

[85] 2019-07-26

[86] 2018-01-29 (PCT/FR2018/050198)

[87] (WO2018/138453)

[30] FR (1750730) 2017-01-30

[21] **3,051,886**
[13] A1

[51] **Int.Cl. B63B 22/08 (2006.01) B63B 22/14 (2006.01) B63B 45/00 (2006.01) B63C 7/26 (2006.01)**

[25] FR

[54] **SYSTEM FOR SECURING A SUBMERGED BEACON**

[54] **SYSTEME DE SECURISATION D'UNE BALISE IMMERGEE**

[72] BIOUSSE, PATRICE, FR

[71] SCATRI SA, CH

[85] 2019-07-26

[86] 2018-01-31 (PCT/FR2018/050231)

[87] (WO2018/142073)

[30] FR (17 50845) 2017-02-01

Demandes PCT entrant en phase nationale

[21] **3,051,893**
[13] A1

[51] **Int.Cl. E21B 43/117 (2006.01) F42B 1/028 (2006.01)**

[25] EN

[54] **LIMITED PENETRATION PERFORATING METHODS FOR OILFIELD APPLICATIONS**

[54] **PROCEDES DE PERFORATION A PENETRATION LIMITEE POUR DES APPLICATIONS DE CHAMP PETROLIFERE**

[72] DAY, CORY D., US
[72] CLAY, MATTHEW C., US
[72] KINSEY, JAMES, US
[72] BEVERIDGE, CRAIG, US
[72] GEERTS, SHAUN, US
[72] PRATT, DAN W., US
[72] COKER, JUSTIN, US
[71] OWEN OIL TOOLS LP, US
[85] 2019-07-26
[86] 2018-06-12 (PCT/US2018/037132)
[87] (WO2018/231847)
[30] US (62/518,321) 2017-06-12

[21] **3,051,895**
[13] A1

[51] **Int.Cl. A63H 33/08 (2006.01)**

[25] EN

[54] **BLOCK SYSTEM**

[54] **SYSTEME DE BLOC**

[72] DUMPHY, JOSHUA, US
[71] KEJSER, LLC, US
[85] 2019-07-26
[86] 2018-07-25 (PCT/US2018/043761)
[87] (WO2019/133055)
[30] US (15/858,038) 2017-12-29

[21] **3,051,897**
[13] A1

[51] **Int.Cl. C07K 14/555 (2006.01) A61K 38/21 (2006.01) A61P 35/00 (2006.01) C12N 15/20 (2006.01)**

[25] EN

[54] **A METHOD OF TREATMENT**

[54] **METHODE DE TRAITEMENT**

[72] HERTZOG, PAUL, AU
[72] MARKS, ZOE, AU
[72] BOURKE, NOLLAIG, IE
[72] LIM, SN SUI, AU
[72] DE WEERD, NICOLE, AU
[72] MANGAN, NIAMH, AU
[72] MATTHEWS, ANTONY, AU
[71] HUDSON INSTITUTE OF MEDICAL RESEARCH, AU
[85] 2019-07-29
[86] 2018-01-30 (PCT/AU2018/050054)
[87] (WO2018/137002)
[30] AU (2017900251) 2017-01-30

[21] **3,051,899**
[13] A1

[51] **Int.Cl. A01N 27/00 (2006.01) A01N 31/02 (2006.01) A01N 31/06 (2006.01)**

[25] EN

[54] **BIOFUMIGANT COMPOSITIONS AND METHODS THEREOF**

[54] **COMPOSITIONS DE BIOFUMIGANT ET METHODES ASSOCIEES**

[72] KRILL, CHRISTIAN, AU
[72] MANN, ROSS, AU
[72] AUER, DESMOND, AU
[72] ROCHFORD, SIMONE JANE, AU
[72] SPANGENBERG, GERMAN CARLOS, AU
[71] AGRICULTURE VICTORIA SERVICES PTY LTD, AU
[85] 2019-07-29
[86] 2018-02-02 (PCT/AU2018/050069)
[87] (WO2018/141020)
[30] AU (2017900308) 2017-02-02

[21] **3,051,900**
[13] A1

[51] **Int.Cl. A23L 33/12 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01)**

[25] EN

[54] **NEURODEVELOPMENT-PROMOTING FOOD COMPOSITIONS AND KITS, SYSTEMS AND METHODS RELATED THERETO**

[54] **COMPOSITIONS ALIMENTAIRES FAVORISANT LE DEVELOPPEMENT NEUROLOGIQUE ET KITS, SYSTEMES ET PROCEDES ASSOCIES**

[72] PURZNER, TERESA, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2019-07-26
[86] 2018-05-03 (PCT/US2018/030921)
[87] (WO2018/204670)
[30] US (62/501,602) 2017-05-04

[21] **3,051,911**
[13] A1

[51] **Int.Cl. C23F 11/04 (2006.01) C09K 3/00 (2006.01) C09K 8/52 (2006.01) C09K 8/54 (2006.01) C09K 8/74 (2006.01) C23G 1/02 (2006.01)**

[25] EN

[54] **NOVEL CORROSION INHIBITION PACKAGE**

[54] **NOUVEAU PACK ANTICORROSION**

[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[71] FLUID ENERGY GROUP LTD., CA
[85] 2019-07-29
[86] 2018-02-02 (PCT/CA2018/000022)
[87] (WO2018/141051)
[30] CA (2,956,939) 2017-02-03

[21] **3,051,913**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/337 (2006.01) A61K 31/555 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) C07F 15/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **TREATMENT OF CANCER WITH THERAPEUTIC MONOCLONAL ANTIBODY SPECIFIC FOR A TUMOR ASSOCIATED ANTIGEN AND AN IMMUNE ADJUVANT**

[54] **TRAITEMENT DU CANCER AVEC UN ANTICORPS MONOCLONAL THERAPEUTIQUE SPECIFIQUE POUR UN ANTIGENE ASSOCIE A UNE TUMEUR ET UN ADJUVANT IMMUNITAIRE**

[72] NICODEMUS, CHRISTOPHER F., US
[72] MADIYALAKAN, RAGUPATHY, CA
[71] ONCOQUEST INC., CA
[85] 2019-07-29
[86] 2018-01-26 (PCT/CA2018/050095)
[87] (WO2018/141054)
[30] US (62/455,114) 2017-02-06
[30] US (15/470,733) 2017-03-27
[30] EP (17164584.9) 2017-04-03
[30] JP (2017-075356) 2017-04-05
[30] US (15/654,415) 2017-07-19
[30] CA (PCT/CA2017/050901) 2017-07-27

PCT Applications Entering the National Phase

[21] **3,051,914**

[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61K
47/04 (2006.01) A61P 31/00 (2006.01)
A61P 33/00 (2006.01)**

[25] EN

[54] **BICARBONATE AS A
POTENTIATOR FOR
ANTIMICROBIAL AGENTS**

[54] **BICARBONATE A TITRE DE
POTENTIALISATEUR D'AGENTS
ANTIMICROBIENS**

[72] BROWN, ERIC, CA

[72] FARHA, MAYA, CA

[72] MACNAIR, CRAIG, CA

[72] STOKES, JONATHAN, US

[71] MCMASTER UNIVERSITY, CA

[85] 2019-07-29

[86] 2018-02-02 (PCT/CA2018/050118)

[87] (WO2018/141063)

[30] US (62/453,701) 2017-02-02

[30] US (62/483,032) 2017-04-07

[30] US (62/524,866) 2017-06-26

[21] **3,051,922**

[13] A1

[51] **Int.Cl. B62B 17/04 (2006.01) A63C
5/07 (2006.01) B62D 55/07 (2006.01)**

[25] EN

[54] **FRONT SKI SUSPENSION SYSTEM
FOR A SNOWMOBILE AND
METHOD FOR INSTALLING THE
SAME**

[54] **SYSTEME DE SUSPENSION DE
SKI AVANT POUR MOTONEIGE
ET SON PROCEDE
D'INSTALLATION**

[72] PROULX, DAVE, CA

[71] SURFACE PRO DESIGN INC., CA

[85] 2019-07-29

[86] 2018-08-28 (PCT/CA2018/051037)

[87] (WO2019/041033)

[30] US (62/551,022) 2017-08-28

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<p>[21] 2,994,069 [13] A1</p>	<p>[21] 3,021,743 [13] A1</p>	<p>[21] 3,032,717 [13] A1</p>
<p>[51] Int.Cl. A45F 5/00 (2006.01) A45F 5/10 (2006.01) [25] EN [54] WEARABLE TOOL FOR HOLDING A HEAVY WEIGHT BY ITS HANDLE [54] OUTIL PORTABLE SERVANT A TENIR UN POIDS LOURD PAR SA POIGNEE [72] DRISDELLE, ANDRE, CA [71] DRISDELLE, ANDRE, CA [22] 2018-02-06 [41] 2019-08-06</p>	<p>[51] Int.Cl. A41D 31/00 (2019.01) A41D 31/04 (2019.01) A41D 1/04 (2006.01) A41D 1/08 (2018.01) A41D 13/00 (2006.01) [25] EN [54] SLIDE-INHIBITING SAFETY GARMENT FOR ICE AND ASSOCIATED METHOD [54] VETEMENT DE SECURITE EMPECHANT DE GLISSER DESTINE A LA GLACE ET METHODE ASSOCIEE [72] BOURN, CHARLES T., CA [71] BOURN, CHARLES T., CA [22] 2018-10-22 [41] 2019-08-02 [30] US (62/575,155) 2017-10-20 [30] US (16/166,094) 2018-10-20</p>	<p>[51] Int.Cl. H04L 9/32 (2006.01) G06F 21/44 (2013.01) H04L 29/06 (2006.01) [25] EN [54] IMPROVED SECURITY USING SELF-SIGNED CERTIFICATE THAT INCLUDES AN OUT-OF-BAND SHARED SECRET [54] SECURITE AMELIOREE AU MOYEN DE CERTIFICAT AUTO-SIGNE QUI COMPREND UN SECRET PARTAGE HORS BANDE [72] MICHAUD, TED R., US [72] BAKER, PAUL D., US [71] ARRIS ENTERPRISES LLC, US [22] 2019-02-05 [41] 2019-08-05 [30] US (62/626,401) 2018-02-05</p>
<p>[21] 3,017,120 [13] A1</p>	<p>[21] 3,032,593 [13] A1</p>	<p>[21] 3,032,720 [13] A1</p>
<p>[51] Int.Cl. B24D 18/00 (2006.01) B24D 7/06 (2006.01) B24D 7/16 (2006.01) B24D 7/18 (2006.01) [25] EN [54] PRESSURE-FIT GRINDING PAD ASSEMBLY AND METHOD OF CONSTRUCTION [54] ASSEMBLAGE DE TAMPON ABRASIF ADAPTE PAR PRESSION ET METHODE DE CONSTRUCTION [72] FAFOREST, LUC, CA [72] FRECHETTE, MARIO, CA [72] FORTIN, SEBASTIEN, CA [71] GESTION ANNY PICARD INC., CA [22] 2018-09-12 [41] 2019-07-25</p>	<p>[51] Int.Cl. C12Q 1/56 (2006.01) C12N 9/74 (2006.01) C12Q 1/37 (2006.01) [25] EN [54] ASSAY TO MEASURE FACTOR XA INHIBITORS [54] ESSAI DE MESURE D'INHIBITEURS DU FACTEUR XA [72] KIM, PAUL Y., CA [72] WU, CHENGLIANG, CA [71] MCMASTER UNIVERSITY, CA [22] 2019-02-04 [41] 2019-08-05 [30] US (62/626,389) 2018-02-05</p>	<p>[51] Int.Cl. E21B 43/38 (2006.01) E21B 43/12 (2006.01) [25] EN [54] SYSTEMS FOR DOWNHOLE SEPARATION OF GASES FROM LIQUIDS HAVING INTERCHANGEABLE FLUID CONDUCTORS [54] SYSTEMES DE SEPARATION EN FOND DE TROU DE GAZ ET DE LIQUIDES COMPORTANT DES CONDUCTEURS DE FLUIDE INTERCHANGEABLES [72] SAPONJA, JEFF, CA [72] HARI, ROB, CA [72] KEITH, TIM, CA [72] WALL, TRYSTAN, CA [72] KIMERY, DAVE, CA [71] HEAL SYSTEMS LP, CA [22] 2019-02-05 [41] 2019-08-05 [30] US (62/626,357) 2018-02-05</p>

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,032,975**
[13] A1

[51] **Int.Cl. E04B 1/41 (2006.01)**
[25] EN
[54] **CONCRETE ANCHOR AND COVER FOR SAME**
[54] **ANCRAGE DE BETON ET COUVERT ASSOCIE**
[72] BEAVER, TIM, US
[72] MATHEWS, THOMAS, US
[72] HOHENSEE, PAUL, US
[71] PRECISION-HAYES INTERNATIONAL, INC., US
[22] 2019-02-05
[41] 2019-08-05
[30] US (62/626,372) 2018-02-05
[30] US (16/266,909) 2019-02-04

[21] **3,033,017**
[13] A1

[51] **Int.Cl. E04B 1/41 (2006.01) F16G 11/04 (2006.01)**
[25] EN
[54] **CONCRETE ANCHOR WITH RETAINER**
[54] **ANCRAGE DE BETON EQUIPE D'UN MECANISME DE RETENUE**
[72] SCOTT, JEFFREY, US
[72] MATHEWS, THOMAS, US
[72] BEAVER, TIM, US
[72] TAYLOR, SHANE, US
[71] PRECISION-HAYES INTERNATIONAL, INC., US
[22] 2019-02-05
[41] 2019-08-05
[30] US (62/626,378) 2018-02-05
[30] US (16/266,497) 2019-02-04

[21] **3,044,650**
[13] A1

[51] **Int.Cl. B60R 21/36 (2011.01) B61D 49/00 (2006.01)**
[25] EN
[54] **EXTERNAL AIRBAG ASSEMBLY FOR A RAIL VEHICLE**
[54] **ASSEMBLAGE DE COUSSIN GONFLABLE EXTERIEUR DESTINE A UN VEHICULE SUR RAIL**
[72] FEI, LANDRI L.F., AT
[72] BAUMGARTNER, MARKUS M.B., AT
[71] BOMBARDIER TRANSPORTATION GMBH, DE
[22] 2019-05-29
[41] 2019-07-29

[21] **3,045,194**
[13] A1

[51] **Int.Cl. B32B 37/06 (2006.01) B32B 37/10 (2006.01) B32B 37/22 (2006.01) B32B 38/18 (2006.01) B32B 39/00 (2006.01)**
[25] EN
[54] **LARGE SURFACE LAMINATING SYSTEM AND METHOD**
[54] **SYSTEME DE CONTRE-PLACAGE D'UNE GRANDE SURFACE ET METHODE**
[72] KRUIPER, EDWIN JOHANNES GERARDUS, NL
[72] PEROTTI, DANIELE, NL
[72] BROUWERS, BOUKE JAN, NL
[72] DE BOER, JAN, NL
[71] PPG COATINGS EUROPE B.V., NL
[71] AVERY DENNISON MATERIALS BELGIUM SPRL, BE
[22] 2016-06-01
[41] 2016-12-08
[62] 2,987,865
[30] EP (15170912.8) 2015-06-05

[21] **3,049,824**
[13] A1

[51] **Int.Cl. H02G 3/30 (2006.01) B60R 16/02 (2006.01) B64C 1/00 (2006.01) F16L 3/127 (2006.01) F16L 3/223 (2006.01) H01B 17/16 (2006.01)**
[25] EN
[54] **STANDOFF DEVICE AND METHOD OF INSTALLATION OF HARNESS**
[54] **DISPOSITIF A DISTANCE ET PROCEDE D'INSTALLATION DE FAISCEAU**
[72] PAUZE, MARTIN, CA
[72] WOOD, KEITH, CA
[72] DESHAIES, MARTIN, CA
[72] LANDRY, PIERRE, CA
[71] BOMBARDIER INC., CA
[22] 2011-03-10
[41] 2012-09-13
[62] 2,829,748

[21] **3,049,879**
[13] A1

[51] **Int.Cl. B25J 15/00 (2006.01) B25J 5/00 (2006.01) B25J 19/00 (2006.01)**
[25] EN
[54] **A DEVICE FOR TRAVERSING AN OBJECT**
[54] **DISPOSITIF POUR PENETRER DANS UN OBJET**
[72] HAYDEN, GARY JAMES, AU
[71] WHITE PUMA PTY LIMITED, AU
[22] 2011-10-19
[41] 2012-04-26
[62] 2,815,052
[30] US (61/394,764) 2010-10-19

[21] **3,049,910**
[13] A1

[51] **Int.Cl. A01G 13/00 (2006.01) E01C 3/00 (2006.01) E01C 9/00 (2006.01) E03F 1/00 (2006.01)**
[25] EN
[54] **INTEGRATED TREE ROOT AND STORM WATER SYSTEM**
[54] **SYSTEME D'EAU PLUVIALE ET DE RACINE D'ARBRE INTEGRE**
[72] UNKNOWN, ZZ
[71] DEEPROOT GREEN INFRASTRUCTURE, LLC, US
[22] 2005-01-14
[41] 2005-08-04
[62] 2,976,915
[30] US (10/759,493) 2004-01-15

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,050,131**
[13] A1

[51] **Int.Cl. G01M 13/00 (2019.01) E21B 41/00 (2006.01) E21B 44/00 (2006.01) G01D 21/00 (2006.01) G06Q 10/00 (2012.01)**

[25] EN
[54] **MACHINES, SYSTEMS, COMPUTER-IMPLEMENTED METHODS, AND COMPUTER PROGRAM PRODUCTS TO TEST AND CERTIFY OIL AND GAS EQUIPMENT**

[54] **MACHINES, SYSTEMES, PROCEDES MIS EN OEUVRE PAR ORDINATEUR ET PRODUITS DE PROGRAMME INFORMATIQUE POUR TESTER ET CERTIFIER UN MATERIEL PETROLIER ET GAZIER**

[72] HUNTER, SCOTT, US
[71] S.P.M. FLOW CONTROL, INC., US
[22] 2011-05-02
[41] 2011-11-03
[62] 2,797,081
[30] US (61/330248) 2010-04-30

[21] **3,050,140**
[13] A1

[51] **Int.Cl. F16J 15/10 (2006.01) F16L 21/02 (2006.01) F16L 21/06 (2006.01) F16L 23/04 (2006.01) F16L 25/04 (2006.01)**

[25] EN
[54] **COUPLING**
[54] **DISPOSITIF D'ACCOUPEMENT**
[72] BEAGEN, JOSEPH WILLIAM, JR., US
[71] ANVIL INTERNATIONAL, LLC, US
[22] 2012-05-07
[41] 2013-07-20
[62] 3,020,608
[30] US (13/354,459) 2012-01-20
[30] US (13/354,464) 2012-01-20
[30] US (13/354,466) 2012-01-20
[30] US (13/354,470) 2012-01-20

[21] **3,050,151**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/6883 (2018.01) G01N 33/53 (2006.01) G01N 35/00 (2006.01) A61K 31/22 (2006.01) A61P 9/00 (2006.01)**

[25] EN
[54] **SINGLE NUCLEOTIDE POLYMORPHISMS ASSOCIATED WITH CARDIOVASCULAR DISORDERS AND STATIN RESPONSE, METHODS OF DETECTION AND USES THEREOF**

[54] **POLYMORPHISMES NUCLEOTIDES SIMPLES ASSOCIES A DES TROUBLES CARDIOVASCULAIRES ET A UNE REPNSE AU MEDICAMENT, LEURS PROCEDES DE DETECTION ET D'UTILISATION**

[72] CARGILL, MICHELE, US
[72] IAKOUBOVA, OLGA, US
[72] DEVLIN, JAMES J., US
[72] TSUCHIHASHI, ZENTA, US
[72] SHAW, PETER, US
[72] PLOUGHMAN, LYNN MARIE, US
[72] ZERBA, KIM E., US
[72] KOUSTUBH, RANADE, US
[72] KIRCHGESSNER, TODD, US
[71] CELERA CORPORATION, US
[22] 2004-11-24
[41] 2005-06-23
[62] 2,991,249
[30] US (60/524,882) 2003-11-26
[30] US (60/568,219) 2004-05-06

[21] **3,050,190**
[13] A1

[51] **Int.Cl. F01C 1/356 (2006.01) F04C 2/356 (2006.01) F04C 15/00 (2006.01) F04C 15/06 (2006.01)**

[25] EN
[54] **A ROTARY FLUID MACHINE AND ASSOCIATED METHOD OF OPERATION**

[54] **MACHINE A FLUIDE ROTATIVE ET PROCEDE DE FONCTIONNEMENT ASSOCIE**

[72] WHEELER, DARYL, AU
[71] GREYSTONE TECHNOLOGIES PTY LTD, AU
[22] 2013-12-12
[41] 2014-06-19
[62] 2,894,787
[30] AU (2012905433) 2012-12-12

[21] **3,050,271**
[13] A1

[51] **Int.Cl. C12N 15/866 (2006.01) C12N 15/113 (2010.01) A61K 39/12 (2006.01) A61P 37/04 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/34 (2006.01) C12N 15/85 (2006.01) C12P 1/00 (2006.01) C12P 21/02 (2006.01)**

[25] EN
[54] **BACULOVIRUS-BASED PRODUCTION OF BIOPHARMACEUTICALS FREE OF CONTAMINATING BACULOVIRAL VIRIONS**

[54] **FABRICATION A BASE DE BACULOVIRUS D'AGENTS BIOPHARMACEUTIQUES EXEMPTS DE VIRIONS BACULOVIRAUX CONTAMINANTS**

[72] MERTEN, OTTO-WILHELM, FR
[72] MAREK, MARTIN, CS
[72] VAN OERS, MONIQUE, NL
[71] GENETHON, FR
[22] 2010-08-05
[41] 2011-02-24
[62] 2,771,250
[30] EP (09305761.0) 2009-08-17

[21] **3,050,407**
[13] A1

[51] **Int.Cl. G05D 1/02 (2006.01) B66F 9/06 (2006.01) G06K 7/10 (2006.01)**

[25] EN
[54] **TAG LAYOUT FOR INDUSTRIAL VEHICLE OPERATION**

[54] **DISPOSITION D'ETIQUETTES POUR EXPLOITATION DE VEHICULES INDUSTRIELS**

[72] WALTON, DANIEL D., US
[72] SHERMAN, NICHOLAS J., US
[71] CROWN EQUIPMENT CORPORATION, US
[22] 2016-05-06
[41] 2016-11-10
[62] 2,984,796
[30] US (62/157,860) 2015-05-06
[30] US (62/157,863) 2015-05-06

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[21] **3,050,424**
[13] A1

[51] **Int.Cl. G01N 21/552 (2014.01) G01N 21/07 (2006.01)**
[25] EN
[54] **METHODS OF DIAGNOSING PROLIFERATIVE DISORDERS**
[54] **PROCEDE DE DIAGNOSTIC DE TROUBLES PROLIFERATIFS**
[72] ABEL, PETER, GB
[72] BAKER, MATTHEW JAMES, GB
[72] LEA, ROBERT WILLIAM, GB
[71] THE UNIVERSITY OF STRATHCLYDE, GB
[22] 2013-11-14
[41] 2014-05-22
[62] 2,891,370
[30] GB (1220573.8) 2012-11-15

[21] **3,050,455**
[13] A1

[51] **Int.Cl. C12N 15/13 (2006.01) C12N 15/113 (2010.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **ANTIBODIES THAT SPECIFICALLY BLOCK THE BIOLOGICAL ACTIVITY OF A TUMOR ANTIGEN**
[54] **ANTICORPS QUI BLOQUENT SPECIFIQUEMENT L'ACTIVITE BIOLOGIQUE D'UN ANTIGENE TUMORAL**
[72] UNKNOWN, ZZ
[71] ADC THERAPEUTICS SA, CH
[22] 2009-11-03
[41] 2010-06-03
[62] 2,740,900
[30] US (61/193,184) 2008-11-03
[30] US (61/213,666) 2009-06-30

[21] **3,050,475**
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01) A61M 5/168 (2006.01) A61M 25/01 (2006.01)**
[25] EN
[54] **MICROFLUIDIC DRUG DELIVERY DEVICES**
[54] **DISPOSITIFS MICROFLUIDIQUES D'ADMINISTRATION DE MEDICAMENT**
[72] ANAND, PJ, US
[72] SINGH, DEEP ARJUN, US
[71] ALCYONE LIFESCIENCES, INC., US
[22] 2012-08-01
[41] 2013-02-07
[62] 2,843,587
[30] US (61/513,948) 2011-08-01
[30] US (61/513,939) 2011-08-01
[30] US (61/513,935) 2011-08-01
[30] US (61/513,961) 2011-08-01
[30] US (61/513,952) 2011-08-01
[30] US (61/513,943) 2011-08-01
[30] US (61/513,954) 2011-08-01
[30] US (61/615,939) 2012-03-27

[21] **3,050,525**
[13] A1

[51] **Int.Cl. C07H 7/06 (2006.01) C07H 7/00 (2006.01) C07H 7/04 (2006.01)**
[25] EN
[54] **L-PROLINE AND CITRIC ACID CO-CRYSTALS OF (2S,3R,4R,5S,6R)-2-(3-((5-(4-FLUOROPHENYL)THIOPHEN-2-YL)METHYL)-4-METHYLPHENYL)-6-(HYDROXYMETHYL)TETRAHYDRO-2H-PYRAN-3,4,5-TRIOLE**
[54] **CO-CRISTAUX DE (2S,3R,4R,5S,6R)-2-(3-((5-(4-FLUOROPHENYL)THIOPHEN-2-YL)METHYL)-4-METHYLPHENYL)-6-(HYDROXYMETHYL)TETRAHYDRO-2H-PYRANE-3,4,5-TRIOLE AVEC DE LA L-PROLINE ET DE L'ACIDECITRIQUE**
[72] NGUYEN, MINH, US
[72] COLLIER, EDWIN A., US
[71] JANSSEN PHARMACEUTICA NV, BE
[22] 2012-05-09
[41] 2012-11-15
[62] 2,835,704
[30] US (61/483,887) 2011-05-09

[21] **3,050,530**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) A61K 38/47 (2006.01) A61K 38/48 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OR PREVENTION OF STAPHYLOCOCCUS AUREUS INFECTIONS AND FOR THE ERADICATION OR REDUCTION OF STAPHYLOCOCCUS AUREUS ON SURFACES**
[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT OU LA PREVENTION D'INFECTIONS PAR STAPHYLOCOCCUS AUREUS ET POUR L'ERADICATION OU LA REDUCTION DE STAPHYLOCOCCUS AUREUS SUR DES SURFACES**
[72] FALLON, JOAN M., US
[72] HEIL, MATTHEW, US
[72] FALLON, JAMES J., US
[71] GALENAGEN, LLC, US
[22] 2010-01-06
[41] 2010-07-15
[62] 2,747,611
[30] US (61/142,714) 2009-01-06
[30] US (61/153,274) 2009-02-17
[30] US (61/170,915) 2009-04-20

[21] **3,050,558**
[13] A1

[51] **Int.Cl. F16K 1/36 (2006.01) F16K 1/48 (2006.01) F16K 51/00 (2006.01) F16L 55/11 (2006.01)**
[25] EN
[54] **PLUG HEAD ASSEMBLIES**
[54] **ENSEMBLES DE TETES DE SOUPE**
[72] ROBISON, JEFFREY C., US
[72] MOCK, ROBERT, US
[72] REDD, FRANK, US
[71] CALDERA ENGINEERING, LLC, US
[22] 2013-01-11
[41] 2013-07-13
[62] 2,801,795
[30] US (61/586,523) 2012-01-13

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[21] **3,050,593**
[13] A1

[51] **Int.Cl. A47F 1/12 (2006.01) A47F 1/04 (2006.01) A47F 5/00 (2006.01) B65G 1/16 (2006.01)**

[25] EN

[54] **PRODUCT MANAGEMENT DISPLAY SYSTEM**

[54] **SYSTEME D'AFFICHAGE DE GESTION DE PRODUIT**

[72] HARDY, STEPHEN N., US

[71] RTC INDUSTRIES, INC., US

[22] 2012-08-31

[41] 2013-03-07

[62] 2,991,228

[30] US (61/530736) 2011-09-02

[30] US (61/542473) 2011-10-03

[30] US (61/553545) 2011-10-31

[30] US (13/542419) 2012-07-05

[21] **3,050,641**
[13] A1

[51] **Int.Cl. H04N 19/423 (2014.01) H04N 19/159 (2014.01) H04N 19/172 (2014.01) H04N 19/44 (2014.01)**

[25] EN

[54] **VIDEO PREDICTION ENCODING DEVICE, VIDEO PREDICTION ENCODING METHOD, VIDEO PREDICTION ENCODING PROGRAM, VIDEO PREDICTION DECODING DEVICE, VIDEO PREDICTION DECODING METHOD, AND VIDEO PREDICTION DECODING PROGRAM**

[54] **DISPOSITIF DE CODAGE DE PREDICTION VIDEO, METHODE DE CODAGE DE PREDICTION VIDEO, PROGRAMME DE CODAGE DE PREDICTION VIDEO, DISPOSITIF DE DECODAGE DE PREDICTION VIDEO, METHODE DE DECODAGE DE PREDICTION VIDEO ET PROGRAMME DE DECODAGE DE PREDICTION VIDEO**

[72] FUJIBAYASHI, AKIRA, JP

[72] BOON, CHOONG SENG, JP

[72] TAN, THIEW KENG, JP

[71] NTT DOCOMO, INC., JP

[22] 2013-04-24

[41] 2014-01-09

[62] 3,000,382

[30] JP (2012-148310) 2012-07-02

[21] **3,050,650**
[13] A1

[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/072 (2006.01)**

[25] EN

[54] **MULTI-USE LOADING UNIT**

[54] **UNITE DE CHARGEMENT MULTI-USAGE**

[72] KOSTRZEWSKI, STANISLAW, US

[72] ARANYI, ERNEST, US

[72] SCIRICA, PAUL A., US

[72] POWERS, WILLIAM, US

[71] COVIDIEN LP, US

[22] 2012-11-09

[41] 2014-05-09

[62] 2,795,323

[21] **3,050,655**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 5/16 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTIBODIES SPECIFIC FOR CLAUDIN 6(CLDN6)**

[54] **ANTICORPS SPECIFIQUES POUR LA CLAUDINE 6 (CLDN6)**

[72] SAHIN, UGUR, DE

[72] TURECI, OZLEM, DE

[72] KOSLOWSKI, MICHAEL, DE

[72] WALTER, KORDEN, DE

[72] WOLL, STEFAN, DE

[72] KREUZBERG, MARIA, DE

[72] HUBNER, BERND, DE

[72] ERDELJAN, MICHAEL, DE

[71] GANYMED PHARMACEUTICALS GMBH, DE

[71] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATZSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE

[22] 2010-11-11

[41] 2011-05-19

[62] 2,775,373

[30] EP (09014136.7) 2009-11-11

[30] US (61/260,202) 2009-11-11

[30] EP (10006965.6) 2010-07-06

[30] US (61/361,618) 2010-07-06

[21] **3,050,656**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS**

[54] **FORMAT DE FICHER, PLATE-FORME DE STOCKAGE ET VERIFICATION DE JUSTIFICATIFS D'IDENTITE**

[72] SARKISSIAN, SHAUNT M., US

[71] CORTEX MCP, INC., US

[22] 2013-12-20

[41] 2014-06-26

[62] 2,934,873

[30] US (61/740,731) 2012-12-21

[30] US (13/794,878) 2013-03-12

[21] **3,050,657**
[13] A1

[51] **Int.Cl. E04H 4/16 (2006.01)**

[25] EN

[54] **SWIMMING POOL CLEANER**

[54] **APPAREIL DE NETTOYAGE DE PISCINE**

[72] RIEF, DIETER J., US

[72] SCHLITZER, HANS RAINER, US

[71] HAYWARD INDUSTRIES, INC., US

[22] 2013-09-23

[41] 2014-04-03

[62] 2,885,873

[30] US (13/627,637) 2012-09-26

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[21] 3,050,665 [13] A1	[21] 3,050,672 [13] A1	[21] 3,050,674 [13] A1
[51] Int.Cl. H04N 19/423 (2014.01) H04N 19/159 (2014.01) H04N 19/172 (2014.01) H04N 19/50 (2014.01)	[51] Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01)	[51] Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C12N 5/16 (2006.01) C12P 21/08 (2006.01)
[25] EN	[25] EN	[25] EN
[54] VIDEO PREDICTION ENCODING DEVICE, VIDEO PREDICTION ENCODING METHOD, VIDEO PREDICTION ENCODING PROGRAM, VIDEO PREDICTION DECODING DEVICE, VIDEO PREDICTION DECODING METHOD, AND VIDEO PREDICTION DECODING PROGRAM	[54] DLL3-BINDING ANTIBODIES AND DRUG CONJUGATES THEREOF TO TREAT CANCER	[54] ANTIBODIES DIRECTED AGAINST ICOS AND USES THEREOF
[54] DISPOSITIF DE CODAGE DE PREDICTION VIDEO, METHODE DE CODAGE DE PREDICTION VIDEO, PROGRAMME DE CODAGE DE PREDICTION VIDEO, DISPOSITIF DE DECODAGE DE PREDICTION VIDEO, METHODE DE DECODAGE DE PREDICTION VIDEO ET PROGRAMME DE DECODAGE DE PREDICTION VIDEO	[54] ANTICORPS LIANT DLL3 ET CONJUGUES DE MEDICAMENTS ASSOCIES SERVANT AU TRAITEMENT DU CANCER	[54] ANTICORPS DIRIGES CONTRE ICOS ET UTILISATION DE CEUX-CI
[72] FUJIBAYASHI, AKIRA, JP	[72] STULL, ROBERT A., US	[72] FAGET, JULIEN, FR
[72] BOON, CHOONG SENG, JP	[72] FOORD, ORIT, US	[72] CAUX, CHRISTOPHE, FR
[72] TAN, THIOU KENG, JP	[72] LIU, DAVID, US	[72] MENETRIER-CAUX, CHRISTINE, FR
[71] NTT DOCOMO, INC., JP	[72] TORGOV, MICHAEL, US	[72] NUNES, JACQUES, FR
[22] 2013-04-24	[72] SHAO, HUI, US	[72] OLIVE, DANIEL, FR
[41] 2014-01-09	[72] SAUNDERS, LAURA, US	[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[62] 3,000,382	[72] DYLLA, SCOTT J., US	[71] INSTITUT JEAN PAOLI & IRENE CALMETTES, FR
[30] JP (2012-148310) 2012-07-02	[71] ABBVIE STEMCENTRX LLC, US	[71] UNIVERSITE D'AIX-MARSEILLE, FR
	[22] 2013-02-22	[71] CENTRE LEON BERARD, FR
	[41] 2013-08-29	[71] UNIVERSITE CLAUDE BERNARD - LYON 1, FR
	[62] 2,865,404	[22] 2012-03-29
	[30] US (61/603,173) 2012-02-24	[41] 2012-10-04
	[30] US (61/719,803) 2012-10-29	[62] 2,830,442
		[30] EP (11305380.5) 2011-03-31
		[21] 3,050,698 [13] A1
		[51] Int.Cl. B01J 37/00 (2006.01)
		[25] EN
		[54] CATALYSTS FOR THE DEHYDRATION OF HYDROXYPROPIONIC ACID AND ITS DERIVATIVES
		[54] CATALYSEURS DE DESHYDRATATION D'ACIDE HYDROXYPROPIONIQUE ET DE SES DERIVES
		[72] VELASQUEZ, JUAN ESTEBAN, US
		[72] COLLIAS, DIMITRIS IOANNIS, US
		[72] GODLEWSKI, JANE ELLEN, US
		[72] WIREKO, FRED CHRISTIAN, US
		[71] THE PROCTER & GAMBLE COMPANY, US
		[22] 2016-08-29
		[41] 2017-03-09
		[62] 2,994,446
		[30] US (62/211,008) 2015-08-28

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[21] **3,050,701**
[13] A1

[51] **Int.Cl. E21B 43/20 (2006.01) E21B 43/12 (2006.01) E21B 43/30 (2006.01)**
[25] EN
[54] **HYDROCARBON RECOVERY WITH INJECTION OF PRESSURIZED FLUID AND PRODUCTION VIA SINGLE WELL RECUPERATION D'HYDROCARBURE PAR INJECTION DE FLUIDE SOUS PRESSION ET PRODUCTION AU MOYEN D'UN SEUL Puits**
[72] LASTIWKA, MARTIN, CA
[72] WATT, ALAN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2017-05-01
[41] 2018-11-01
[62] 2,965,633

[21] **3,050,708**
[13] A1

[51] **Int.Cl. A61M 11/02 (2006.01) A61M 11/00 (2006.01)**
[25] EN
[54] **AEROSOL DELIVERY DEVICE DISPOSITIF D'ADMINISTRATION D'AEROSOL**
[72] FINLAY, BRYAN, CA
[72] NUTTALL, MICHAEL, CA
[72] COULTES, BRANDON, CA
[72] NAGEL, MARK, CA
[72] PICKARD, MARK, CA
[71] TRUDELL MEDICAL INTERNATIONAL, CA
[22] 2011-08-24
[41] 2013-02-28
[62] 3,011,128
[30] US (61/376,644) 2010-08-24

[21] **3,050,711**
[13] A1

[51] **Int.Cl. E04B 1/62 (2006.01) E04B 1/682 (2006.01) F16L 59/02 (2006.01) F16L 59/14 (2006.01)**
[25] EN
[54] **CONTAINED FOAM ENVELOPE FOR INSULATING AND SEALING LARGE VOLUMES ENVELOPPE DE MOUSSE CONTENUE POUR L'ISOLEMENT ET LE SCHELLEMENT DE GRANDS VOLUMES**
[72] O'LEARY, ROBERT J., US
[72] GRIECO, WILLIAM J., US
[72] ALTER, HARRY, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2012-04-12
[41] 2012-10-18
[62] 2,832,183
[30] US (13/087,413) 2011-04-15
[30] US (13/192,563) 2011-07-28

[21] **3,050,726**
[13] A1

[51] **Int.Cl. F16L 21/06 (2006.01) F16L 19/04 (2006.01) F16L 23/04 (2006.01) F16L 25/04 (2006.01)**
[25] EN
[54] **COUPLING DISPOSITIF D'ACCOUPLLEMENT**
[72] BEAGEN, JOSEPH WILLIAM, JR., US
[71] ANVIL INTERNATIONAL, LLC, US
[22] 2012-05-07
[41] 2013-07-20
[62] 2,776,206
[30] US (13/354,470) 2012-01-20
[30] US (13/354,466) 2012-01-20
[30] US (13/354,464) 2012-01-20
[30] US (13/354,459) 2012-01-20

[21] **3,050,730**
[13] A1

[51] **Int.Cl. D01F 2/02 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING FIBROUS CELLULOSE, AND FIBROUS CELLULOSE PROCEDE DE PRODUCTION DE CELLULOSE FIBREUSE ET CELLULOSE FIBREUSE**
[72] HOMMA, IKUE, JP
[72] NOGUCHI, YUICHI, JP
[72] MATSUBARA, YUSUKE, JP
[71] OJI HOLDINGS CORPORATION, JP
[22] 2017-03-30
[41] 2017-10-05
[62] 3,019,292
[30] JP (2016-071161) 2016-03-31

[21] **3,050,734**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 38/22 (2006.01) A61K 38/38 (2006.01) A61K 39/395 (2006.01) A61P 37/02 (2006.01) C12P 17/12 (2006.01) C12P 21/02 (2006.01) C12N 5/0783 (2010.01)**
[25] EN
[54] **TREATMENT OF T-CELL MEDIATED DISEASES TRAITEMENT DE MALADIES A MEDIATION DES LYMPHOCYTES T**
[72] BAR-OR, DAVID, US
[72] BAR-OR, RAPHAEL, US
[72] SHIMONKEVITZ, RICHARD, US
[71] AMPIO PHARMACEUTICALS, INC., US
[22] 2004-05-14
[41] 2004-12-02
[62] 2,523,467
[30] US (60/471,017) 2003-05-15
[30] US (60/489,270) 2003-07-21
[30] US (60/514,930) 2003-10-27
[30] US (60/517,338) 2003-11-04

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[21] **3,050,756**

[13] A1

- [51] **Int.Cl. B26B 21/56 (2006.01) B26B 21/58 (2006.01)**
- [25] EN
- [54] **RAZOR BLADE, RAZOR HEAD, AND METHOD OF MANUFACTURE**
- [54] **LAME DE RASOIR, TETE DE RASOIR, ET PROCEDE DE FABRICATION**
- [72] DAVOS, VASILEIOS, GR
- [72] PAPACHRISTOS, VASSILIS, GR
- [72] EFTHIMIADIS, DIMITRIOS, GR
- [72] ZAFIROPOULOS, PANAGIOTIS, GR
- [72] SKOUNAKIS, NIKOLAOS, GR
- [72] KOMIANOS, LOANNIS, GR
- [72] KAROUSSIS, MICHALIS, GR
- [72] PAPAGEORGIOU, ANASTASIOS, GR
- [71] BIC VIOLEX S.A., GR
- [22] 2012-10-08
- [41] 2013-04-11
- [62] 2,849,730
- [30] EP (PCT/EP2011/067451) 2011-10-06

[21] **3,050,877**

[13] A1

- [51] **Int.Cl. H04L 12/825 (2013.01) H04W 4/00 (2018.01) H04L 12/853 (2013.01) H04N 19/154 (2014.01) H04N 19/166 (2014.01) H04B 17/309 (2015.01)**
- [25] EN
- [54] **CONGESTION INDUCED VIDEO SCALING**
- [54] **MISE A L'ECHELLE DE VIDEO INDUITE PAR CONGESTION**
- [72] BAO, YILIANG, US
- [72] GELL, DAVID, US
- [72] STANWOOD, KENNETH L., US
- [71] TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD., US
- [22] 2012-11-02
- [41] 2013-06-27
- [62] 2,858,998
- [30] US (61/579,324) 2011-12-22
- [30] US (13/644,650) 2012-10-04

[21] **3,050,768**

[13] A1

- [51] **Int.Cl. H03G 9/00 (2006.01) H03F 3/189 (2006.01) H03F 3/20 (2006.01) H04B 1/40 (2015.01) H04B 7/185 (2006.01)**
- [25] EN
- [54] **CONTROL SYSTEM FOR A POWER AMPLIFIER**
- [54] **SYSTEME DE COMMANDE POUR AMPLIFICATEUR DE PUISSANCE**
- [72] GOSS, MARTIN, GB
- [71] ASTRIUM LIMITED, GB
- [22] 2012-09-12
- [41] 2013-04-18
- [62] 2,851,555
- [30] EP (11275122.7) 2011-10-10

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GORSICH, JAMES CHRISTOPHER	2,891,503	HAUSSLER, FRANZ	2,926,697	HOWARTH, BRAD MICHAEL	2,833,106
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NEC CORPORATION	2,919,448	NOVENCO A/S	2,843,131	PASTORELLO, ANDREA	2,827,289
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NEESE, PAUL	2,810,384	NR ENGINEERING CO., LTD.	2,970,423	PATHOLOGICA LLC	2,768,018
NESBITT, ANDREW MALCOLM	2,751,477	NUR, ISRAEL	2,645,937	PATRICK, LAURA MARIE	2,905,011
NESTA, JASON	2,890,970	NUSCALE POWER, LLC	2,926,713	PECEN, MARK	2,843,538
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NEWBERRY, ROBERT STEVEN	2,999,410	OAKLEY, ROY LEE, JR.	2,889,219	PELLE, EDWARD	2,969,421
NEXTBIOMEDICAL CO., LTD.	2,961,058	OBAL, MICHAEL	3,028,820	PELLETIER, MICHAEL T.	2,883,243
NGUYEN, THANH HUU	2,966,273	OBSOLOVA, GALINA	2,867,299	PENZES, AGOTA	2,853,407
NICOLAES, GERARDUS ANNA FRANCISCUS	2,842,060	ODER II, JOHN DAVID	2,832,754	PERIYALWAR, SHALINI SURESH	2,843,538
NICOVENTURES HOLDINGS LIMITED	2,968,927	ODER, JOHN DAVID	2,832,754	PERMA-FIX ENVIRONMENTAL SERVICES, INC.	2,830,434
NIEBERLE, JORG	2,831,157	OEHRING, JARED	2,917,529	PERNODET, NADINE	2,969,421
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NIPPON KAYAKU KABUSHIKI KAISHA	2,863,374	OHTA, KEISUKE	2,974,074	PHARMAXIS LTD	2,841,390
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NIROGI, RAMAKRISHNA	3,023,836	OLSON, KURT G.	2,968,670	PIERCE, D. KYLE	2,829,095
NISHIBATA, TOSHINOBU	2,935,638	OMER, MOHAMMAD	3,022,527	PINDER, GARRY MARK	2,844,505
NISSHINBO MECHATRONICS INC.	2,980,416	OMRIX BIOPHARMACEUTICALS, INC.	2,645,937	PINEAU, JACKY	2,960,705
		OMYA INTERNATIONAL AG	2,944,098	PINHEIRO, ANA LUCIA A.	2,939,107
		ONE MEDIA, LLC	2,957,573	PIRAMAL ENTERPRISES LIMITED	2,825,845
		OYAYAMA, KOUICHI	2,842,076	PLETZ, MICHAEL	2,983,834
		OPTASENSE HOLDINGS LIMITED	2,841,561	PLETZ, MICHAEL	2,983,835
		ORGANOWOOD AB	2,818,836	PODACK, ECKHARD R.	2,806,840
		ORLOV, EVGENY	2,788,959	PODER, JAMES	2,739,197
		ORT, TATIANA	2,867,299	POESCHKE, OLIVER	2,849,820
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		OSGOOD, J. ANDREW	2,867,612	POLYCHRONIDIS, PETROS	2,885,607
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		OVD KINEGRAM AG	2,852,590	POSCHL, WOLFGANG	2,965,953
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VANDERBILT CHEMICALS,		WIEDEMANN, KARL	2,987,537	ZHOU, JUNJIE	2,972,833
LLC	2,993,998	WIENKE, DIRK	2,849,820	ZHU, XIN G	2,796,376
VANDERBIST, FRANCIS	2,857,980	WILDGOOSE, JASON LEE	2,900,739	ZI, BIN	2,950,546
VENIAMINOV, NICOLAY		WILK, SEBASTIEN	2,881,615	ZIMMERMAN, JEFFREY	2,842,212
ANDREEVICH	2,969,411	WILKES, ROBERT PEYTON	2,980,359	ZINCK, LAURENT	2,787,918
VERDIER, HUBERT PASCAL	2,843,690	WILLIAMS, BRIAN	2,984,418	ZINK, GERALD P.	3,042,555
VEROS, MICHAEL J.	2,893,700	WILSON, IAN JAMES	2,993,060	ZOBELE HOLDING SPA	2,842,823
VEROS, MICHAEL J.	2,978,303	WILSON, ROBERT FOSTER	2,798,711	ZPOWER, LLC	2,757,062
VERSALIS S.P.A.	2,756,541	WINCHESTER, JAMES CYRUS,		ZYMEWORKS INC.	2,653,349
VESTOLIT GMBH & CO. KG	2,907,479	III	2,889,219		
VETTORETTI, ALAIN	2,976,366	WOLF, DIETLINDE-MARIA	2,806,840		
VIECELI, SILVIO	2,653,349	WOLF, JOHN C.	2,795,798		
VIGNAU, HUBERT	2,839,967	WOLLFAHRT, CLAUDIA	2,787,918		
VIGUIER, CHRISTOPHE	2,839,967	WOLLSIEFEN, RAINER	2,811,222		
VIITALA, JANNE	2,849,941	WOLTERS, LAURENS G.J.	2,844,493		
VILJOEN, PIETER	2,770,419	WOODHOUSE, SIMON	2,838,994		
VINOCUR, BASIA JUDITH	2,732,773	WUILLEMIN, ZACHARIE	2,874,930		
VITALI, ROCCO	2,864,535	XU, WEN	2,810,384		
VOGT, SEBASTIAN	2,959,863	XUE, LIJUE	2,806,096		
VOISARD, CYRIL	2,838,017	XYLEM IP MANAGEMENT			
VONOLFEN, WOLFGANG	2,811,222	S.A.R.L.	2,973,763		
VOSATKA, MIROSLAV	2,825,856	YA-MAN LTD.	2,960,368		
VOSSLER, GERALD LES	2,968,988	YAGI, MASAOKI	2,974,717		
WADA, NAOFUMI	2,969,723	YAMAGUCHI, KEINA	2,765,242		
WADA, NAOYA	2,848,178	YAMASHITA, KENTA	2,980,052		
WADIN, CRAIG	2,841,787	YAMASHITA, KENTA	2,980,063		
WALDOFNER, NORBERT	2,844,774	YAMAZAKI, HIROYUKI	2,848,178		
WALLINGER, MARTIN	2,965,953	YAMAZAKI, TOMOHIDE	2,834,243		
WALLOCH, CRAIG T.	2,797,519	YAMAZAKI, YUICHI	2,842,076		
WALLWEBER, GERALD J.	3,016,914	YANG, DAOLONG	3,013,099		
WALSH, JEFFERSON		YANG, PEI	3,013,099		
BRIDGER	2,832,696	YASUDA, GOKI	2,969,723		
WALTER, HARALD	2,852,590	YASUKAWA, MASAHIRO	2,956,666		
WANG, BING	2,787,844	YAZDI, ALIREZA ZEHTAB	3,010,081		
WANG, DUNCHENG	2,782,942	YE, FANGGUO	2,845,459		
WANG, JINGYUAN	2,737,107	YEH, NORMAN K.	2,972,705		
WANG, SHAODONG	2,806,096	YETISIR, METIN	2,796,439		
WANG, WEN-TENG	3,003,817	YILDIZYAN, ALEKSAN	2,891,503		
WANG, WENBIN	3,022,442	YIN, GUANGCAI	2,950,546		
WASMOEN, TERRI LEE	2,791,396	YIU, CANDY	2,939,107		
WATANABE, TAKASHI	2,969,723	YIU, CANDY	2,958,300		
WATLOW ELECTRIC		YONEYAMA, TOMOAKI	3,003,246		
MANUFACTURING		YOUNG, RONALD			
COMPANY	2,965,953	ALEXANDER (SCOT)	2,867,437		
WATSON, DAVID	2,924,264	YOURIST, SHELDON E.	2,867,612		

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2C ENVIRO INC.	3,033,434	BULZACKI, ADRIAN	3,033,833	DOMEC, BRENNAN	3,033,773
ABL IP HOLDING LLC	3,033,285	BURELLE, LOUIS	3,033,603	DONG, KAIWU	3,031,964
ACCENTURE GLOBAL SOLUTIONS LIMITED	3,033,966	BURGESS, CHRIS	3,003,832	EAGLE TECHNOLOGY, LLC	3,033,284
ADINOLFI, AMANDA	3,033,786	BURHANUDDIN, TERAI	3,033,605	EAGLE TECHNOLOGY, LLC	3,033,287
AGATA, KATSUSHI	3,027,387	CAPITAL ONE SERVICES, LLC	3,032,693	EAGLE TECHNOLOGY, LLC	3,033,289
AGEE, LADARIUS	3,033,285	CAPITAL ONE SERVICES, LLC	3,032,711	EAGLE TECHNOLOGY, LLC	3,033,300
AGIT GLOBAL IP HOLDINGS, LLC	3,006,320	CAPITAL ONE SERVICES, LLC	3,033,010	EBERSOLE, GARRETT	3,033,786
ALBERT HANDTMANN MASCHINENFABRIK GMBH & CO. KG	3,033,980	CAPITAL ONE SERVICES, LLC	3,033,033	ELLIOTT, HOWARD	3,033,953
AMI INDUSTRIES, INC.	3,028,054	CAPITAL ONE SERVICES, LLC	3,033,806	EMBLIN, ERIC GORDON	3,030,266
ANDERSON, NOEL W.	3,029,915	CARNEY, BRAD	3,033,285	ENVION OY	3,034,087
ANGELLE, JEREMY R.	3,033,773	CAZAN, VIAD	3,033,833	ESKOLA, LAURI	3,034,087
APTIS MEDICAL, LLC	2,995,227	CHANG, DI-FONG	3,033,689	EURODRILL GMBH	3,030,840
ARB LABS INC.	3,033,833	CHANG, ERIC	3,033,658	EVONIK DEGUSSA GMBH	3,031,964
AUBIN-MARCHAND, JEREMIE	2,995,278	CHASTINE, JEFF	3,003,832	FANG, ZHONGYAO	3,000,375
AVALON RESEARCH LTD.	3,032,620	CHEN, CHIH-LUNG	3,032,985	FERNANDES DE OLIVEIRA, EDUARDO	3,033,966
AZNAURASHVILI, ZVIAD	3,032,711	CHENG, CHI-HAN	2,995,439	FILHO, LEOMAR OLIVEIRA DIAS	3,033,966
BABAEI, ALIREZA	3,034,009	CHO, DONGWOOK	2,995,242	FISCHER, STEVEN	3,033,605
BABAEI, ALIREZA	3,034,014	CHOI, SUNG HO	3,045,125	FISHER CONTROLS INTERNATIONAL LLC	3,033,770
BABAEI, ALIREZA	3,034,026	CHRISTIAN, RICHARD	3,032,166	FISHER CONTROLS INTERNATIONAL LLC	3,033,772
BABAEI, ALIREZA	3,034,076	CIAMPINI, FABIO	3,033,786	FITZPATRICK, SCOTT	3,033,603
BABIN, PIERRE	2,994,722	CIRIK, ALI	3,034,009	FLOTNER, RICHARD	3,000,375
BAKER, RAYMOND CLARK, IV	3,032,166	CIRIK, ALI	3,034,014	FORTIER, DEREK	2,995,254
BAMBERGER, MARK	2,995,096	CIRIK, ALI	3,034,026	FOWLER, ROBERT ERLING	3,033,790
BARILLA G. E R. FRATELLI S.P.A.	3,032,882	CLEARCOVE SYSTEMS, INC.	3,032,713	FOX, JASON E.	3,032,713
BAYRACK, MARTIN DALE	2,994,657	COHEN, GUY	3,033,689	FRANK'S INTERNATIONAL, LLC	3,033,773
BEAULIEU, GERARD	2,995,254	COHN, WILLIAM	3,033,828	FRANKE, ROBERT	3,031,964
BECK, JASON	3,034,041	COMCAST CABLE COMMUNICATIONS, LLC	3,034,009	FREITAS, JAMISSON SANTANA	3,033,966
BELL HELICOPTER TEXTRON INC.	3,030,264	COMCAST CABLE COMMUNICATIONS, LLC	3,034,014	FROESE, WILLIE	2,995,104
BELL HELICOPTER TEXTRON INC.	3,030,266	COMCAST CABLE COMMUNICATIONS, LLC	3,034,026	FRYER, MICHAEL A.	3,033,598
BELL, BRANDON WAYNE	3,033,770	COMCAST CABLE COMMUNICATIONS, LLC	3,034,076	FUBOTV INC.	3,045,125
BELL, BRANDON WAYNE	3,033,772	COURCY, CLAUDE	3,031,090	FUJIKURA LTD.	3,027,387
BELLER MATTHIAS	3,031,964	COUTU, DANIEL	3,033,860	FUNSETH, TRAVIS G.	3,029,915
BERSANI, ANGELO	3,033,284	COUTURE, RAPHAEL	2,995,278	GAGLIARDI, ANTONIO	3,032,882
BETTINGER, DANIEL	3,033,980	COVIDIEN LP	3,026,926	GAGNE, MAXIME	2,995,265
BIOSENSE WEBSTER (ISRAEL) LTD.	3,033,828	COVIDIEN LP	3,033,786	GAGNON, DAVID	2,995,278
BLANCHET, STEVE	3,032,711	CRUZ, MARIO A.	3,033,531	GEERPRES, INC.	3,003,503
BOMBARDIER RECREATIONAL PRODUCTS INC.	2,995,278	CUMMINGS, NETANYA	2,994,744	GIERTYCH, ANTHONY J.	3,003,832
BOSTWICK, DANIEL J.	3,033,584	DANSTAR FERMENT AG	3,034,087	GODWIN, JAMES PATRICK, JR.	3,031,683
BOYER, PHILIPPE	3,033,860	DASSAULT AVIATION	3,032,637	GOLINOWSKI, JEFFREY	3,032,620
BRAHMSTEDT, COLIN	3,033,828	DEBORD, JEFFREY T.	3,033,015	GONZE, ALBERT-PAUL	3,033,800
BRANDT EQUIPMENT SOLUTIONS LTD.	2,997,589	DEERE & COMPANY	3,029,915	GUASINA, LUCA	3,032,882
BROWN, CODY	3,032,620	DEERE & COMPANY	3,029,916	GUASTELLA, FABIANO JOSE DANIEK	3,033,966
BROWN, COLIN J.	2,995,242	DEROUIN, AARON	3,033,605	HALVERSON, AARON THOMAS	3,030,264
		DEVIN, CHARLES	2,995,265	HALVERSON, AARON THOMAS	3,030,266
		DINAN, ESMAEL	3,034,009	HANN, MURRAY T.	3,033,289
		DINAN, ESMAEL	3,034,014		
		DINAN, ESMAEL	3,034,026		
		DINAN, ESMAEL	3,034,076		
		DJURICA, RADOSLAV	2,995,276		
		DOERKSEN, LINLEY	2,995,261		
		DOLGONOS, ALEX	3,033,771		

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HARRY, DAVID R.	3,003,503	MAXTECH MOSQUITO CONTROL INC.	2,995,537	RIBBE, SCOTT E.	3,003,503
HEMERYCK, BRADLEY JAY	2,994,657	MCCOLLISTER, HOWARD	3,033,817	RIVAL, DAVID	3,033,603
HENDRICKS, ROBERT K., JR.	3,033,312	MCKECHNIE, KRIS	2,995,123	ROADTEC, INC.	3,032,166
HERRINGTON, DANIEL	3,033,806	MCKECHNIE, KRIS	3,033,434	ROBERTS, JOHN	3,003,832
HEULE WERKZEUG AG	3,033,782	MCKNIGHT, CRAIG	3,033,826	ROBERTSON, DAVID JOSEPH	3,030,394
HEWIT, RAYMOND C.	3,033,284	MCKONE, LIONEL W.	2,994,740	ROBINSON, CHRIS M.	3,033,312
HEWIT, RAYMOND C.	3,033,287	MCMILLAN, JENNIFER	3,033,826	RODRIGUEZ, ERIC O.	3,033,285
HEWIT, RAYMOND C.	3,033,300	MEDI-CLEAR LTD	3,033,953	ROGE, GILBERT	3,032,637
HIBNER, VERLIN A.	3,033,289	MEGAPRO BIOMEDICAL CO., LTD.	3,032,985	ROGER, YAN	2,995,278
HILLER, NATHAN D.	3,029,964	MENARD, SETH	3,033,773	ROSTEN, DOUGLAS	3,032,620
HO, HOI MING MICHAEL	3,030,086	MERLET, AURELIEN	3,032,637	ROSTEN, TREVOR	3,032,620
HOGAN, MARK PAUL	3,033,953	MERZHAUSER, MARKUS	3,030,840	ROTHER ANDRADE, LAILA	3,033,966
HOUCK, WILLIAM D.	3,032,854	MIDMARK CORPORATION	3,033,015	ROTMAN, DANIEL JOSEPH	2,998,020
HSIEH, WEN-YUAN	3,032,985	MILLER, MITCHELL B.	2,994,760	ROWLEY, DEAN	2,995,534
HSU, YUAN-HUNG	3,032,985	MOMOTSU, NORIHIRO	3,027,387	ROY, CHARLES	2,995,278
HUANG, CHIA-WEN	3,032,985	MORRISON, KELLY SUE	3,030,394	ROYAL GROUP, INC.	3,033,975
HUMPAL, RICHARD A.	3,029,915	MURRAY, THOMAS WILLIAM	3,033,658	SAFARYAN, KAREN	3,033,771
IBRAHIM, MUHAMMAD TALAL	3,033,833	NADLER, BRANDON SEVIER	3,033,975	SAVINI, MARCUS	3,033,773
INSCAPE CORPORATION	3,000,375	NATURAL GAS SOLUTIONS NORTH AMERICA, LLC	3,033,790	SCHEKER, LUIS ROMAN	2,995,227
IZZO, PATRICK HENRY	3,033,975	NERI, LEONARDO VALERIANO	3,033,966	SCHRADER, WOLFGANG	3,033,980
JACKSTELL, RALF	3,031,964	NEUMANN, HELFRIED	3,031,964	SEAMATICA AEROSPACE LTD.	3,033,799
JEON, HYOUNGSUK	3,034,009	OLINGER, RODNEY LEE	3,033,975	SEISKARI, PEKKA	3,034,087
JEON, HYOUNGSUK	3,034,014	OLTHETEN, ERIK JOHN	3,030,264	SEMPLE, CHRIS	2,997,589
JEON, HYOUNGSUK	3,034,026	OLTHETEN, ERIK JOHN	3,030,266	SHERIF, TIMUR	3,032,711
JEON, HYOUNGSUK	3,034,076	ORDERS, GARETT	3,028,054	SIMPLEHUMAN, LLC	3,033,689
JEWER, DIANA L.	2,995,522	OSHANA, SERGON	2,995,260	SMITH, ARTHUR D.	3,033,015
JEZEWSKI, JONI BRIDGET	3,032,693	OSHITARI, SATORU	3,018,852	SMITH, ARTHUR D.	3,033,015
JEZEWSKI, JONI BRIDGET	3,033,010	OWENS CORNING INTELLECTUAL CAPITAL, LLC	3,033,312	SMITH, KENJI	2,994,887
JOHAN, ZDENEK	3,032,637	OYAMA, MASATAKA	3,018,852	SMITH, KIYOSHI	2,994,887
JOUHIKAINEN, HANNES	3,032,711	PARK, KYUNGMIN	3,034,009	SMITH, LARRY A.	2,994,131
JOYNER, BRYAN ADAM	3,030,394	PARK, KYUNGMIN	3,034,014	SMITH, LOGAN	3,033,773
KARZ, ROBERT S.	3,032,713	PARK, KYUNGMIN	3,034,026	SMITH, MARK	2,995,537
KASILAG, CHRISTIAN	3,033,658	PARK, KYUNGMIN	3,034,076	SMITH, SEIJI	2,994,887
KATTAMURI, LAKSHMI NARASIMHA SARMA	3,033,033	PARKER, LEONARD A.	3,032,713	SMITH, VALTON	3,032,854
KELLY, RICK MARTIN	3,033,285	PARSHAD, DAVID	3,000,375	SONACA S.A.	3,033,800
KIRBY, CHRISTOPHER T.	3,033,531	PATNALA, SANTOSH SASIKANATH	2,995,244	SOUCY INTERNATIONAL INC.	2,995,265
KITCHEN, DEREK	3,032,620	PELLETIER, STEPHANE	2,995,278	SOUCY INTERNATIONAL INC.	2,995,278
KOCNER, MICHAL	3,006,320	PETERS, THOMAS D.	2,995,242	SPOONER, GREG	3,034,035
KOESTER, ROBIN	3,030,840	PICKETT, TERENCE D.	3,029,915	SPOONER, GREG	3,034,037
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KRUSZEWSKI, PAUL A.	2,995,242	PRATT & WHITNEY CANADA CORP.	3,033,860	STAPLETON, DAVID	2,995,104
KUHN, MATTHEW	3,033,828	PRESTON, JON A.	3,003,832	STEALTH BIOTHERAPEUTICS CORP	2,995,096
KUMAR, ASHWINI	3,033,033	PRETTY LITTER, INC.	2,998,020	STERNBERG LANTERNS, INC.	3,001,368
L'HERAULT, PATRICK	2,995,265	PRIDGEON & CLAY, INC.	3,033,584	STEWART, BRADLEY DAVID	2,994,659
L'HERAULT, PATRICK	2,995,278	QUEEN'S UNIVERSITY AT KINGSTON	3,033,603	STILBORN, MITCH	2,997,589
LAM, HUEY	3,034,035	QUINTIN MACHINERY LLC	3,033,658	STROHM, KURT	3,033,980
LAM, HUEY	3,034,037	RAILSERVE, INC.	3,003,832	STUDER, HARRY	3,033,782
LANE, RICHARD L.	3,033,015	RAVIER, LAURENT	3,033,800	SUMITOMO OSAKA CEMENT CO., LTD.	3,018,852
LARSEN, LUCAS B.	3,029,916	REES OPERATIONS PTY LTD	3,034,035	SYMBORSKI, THOMAS	3,045,125
LAWSON, STEPHAN	3,033,658	REES OPERATIONS PTY LTD	3,034,037	SYNCRUDE CANADA LTD.	3,033,826
LAWSON, STEPHAN	3,033,658	REIMERS, MATTHEW	3,034,035	TAIWAN FU HSING INDUSTRIAL CO., LTD.	3,008,088
LESTER, DAVID C.	2,995,962	REIMERS, MATTHEW	3,034,037	TAVARES DA SILVA, RENATO	3,033,966
LI, YAKE	3,033,799			TEUFEL, RAINER B.	3,033,015
LI, ZHI	2,994,737			THE BOEING COMPANY	3,029,964
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LIU, WAIGAN W.	3,033,584			THIBODEAUX, ROBERT L.	3,033,773
LIVINGSTON, HOWARD	3,033,658			TIMARIU, IOANA	2,995,506
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UNKNOWN	2,994,722
UNKNOWN	2,995,506
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VIAVI SOLUTIONS INC.	3,032,854
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WIENS, JASON	3,033,826
WILLEY, BRENT M.	3,033,015
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WORMSBECKER, MICHAEL	3,033,826
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WRIGHT, BRIAN N.	3,033,284
WRIGHT, BRIAN N.	3,033,287
WRIGHT, BRIAN N.	3,033,289
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YAMAYA, RYUUTA	3,018,852
YANG, FRANK	3,033,689
YEH, TZONG IN	3,006,320
YUAN MEI CORP.	2,995,439
ZHANG, MAGGIE	2,995,242
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ZHOU, HUA	3,034,014
ZHOU, HUA	3,034,026
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ABRAHAM J AND PHYLLIS		ARON, KENNETH P.	3,051,465	BECASSE, SEBASTIEN	3,051,784
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ABSALON, JUDITH	3,051,801	ASAÏ, AKIHIRO	3,051,817	COMPANY	3,051,577
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ACOSTA, RICARDO	3,051,462	SYSTEMS AB	3,051,778	BELLEMARE-DAVIS,	
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