Canadian Intellectual Property Office

An Agency of Industry Canada

Office de la propriété intellectuelle du Canada

Un organisme d'Industrie Canada

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 147 No. 26 June 25, 2019

Vol. 147 No. 26 le 25 juin 2019

Canada

CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

Johanne Bélisle
Commissioner of Patents

Johanne Bélisle
Commissaire aux brevets

Table of Contents
Table des matières

Notices

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

Avis

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'indentification 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**).

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. 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

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. 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.

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.

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. 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.

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. 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.

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. List of Patents Available for Licence or Sale

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

None

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.

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. 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).

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. 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

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

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).

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 57.2*a*)) **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. 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**).

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

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).

(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. Correspondence Procedures

Publication date: May 10, 2017
Amendment date: June 17, 2019

On this page:

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

14. Procédures de correspondance

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

Sur cette page :

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

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.

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 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

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

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

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

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).

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 ou l’OPIC l’a reçue (Heure de l’Est).

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:

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)

(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'acquittement 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

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

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

Marques de commerce

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

- 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

Trademarks Opposition Board's online web application:

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

des marques de commerce.

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

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

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

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

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.

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.

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.

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.

Integrated Circuit Topographies

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

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

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 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.

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

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.

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.

Electronic Media accepted by the Patent Office

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

Supports électroniques acceptés par le Bureau des brevets

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

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

Trademarks and Industrial Design

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

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

Marques de commerce et dessins industriels

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the 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 ½" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

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

Version 1.4

- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

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

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.

Marques de commerce

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

Dessins industriels

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

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

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

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

5. Time Period Extensions

- Time period extensions under the Patent, Trademarks

5. Prorogation des délais

- Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins

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

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 règlementaire** 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 règlementaires** 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 (1er 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 (1er 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.

December 26 will be extended to the following Wednesday.

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

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

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

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

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

La prorogation de délai concernant les jours prescrits ou 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.

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.

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.

Time period extensions under the Patent Cooperation Treaty

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

Rule 80.5 of the Regulations under the PCT provides:

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

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

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

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

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

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

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

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.

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. Procedures in Case of an Unexpected Office Closure at CIPO

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé^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.

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. 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

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. Canadian Applications Open to Public Inspection

15. Demandes canadiennes mises à la disponibilité du public

The *Canadian Patent Office Record* of June 25, 2019 contains applications open to public inspection from June 9, 2019 to June 15, 2019.

La *Gazette du bureau des brevets* du 25 juin 2019 contient les demandes disponibles au public pour consultation pour la période du 9 juin 2019 au 15 juin 2019.

Canadian Patents Issued

June 25, 2019

Brevets canadiens délivrés

25 juin 2019

[11] **2,560,696**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/6886 (2018.01) A61K 31/352 (2006.01) A61K 31/5377 (2006.01) A61K 31/7105 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07H 21/04 (2006.01) C07K 16/40 (2006.01) C12N 9/12 (2006.01) C12N 15/54 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **MUTATIONS OF THE PIK3CA GENE IN HUMAN CANCERS**
[54] **MUTATIONS DU GENE PIK3CA DANS LES CANCERS HUMAINS**
[72] SAMUELS, YARDENA, US
[72] VELCULESCU, VICTOR, US
[72] KINZLER, KENNETH W., US
[72] VOGELSTEIN, BERT, US
[73] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2006-09-21
[86] 2005-02-18 (PCT/US2005/005193)
[87] (WO2005/091849)
[30] US (60/548,886) 2004-03-02

[11] **2,574,060**
[13] C
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 31/715 (2006.01) A61K 38/00 (2006.01) A61P 37/04 (2006.01) B01D 15/34 (2006.01) B01D 21/26 (2006.01) B01D 61/14 (2006.01) C12P 19/04 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **IMMUNE MODULATING COMPOUNDS FROM FUNGI**
[54] **COMPOSES A MODULATION IMMUNITAIRE ISSUS DE CHAMPIGNONS**
[72] KRISTIANSEN, BJOERN, NO
[73] GLYCANOVA AS, NO
[85] 2007-01-16
[86] 2005-07-15 (PCT/DK2005/000498)
[87] (WO2006/007848)
[30] US (10/892,393) 2004-07-16
[30] DK (PA 2005 00881) 2005-06-15
[30] US (60/690,477) 2005-06-15
[30] DK (PA 2005 00882) 2005-06-15
[30] US (60/690,482) 2005-06-15
[30] DK (PA 2005 00880) 2005-06-15
[30] US (60/690,496) 2005-06-15

[11] **2,580,532**
[13] C
[51] **Int.Cl. G01N 33/68 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS RELATING TO ALZHEIMER'S DISEASE**
[54] **PROCEDES ET COMPOSITIONS LIES A LA MALADIE D'ALZHEIMER**
[72] WESTBROOK, JULES, GB
[72] BYERS, HELEN, GB
[72] WARD, MALCOLM, GB
[72] LOVESTONE, SIMON, GB
[72] HYE, ABDUL, GB
[72] LYNHAM, STEPHEN, GB
[72] JOUBERT, RICHARD, DE
[72] PREFOT, PETRA, DE
[72] KUHN, KARSTEN, DE
[72] BAUMANN, CHRISTIAN, DE
[72] SCHAEFER, JUERGEN, DE
[72] PRINZ, THORSTEN, DE
[72] KIENLE, STEFAN, DE
[73] PROTEOME SCIENCES PLC, GB
[73] KING'S COLLEGE LONDON, GB
[85] 2007-03-16
[86] 2005-09-29 (PCT/GB2005/003756)
[87] (WO2006/035237)
[30] GB (0421639.6) 2004-09-29

[11] **2,582,550**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01) C12N 5/10 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **RNA CONSTRUCTS**
[54] **CONSTRUCTIONS D'ARN**
[72] VAN DE CRAEN, MARC, BE
[72] PLAETINCK, GEERT, BE
[72] VERCAUTEREN, ISABELLE, BE
[72] LOGGHE, MARC GEORGES, BE
[72] BOGAERT, THIERRY ANDRE OLIVIER EDDY, BE
[72] ZWAAL, RICHARD, BE
[73] DEVGEN NV, BE
[85] 2007-04-03
[86] 2005-10-25 (PCT/IB2005/003557)
[87] (WO2006/046148)
[30] GB (0423659.2) 2004-10-25
[30] US (60/621,800) 2004-10-25
[30] US (60/683,551) 2005-05-20

---

[11] **2,610,839**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 1/14 (2006.01) C07K 1/02 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **SELF-BUFFERING PROTEIN FORMULATIONS**
[54] **PREPARATIONS DE PROTEINES A TAMPONNAGE SPONTANE**
[72] GOKARN, YATIN R., US
[72] KRAS, EVA, US
[72] REMMELE, RICHARD LOUIS, JR., US
[72] BREMS, DAVID N., US
[72] HERSHENSON, SUSAN IRENE, US
[73] AMGEN INC., US
[85] 2007-12-04
[86] 2006-06-08 (PCT/US2006/022599)
[87] (WO2006/138181)
[30] US (60/690,582) 2005-06-14

---

[11] **2,643,317**
[13] C
[51] **Int.Cl. E05B 51/02 (2006.01) B64C 1/14 (2006.01) B64D 25/00 (2006.01) B63B 35/58 (2006.01)**
[25] EN
[54] **PRESSURE ACTIVATED LATCH**
[54] **VERROU ACTIONNE PAR PRESSION**
[72] BERMAL, JAY VELITARIO, US
[73] APICAL INDUSTRIES, INC., US
[85] 2008-08-22
[86] 2007-02-22 (PCT/US2007/004595)
[87] (WO2007/100603)
[30] US (11/361,821) 2006-02-24

---

[11] **2,667,073**
[13] C
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/07 (2010.01) C12N 5/073 (2010.01) A01K 67/027 (2006.01)**
[25] EN
[54] **METHOD FOR THE ISOLATION OF PLURIPOTENT CELLS FROM A PRE-IMPLANTATION EMBRYO IN A CULTURE MEDIUM FREE FROM ANIMAL SERUM.**
[54] **METHODE D'ISOLEMENT DE CELLULES PLURIPOTENTES A PARTIR D'UNE PREIMPLANTATION D'EMBRYON DANS UN MILIEU DE CULTURE EXEMPT DE SERUM ANIMAL**
[72] VASSILIEV, IVAN, AU
[72] NOTTLE, MARK BRENTON, AU
[73] ICMSTEMCELL PTY LTD, AU
[85] 2009-04-21
[86] 2007-10-24 (PCT/AU2007/001619)
[87] (WO2008/049161)
[30] AU (2006905889) 2006-10-24

---

[11] **2,685,309**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **DGAT GENES FROM YARROWIA LIPOLYTICA FOR INCREASED SEED STORAGE LIPID PRODUCTION AND ALTERED FATTY ACID PROFILES IN SOYBEAN**
[54] **GENES DGAT ISSUS DE YARROWIA LIPOLYTICA PERMETTANT D'OBTENIR UNE PRODUCTION DE LIPIDES DE RESERVE DE GRAINES ACCRUE ET DES PROFILS D'ACIDES GRAS MODIFIES DANS DU SOJA**
[72] MEYER, KNUT, US
[72] HITZ, WILLIAM D., US
[72] YADAV, NARENDRA S., US
[72] DAMUDE, HOWARD G., US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
[85] 2009-10-26
[86] 2008-05-23 (PCT/US2008/064621)
[87] (WO2008/147935)
[30] US (60/939,872) 2007-05-24
[30] US (61/013,406) 2007-12-13

---

[11] **2,686,140**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) C10G 1/04 (2006.01) E21B 43/34 (2006.01) F22B 33/18 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR WATER RECOVERY FROM TAILINGS**
[54] **UN SYSTEME ET UNE METHODE DE RECUPERATION DE L'EAU DES RESIDUS**
[72] BETSER-ZILEVITCH, MAOZ, CA
[73] BETSER-ZILEVITCH, MAOZ, CA
[86] (2686140)
[87] (2686140)
[22] 2009-11-23
[30] CA (2,665,747) 2009-05-12
[30] US (61/122,195) 2008-12-12
[30] CA (2,665,751) 2009-05-12

---

[11] **2,687,170**
[13] C
[51] **Int.Cl. C12N 15/90 (2006.01) C12N 15/10 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A RECOMBINANT PROTEIN ON A MANUFACTURING SCALE**
[54] **PROCEDE DE PRODUCTION D'UNE PROTEINE RECOMBINEE A L'ECHELLE INDUSTRIELLE**
[72] STRIEDNER, GERALD, AT
[72] HUBER, HANS, AT
[72] KELLER, DANIELA, DE
[73] BOEHRINGER INGELHEIM RCV GMBH & CO KG, AT
[73] SANDOZ AG, CH
[85] 2009-11-12
[86] 2008-05-16 (PCT/EP2008/056062)
[87] (WO2008/142028)
[30] EP (07009872.8) 2007-05-17

[11] **2,695,191**
[13] C
[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] FR
[54] **I-PLASTIN ASSAY METHOD FOR THE IN VITRO DIAGNOSIS OF COLORECTAL CANCER**
[54] **PROCEDE DE DOSAGE DE LA PLASTINE-I POUR LE DIAGNOSTIC IN VITRO DU CANCER COLORECTAL**
[72] ARPIN, MONIQUE, FR
[72] BATTAIL-POIROT, NICOLE, FR
[72] BEAULIEU, CORINNE, FR
[72] CHARRIER, JEAN-PHILIPPE, FR
[72] CHOQUET-KASTYLEVSKY, GENEVIEVE, FR
[73] BIOMERIEUX, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] INSTITUT CURIE, FR
[85] 2010-01-13
[86] 2008-07-10 (PCT/FR2008/051294)
[87] (WO2009/019369)
[30] FR (0705198) 2007-07-19

[11] **2,715,874**
[13] C
[51] **Int.Cl. B01D 53/62 (2006.01) A62D 3/33 (2007.01) C01B 32/50 (2017.01) B01D 53/02 (2006.01)**
[25] EN
[54] **EXTRACTION AND SEQUESTRATION OF CARBON DIOXIDE**
[54] **EXTRACTION ET SEQUESTRATION DE DIOXYDE DE CARBONE**
[72] WRIGHT, ALLEN B., US
[72] LACKNER, KLAUS S., US
[73] CARBON SINK INC., US
[85] 2010-08-18
[86] 2009-02-19 (PCT/US2009/034554)
[87] (WO2009/105566)
[30] US (61/029,831) 2008-02-19
[30] US (61/079,776) 2008-07-10
[30] US (61/074,972) 2008-06-23

[11] **2,716,846**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **GENETICALLY MODIFIED REDUCED-BROWNING FRUIT-PRODUCING PLANT AND PRODUCED FRUIT THEREOF, AND METHOD OF OBTAINING SUCH**
[54] **PLANTE A FRUITS A BRUNISSEMENT REDUIT GENETIQUEMENT MODIFIEE, SON FRUIT PRODUIT ET SON PROCEDE D'OBTENTION**
[72] ARMSTRONG, JOHN, CA
[72] LANE, WILLIAM DAVID, CA
[73] OKANAGAN SPECIALTY FRUITS INC., CA
[85] 2010-08-26
[86] 2009-02-26 (PCT/CA2009/000212)
[87] (WO2009/105870)
[30] US (61/031,821) 2008-02-27

[11] **2,723,723**
[13] C
[51] **Int.Cl. A61M 5/142 (2006.01)**
[25] EN
[54] **IMPLANTABLE DRUG-DELIVERY DEVICES, AND APPARATUS AND METHODS FOR FILLING THE DEVICES**
[54] **DISPOSITIFS IMPLANTABLES D'ADMINISTRATION DE MEDICAMENTS, ET APPAREILS ET PROCEDES DE REMPLISSAGE DE CES DISPOSITIFS**
[72] SHIH, JASON, US
[72] PANG, CHANGLIN, US
[72] JIANG, FUKANG, US
[72] CAFFEY, SEAN, US
[72] HUMAYUN, MARK, US
[72] TAI, YU-CHONG, US
[72] PECK, RAYMOND, US
[73] MINIPUMPS, LLC, US
[85] 2010-11-05
[86] 2009-05-08 (PCT/US2009/043313)
[87] (WO2009/137777)
[30] US (61/197,817) 2008-10-30
[30] US (61/198,126) 2008-11-03
[30] US (61/197,752) 2008-10-30
[30] US (61/051,422) 2008-05-08

[11] **2,724,069**
[13] C
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/31 (2006.01) G09F 25/00 (2006.01)**
[25] EN
[54] **MEDICAMENT DELIVERY DEVICE HAVING AN ELECTRONIC CIRCUIT SYSTEM**
[54] **DISPOSITIF DE DISTRIBUTION DE MEDICAMENT COMPRENANT UN SYSTEME DE CIRCUIT ELECTRONIQUE**
[72] EDWARDS, ERIC S., US
[72] EDWARDS, EVAN T., US
[72] LICATA, MARK J., US
[72] MEYERS, PAUL F., US
[72] WEINZIERL, DAVID A., US
[73] KALEO, INC., US
[85] 2010-11-10
[86] 2009-05-12 (PCT/US2009/043578)
[87] (WO2009/140251)
[30] US (12/119,016) 2008-05-12
[30] US (12/180,708) 2008-07-28

[11] **2,731,071**
[13] C
[51] **Int.Cl. G06Q 30/08 (2012.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **ADVERTISING INVENTORY ALLOCATION**
[54] **ATTRIBUTION D'INVENTAIRE DE PUBLICITE**
[72] STUKENBORG, STEVE, US
[72] ZIGMOND, DANIEL J., US
[72] BAYER, JASON, US
[72] TOM, DANNY, US
[72] KAUSTUV, US
[72] DUGGAL, JAGPREET S., US
[72] GARDNER, ROBERT D., US
[72] CHANDRA, DEEPAK, US
[72] NISAN, NOAM, IL
[72] FRANJI, TAL, IL
[72] SELTZER, MISHA, IL
[72] VARIAN, HAL, R., US
[72] MATIAS, YOSSI, IL
[72] RHODES, NEIL C., US
[73] GOOGLE LLC, US
[85] 2011-01-17
[86] 2009-07-17 (PCT/US2009/051056)
[87] (WO2010/009437)
[30] US (61/081,600) 2008-07-17
[30] US (12/504,152) 2009-07-16

[11] **2,737,673**
[13] C
[51] **Int.Cl. E05B 47/00 (2006.01) H02J 15/00 (2006.01) H02K 7/00 (2006.01) H02K 7/116 (2006.01) H02K 37/00 (2006.01) H02N 2/18 (2006.01)**
[25] EN
[54] **ELECTRIC DOOR RELEASE POWERED BY AN ENERGY HARVESTER**
[54] **DECLENCHEMENT D'UNE PORTE ELECTRIQUE ALIMENTE PAR UN DISPOSITIF RECOLTANT L'ENERGIE**
[72] WEBB, MICHAEL A., US
[72] CHRISTIANSEN, CHARLES, US
[72] HANCHETT, LELAND J., JR., US
[72] SULLIVAN, SCOTT, US
[73] HANCHETT ENTRY SYSTEMS, INC., US
[86] (2737673)
[87] (2737673)
[22] 2011-04-15
[30] US (61/324,698) 2010-04-15

[11] **2,738,287**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) C12M 1/34 (2006.01) G01N 33/74 (2006.01) C12Q 1/04 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING ANALYTES**
[54] **PROCEDE DE DETECTION D'ANALYTES**
[72] ABRAMS, EZRA, US
[72] GITE, SADANAND, US
[72] SHINEFELD, LISA, US
[72] STRAUS, DON, US
[72] SIEK, GORDON, US
[72] YANTZ, GREG, US
[73] FIRST LIGHT BIOSCIENCES, INC., US
[85] 2011-03-23
[86] 2009-09-24 (PCT/US2009/058270)
[87] (WO2010/036827)
[30] US (61/099,830) 2008-09-24

[11] **2,741,959**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6872 (2018.01)**
[25] EN
[54] **SEQUENCING OF NUCLEIC ACID MOLECULES BY MASS SPECTROMETRY**
[54] **SEQUENCAGE DE MOLECULES D'ACIDES NUCLEIQUES PAR SPECTROMETRIE DE MASSE**
[72] TURNER, JOHN, DE
[72] HOOS, JOHANNES, DE
[72] KLUSSMANN, SVEN, DE
[73] NOXXON PHARMA AG, DE
[85] 2011-04-28
[86] 2009-10-29 (PCT/EP2009/007754)
[87] (WO2010/049156)
[30] EP (08018916.0) 2008-10-29

[11] **2,743,767**
[13] C
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 31/191 (2006.01) A61K 47/36 (2006.01) A61P 25/32 (2006.01)**
[25] FR
[54] **NOVEL COMPOSITION BASED ON GAMMA-HYDROXYBUTYRIC ACID**
[54] **NOUVELLE COMPOSITION A BASE D'ACIDE GAMMA-HYDROXYBUTYRIQUE**
[72] LEBON, CHRISTOPHE, FR
[72] SUPLIE, PASCAL, FR
[73] DEBREGEAS ET ASSOCIES PHARMA, FR
[85] 2011-05-13
[86] 2009-11-10 (PCT/FR2009/052169)
[87] (WO2010/055260)
[30] FR (0857763) 2008-11-14

[11] **2,746,657**
[13] C
[51] **Int.Cl. H02K 15/03 (2006.01) F03D 9/25 (2016.01) H02K 1/28 (2006.01)**
[25] EN
[54] **PERMANENT MAGNET ROTOR ARRANGEMENT AND METHOD FOR PRODUCING SUCH AN ARRANGEMENT**
[54] **ENSEMBLE ROTOR A AIMANT PERMANENT ET METHODE DE PRODUCTION D'UN TEL ENSEMBLE**
[72] STIESDAL, HENRIK, DK
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[86] (2746657)
[87] (2746657)
[22] 2011-07-18
[30] EP (10007522) 2010-07-20

[11] **2,749,020**
[13] C
[51] **Int.Cl. B01J 19/00 (2006.01) B01J 19/08 (2006.01) H05H 1/00 (2006.01)**
[25] EN
[54] **PLASMA MICROREACTOR APPARATUS, STERILISATION UNIT AND ANALYSER**
[54] **MICROREACTEUR A PLASMA, UNITE DE STERILISATION ET ANALYSEUR**
[72] ZIMMERMAN, WILLIAM BAUER JAY, GB
[72] LOZANO PARADA, JAIME HUMBERTO, CO
[73] PERLEMAX LTD, GB
[85] 2011-07-06
[86] 2010-01-06 (PCT/GB2010/050012)
[87] (WO2010/079351)
[30] GB (0900083.7) 2009-01-06

[11] **2,749,542**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR FINE ADJUSTMENT OF A PERCUTANEOUS VALVE STRUCTURE**
[54] **PROCEDE ET APPAREIL DE REGLAGE FIN D'UNE STRUCTURE DE VALVE PERCUTANEE**
[72] RICHTER, YORAM, IL
[72] RICHTER, JACOB, IL
[72] WEISZ, ETY, IL
[73] VALVE MEDICAL LTD, IL
[85] 2011-07-12
[86] 2010-01-13 (PCT/IB2010/000051)
[87] (WO2010/079426)
[30] US (61/144,007) 2009-01-12
[30] US (12/686,340) 2010-01-12

[11] **2,750,338**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6813 (2018.01) C12N 1/06 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **SEQUENCE-SPECIFIC LARGE VOLUME SAMPLE PREPARATION METHOD AND ASSAY**
[54] **PROCEDE DE PREPARATION D'UN ECHANTILLON DE GRAND VOLUME SPECIFIQUE A UNE SEQUENCE ET DOSAGE**
[72] O'NEIL, DOMINIC, US
[72] UPTON, KAROLINA, US
[72] NAZARENKO, IRINA, US
[72] LOEFFERT, DIRK, US
[72] KOBAYASHI, LORI, US
[72] RANGWALLA, SAMEERA, US
[72] DOSEEVA, VICTORIA, US
[72] WOLFF, JOHN, US
[72] FORBES, THOMAS, US
[73] QIAGEN GAITHERSBURG, INC., US
[85] 2011-07-21
[86] 2010-01-27 (PCT/US2010/022264)
[87] (WO2010/088292)
[30] US (61/147,862) 2009-01-28
[30] US (61/242,193) 2009-09-14

[11] **2,751,012**
[13] C
[51] **Int.Cl. E04D 1/22 (2006.01) B32B 11/12 (2006.01)**
[25] EN
[54] **ASPHALT SHINGLE, ROOF COVERING THEREWITH AND METHOD OF MAKING THE SAME WITH SYNCHRONIZED ADHESIVE POSITIONING THEREON**
[54] **BARDEAU D'ASPHALTE, RECOUVREMENT DE TOITURE AVEC LEDIT BARDEAU D'ASPHALTE ET METHODE DE FABRICATION AVEC POSITIONNEMENT ADHESIF SYNCHRONISE**
[72] JENKINS, ROBERT L., US
[73] CERTAIN TEED CORPORATION, US
[86] (2751012)
[87] (2751012)
[22] 2011-08-30
[30] US (13/155,736) 2011-06-08

[11] **2,757,238**
[13] C
[51] **Int.Cl. A63B 69/00 (2006.01) A63B 71/06 (2006.01)**
[25] EN
[54] **MONITORING OF PHYSICAL TRAINING EVENTS**
[54] **SUIVI D'EVENEMENTS D'ENTRAINEMENT PHYSIQUE**
[72] CROWLEY, MICHAEL JAMES, US
[72] KING, KEVIN, US
[73] RUSSELL BRANDS, LLC, US
[85] 2011-09-26
[86] 2010-03-29 (PCT/US2010/029068)
[87] (WO2010/111705)
[30] US (61/164,277) 2009-03-27
[30] US (61/249,526) 2009-10-07

[11] **2,758,354**
[13] C
[51] **Int.Cl. C12P 7/18 (2006.01) C12N 1/36 (2006.01)**
[25] EN
[54] **CONTINUOUS CULTURE FOR 1,3-PROPANEDIOL PRODUCTION USING HIGH GLYCERINE CONCENTRATION**
[54] **CULTURE CONTINUE POUR LA PRODUCTION DE 1,3-PROPANEDIOL A L'AIDE D'UNE CONCENTRATION EN GLYCERINE ELEVEE**
[72] CHATEAU, MICHEL, FR
[72] DUBOIS, JEAN-YVES, FR
[72] SOUCAILLE, PHILIPPE, FR
[73] METABOLIC EXPLORER, FR
[85] 2011-10-11
[86] 2010-05-05 (PCT/EP2010/056078)
[87] (WO2010/128070)
[30] EP (09159401.0) 2009-05-05
[30] US (61/175,564) 2009-05-05

[11] **2,760,177**
[13] C
[51] **Int.Cl. A23L 33/125 (2016.01) A23L 29/275 (2016.01) A23L 29/30 (2016.01) A23L 33/00 (2016.01) A61K 31/715 (2006.01) A61P 3/08 (2006.01)**
[25] EN
[54] **FOOD FORMULATION COMPRISING GLYCOGEN**
[54] **FORMULATION ALIMENTAIRE COMPRENANT DU GLYCOGENE**
[72] RUSSO, VINCENZO, IT
[72] LIBERATI, ELISA, IT
[72] BIONDI, GIUSEPPE (DECEASED), IT
[73] AZIENDE CHIMICHE RIUNITE ANGELINI FRANCESCO A.C.R.A.F.S.P.A., IT
[85] 2011-10-26
[86] 2010-07-29 (PCT/EP2010/061002)
[87] (WO2011/015509)
[30] EP (09425315.0) 2009-08-03

[11] **2,760,946**
[13] C
[51] **Int.Cl. C07D 487/12 (2006.01) A61P 29/00 (2006.01) C07D 487/14 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR STUDYING, IMAGING, AND TREATING PAIN**
[54] **PROCEDES ET COMPOSITIONS POUR ETUDIER, VISUALISER PAR IMAGERIE ET TRAITER LA DOULEUR**
[72] DU BOIS, JUSTIN, US
[72] MULCAHY, JOHN, US
[72] ANDRESEN, BRIAN, US
[72] YEOMANS, DAVID C., US
[72] BISWAL, SANDIP, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2011-11-03
[86] 2010-05-07 (PCT/US2010/034035)
[87] (WO2010/129864)
[30] US (61/176,172) 2009-05-07
[30] US (12/800,053) 2010-05-07

---

[11] **2,761,008**
[13] C
[51] **Int.Cl. C12N 9/42 (2006.01) C12C 1/00 (2006.01) C12C 5/00 (2006.01) C12C 7/04 (2006.01) C12N 9/24 (2006.01)**
[25] EN
[54] **ENZYME COMPLEX FROM TRICHODERMA REESEI AND P. FUNICULOSUM ENZYMES**
[54] **COMPLEXE D'ENZYME OBTENU DES ENZYMES TRICHODERMA REESEI ET P. FUNICULOSUM**
[72] FISH, NEVILLE MARSHALL, GB
[72] MILLER, LONE BROEND, DK
[73] DUPONT NUTRITION BIOSCIENCES APS, DK
[85] 2011-11-03
[86] 2010-05-07 (PCT/EP2010/056259)
[87] (WO2010/128140)
[30] EP (09159680.9) 2009-05-07
[30] US (61/176,162) 2009-05-07

---

[11] **2,763,268**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/30 (2014.01) A63F 3/06 (2006.01)**
[25] EN
[54] **ONLINE GAMING WITH EMBEDDED REAL WORLD MONETARY WINS VIA LOTTERIES AND SKILL-BASED WAGERING**
[54] **JEU EN LIGNE A GAINS MONETAIRES REELS INTEGRES PAR LE TRUCHEMENT DE LOTERIES ET DE PARIS AXES SURLE NIVEAU DES COMPETENCES**
[72] SCHULZKE, KEN, CA
[72] ADAMS, CAMERON, CA
[72] ROY, ERIC, CA
[72] RASSIAS, GEORGE, CA
[72] LAM, JASON, CA
[72] LUSSIER, LOUIS-PHILIPPE, CA
[72] ROY, SERGE, CA
[72] HEINTZ, TODD, CA
[73] INTERPROVINCIAL LOTTERY CORPORATION, CA
[86] (2763268)
[87] (2763268)
[22] 2012-01-09
[30] US (61/492,702) 2011-06-02
[30] US (61/492,644) 2011-06-02
[30] US (61/430,889) 2011-01-07

---

[11] **2,766,824**
[13] C
[51] **Int.Cl. H01H 71/08 (2006.01) H01R 4/48 (2006.01) H01R 9/26 (2006.01) H01R 25/16 (2006.01)**
[25] EN
[54] **SIDE ACCESSIBLE CIRCUIT BREAKER TO BUS CONNECTIONS**
[54] **DISJONCTEUR A ACCES LATERAL AUX CONNEXIONS DE BUS**
[72] MALONEY, JAMES GERARD, US
[72] SAMUELSON, ERIC ALAN, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2766824)
[87] (2766824)
[22] 2012-02-06
[30] US (13/021,404) 2011-02-04

---

[11] **2,769,394**
[13] C
[51] **Int.Cl. C07K 16/12 (2006.01) A61K 39/085 (2006.01)**
[25] EN
[54] **HUMAN MONOCLONAL ANTIBODY AGAINST S. AUREUS DERIVED ALPHA-TOXIN AND ITS USE IN TREATING OR PREVENTING ABSCESS FORMATION**
[54] **ANTICORPS MONOCLONAL HUMAIN CONTRE L'ALPHA-TOXINE DERIVEE DE S. AUREUS ET SON UTILISATION DANS LE TRAITEMENT OU LA PREVENTION DE LA FORMATION D'ABCES**
[72] RUDOLF, MICHAEL, CH
[72] KOCH, HOLGER, CH
[73] ARIDIS PHARMACEUTICALS, INC., US
[85] 2012-01-27
[86] 2010-08-10 (PCT/EP2010/004884)
[87] (WO2011/018208)
[30] EP (09010311.0) 2009-08-10
[30] US (61/266,330) 2009-12-03

---

[11] **2,770,863**
[13] C
[51] **Int.Cl. B66F 9/06 (2006.01) B60W 30/02 (2012.01) B66F 9/075 (2006.01) F16F 15/02 (2006.01)**
[25] EN
[54] **DYNAMIC VIBRATION CONTROL SYSTEMS AND METHODS FOR INDUSTRIAL LIFT TRUCKS**
[54] **SYSTEME D'AMORTISSEMENT DYNAMIQUE DES VIBRATIONS POUR CHARIOTS ELEVATEURS ET PROCEDES CONNEXES**
[72] MCCABE, PAUL P., US
[72] KIRK, JOHN B., US
[72] GREGORY, BRYCE, US
[72] FIELD, MICHAEL G., US
[73] THE RAYMOND CORPORATION, US
[86] (2770863)
[87] (2770863)
[22] 2012-03-13
[30] US (61/454,188) 2011-03-18

[11] **2,772,165**
[13] C
[51] **Int.Cl. C10M 141/08 (2006.01) C10M 141/10 (2006.01)**
[25] EN
[54] **ANTIWEAR COMPOSITION AND METHOD OF LUBRICATING DRIVELINE DEVICE**
[54] **COMPOSITION ANTI-USURE ET PROCEDE DE LUBRIFICATION D'UN DISPOSITIF DE TRANSMISSION**
[72] NAJMAN, MOREY N., US
[72] BAKER, MARK R., US
[72] MARSIC, VERA M., US
[73] THE LUBRIZOL CORPORATION, US
[85] 2012-02-16
[86] 2010-08-11 (PCT/US2010/045145)
[87] (WO2011/022263)
[30] US (61/234,722) 2009-08-18

---

[11] **2,772,444**
[13] C
[51] **Int.Cl. E03B 9/02 (2006.01)**
[25] EN
[54] **ADJUSTABLE OPERATING ROD FOR A HYDRANT**
[54] **TIGE DE MANOEUVRE REGLABLE POUR POTEAU D'INCENDIE**
[72] BALL, WILLIAM T., US
[72] PILARCZYK, ERIC, US
[73] WCM INDUSTRIES, INC., US
[86] (2772444)
[87] (2772444)
[22] 2012-03-23
[30] US (61/467,790) 2011-03-25

---

[11] **2,772,653**
[13] C
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 1/22 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **ENHANCED PROTEIN PURIFICATION THROUGH A MODIFIED PROTEIN A ELUTION**
[54] **PURIFICATION AMELIOREE D'UNE PROTEINE GRACE A UNE ELUTION MODIFIEE DE LA PROTEINE A**
[72] BROWN, ARICK, US
[72] DOWD, CHRISTOPHER J., US
[72] RADHAMOHAN, ASHA NANDINI, US
[73] GENENTECH, INC., US
[85] 2012-02-29
[86] 2010-09-01 (PCT/US2010/047448)
[87] (WO2011/028753)
[30] US (61/238,867) 2009-09-01
[30] US (61/253,438) 2009-10-20

---

[11] **2,772,857**
[13] C
[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **OCCLUSIVE DEVICE WITH POROUS STRUCTURE AND STRETCH RESISTANT MEMBER**
[54] **DISPOSITIF D'OCCLUSION A LA STRUCTURE POREUSE MUNI D'UN ELEMENT RESISTANT A L'ETIREMENT**
[72] FORSYTHE, PETER, US
[72] LORENZO, JUAN, US
[73] CODMAN & SHURTLEFF, INC., US
[86] (2772857)
[87] (2772857)
[22] 2012-03-29
[30] US (13/076,491) 2011-03-31

---

[11] **2,773,201**
[13] C
[51] **Int.Cl. F04B 53/10 (2006.01) F04B 53/14 (2006.01)**
[25] EN
[54] **VARIABLE VOLUME BORE PISTON PUMP**
[54] **POMPE A PISTON A DEBIT VARIABLE**
[72] OPHARDT, HEINER, CH
[72] JONES, ANDREW, CA
[72] SHI, ZHENCHUN (TONY), CA
[73] GOTOHTI.COM INC., CA
[86] (2773201)
[87] (2773201)
[22] 2012-03-30

---

[11] **2,774,133**
[13] C
[51] **Int.Cl. C07D 403/02 (2006.01) A61K 31/40 (2006.01) A61P 3/10 (2006.01) C07D 209/04 (2006.01)**
[25] EN
[54] **COMPOUNDS EFFECTIVE AS XANTHINE OXIDASE INHIBITORS, METHOD FOR PREPARING THE SAME, AND PHARMACEUTICAL COMPOSITION CONTAINING THE SAME**
[54] **NOUVEAUX COMPOSES EFFICACES COMME INHIBITEURS DE LA XANTHINE OXYDASE, LEUR PROCEDE DE PREPARATION ET COMPOSITION PHARMACEUTIQUE LES CONTENANT**
[72] SONG, JEONG UK, KR
[72] KIM, GEUN TAE, KR
[72] CHOI, SUNG PIL, KR
[72] JUNG, CHEOL KYU, KR
[72] PARK, DEOK SEONG, KR
[72] CHOI, EUN SIL, KR
[72] KIM, TAE HUN, KR
[72] PARK, HYUN JUNG, KR
[72] PARK, WAN SU, KR
[72] PARK, HEUI SUL, KR
[72] KOO, KI CHUL, KR
[72] ARTEMOV, VASILY, KR
[73] LG CHEM, LTD., KR
[85] 2012-03-13
[86] 2010-10-04 (PCT/KR2010/006760)
[87] (WO2011/043568)
[30] KR (10-2009-0095363) 2009-10-07

[11] **2,776,938**
[13] C
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/01 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR THE REMOVAL OF ANAESTHETIC AGENTS FROM BREATHING GAS**
[54] **METHODE ET APPAREIL DESTINES A L'ELIMINATION D'AGENTS ANESTHESIQUES DU GAZ RESPIRATOIRE**
[72] BORM, PIETER, NL
[72] WESTERKAMP, BART, NL
[73] LOWENSTEIN MEDICAL TECHNOLOGY S.A., LU
[85] 2012-04-05
[86] 2010-10-06 (PCT/NL2010/000141)
[87] (WO2011/043649)
[30] NL (1037371) 2009-10-07

[11] **2,777,966**
[13] C
[51] **Int.Cl. E21B 43/22 (2006.01) B01D 11/02 (2006.01) E21B 43/40 (2006.01)**
[25] EN
[54] **SOLVENT INJECTION PLANT FOR ENHANCED OIL RECOVERY AND METHOD OF OPERATING SAME**
[54] **USINE D'INJECTION DE SOLVANT POUR RECUPERATION D'HUILE AMELIOREE ET PROCEDE DE FONCTIONNEMENT DE CELLE-CI**
[72] NENNIGER, JOHN, CA
[72] HOLCEK, RON, CA
[72] DILLON, JIM, CA
[72] WOLFF, VINING, CA
[73] N-SOLV CORPORATION, CA
[86] (2777966)
[87] (2777966)
[22] 2012-05-23

[11] **2,778,576**
[13] C
[51] **Int.Cl. G08G 5/00 (2006.01) B64D 43/00 (2006.01) G01M 17/00 (2006.01)**
[25] FR
[54] **PROCESS AND DEVICE FOR OPTIMIZED TASK TREATMENT FOR A FWS**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE TACHES OPTIMISE POUR UN FWS**
[72] FLOTTE, LAURENT, FR
[72] GUILLEY, FABIEN, FR
[72] VALOT, NICOLAS, FR
[73] THALES, FR
[86] (2778576)
[87] (2778576)
[22] 2012-05-31
[30] FR (1101784) 2011-06-10

[11] **2,783,081**
[13] C
[51] **Int.Cl. B64C 1/00 (2006.01) B64D 47/00 (2006.01)**
[25] FR
[54] **CONDENSATION DRAINAGE SYSTEM FOR AN AIRCRAFT**
[54] **SYSTEME DE DRAINAGE DES EAUX DE CONDENSATION DANS UN AERONEF**
[72] AURIAC, VINCENT, FR
[72] MODESTO, JEROME, FR
[73] AIRBUS OPERATIONS, FR
[86] (2783081)
[87] (2783081)
[22] 2012-07-05
[30] FR (11 56 127) 2011-07-06

[11] **2,783,248**
[13] C
[51] **Int.Cl. E04D 1/12 (2006.01) E04D 1/16 (2006.01)**
[25] EN
[54] **WEB FOR SHINGLE WITH REINFORCED NAIL ZONE**
[54] **PAROI INTERIEURE POUR BARDEAU AVEC ZONE RENFORCEE POUR LA POSE DE CLOUS**
[72] VERMILION, DONN, US
[72] RINNE, STEPHANIE A., US
[72] UGOREK, MICHAEL S., US
[72] ALTMAN, KATRINA, US
[72] SCOWDEN, JOHN, US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[86] (2783248)
[87] (2783248)
[22] 2012-07-18
[30] US (13/193,864) 2011-07-29

[11] **2,784,227**
[13] C
[51] **Int.Cl. E04F 15/10 (2006.01)**
[25] EN
[54] **PANEL, COVERING AND METHOD FOR INSTALLING SUCH PANELS.**
[54] **PANNEAU, REVETEMENT ET METHODE D'INSTALLATION DE TELS PANNEAUX.**
[72] CAPPELLE, MARK, BE
[73] FLOORING INDUSTRIES LIMITED, SARL, LU
[85] 2012-06-13
[86] 2010-12-09 (PCT/IB2010/055693)
[87] (WO2011/077311)
[30] EP (09015855.1) 2009-12-22
[30] US (61/333,510) 2010-05-11

[11] **2,784,397**
[13] C
[51] **Int.Cl. G02B 27/01 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A VIRTUAL TERRAIN DISPLAY**
[54] **SYSTEMES ET METHODES D'AFFICHAGE DE TERRAIN VIRTUEL**
[72] DEMERS, ROBERT E., US
[72] MEAD, STEPHEN, US
[72] LANCASTER, JEFF, US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (2784397)
[87] (2784397)
[22] 2012-07-31
[30] US (13/207,010) 2011-08-10

[11] **2,785,677**
[13] C
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C07K 14/51 (2006.01) C12N 5/02 (2006.01)**
[25] EN
[54] **METHODS FOR DEVELOPING ENDOTHELIAL CELLS FROM PLURIPOTENT CELLS AND ENDOTHELIAL CELLS DERIVED THEREFROM**
[54] **METHODES DE DEVELOPPEMENT DE CELLULES ENDOTHELIALES A PARTIR DE CELLULES PLURIPOTENTES ET CELLULES ENDOTHELIALES DERIVEES DESDITES CELLULES PLURIPOTENTES**
[72] RAFII, SHAHIN, US
[72] JAMES, DAYLON, US
[73] CORNELL UNIVERSITY, US
[85] 2012-06-27
[86] 2010-12-23 (PCT/US2010/061970)
[87] (WO2011/090684)
[30] US (61/290,667) 2009-12-29

[11] **2,785,705**
[13] C
[51] **Int.Cl. H02J 7/00 (2006.01) G06Q 30/02 (2012.01) B60L 53/60 (2019.01)**
[25] EN
[54] **ELECTRIC VEHICLE CHARGING STATION HOST DEFINABLE PRICING**
[54] **TARIFICATION DE STATIONS DE CHARGE DE VEHICULES ELECTRIQUES DEFINISSABLE PAR LES HEBERGEURS**
[72] LOWENTHAL, RICHARD, US
[72] MANDAL, PRAVEEN, US
[72] TORMEY, MILTON, US
[72] SWARNAPURI, SRINIVAS RAO, US
[72] SOLOMON, JAMES, US
[73] CHARGEPOINT, INC., US
[85] 2012-06-26
[86] 2011-01-28 (PCT/US2011/023046)
[87] (WO2011/094627)
[30] US (12/697,188) 2010-01-29

[11] **2,785,822**
[13] C
[51] **Int.Cl. A61K 31/485 (2006.01) A61K 31/137 (2006.01) A61P 3/04 (2006.01)**
[25] EN
[54] **METHODS OF PROVIDING WEIGHT LOSS THERAPY IN PATIENTS WITH MAJOR DEPRESSION**
[54] **METHODES PERMETTANT DE FAIRE PERDRE DU POIDS A DES PATIENTS SOUFFRANT D'UNE DEPRESSION SEVERE**
[72] DUNAYEVICH, EDUARDO, US
[72] TOLLEFSON, GARY (DECEASED), US
[73] NALPROPION PHARMACEUTICALS, INC., US
[85] 2012-06-27
[86] 2011-01-10 (PCT/US2011/020712)
[87] (WO2011/085331)
[30] US (61/293,844) 2010-01-11

[11] **2,786,529**
[13] C
[51] **Int.Cl. E04F 15/02 (2006.01) E04C 2/40 (2006.01) E04F 13/076 (2006.01)**
[25] EN
[54] **FLOOR COVERING WITH INTERLOCKING DESIGN**
[54] **REVETEMENT DE SOL A CONCEPTION VERROUILLEE**
[72] WHISPELL, JOHN M., US
[72] CHEN, HAO A., US
[73] VALINGE INNOVATION AB, SE
[85] 2012-07-05
[86] 2011-01-10 (PCT/US2011/020671)
[87] (WO2011/085306)
[30] US (61/293,831) 2010-01-11

[11] **2,787,138**
[13] C
[51] **Int.Cl. A61L 24/00 (2006.01) A61L 24/04 (2006.01)**
[25] EN
[54] **COMPOSITION FOR PRODUCING A TEMPORARY INTESTINAL OCCLUSION**
[54] **COMPOSITION SERVANT A REALISER UNE OCCLUSION INTESTINALE TEMPORAIRE**
[72] BISCHOF, GEORG, AT
[73] BISCHOF, GEORG, AT
[85] 2012-07-13
[86] 2011-01-12 (PCT/AT2011/000015)
[87] (WO2011/085424)
[30] AT (A 25/2010) 2010-01-13

[11] **2,787,556**
[13] C
[51] **Int.Cl. A47K 5/12 (2006.01) B67D 3/00 (2006.01)**
[25] EN
[54] **ROTATING KEYED DISPENSING CARTRIDGE SYSTEM**
[54] **SYSTEME DE CARTOUCHE DE DISTRIBUTION ROTATIF UTILISANT UNE CLE**
[72] OPHARDT, HEINER, CH
[72] JONES, ANDREW, CA
[73] GOTOHTI.COM INC., CA
[86] (2787556)
[87] (2787556)
[22] 2012-08-22

[11] **2,788,850**
[13] C
[51] **Int.Cl. C12N 15/11 (2006.01) C07H 21/00 (2006.01) C12N 15/90 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **TARGETED GENOMIC MODIFICATION WITH PARTIALLY SINGLE-STRANDED DONOR MOLECULES**
[54] **MODIFICATION GENOMIQUE CIBLEE AVEC DES MOLECULES DONNEUSES PARTIELLEMENT MONOCATENAIRES**
[72] COST, GREGORY J., US
[72] GUSCHIN, DMITRY Y., US
[72] URNOV, FYODOR, US
[73] SANGAMO THERAPEUTICS, INC., US
[85] 2012-08-02
[86] 2011-02-09 (PCT/US2011/000245)
[87] (WO2011/100058)
[30] US (61/337,756) 2010-02-09
[30] US (61/342,934) 2010-04-21

[11] **2,789,814**
[13] C
[51] **Int.Cl. G01N 27/403 (2006.01) A61B 5/1486 (2006.01) G01N 27/49 (2006.01)**
[25] EN
[54] **ANALYTE SENSOR APPARATUSES HAVING IMPROVED ELECTRODE CONFIGURATIONS AND METHODS FOR MAKING AND USING THEM**
[54] **APPAREILS CAPTEURS D'ANALYTE AYANT DES CONFIGURATIONS D'ELECTRODES AMELIOREES, ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] WOLFE, KATHERINE T., US
[72] KANTAK, AMEYA S., US
[72] LARSON, ERIC ALLAN, US
[72] PESANTEZ, DANIEL E., US
[72] XI, DONGJUAN, US
[72] CHIU, CHIA-HUNG, US
[72] SHAH, RAJIV, US
[73] MEDTRONIC MINIMED, INC., US
[85] 2012-08-14
[86] 2011-03-15 (PCT/US2011/028447)
[87] (WO2011/115949)
[30] US (61/314,484) 2010-03-16
[30] US (13/047,431) 2011-03-14

[11] **2,790,491**
[13] C
[51] **Int.Cl. G01C 11/00 (2006.01)**
[25] EN
[54] **BUILDING FOOTPRINT EXTRACTION APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT**
[54] **APPAREIL D'EXTRACTION D'EMPREINTE D'IMMEUBLE, METHODE ET PROGRAMME INFORMATIQUE**
[72] DU, WEI, US
[72] JEFFERY, THOMAS C., US
[72] BOTTS, HOWARD, US
[73] CORELOGIC SOLUTIONS, LLC, US
[86] (2790491)
[87] (2790491)
[22] 2012-09-20
[30] US (13/243,405) 2011-09-23

[11] **2,790,660**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/332 (2014.01)**
[25] EN
[54] **GAMING SYSTEM, GAMING DEVICE AND METHOD FOR UTILIZING MOBILE DEVICES AT A GAMING ESTABLISHMENT**
[54] **SYSTEME DE JEU, APPAREIL DE JEU ET METHODE POUR UTILISER DES APPAREILS MOBILES A UN ETABLISSEMENT DE JEU**
[72] SHORROCK, MICHAEL, US
[72] BAERLOCHER, ANTHONY J., US
[72] NICELY, MARK C., US
[73] IGT, US
[86] (2790660)
[87] (2790660)
[22] 2012-09-21
[30] US (61/541,217) 2011-09-30
[30] US (13/622,736) 2012-09-19

[11] **2,790,965**
[13] C
[51] **Int.Cl. B23D 47/02 (2006.01) B23D 45/16 (2006.01)**
[25] EN
[54] **POWER SAW MITER CUTTING GUIDE**
[54] **GUIDE DE COUPE D'ONGLET POUR SCIE ELECTRIQUE**
[72] HOLBA, JOHN, US
[73] ROBERT BOSCH GMBH, DE
[86] (2790965)
[87] (2790965)
[22] 2012-09-27
[30] US (13/250,634) 2011-09-30

[11] **2,790,967**
[13] C
[51] **Int.Cl. B23Q 5/10 (2006.01) B23D 45/16 (2006.01)**
[25] EN
[54] **SAW ASSEMBLY WITH FLOATING BEARING FOR WORM DRIVE AND MOTOR SHAFT**
[54] **ENSEMBLE DE SCIE AVEC COUSSINET FLOTTANT POUR ENTRAINEMENT PAR VIS SANS FIN ET ARBRE MOTEUR**
[72] MORENO, JAIME, US
[73] ROBERT BOSCH GMBH, DE
[86] (2790967)
[87] (2790967)
[22] 2012-09-27
[30] US (13/250,917) 2011-09-30

[11] **2,790,968**
[13] C
[51] **Int.Cl. B23D 45/16 (2006.01) B23D 47/00 (2006.01) B23Q 11/06 (2006.01) B23Q 11/08 (2006.01)**
[25] EN
[54] **CIRCULAR SAW GUARD SYSTEM**
[54] **SYSTEME DE PROTECTION POUR SCIE CIRCULAIRE**
[72] MORENO, JAIME, US
[73] ROBERT BOSCH GMBH, DE
[86] (2790968)
[87] (2790968)
[22] 2012-09-27
[30] US (13/250,737) 2011-09-30

[11] **2,793,612**
[13] C
[51] **Int.Cl. A61K 31/10 (2006.01) A61K 31/519 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **DIMETHYL SULFOXIDE (DMSO) FORMULATIONS FOR TREATING AUTISM**
[54] **FORMULATIONS DE DIMETHYLSULFOXYDE (DMSO) POUR TRAITER L'AUTISME**
[72] JACOB, STANLEY, US
[72] COZEAN, JESSE, US
[72] COZEAN, COLETTE, US
[73] ABELA PHARMACEUTICALS, INC., US
[85] 2012-09-14
[86] 2011-03-31 (PCT/US2011/030806)
[87] (WO2011/123695)
[30] US (61/319,827) 2010-03-31

[11] **2,795,012**
[13] C
[51] **Int.Cl. B01J 2/10 (2006.01) B02C 17/16 (2006.01)**
[25] EN
[54] **METHOD AND MODULAR SYSTEM FOR PREPARING A GRANULATED CONFECTIONARY PRODUCT FOR MAKING CORES OR PASTILLES**
[54] **PROCEDE ET SYSTEME MODULAIRE POUR PREPARER UN PRODUIT DE CONFISERIE GRANULE EN VUE DE FABRIQUER DES C□URS OU DES PASTILLES**
[72] FEDERICI, FABIO, BE
[73] SOREMARTEC S.A., LU
[85] 2012-09-27
[86] 2011-03-30 (PCT/IB2011/000683)
[87] (WO2011/121430)
[30] IT (TO2010A000253) 2010-03-30

[11] **2,795,227**
[13] C
[51] **Int.Cl. G02B 27/44 (2006.01) G02B 5/18 (2006.01) G02B 6/293 (2006.01)**
[25] EN
[54] **EXTENSION OF STEPS IN REFLECTIVE OPTICAL GRATINGS**
[54] **EXTENSION DES ETAGES DANS DES RESEAUX OPTIQUES REFLECHISSANTS**
[72] FENG, DAZENG, US
[72] QIAN, WEI, US
[72] ASGHARI, MEHDI, US
[73] MELLANOX TECHNOLOGIES SILICON PHOTONICS INC., US
[85] 2012-10-02
[86] 2011-04-07 (PCT/US2011/000620)
[87] (WO2011/149502)
[30] US (12/800,600) 2010-05-18

[11] **2,795,336**
[13] C
[51] **Int.Cl. A62B 35/00 (2006.01)**
[25] EN
[54] **RETRACTING LIFELINE SYSTEMS FOR USE IN TIE-BACK ANCHORING**
[54] **SYSTEMES DE FILIN DE SECURITE RETRACTABLE DESTINES A ETRE UTILISES POUR L'ARRIMAGE FACON EMBRASSE**
[72] BALQUIST, ROSS, US
[72] MANSON, ERIC M., US
[72] SHARP, STEVE J., US
[72] SMITH, HUGH, US
[73] HONEYWELL SAFETY PRODUCTS USA, INC., US
[85] 2012-10-03
[86] 2011-04-06 (PCT/US2011/031324)
[87] (WO2011/127109)
[30] US (61/321,491) 2010-04-06

[11] **2,796,815**
[13] C
[51] **Int.Cl. B23K 10/00 (2006.01)**
[25] EN
[54] **INDUCTIVE DEVICES AND LOW FLOW PLASMAS USING THEM**
[54] **DISPOSITIFS INDUCTIFS ET PLASMAS A FAIBLE DEBIT LES UTILISANT**
[72] MORRISROE, PETER J., US
[73] PERKINELMER HEALTH SCIENCES, INC., US
[85] 2012-10-17
[86] 2011-05-04 (PCT/US2011/035099)
[87] (WO2011/140168)
[30] US (61/331,610) 2010-05-05

[11] **2,798,277**
[13] C
[51] **Int.Cl. G02F 1/1333 (2006.01) H01L 51/50 (2006.01)**
[25] EN
[54] **SYSTEM FOR COOLING AN ELECTRONIC IMAGE ASSEMBLY**
[54] **SYSTEME DE REFROIDISSEMENT D'UN ENSEMBLE AFFICHAGE ELECTRONIQUE**
[72] HUBBARD, TIM, US
[72] DUNN, WILLIAM, US
[73] MANUFACTURING RESOURCES INTERNATIONAL, INC., US
[85] 2012-11-02
[86] 2011-05-04 (PCT/US2011/035120)
[87] (WO2011/140179)
[30] US (61/331,340) 2010-05-04

[11] **2,798,293**
[13] C
[51] **Int.Cl. B64G 1/24 (2006.01) B64G 1/10 (2006.01) B64G 1/66 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING A SET OF AT LEAST TWO SATELLITES, DESIGNED TO PROVIDE A SERVICE ON A GEOSTATIONARY ORBIT, RENDERING SAID SERVICE ON A NON-GEOSTATIONARY ORBIT**
[54] **METHODE ET SYSTEME DE CONTROLE D'UN ENSEMBLE D'AU MOINS DEUX SATELLITES, CONCUS POUR FOURNIR UN SERVICE SUR UNE ORBITE GEOSTATIONNAIRE, RENDANT LEDIT SERVICE SUR UNE ORBITE NON GEOSTATIONNAIRE**
[72] SAINCT, HERVE, FR
[72] AMALRIC, JOEL, FR
[73] THALES, FR
[86] (2798293)
[87] (2798293)
[22] 2012-12-06
[30] FR (1103778) 2011-12-09

---

[11] **2,799,735**
[13] C
[51] **Int.Cl. A61K 38/17 (2006.01) C07K 14/47 (2006.01) C07K 14/78 (2006.01)**
[25] EN
[54] **BIGLYCAN MUTANTS AND RELATED THERAPEUTICS AND METHODS OF USE**
[54] **MUTANTS DE BIGLYCANES ET PRODUITS THERAPEUTIQUES ASSOCIES ET METHODES D'UTILISATION**
[72] FALLON, JUSTIN R., US
[72] AMENTA, ALISON R., US
[72] MCKECHNIE, BETH A., US
[72] DECHENE, MICHELLE, US
[72] YILMAZ, ATILGAN, US
[73] BROWN UNIVERSITY, US
[85] 2012-11-16
[86] 2011-05-17 (PCT/US2011/036803)
[87] (WO2011/146480)
[30] US (61/345,557) 2010-05-17

---

[11] **2,799,961**
[13] C
[51] **Int.Cl. E03B 9/12 (2006.01) E02B 9/02 (2006.01) F16K 1/02 (2006.01) F16K 1/50 (2006.01) F16K 31/46 (2006.01)**
[25] EN
[54] **FIRE HYDRANT CONTROL VALVE**
[54] **VANNE DE REGLAGE DE BOUCHE D'INCENDIE**
[72] SIGELAKIS, GEORGE, US
[73] SIGELOCK SYSTEMS, L.L.C., US
[85] 2012-11-19
[86] 2011-05-20 (PCT/US2011/037470)
[87] (WO2011/149794)
[30] US (12/787,328) 2010-05-25

---

[11] **2,799,969**
[13] C
[51] **Int.Cl. C07K 14/33 (2006.01) A61K 8/66 (2006.01) A61K 8/98 (2006.01) A61K 35/74 (2015.01) A61K 38/48 (2006.01) C07K 19/00 (2006.01) C12N 9/52 (2006.01)**
[25] EN
[54] **DEGRADABLE CLOSTRIDIAL TOXINS**
[54] **TOXINES DE CLOSTRIDIUM DEGRADABLES**
[72] STEWARD, LANCE E., US
[72] GHANSHANI, SANJIV, US
[72] FERNANDEZ-SALAS, ESTER, US
[72] GILMORE, MARCELLA A., US
[72] FRANCIS, JOSEPH, US
[72] AOKI, KEI ROGER, US
[73] ALLERGAN, INC., US
[85] 2012-11-19
[86] 2011-05-19 (PCT/US2011/037131)
[87] (WO2011/146704)
[30] US (61/346,578) 2010-05-20

---

[11] **2,800,383**
[13] C
[51] **Int.Cl. A61K 36/48 (2006.01) A61K 31/715 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **TAMARIND SEED POLYSACCHARIDE FOR USE IN THE TREATMENT OF INFLAMMATORY DISEASES**
[54] **POLYSACCHARIDE DE SEMENCE DE TAMARIN DESTINE AU TRAITEMENT DE MALADIES INFLAMMATOIRESES**
[72] GIORI, ANDREA, IT
[72] ARPINI, SABRINA, IT
[72] TOGNI, STEFANO, IT
[73] INDENA S.P.A., IT
[85] 2012-11-22
[86] 2011-05-23 (PCT/EP2011/058334)
[87] (WO2011/147768)
[30] IT (MI2010A000934) 2010-05-24

---

[11] **2,801,148**
[13] C
[51] **Int.Cl. F16H 25/14 (2006.01) B62M 1/36 (2013.01) F16H 21/28 (2006.01) F16H 25/22 (2006.01)**
[25] EN
[54] **TRANSMISSION**
[54] **TRANSMISSION**
[72] MACNEIL, EVERETT C., CA
[73] MACNEIL, EVERETT C., CA
[86] (2801148)
[87] (2801148)
[22] 2013-01-07

---

[11] **2,804,497**
[13] C
[51] **Int.Cl. H03G 3/30 (2006.01)**
[25] EN
[54] **DEVICES FOR THE AUTOMATIC ADJUSTMENT OF GAIN AND/OR ATTENUATION FACTOR**
[54] **DISPOSITIF DE REGLAGE AUTOMATIQUE D'UN FACTEUR D'AMPLIFICATION OU D'ATTENUATION**
[72] KUHWALD, THOMAS, DE
[72] VALTEN, THOMAS, DE
[73] ROHDE & SCHWARZ GMBH & CO. KG, DE
[85] 2013-01-04
[86] 2012-03-15 (PCT/EP2012/054576)
[87] (WO2012/130625)
[30] DE (10 2011 006 566.0) 2011-03-31

[11] **2,804,498**
[13] C
[51] **Int.Cl. F16L 19/065 (2006.01) F16L 19/07 (2006.01)**
[25] EN
[54] **CONDUIT FITTING WITH FLEXIBLE TORQUE COLLAR**
[54] **RACCORD DE CONDUIT AYANT UN COLLIER DE COUPLE SOUPLE**
[72] RUBINSKI, JEFFREY MICHAEL, US
[72] BROWN, CAL R., US
[72] WILLIAMS, PETER C., US
[73] SWAGELOK COMPANY, US
[85] 2013-01-04
[86] 2011-07-07 (PCT/US2011/043158)
[87] (WO2012/006405)
[30] US (61/362,966) 2010-07-09

[11] **2,805,690**
[13] C
[51] **Int.Cl. G01C 21/16 (2006.01) G01C 25/00 (2006.01) G01P 21/00 (2006.01) G12B 5/00 (2006.01)**
[25] FR
[54] **METHOD AND SYSTEM FOR HARMONIZING A REFERENCE FRAME OF AN ANGULAR POSITIONER WITH RESPECT TO A TERRESTRIAL REFERENCE FRAME**
[54] **PROCEDE ET SYSTEME D'HARMONISATION D'UN REFERENTIEL D'UN POSITIONNEUR ANGULAIRE PAR RAPPORT A UN REFERENTIEL TERRESTRE**
[72] BOURZIER, LAURENT, FR
[73] MBDA FRANCE, FR
[85] 2013-01-16
[86] 2011-07-21 (PCT/FR2011/051770)
[87] (WO2012/010809)
[30] FR (1056063) 2010-07-23

[11] **2,806,430**
[13] C
[51] **Int.Cl. C12N 15/52 (2006.01) A01N 25/30 (2006.01) A61K 8/60 (2006.01) A61K 47/26 (2006.01) B01F 17/00 (2006.01) C07K 1/20 (2006.01) C11D 1/00 (2006.01) C12N 1/15 (2006.01) C12N 1/21 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 9/90 (2006.01) C12N 15/63 (2006.01) C12P 19/44 (2006.01)**
[25] EN
[54] **CELLS AND METHODS FOR PRODUCING RHAMNOLIPIDS**
[54] **CELLULES ET PROCEDE DE PRODUCTION DE RHAMNOLIPIDES**
[72] SCHAFFER, STEFFEN, DE
[72] WESSEL, MIRJA, DE
[72] THIESSENHUSEN, ANJA, DE
[72] STEIN, NADINE, DE
[73] EVONIK DEGUSSA GMBH, DE
[85] 2013-01-24
[86] 2011-07-20 (PCT/EP2011/062441)
[87] (WO2012/013554)
[30] DE (10 2010 032 484.1) 2010-07-28

[11] **2,806,757**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01N 25/32 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01) C11B 1/00 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **SOYBEAN VARIETY A1035957**
[54] **VARIETE DE SOJA A1035957**
[72] NICKELL, ANDREW, US
[72] WIEBBECKE, CHRISTIANA, US
[73] MONSANTO TECHNOLOGY LLC, US
[86] (2806757)
[87] (2806757)
[22] 2013-02-20
[30] US (13/719,029) 2012-12-18

[11] **2,806,942**
[13] C
[51] **Int.Cl. A61K 31/16 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR THE TREATMENT/PREVENTION OF OCULAR INFLAMMATORY DISEASES**
[54] **COMPOSES POUR LE TRAITEMENT/LA PREVENTION DES MALADIES INFLAMMATOIRES OCULAIRES**
[72] ANNAT, JOCELYNE, FR
[72] HUGUET, HELENE-CELINE, FR
[72] LACOMBE, OLIVIER, FR
[72] LEBRETON, LUC, FR
[73] LABORATOIRES FOURNIER SA, FR
[85] 2013-01-28
[86] 2011-07-08 (PCT/FR2011/051639)
[87] (WO2012/013884)
[30] FR (1056290) 2010-07-29
[30] FR (1152836) 2011-04-01

[11] **2,807,834**
[13] C
[51] **Int.Cl. C12N 15/54 (2006.01) C12P 7/64 (2006.01)**
[25] EN
[54] **RECOMBINANT MICROBIAL HOST CELLS FOR HIGH EICOSAPENTAENOIC ACID PRODUCTION**
[54] **CELLULES HOTES MICROBIENNES RECOMBINEES POUR LA PRODUCTION ELEVEE D'ACIDE EICOSAPENTAENOIQUE**
[72] HONG, SEUNG-PYO, US
[72] SHARPE, PAMELA L., US
[72] XUE, ZHIXIONG, US
[72] YADAV, NARENDRA S., US
[72] ZHANG, HONGXIANG, US
[72] ZHU, QUN, US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
[85] 2013-02-07
[86] 2011-08-26 (PCT/US2011/049384)
[87] (WO2012/027689)
[30] US (61/377,248) 2010-08-26
[30] US (61/428,277) 2010-12-30
[30] US (61/479,921) 2011-04-28

[11] **2,807,890**
[13] C
[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/071 (2010.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF DISINFECTED HUMAN CELL SUSPENSIONS**
[54] **PROCEDE DE FABRICATION DE SUSPENSIONS DE CELLULES HUMAINES DESINFECTEES**
[72] ALEKSANDROVA, KRASIMIRA, DE
[72] BARTHOLD, MARC, DE
[72] ARSENIEV, LUBOMIR, DE
[72] GRIESEL, CARSTEN, DE
[72] PRIESNER, CHRISTOPH, DE
[73] PROMETHERA BIOSCIENCES SA, BE
[85] 2013-02-08
[86] 2011-07-30 (PCT/EP2011/003838)
[87] (WO2012/022429)
[30] DE (10 2010 034 330.7) 2010-08-14

---

[11] **2,808,779**
[13] C
[51] **Int.Cl. B42D 15/00 (2006.01) D21H 21/40 (2006.01) D21H 21/42 (2006.01) D21H 21/48 (2006.01) D21H 27/32 (2006.01)**
[25] EN
[54] **VALUE DOCUMENT HAVING AN AT LEAST PARTIALLY EMBEDDED SECURITY ELEMENT**
[54] **DOCUMENT DE VALEUR AVEC ELEMENT DE SECURITE AU MOINS PARTIELLEMENT INCORPORE**
[72] MUELLER, MATTHIAS, DE
[72] KOCHER, CHRISTOPH, CH
[72] GROB, JAKOB, CH
[73] HUECK FOLIEN GES.M.B.H., AT
[85] 2013-02-19
[86] 2011-08-22 (PCT/EP2011/004216)
[87] (WO2012/025216)
[30] AT (A 1441/2010) 2010-08-27

---

[11] **2,808,983**
[13] C
[51] **Int.Cl. E01C 19/52 (2006.01)**
[25] EN
[54] **TRANSPORT APPARATUS AND METHOD FOR THE TRANSPORT, ORIENTATION AND INSTALLATION OF A UNIT OF PAVING BLOCKS**
[54] **APPAREIL DE TRANSPORT ET PROCEDE POUR LE TRANSPORT, L'ORIENTATION ET L'INSTALLATION D'UNE UNITE DE BLOCS DE PAVAGE**
[72] BRASSARD, JEAN-MICHEL, CA
[73] TECHO-BLOC INC., CA
[86] (2808983)
[87] (2808983)
[22] 2013-03-05

---

[11] **2,810,409**
[13] C
[51] **Int.Cl. B32B 27/12 (2006.01) B01D 69/12 (2006.01) F24F 12/00 (2006.01) F28F 21/06 (2006.01)**
[25] EN
[54] **ENERGY RECOVERY VENTILATION SULFONATED BLOCK COPOLYMER LAMINATE MEMBRANE**
[54] **VENTILATION A RECUPERATION D'ENERGIE, COPOLYMERE BLOC SULFONE, MEMBRANE LAMINEE**
[72] DUBOIS, DONN, US
[73] KRATON POLYMERS U.S. LLC, US
[85] 2013-03-04
[86] 2011-09-28 (PCT/US2011/053599)
[87] (WO2012/050860)
[30] US (12/893,163) 2010-09-29

---

[11] **2,810,491**
[13] C
[51] **Int.Cl. H04W 60/00 (2009.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SUPPORTING LOCATION UPDATE REGISTRATION PROCESS IN MACHINE TO MACHINE COMMUNICATION SYSTEM**
[54] **APPAREIL ET PROCEDE PERMETTANT LA PRISE EN CHARGE D'UN PROCESSUS D'ENREGISTREMENT DE L'ACTUALISATION DE LA LOCALISATION DANS UN SYSTEME DE COMMUNICATION ENTRE MACHINES**
[72] KANG, HYUN-JEONG, KR
[72] TAORI, RAKESH, KR
[72] LEE, JI-CHEOL, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2013-03-05
[86] 2011-09-07 (PCT/KR2011/006624)
[87] (WO2012/033342)
[30] KR (10-2010-0088121) 2010-09-08

---

[11] **2,811,158**
[13] C
[51] **Int.Cl. A61K 39/04 (2006.01)**
[25] EN
[54] **RECOMBINANT MYCOBACTERIUM AS VACCINE FOR USE IN HUMANS**
[54] **MYCOBATERIUM RECOMBINANT EN TANT QUE VACCIN POUR UNE UTILISATION CHEZ DES ETRES HUMAINS**
[72] GRODE, LEANDER, DE
[73] VAKZINE PROJEKT MANAGEMENT GMBH, DE
[85] 2013-03-12
[86] 2011-09-16 (PCT/EP2011/066131)
[87] (WO2012/038348)
[30] US (61/384,375) 2010-09-20

[11] **2,811,204**
[13] C
[51] **Int.Cl. A63B 5/11 (2006.01)**
[25] EN
[54] **REBOUNDING APPARATUS WITH TENSIONED ELASTIC CORDS**
[54] **APPAREIL DE REBONDISSEMENT AVEC CORDONS ELASTIQUES TENDUS**
[72] PUBLICOVER, MARK W., US
[72] HYLBERT, JON P., US
[72] STRASSER, DONALD, US
[73] JUMPSPORT, INC., US
[85] 2013-03-12
[86] 2010-09-14 (PCT/US2010/048820)
[87] (WO2011/032173)
[30] US (12/881,105) 2009-09-14
[30] US (12/881,486) 2009-09-29
[30] US (61/321,571) 2010-04-07

[11] **2,811,281**
[13] C
[51] **Int.Cl. B65D 30/08 (2006.01)**
[25] EN
[54] **MULTILAYER PLASTIC FILM**
[54] **FILM PLASTIQUE MULTICOUCHE**
[72] HOYING, DAVID J., US
[72] BROERING, SHAUN T., US
[72] WALDRON, MATTHEW W., US
[72] PECK, DANIEL C., US
[72] TURNER, ROBERT H., US
[73] THE GLAD PRODUCTS COMPANY, US
[85] 2013-03-13
[86] 2011-09-12 (PCT/US2011/051241)
[87] (WO2012/037036)
[30] US (12/881,825) 2010-09-14

[11] **2,812,020**
[13] C
[51] **Int.Cl. F16K 11/04 (2006.01) F16K 27/00 (2006.01) F16K 31/126 (2006.01) F16K 47/08 (2006.01) F16K 51/00 (2006.01)**
[25] EN
[54] **VOLUME BOOSTER WITH STABILIZED TRIM**
[54] **SURPRESSEUR DE VOLUME AVEC SYSTEME DE COMPENSATION STABILISE**
[72] LOVELL, MICHEL K., US
[72] JWANOUSKOS, RYAN J., US
[72] SCOTT, GARY L., US
[72] JUNK, KENNETH W., US
[72] STIEHL, MARK, US
[73] FISHER CONTROLS INTERNATIONAL LLC, US
[85] 2013-03-11
[86] 2011-09-13 (PCT/US2011/051412)
[87] (WO2012/037134)
[30] US (12/882,549) 2010-09-15

[11] **2,813,076**
[13] C
[51] **Int.Cl. H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING REAL-TIME DATA**
[54] **SYSTEME ET PROCEDE DE FOURNITURE DE DONNEES EN TEMPS REEL**
[72] THOMAS, ANDREW, CA
[73] REAL INNOVATIONS INTERNATIONAL LLC, CA
[85] 2013-03-28
[86] 2010-10-15 (PCT/CA2010/001616)
[87] (WO2011/044686)
[30] US (61/252,624) 2009-10-16
[30] US (12/905,319) 2010-10-15

[11] **2,813,309**
[13] C
[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/22 (2006.01)**
[25] EN
[54] **LAPAROSCOPIC TISSUE RETRIEVAL SYSTEM**
[54] **SYSTEME DE RECUPERATION LAPAROSCOPIQUE DE TISSU**
[72] TAYLOR, SCOTT V., US
[72] KAHLE, HENRY, US
[73] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2013-03-28
[86] 2011-10-03 (PCT/US2011/054647)
[87] (WO2012/045087)
[30] US (61/389,107) 2010-10-01

[11] **2,813,648**
[13] C
[51] **Int.Cl. A61K 31/422 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61K 31/505 (2006.01) A61K 45/06 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **COMBINATIONS OF SEROTONIN RECEPTOR AGONISTS FOR TREATMENT OF MOVEMENT DISORDERS**
[54] **COMBINAISONS D'AGONISTES DE RECEPTEURS DE SEROTONINE POUR LE TRAITEMENT DE TROUBLES DU MOUVEMENT**
[72] HANSEN, JOHN BONDO, DK
[72] THOMSEN, MIKAEL S., DK
[73] CONTERA PHARMA APS, DK
[85] 2013-04-04
[86] 2011-10-13 (PCT/DK2011/050383)
[87] (WO2012/048710)
[30] DK (PA 2010 70441) 2010-10-15
[30] US (61/393,545) 2010-10-15
[30] US (61/491,945) 2011-06-01

[11] **2,813,843**
[13] C
[51] **Int.Cl. C08G 63/16 (2006.01) C08J 5/18 (2006.01) C08L 67/02 (2006.01)**
[25] EN
[54] **BIODEGRADABLE POLYESTER AND WRAPPING FILMS FOR PACKAGING PRODUCED THEREWITH**
[54] **POLYESTER BIODEGRADABLE ET FILMS D'ENVELOPPEMENT POUR L'EMBALLAGE PRODUITS AVEC CELUI-CI**
[72] BASTIOLI, CATIA, IT
[72] FACCO, STEFANO, IT
[72] PONTI, ROBERTO, IT
[72] RALLIS, ANGELOS, IT
[73] NOVAMONT S.P.A., IT
[85] 2013-04-05
[86] 2011-10-27 (PCT/EP2011/068881)
[87] (WO2012/055973)
[30] IT (MI2010A001991) 2010-10-27

[11] **2,814,162**
[13] C
[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COMPENSATION OF COMPLIANT BEHAVIOR IN REGENERATIVE DIALYSIS SYSTEMS**
[54] **SYSTEMES ET PROCEDES POUR LA COMPENSATION DE COMPORTEMENT DE COMPLIANCE DANS DES SYSTEMES DE DIALYSE REGENERATEURS**
[72] BEIRIGER, MICHAEL J., US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2013-04-09
[86] 2011-09-22 (PCT/US2011/052742)
[87] (WO2012/050781)
[30] US (12/902,702) 2010-10-12

[11] **2,815,267**
[13] C
[51] **Int.Cl. C07K 19/00 (2006.01) C07K 1/22 (2006.01) C07K 14/435 (2006.01) C07K 16/00 (2006.01) C07K 16/06 (2006.01) C12N 5/00 (2006.01) C12N 11/02 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **SPIDER SILK FUSION PROTEIN STRUCTURES FOR BINDING TO AN ORGANIC TARGET**
[54] **STRUCTURES DE PROTEINES DE FUSION DE SOIE D'ARAIGNEE POUR LIAISON A UNE CIBLE ORGANIQUE**
[72] HEDHAMMAR, MY, SE
[72] JOHANSSON, JAN, SE
[72] RISING, ANNA, SE
[72] NYGREN, PER-AKE, SE
[73] SPIBER TECHNOLOGIES AB, SE
[85] 2013-04-19
[86] 2011-10-25 (PCT/EP2011/068626)
[87] (WO2012/055854)
[30] EP (10189059.8) 2010-10-27

[11] **2,816,522**
[13] C
[51] **Int.Cl. G07F 17/32 (2006.01) G06F 1/04 (2006.01) H03K 5/156 (2006.01) H03K 5/159 (2006.01) H04B 1/69 (2011.01)**
[25] EN
[54] **DIGITAL SPREAD SPECTRUM TECHNIQUE FOR ELECTROMAGNETIC EMISSION REDUCTION**
[54] **TECHNIQUE D'ETALEMENT DE SPECTRE NUMERIQUE POUR REDUCTION D'EMISSIONS ELECTROMAGNETIQUES**
[72] DECOURSEY, CALVIN, US
[72] POWELL, GENE E., US
[73] IGT, US
[86] (2816522)
[87] (2816522)
[22] 2013-05-23
[30] US (13/487,053) 2012-06-01

[11] **2,816,866**
[13] C
[51] **Int.Cl. A47L 15/50 (2006.01)**
[25] EN
[54] **STEMWARE HOLDER**
[54] **SUPPORT POUR VERRES A PIED**
[72] ENG, LINDSAY, US
[72] ROBERSON, ANDREW, US
[73] BSH HOME APPLIANCES CORPORATION, US
[86] (2816866)
[87] (2816866)
[22] 2013-05-22
[30] US (13/550,636) 2012-07-17

[11] **2,817,973**
[13] C
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 39/395 (2006.01) A61P 25/28 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01) G01N 33/53 (2006.01) G01N 33/577 (2006.01)**
[25] EN
[54] **ANTIBODIES THAT BIND AMYLOID OLIGOMERS**
[54] **ANTICORPS QUI LIENT DES OLIGOMERES AMYLOIDES**
[72] KAYED, RAKEZ, US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2013-05-14
[86] 2011-10-14 (PCT/US2011/056293)
[87] (WO2012/051498)
[30] US (61/393,685) 2010-10-15

[11] **2,819,527**
[13] C
[51] **Int.Cl. H04N 13/183 (2018.01) H04N 21/431 (2011.01) H04N 13/128 (2018.01) H04N 5/445 (2011.01)**
[25] EN
[54] **DISPARITY DATA TRANSPORT IN STANDARD CAPTION SERVICE**
[54] **TRANSPORT DE DONNEES DE DISPARITE DANS UN SERVICE DE SOUS-TITRES STANDARD**
[72] EYER, MARK KENNETH, US
[73] SONY CORPORATION, JP
[85] 2013-05-30
[86] 2012-03-14 (PCT/US2012/029037)
[87] (WO2012/125699)
[30] US (61/452,247) 2011-03-14
[30] US (13/176,088) 2011-07-05

[11] **2,819,997**
[13] C
[51] **Int.Cl. A61K 31/551 (2006.01) A61K 31/445 (2006.01) A61P 25/02 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **PREVENTIVE OR THERAPEUTIC AGENT FOR PAIN ASSOCIATED WITH HERPES ZOSTER IN ACUTE PHASE**
[54] **AGENT PREVENTIF OU THERAPEUTIQUE DE LA DOULEUR ASSOCIEE AU ZONA EN PHASE AIGUE**
[72] INOUE, KAZUHIDE, JP
[72] TSUDA, MAKOTO, JP
[72] MATSUMURA, YUTA, JP
[73] KYUSHU UNIVERSITY, JP
[73] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2013-06-04
[86] 2011-11-02 (PCT/JP2011/075244)
[87] (WO2012/060397)
[30] JP (2010-248173) 2010-11-05

[11] **2,820,297**
[13] C
[51] **Int.Cl. A61L 27/40 (2006.01) A61K 9/00 (2006.01) A61K 31/19 (2006.01) A61L 27/28 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **IMPLANTABLE DEVICES COATED WITH INSULIN-MIMETIC AGENT COMPOSITES AND METHODS THEREOF**
[54] **DISPOSITIFS IMPLANTABLES REVETUS DE COMPOSITES D'AGENT MIMETIQUE DE L'INSULINE, ET PROCEDES ASSOCIES**
[72] LIN, SHELDON SUTON, US
[72] PAGLIA, DAVID NAISBY, US
[72] O'CONNOR, JOHN PATRICK, US
[72] BREITBART, ERIC, US
[72] BENEVENIA, JOSEPH, US
[73] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US
[85] 2013-06-05
[86] 2011-12-09 (PCT/US2011/064240)
[87] (WO2012/079024)
[30] US (61/421,921) 2010-12-10
[30] US (61/428,342) 2010-12-30

---

[11] **2,820,767**
[13] C
[51] **Int.Cl. C07D 211/58 (2006.01) A61K 31/4468 (2006.01) A61K 31/4525 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) C07D 211/96 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **ASYMMETRIC UREAS AND MEDICAL USES THEREOF**
[54] **UREES ASYMETRIQUES ET UTILISATIONS MEDICALES DE CELLES-CI**
[72] GARCIA RUBIO, SILVINA, US
[72] PIETRA, CLAUDIO, IT
[72] GIULIANO, CLAUDIO, IT
[72] LI, ZHIGANG, CN
[73] HELSINN HEALTHCARE SA, CH
[85] 2013-06-06
[86] 2012-02-23 (PCT/US2012/026315)
[87] (WO2012/116176)
[30] CN (PCT/CN2011/00298) 2011-02-25
[30] US (61/466,070) 2011-03-22

---

[11] **2,821,200**
[13] C
[51] **Int.Cl. B65C 3/00 (2006.01) A22C 29/00 (2006.01) B65B 53/06 (2006.01) B65D 75/44 (2006.01)**
[25] EN
[54] **SHRINK-WRAP LABELLING OF CRUSTACEAN CLAWS**
[54] **ETIQUETAGE A FILM THERMORETRACTABLE POUR PINCES DE CRUSTACES**
[72] BABIN, LEE, CA
[72] BURKE, TIMOTHY ANDREW, CA
[72] GARVEY, BEN, CA
[72] MANUGE, LOUIS-PHILLIPE FREDERICK, CA
[72] O'LEARY, SEAN, CA
[72] SEKRETTA, GLEB, CA
[73] CLEARWATER SEAFOODS LIMITED PARTNERSHIP, CA
[85] 2013-06-11
[86] 2011-12-16 (PCT/CA2011/050778)
[87] (WO2012/079176)
[30] US (61/424,296) 2010-12-17

---

[11] **2,823,156**
[13] C
[51] **Int.Cl. B60J 5/04 (2006.01)**
[25] EN
[54] **TAPER DOOR CONNECTOR STRATEGY**
[54] **STRATEGIE DE CONNECTEUR DE PORTE CONIQUE**
[72] ENCK, BRIAN, US
[73] NAVISTAR DEFENSE, LLC, US
[86] (2823156)
[87] (2823156)
[22] 2013-08-08
[30] US (13/596,584) 2012-08-28

---

[11] **2,823,250**
[13] C
[51] **Int.Cl. E04B 1/80 (2006.01)**
[25] EN
[54] **CONSTRUCTION INSULATING PANEL**
[54] **PANNEAU ISOLANT DE CONSTRUCTION**
[72] DAYTON, LIONEL E., US
[73] DAYTON, LIONEL E., US
[85] 2013-06-27
[86] 2011-12-22 (PCT/US2011/066759)
[87] (WO2012/092108)
[30] US (12/978,709) 2010-12-27

---

[11] **2,825,318**
[13] C
[51] **Int.Cl. A61F 5/37 (2006.01) D06F 60/00 (2009.01) A41C 1/08 (2006.01) A61M 37/00 (2006.01) A41B 9/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF COSMETO-COMPRESSION APPAREL**
[54] **SYSTEMES ET PROCEDES D'UN VETEMENT DE COSMETO-COMPRESSION**
[72] MORAN, MICHELLE, US
[73] MORAN, MICHELLE, US
[85] 2013-07-19
[86] 2012-02-09 (PCT/US2012/024531)
[87] (WO2012/109474)
[30] US (61/441,457) 2011-02-10
[30] US (61/441,526) 2011-02-10

---

[11] **2,825,481**
[13] C
[51] **Int.Cl. H02J 7/04 (2006.01) H01M 10/46 (2006.01)**
[25] EN
[54] **CHARGE EQUALIZATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'EGALISATION DE CHARGE**
[72] HEIDENREICH, JAMES JOSEPH, US
[72] HAASS, MICHAEL A., US
[72] LE, THANH QUOC, US
[72] JENNINGS, SETH WILLIAM, US
[73] ALPHA TECHNOLOGIES SERVICES, INC., US
[85] 2013-07-18
[86] 2012-01-13 (PCT/US2012/021383)
[87] (WO2012/112252)
[30] US (61/435,298) 2011-01-22

---

[11] **2,825,842**
[13] C
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/00 (2006.01)**
[25] EN
[54] **DETENT MECHANISM**
[54] **MECANISME D'ARRET**
[72] BRERETON, SIMON FRANCIS, GB
[72] KEMP, THOMAS, GB
[72] BURNELL, ROSIE, GB
[72] EKMAN, MATTHEW, GB
[73] SANOFI-AVENTIS DEUTSCHLAND GMBH, DE
[85] 2013-07-26
[86] 2012-02-16 (PCT/EP2012/052642)
[87] (WO2012/110574)
[30] EP (11155035.6) 2011-02-18

[11] **2,825,949**
[13] C
[51] **Int.Cl. A61B 17/32 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DISCONTINUOUS DERMABRASION**
[54] **PROCEDE ET APPAREIL POUR DERMABRASION DISCONTINUE**
[72] AUSTEN, WILLIAM G., US
[72] MANSTEIN, DIETER, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2013-07-29
[86] 2012-01-27 (PCT/US2012/022987)
[87] (WO2012/103488)
[30] US (61/437,500) 2011-01-28

---

[11] **2,826,218**
[13] C
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61K 47/32 (2006.01)**
[25] EN
[54] **A PATCH AND PATCH PREPARATION COMPRISING A SUPPORT AND AN ADHESIVE LAYER**
[54] **TIMBRE TRANSDERMIQUE ET PREPARATION DE TIMBRE TRANSDERMIQUE**
[72] NISHIMURA, MASATO, JP
[72] IWAO, YOSHIHIRO, JP
[72] OKADA, KATSUHIRO, JP
[72] MATSUOKA, KENSUKE, JP
[73] NITTO DENKO CORPORATION, JP
[85] 2013-07-31
[86] 2012-02-01 (PCT/JP2012/052308)
[87] (WO2012/105620)
[30] JP (2011-021195) 2011-02-02

---

[11] **2,826,703**
[13] C
[51] **Int.Cl. A61B 17/92 (2006.01) A61B 17/17 (2006.01) A61B 17/72 (2006.01)**
[25] EN
[54] **INTRAMEDULLARY NAIL HAVING SELF-RETAINING COMPRESSION SLOT**
[54] **CLOU INTRAMEDULLAIRE AYANT UNE FENTE DE COMPRESSION AUTO-RETENTIVE**
[72] OVERES, TOM, CH
[73] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2013-08-06
[86] 2012-02-14 (PCT/US2012/024978)
[87] (WO2012/112495)
[30] US (61/442,397) 2011-02-14

---

[11] **2,827,485**
[13] C
[51] **Int.Cl. A43B 13/20 (2006.01) A43B 3/00 (2006.01) A43B 7/14 (2006.01)**
[25] EN
[54] **SHOE FOR STIMULATING BLOOD FLOW**
[54] **CHAUSSURE DESTINEE A LA STIMULATION DE LA CIRCULATION SANGUINE**
[72] LINDSAY, LESLIE, GB
[72] THOMAS, ROLF LEWIS, GB
[73] THE DIABETIC BOOT COMPANY LIMITED, GB
[85] 2013-08-15
[86] 2012-02-15 (PCT/GB2012/000156)
[87] (WO2012/110763)
[30] GB (1102637.4) 2011-02-15
[30] GB (1104459.1) 2011-03-16

---

[11] **2,827,737**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/78 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE DELIVERY APPARATUS**
[54] **APPAREIL DE POSE DE VALVULE CARDIAQUE PROTHETIQUE**
[72] LIU, JUN, US
[72] PESCE, LUCA, US
[72] POPP, MICHAEL J., US
[72] ALON, DAVID, US
[72] JAFARI, MO, US
[72] DELGADO, SERGIO, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2013-08-19
[86] 2012-02-27 (PCT/US2012/026784)
[87] (WO2012/116368)
[30] US (61/446,972) 2011-02-25
[30] US (13/405,119) 2012-02-24

---

[11] **2,828,165**
[13] C
[51] **Int.Cl. C25B 13/00 (2006.01) H01M 8/0202 (2016.01) H01M 8/083 (2016.01) C25B 1/12 (2006.01)**
[25] EN
[54] **NOVEL SEPARATOR, AN ELECTROCHEMICAL CELL THEREWITH AND USE THEREOF THEREIN**
[54] **NOUVEAU SEPARATEUR, CELLULE ELECTROCHIMIQUE DOTEE DE CELUI-CI ET SON UTILISATION DANS CELLE-CI**
[72] DOYEN, WILLY, BE
[72] ALVAREZ GALLEGO, YOLANDA, BE
[73] VITO NV, BE
[85] 2013-08-23
[86] 2012-02-28 (PCT/EP2012/053376)
[87] (WO2012/116994)
[30] EP (11156178.3) 2011-02-28
[30] US (61/447,145) 2011-02-28

[11] **2,828,379**
[13] C
[51] **Int.Cl. H01M 2/10 (2006.01)**
[25] EN
[54] **BATTERY HOLDER APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE SUPPORT DE PILES**
[72] MULLET, WILLIS JAY, US
[72] WYSOCZYNSKI, CHRISTOPHER LEE, US
[72] ASBURY, HARRY EDWARD, US
[73] THE WATT STOPPER, INC., US
[85] 2013-08-27
[86] 2012-02-01 (PCT/US2012/000052)
[87] (WO2012/118556)
[30] US (12/932,611) 2011-03-01

---

[11] **2,828,748**
[13] C
[51] **Int.Cl. C07D 409/04 (2006.01) A61K 31/4025 (2006.01) A61K 31/427 (2006.01) A61P 31/04 (2006.01) C07D 257/04 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL / ADJUVANT COMPOUNDS AND METHODS**
[54] **COMPOSES ANTIMICROBIENS/D'ADJUVANTS ET PROCEDES ASSOCIES**
[72] WU, FAN, CA
[72] LU, ERHU, CA
[72] BARDEN, CHRISTOPHER J., CA
[73] DENOVAMED INC., CA
[85] 2013-08-26
[86] 2012-03-02 (PCT/CA2012/050130)
[87] (WO2012/116452)
[30] US (61/448,682) 2011-03-03

---

[11] **2,831,152**
[13] C
[51] **Int.Cl. A01K 29/00 (2006.01) G06Q 50/02 (2012.01) A01K 5/02 (2006.01) A01K 7/02 (2006.01) A61B 5/01 (2006.01) A61D 99/00 (2006.01) H04N 5/33 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR USING INFRARED THERMOGRAPHY AND BEHAVIOUR INFORMATION FOR IDENTIFICATION OF BIOLOGICALLY IMPORTANT STATES IN ANIMALS**
[54] **APPAREIL ET PROCEDE PERMETTANT D'UTILISER DES INFORMATIONS DE THERMOGRAPHIE ET DE COMPORTEMENT POUR IDENTIFIER DES ETATS BIOLOGIQUEMENT IMPORTANTS CHEZ DES ANIMAUX**
[72] BENCH, CLOVER, CA
[72] SCHAEFER, ALLAN, CA
[73] BENCH, CLOVER, CA
[73] SCHAEFER, ALLAN, CA
[85] 2013-09-24
[86] 2012-03-28 (PCT/CA2012/000279)
[87] (WO2012/129657)
[30] US (61/468,492) 2011-03-28

---

[11] **2,831,431**
[13] C
[51] **Int.Cl. E02F 3/407 (2006.01) E02F 3/80 (2006.01) E05F 5/06 (2006.01) F16F 9/14 (2006.01)**
[25] EN
[54] **SNUBBER APPARATUS**
[54] **APPAREIL RALENTISSEUR**
[72] PILON, MICHEL, CA
[73] 9257-5810 QUEBEC INC., CA
[85] 2013-09-26
[86] 2012-05-18 (PCT/CA2012/050328)
[87] (WO2012/155274)
[30] US (61/487,730) 2011-05-19
[30] US (61/588,315) 2012-01-19
[30] US (61/605,852) 2012-03-02

---

[11] **2,831,812**
[13] C
[51] **Int.Cl. G01B 17/02 (2006.01) G01N 29/26 (2006.01) G01S 15/88 (2006.01) G21C 17/017 (2006.01)**
[25] EN
[54] **PROFILING TOOL FOR DETERMINING MATERIAL THICKNESS FOR INSPECTION SITES HAVING COMPLEX TOPOGRAPHY**
[54] **OUTIL DE PROFILAGE POUR DETERMINER L'EPAISSEUR D'UNE MATIERE, DESTINE A DES SITES D'INSPECTION AYANT UNE TOPOGRAPHIE COMPLEXE**
[72] ADAMS, PAUL GREGORY, CA
[72] CHAPLIN, KENNETH ROBERT, CA
[72] CRAIG, STUART THOMAS, CA
[72] DUNFORD, DAVID WALTER, CA
[72] GAUDET, MICHEL JOSEPH GILLES, CA
[72] HEBERT, HELENE MARIE, CA
[72] JONES, KRISTOPHER KYLE, CA
[72] LONGHURST, GLENN CURTIS, CA
[72] LUMSDEN, ROBERT HAYDEN, CA
[73] ATOMIC ENERGY OF CANADA LIMITED, CA
[85] 2013-09-30
[86] 2012-03-30 (PCT/CA2012/050205)
[87] (WO2012/129703)
[30] US (61/470,119) 2011-03-31

---

[11] **2,832,349**
[13] C
[51] **Int.Cl. A61B 17/16 (2006.01) A61B 17/56 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **MEDICAL IMPLANT EXTRACTION DEVICE**
[54] **DISPOSITIF D'EXTRACTION D'UN IMPLANT MEDICAL**
[72] PAUL, ROSS EDWARD, CA
[73] RP MEDICAL INC., CA
[85] 2013-10-04
[86] 2011-04-05 (PCT/CA2011/000404)
[87] (WO2011/123954)
[30] US (61/341,785) 2010-04-05

[11] **2,833,081**
[13] C
[51] **Int.Cl. C12N 15/29 (2006.01) A61K 39/36 (2006.01) C07K 14/415 (2006.01)**
[25] EN
[54] **HYPOALLERGEN**
[54] **SUBSTANCES A ACTION HYPOALLERGENIQUE**
[72] TAKKINEN, KRISTIINA, FI
[72] LAUKKANEN, MARJA-LEENA, FI
[72] SODERLUND, HANS, FI
[72] JYLHA, SIRPA, FI
[72] HOLKERI, HEIDI, FI
[72] NIEMI, MERJA, FI
[72] JANIS, JANNE, FI
[72] ROUVINEN, JUHA, FI
[73] DESENTUM OY, FI
[85] 2013-10-11
[86] 2012-04-18 (PCT/EP2012/057046)
[87] (WO2012/143374)
[30] FI (20115374) 2011-04-18
[30] US (61/476,488) 2011-04-18

[11] **2,833,951**
[13] C
[51] **Int.Cl. B42D 25/328 (2014.01) B42D 25/342 (2014.01) B42D 25/369 (2014.01) B42D 15/00 (2006.01) G02B 3/06 (2006.01) G02B 27/22 (2018.01)**
[25] EN
[54] **SECURITY DEVICE**
[54] **DISPOSITIF DE SECURITE**
[72] HOLMES, BRIAN WILLIAM, GB
[73] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2013-10-22
[86] 2012-05-03 (PCT/GB2012/050963)
[87] (WO2012/153106)
[30] GB (1107657.7) 2011-05-09

[11] **2,834,350**
[13] C
[51] **Int.Cl. G08C 19/12 (2006.01) A61B 5/0215 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **WIRELESS SENSOR READER**
[54] **LECTEUR A CAPTEUR SANS FIL**
[72] NAGY, MICHAEL, US
[72] ROWLAND, HARRY, US
[72] WATKINS, ROGER, US
[72] SUNDARAM, BALAMURUGAN, US
[73] ENDOTRONIX, INC., US
[85] 2013-10-25
[86] 2012-04-25 (PCT/US2012/034979)
[87] (WO2012/149008)
[30] US (61/478,647) 2011-04-25
[30] US (13/423,693) 2012-03-19

[11] **2,834,831**
[13] C
[51] **Int.Cl. F16L 9/19 (2006.01) F15C 3/00 (2006.01) F16C 3/02 (2006.01) F16H 57/02 (2012.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR AXIALLY TRANSFERRING FLUIDS TO A PLURALITY OF COMPONENTS**
[54] **APPAREIL ET PROCEDE DE TRANSFERT AXIAL DE FLUIDES VERS UNE PLURALITE DE COMPOSANTS**
[72] RASZKOWSKI, JAMES A., US
[72] REDELMAN, JAMES A., US
[72] ANDERSON, MARK L., US
[73] ALLISON TRANSMISSION, INC., US
[85] 2013-10-31
[86] 2012-04-27 (PCT/US2012/035340)
[87] (WO2012/151119)
[30] US (13/099,584) 2011-05-03

[11] **2,834,938**
[13] C
[51] **Int.Cl. F01K 3/00 (2006.01) F01K 23/10 (2006.01)**
[25] EN
[54] **THERMAL ENERGY STORAGE FOR COMBINED CYCLE POWER PLANTS**
[54] **STOCKAGE D'ENERGIE THERMIQUE POUR CENTRALES A CYCLE COMBINE**
[72] BINDRA, HITESH, US
[72] SHINNAR, REUEL (DECEASED), US
[73] RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK, US
[85] 2013-11-01
[86] 2012-01-10 (PCT/US2012/020743)
[87] (WO2012/150969)
[30] US (61/481,312) 2011-05-02

[11] **2,835,124**
[13] C
[51] **Int.Cl. H01G 11/84 (2013.01)**
[25] FR
[54] **METHOD FOR ASSEMBLING A HYBRID LITHIUM SUPERCAPACITOR**
[54] **PROCEDE D'ASSEMBLAGE D'UN SYSTEME ELECTROCHIMIQUE HYBRIDE**
[72] ANOUTI, MERIEM, FR
[72] LEMORDANT, DANIEL, FR
[72] LOTA, GRZEGORZ, PL
[72] DECAUX-MOUEZA, CELINE, FR
[72] RAYMUNDO-PINERO, ENCARNACION, FR
[72] BEGUIN, FRANCOIS, FR
[72] AZAIS, PHILIPPE, FR
[73] UNIVERSITE D'ORLEANS, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] BLUE SOLUTIONS, FR
[73] UNIVERSITE DE TOURS, FR
[85] 2013-11-04
[86] 2012-04-17 (PCT/FR2012/050837)
[87] (WO2012/172211)
[30] FR (1155048) 2011-06-09

[11] **2,835,498**
[13] C
[51] **Int.Cl. C08B 37/08 (2006.01) A61K 31/737 (2006.01) C08L 5/08 (2006.01)**
[25] EN
[54] **BIOTECHNOLOGICAL SULPHATED CHONDROITIN SULPHATE AT POSITION 4 OR 6 ON THE SAME POLYSACCHARIDE CHAIN, AND PROCESS FOR THE PREPARATION THEREOF**
[54] **SULFATE DE CHONDROITINE SULFATEE BIOTECHNOLOGIQUE A LA POSITION 4 OU 6 SUR LA MEME CHAINE DE POLYSACCHARIDE, ET PROCEDE POUR LA PREPARATION DE CELUI-CI**
[72] BIANCHI, DAVIDE, IT
[72] VALETTI, MARCO, IT
[72] BAZZA, PAOLA, IT
[72] MIRAGLIA, NICCOLO, IT
[72] VALOTI, ERMANNO, IT
[73] GNOSIS S.P.A., IT
[85] 2013-11-08
[86] 2012-05-10 (PCT/EP2012/058654)
[87] (WO2012/152872)
[30] IT (MI2011A000829) 2011-05-12
[30] IT (MI2012A000136) 2012-02-02

[11] **2,836,577**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6848 (2018.01) C12Q 1/6862 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR DETECTING TARGET NUCLEIC ACIDS**
[54] **PROCEDES ET COMPOSITIONS POUR LA DETECTION D'ACIDES NUCLEIQUES CIBLES**
[72] TERBRUEGGEN, ROBERT, US
[72] LIU, YENBOU, US
[72] CHILDERS, JOHN RAY, JR., US
[72] KIM, CHANG HEE, US
[72] ABEDI, MAJID R., US
[73] DXTERITY DIAGNOSTICS INCORPORATED, US
[85] 2013-11-18
[86] 2012-05-17 (PCT/US2012/038436)
[87] (WO2012/158967)
[30] US (61/486,817) 2011-05-17

[11] **2,836,628**
[13] C
[51] **Int.Cl. F25J 1/02 (2006.01)**
[25] EN
[54] **PROCESS FOR LIQUEFACTION OF NATURAL GAS**
[54] **PROCEDE DESTINE A LA LIQUEFACTION DU GAZ NATUREL**
[72] MAUNDER, ANTHONY DWIGHT, GB
[72] SKINNER, GEOFFREY FREDERICK, GB
[73] GASCONSULT LIMITED, GB
[85] 2013-11-19
[86] 2012-06-11 (PCT/GB2012/000502)
[87] (WO2012/172281)
[30] GB (1110096.3) 2011-06-15

[11] **2,837,024**
[13] C
[51] **Int.Cl. G09B 9/14 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR SIMULATING ACCELERATIONS**
[54] **DISPOSITIF ET PROCEDE DE SIMULATION D'ACCELERATIONS**
[72] SCHLUSSELBERGER, RICHARD, AT
[72] WENTINK, MARK, NL
[73] AMST-SYSTEMTECHNIK GMBH, AT
[85] 2013-11-21
[86] 2012-05-21 (PCT/EP2012/059367)
[87] (WO2012/160025)
[30] US (61/489,065) 2011-05-23
[30] AT (A739/2011) 2011-05-23
[30] US (61/535,523) 2011-09-16
[30] AT (A1342/2011) 2011-09-16

[11] **2,837,081**
[13] C
[51] **Int.Cl. A01N 37/44 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **USE OF PHOTOSYNTHETIC PIGMENT STABILIZING AGENTS TO REGULATE RIPENING AND QUALITY IN FRUITS AND VEGETABLES**
[54] **UTILISATION D'AGENTS DE STABILISATION DE PIGMENT PHOTOSYNTHETIQUE POUR REGULER LE MURISSEMENT ET LA QUALITE DE FRUITS ET DE LEGUMES**
[72] DHINGRA, AMIT, US
[72] SCHAEFFER, SCOTT, US
[73] WASHINGTON STATE UNIVERSITY RESEARCH FOUNDATION, US
[85] 2013-11-21
[86] 2012-05-23 (PCT/US2012/039038)
[87] (WO2012/162335)
[30] US (61/489,103) 2011-05-23

[11] **2,837,153**
[13] C
[51] **Int.Cl. G01N 1/28 (2006.01) G01N 33/68 (2006.01)**
[25] FR
[54] **METHOD FOR DETECTING AND QUANTIFYING A TARGET MOLECULE IN A TISSUE**
[54] **PROCEDE DE DETECTION ET DE QUANTIFICATION D'UNE MOLECULE CIBLE DANS UN TISSU**
[72] STAUBER, JONATHAN, FR
[72] BONNEL, DAVID, FR
[73] IMABIOTECH, FR
[85] 2013-11-22
[86] 2012-05-29 (PCT/FR2012/051205)
[87] (WO2012/164221)
[30] FR (1154731) 2011-05-31

[11] **2,837,293**
[13] C
[51] **Int.Cl. F04D 29/30 (2006.01)**
[25] EN
[54] **IMPELLER HAVING BLADES WITH A NONLINEAR PROFILE**
[54] **HELICE COMPORTANT DES PALES AYANT UN PROFIL NON LINEAIRE**
[72] SWIATEK, CHESTER V., US
[72] GRIGORIEV, MIKHAIL, US
[72] HITT, JAMES, US
[73] INGERSOLL-RAND COMPANY, US
[85] 2013-11-25
[86] 2012-03-02 (PCT/US2012/027557)
[87] (WO2012/161849)
[30] US (13/113,898) 2011-05-23

[11] **2,837,339**
[13] C
[51] **Int.Cl. E21B 19/22 (2006.01) E21B 47/04 (2012.01)**
[25] EN
[54] **WIRELINE APPARATUS**
[54] **APPAREIL DE CABLE METALLIQUE**
[72] HUIZER, JAN ARIE ALDO, NL
[73] PARADIGM TECHNOLOGY SERVICES B.V., NL
[85] 2013-11-25
[86] 2012-05-24 (PCT/EP2012/059765)
[87] (WO2012/160170)
[30] GB (1108693.1) 2011-05-24

[11] **2,837,901**
[13] C
[51] **Int.Cl. A61K 41/00 (2006.01) A61K 9/127 (2006.01) A61K 9/14 (2006.01) A61K 31/704 (2006.01) A61K 47/22 (2006.01) A61K 49/00 (2006.01) A61K 51/12 (2006.01) B01J 13/02 (2006.01) C12P 17/18 (2006.01) C12P 41/00 (2006.01) C07F 9/6561 (2006.01)**
[25] EN
[54] **METHOD FOR THE ENZYMATIC PREPARATION OF A COMPOSITION OF PORPHYRIN-PHOSPHOLIPID CONJUGATES WITH DEFINED REGIOISOMERIC RATIOS**
[54] **PROCEDE POUR LA PREPARATION ENZYMATIQUE D'UNE COMPOSITION DE CONJUGUES PORPHYRINE-PHOSPHOLIPIDE AVEC DES RAPPORTS REGIOISOMERIQUES DEFINIS**
[72] ZHENG, GANG, CA
[72] LOVELL, JONATHAN F., CA
[73] UNIVERSITY HEALTH NETWORK, CA
[85] 2013-12-02
[86] 2012-05-25 (PCT/CA2012/000500)
[87] (WO2012/167350)
[30] US (61/493,538) 2011-06-06

---

[11] **2,839,169**
[13] C
[51] **Int.Cl. B07B 1/10 (2006.01) B01D 33/04 (2006.01) B01D 36/02 (2006.01) B01D 39/08 (2006.01) E21B 21/06 (2006.01)**
[25] EN
[54] **SIEVE CLOTH AND METHOD OF USING SAME**
[54] **TOILE A TAMIS ET SON PROCEDE D'UTILISATION**
[72] VASSHUS, JAN KRISTIAN, NO
[72] MALMIN, ARNE, NO
[73] CUBILITY AS, NO
[85] 2013-12-12
[86] 2012-06-28 (PCT/NO2012/050124)
[87] (WO2013/002647)
[30] NO (20110938) 2011-06-29
[30] US (61/503,011) 2011-06-30
[30] NO (20120593) 2012-05-22

---

[11] **2,840,469**
[13] C
[51] **Int.Cl. E21B 43/12 (2006.01) F04B 1/053 (2006.01) F04B 1/10 (2006.01) F04B 47/06 (2006.01)**
[25] EN
[54] **DOWNHOLE HYDRAULIC PUMP**
[54] **POMPE HYDRAULIQUE DE FOND DE PUITS**
[72] HALLUNDBAEK, JORGEN, DK
[72] GRABAEK, PETER, DK
[73] WELLTEC A/S, DK
[85] 2013-12-23
[86] 2012-07-04 (PCT/EP2012/062980)
[87] (WO2013/007566)
[30] EP (11173224.4) 2011-07-08

---

[11] **2,841,128**
[13] C
[51] **Int.Cl. G06Q 40/08 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RISK VALIDATION**
[54] **SYSTEME ET PROCEDE DE VALIDATION DE RISQUE**
[72] CHRISTIE-SORENSEN, AMANDA B., US
[72] KISH, ANITA L., US
[73] THE TRAVELERS INDEMNITY COMPANY, US
[85] 2014-01-07
[86] 2012-07-06 (PCT/US2012/045713)
[87] (WO2013/009604)
[30] US (13/179,005) 2011-07-08

---

[11] **2,841,179**
[13] C
[51] **Int.Cl. G01S 1/00 (2006.01) G01S 13/00 (2006.01) G08B 21/02 (2006.01) H04B 10/00 (2013.01)**
[25] EN
[54] **A SYSTEM FOR PREVENTING FRIENDLY FIRE ACCIDENTS**
[54] **SYSTEME POUR PREVENIR LES ACCIDENTS LIES A DES TIRS AMIS**
[72] SCOTT, MICHAEL R., NZ
[73] HUNTER SAFETY LAB, LLC, NZ
[85] 2013-12-20
[86] 2012-07-13 (PCT/IB2012/053603)
[87] (WO2013/008213)
[30] NZ (594034) 2011-07-13

---

[11] **2,841,438**
[13] C
[51] **Int.Cl. B01D 3/00 (2006.01) B01D 3/22 (2006.01)**
[25] EN
[54] **UREA REACTOR TRAY, REACTOR, AND PRODUCTION PROCESS**
[54] **PLATEAU DE REACTEUR A UREE, REACTEUR ET PROCEDE DE PRODUCTION CORRESPONDANTS**
[72] AVAGLIANO, UGO, IT
[72] CARLESSI, LINO, IT
[73] SAIPEM S.P.A., IT
[85] 2014-01-10
[86] 2012-07-04 (PCT/IB2012/053421)
[87] (WO2013/008147)
[30] IT (MI2011A001299) 2011-07-12

---

[11] **2,842,687**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **FIBER OPTIC CABLES SEAL AND/OR STRAIN RELIEF MEMBERS**
[54] **ELEMENTS DE BLOCAGE ET/OU DE REDUCTION DE LA TENSION DE CABLES DE FIBRE OPTIQUE**
[72] BEAMON, HUBERT BLAIR, US
[72] COX, TERRY DEAN, US
[72] SCHWARTZ, HOWARD CLARK, US
[73] CORNING OPTICAL COMMUNICATIONS LLC, US
[85] 2014-01-21
[86] 2012-07-24 (PCT/US2012/047917)
[87] (WO2013/019467)
[30] US (61/513,151) 2011-07-29

[11] **2,843,484**
[13] C
[51] **Int.Cl. C08K 3/18 (2006.01) E01F 9/50 (2016.01) E01F 9/506 (2016.01) C08K 5/00 (2006.01) C08K 7/20 (2006.01) C08L 33/08 (2006.01) C09D 4/06 (2006.01)**
[25] EN
[54] **LOW-ODOUR (METH)ACRYLIC REACTION RESINS**
[54] **RESINES REACTIVES DE (METH)ACRYLIQUES A FAIBLE ODEUR**
[72] HILF, STEFAN, DE
[72] KLEIN, ALEXANDER, DE
[72] HEEB, HEIKE, DE
[72] KIZEWSKI, INGRID, DE
[72] GRIMM, SEBASTIAN, DE
[72] FLITTNER, MICHAEL, DE
[73] EVONIK ROHM GMBH, DE
[85] 2014-01-29
[86] 2012-07-02 (PCT/EP2012/062790)
[87] (WO2013/017350)
[30] DE (10 2011 109 139.8) 2011-08-02

---

[11] **2,843,581**
[13] C
[51] **Int.Cl. F02K 1/76 (2006.01)**
[25] FR
[54] **METHOD FOR MONITORING THE LOCKING MEANS OF AN ELECTRICAL THRUST REVERSAL SYSTEM FOR A TURBINE ENGINE**
[54] **PROCEDE DE SURVEILLANCE DES MOYENS DE VERROUILLAGE D'UN SYSTEME ELECTRIQUE D'INVERSION DE POUSSEE POUR TURBOMACHINE**
[72] COLIN, ANTOINE OLIVIER FRANCOIS, FR
[72] GUEIT, NICOLAS MARIE PIERRE, FR
[72] IBANEZ GARCIA, CATHERINE DOROTHEE JOSETTE, FR
[73] SNECMA, FR
[85] 2014-01-29
[86] 2012-07-31 (PCT/FR2012/051805)
[87] (WO2013/021120)
[30] FR (1157201) 2011-08-05

---

[11] **2,843,700**
[13] C
[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/29 (2006.01) A61B 17/06 (2006.01) A61B 17/30 (2006.01)**
[25] EN
[54] **A SURGICAL SUTURE APPARATUS**
[54] **APPAREIL DE SUTURE CHIRURGICALE**
[72] VRANCKEN PEETERS, MARK-PAUL FRANCISCUS MARIA, NL
[73] MELLON MEDICAL B.V., NL
[85] 2014-01-30
[86] 2012-08-30 (PCT/NL2012/050593)
[87] (WO2013/032329)
[30] NL (2007318) 2011-08-30
[30] US (61/560,994) 2011-11-17

---

[11] **2,845,861**
[13] C
[51] **Int.Cl. E03F 1/00 (2006.01) B01D 35/02 (2006.01) E03F 5/14 (2006.01)**
[25] FR
[54] **SYSTEM AND METHOD FOR MONITORING AND TREATING GAS EMISSIONS INSIDE A SEWER MANHOLE**
[54] **SYSTEME ET METHODE POUR CONTROLER ET TRAITER DES EMANATIONS GAZEUSES A L'INTERIEUR D'UN PUITS D'ACCES D'EAUX USEES**
[72] PERRON, FRANCOIS, CA
[73] PERRON, FRANCOIS, CA
[85] 2014-02-20
[86] 2012-08-27 (PCT/CA2012/050592)
[87] (WO2013/029172)
[30] CA (2751144) 2011-08-26

---

[11] **2,846,427**
[13] C
[51] **Int.Cl. G06F 17/27 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR GENERATING A PARSER AND PARSING COMPLEX DATA**
[54] **PROCEDE ET SYSTEME POUR GENERER UN PARSEUR ET PARSAGE DE DONNEES COMPLEXES**
[72] ELLIOT, MARK, US
[73] PALANTIR TECHNOLOGIES, INC., US
[86] (2846427)
[87] (2846427)
[22] 2014-03-13
[30] US (61/801,432) 2013-03-15
[30] US (14/173,743) 2014-02-05

---

[11] **2,846,680**
[13] C
[51] **Int.Cl. C07K 14/605 (2006.01) C07K 1/04 (2006.01)**
[25] EN
[54] **SOLID PHASE SYNTHESIS OF H[GLY2]GLP-2**
[54] **SYNTHESE EN PHASE SOLIDE DE H[GLY2]GLP-2**
[72] WELLINGS, DON, GB
[73] SHIRE-NPS PHARMACEUTICALS, INC., US
[85] 2014-02-26
[86] 2011-08-30 (PCT/EP2011/064877)
[87] (WO2012/028602)
[30] EP (10174559.4) 2010-08-30

---

[11] **2,847,221**
[13] C
[51] **Int.Cl. G01N 19/10 (2006.01) G01N 33/38 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR MEASURING MOISTURE OF STRUCTURE MATERIAL**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE MESURE D'HUMIDITE DE MATIERE DE STRUCTURE**
[72] SALMI, RISTO-MATTI, FI
[72] LUOPAJARVI, TONI, FI
[73] WIISTE OY, FI
[85] 2014-02-28
[86] 2012-08-30 (PCT/FI2012/000035)
[87] (WO2013/030430)
[30] FI (20115846) 2011-08-30

---

[11] **2,849,720**
[13] C
[51] **Int.Cl. C12N 15/867 (2006.01) A61K 48/00 (2006.01) A61P 7/00 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **IMPROVED GENE THERAPY METHODS**
[54] **PROCEDES DE THERAPIE GENIQUE AMELIORES**
[72] NEGRE, OLIVIER, FR
[72] PAYEN, EMMANUEL, FR
[72] LEBOULCH, PHILIPPE, FR
[72] BEUZARD, YVES, FR
[73] BLUEBIRD BIO, INC., US
[85] 2014-03-21
[86] 2011-09-23 (PCT/US2011/053096)
[87] (WO2013/043196)

[11] **2,850,402**
[13] C
[51] **Int.Cl. G01V 1/30 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ANALYZING SEISMIC DATA**
[54] **SYSTEME ET PROCEDE POUR L'ANALYSE DE DONNEES SISMIQUES**
[72] PAYNE, BARTON A., US
[72] DEAL, KEVIN L., US
[72] SHEFFIELD, TATUM MICHAEL, US
[73] CHEVRON U.S.A. INC., US
[85] 2014-03-28
[86] 2012-07-25 (PCT/US2012/048097)
[87] (WO2013/048611)
[30] US (13/250,539) 2011-09-30

---

[11] **2,850,613**
[13] C
[51] **Int.Cl. B25F 5/00 (2006.01) B24B 23/04 (2006.01) B24B 45/00 (2006.01)**
[25] EN
[54] **ACCESSORY CLAMP FOR A POWER TOOL**
[54] **DISPOSITIF DE SERRAGE D'ACCESSOIRE POUR UN OUTIL ELECTRIQUE**
[72] BERNARDI, WALTER, US
[72] KNOLES, BRIAN, US
[73] ROBERT BOSCH GMBH, DE
[85] 2014-03-31
[86] 2012-09-28 (PCT/US2012/057786)
[87] (WO2013/049482)
[30] US (13/250,509) 2011-09-30

---

[11] **2,851,327**
[13] C
[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 9/28 (2006.01) A61K 9/50 (2006.01) A61P 1/04 (2006.01)**
[25] EN
[54] **COATED PELLETS OF OMEPRAZOLE**
[54] **GRANULES D'OMEPRAZOLE ENROBEES**
[72] SANGRA PEREZ, JAUME, ES
[72] ALCOCER ARANZANA, CRISTINA, ES
[73] ESTEVE PHARMACEUTICALS, S.A., ES
[85] 2014-04-07
[86] 2012-10-31 (PCT/EP2012/071553)
[87] (WO2013/064535)
[30] EP (11382336.3) 2011-11-02

---

[11] **2,851,399**
[13] C
[51] **Int.Cl. C07J 41/00 (2006.01) C07J 21/00 (2006.01) C07J 75/00 (2006.01)**
[25] EN
[54] **ULIPRISTAL ACETATE PREPARATION METHOD AND INTERMEDIATE THEREOF**
[54] **PROCEDE DE PREPARATION D'ACETATE D'ULIPRISTAL ET INTERMEDIAIRE ASSOCIE**
[72] LUO, JUNZHI, CN
[72] SUN, YONGQIANG, CN
[72] LUO, XUN, CN
[72] YAN, YIMIN, CN
[72] WANG, ZHAOJUN, CN
[72] QIAN, MINGXIA, CN
[72] TU, YONGRUI, CN
[73] UTOPHARM (SHANGHAI) CO., LTD., CN
[73] CHANGZHOU NO. 4 PHARMACEUTICAL FACTORY CO., LTD., CN
[85] 2014-04-08
[86] 2012-07-12 (PCT/CN2012/000952)
[87] (WO2013/063859)
[30] CN (201110339479.8) 2011-11-01

---

[11] **2,853,739**
[13] C
[51] **Int.Cl. H01M 8/0637 (2016.01) H01M 8/10 (2016.01)**
[25] EN
[54] **DIRECT CARBON ELECTROCHEMICAL CELL**
[54] **CELLULE ELECTROCHIMIQUE AU CARBONE DIRECT**
[72] IRVINE, JOHN THOMAS SIRR, GB
[72] CORRE, GAEL, GB
[72] JIANG, CAIRONG, GB
[73] UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS, GB
[85] 2014-04-28
[86] 2012-10-25 (PCT/GB2012/052657)
[87] (WO2013/061067)
[30] GB (1118641.8) 2011-10-28

---

[11] **2,854,110**
[13] C
[51] **Int.Cl. A61K 39/10 (2006.01) A61P 37/08 (2006.01) C12N 1/36 (2006.01)**
[25] EN
[54] **EFFECT OF AN ATTENUATED BORDETELLA STRAIN AGAINST ALLERGIC DISEASE**
[54] **EFFET D'UNE SOUCHE ATTENUEE DE BORDETELLA SUR UNE MALADIE ALLERGIQUE**
[72] ALONSO, SYLVIE CLAUDETTE, SG
[72] LI, RUI, CN
[72] LOCHT, CAMILLE, FR
[73] INSTITUT PASTEUR DE LILLE, FR
[73] NATIONAL UNIVERSITY OF SINGAPORE, SG
[73] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[85] 2014-04-30
[86] 2012-11-02 (PCT/SG2012/000417)
[87] (WO2013/066272)
[30] US (61/554,798) 2011-11-02

---

[11] **2,854,839**
[13] C
[51] **Int.Cl. A23K 20/189 (2016.01) A23K 10/30 (2016.01) C12N 9/24 (2006.01) A23K 30/15 (2016.01)**
[25] EN
[54] **A FEED COMPOSITION SUPPLEMENTED WITH A XYLANASE**
[54] **COMPOSITION ALIMENTAIRE ENRICHIE D'UN XYLANASE**
[72] BRUYER, DENIS, BE
[72] GEORIS, JACQUES, BE
[72] DORGEO, VALERIE, BE
[73] PURATOS N.V., BE
[85] 2014-05-07
[86] 2012-11-09 (PCT/EP2012/072307)
[87] (WO2013/068550)
[30] EP (11188480.5) 2011-11-09

[11] **2,854,945**
[13] C
[51] **Int.Cl. E04C 2/30 (2006.01) E04B 5/02 (2006.01) E04C 2/40 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **EXTRUDED DECK BOARD WITH FINISHING MATERIAL INSERT**
[54] **PLANCHE EXTRUDEE AVEC PIECE RAPPORTEE DE MATERIAU DE FINITION**
[72] WEBER, TORY, CA
[72] BOETTGER, BRIAN, CA
[72] LACHEVROTIERE, STEPHAN, CA
[72] PARENTEAU, FRANCOIS, CA
[73] SIGMA DEK LTD., CA
[86] (2854945)
[87] (2854945)
[22] 2014-06-25
[30] US (61/904,215) 2013-11-14

[11] **2,856,633**
[13] C
[51] **Int.Cl. F04F 5/16 (2006.01) F04B 49/22 (2006.01) F04D 27/00 (2006.01) F04F 5/46 (2006.01)**
[25] EN
[54] **A FAN ASSEMBLY**
[54] **ENSEMBLE VENTILATEUR**
[72] POULTON, ROY EDWARD, GB
[72] DAVIS, ALAN HOWARD, GB
[72] HODGETTS, JOSEPH ERIC, GB
[73] DYSON TECHNOLOGY LIMITED, GB
[85] 2014-05-22
[86] 2012-11-05 (PCT/GB2012/052743)
[87] (WO2013/076454)
[30] GB (1120268.6) 2011-11-24

[11] **2,857,778**
[13] C
[51] **Int.Cl. C07C 211/63 (2006.01) B01D 11/04 (2006.01) C07C 53/126 (2006.01)**
[25] EN
[54] **IONIC LIQUIDS, METHYLCARBONATE- OR CARBOXYLATES-BASED, OBTAINING PROCESS AND USE THEREOF**
[54] **LIQUIDES IONIQUES A BASE DE METHYLCARBONATE OU DE CARBOXYLATES, PROCEDE D'OBTENTION ET LEUR UTILISATION**
[72] LIKHANOVA, NATALYA VICTOROVNA, MX
[72] MORA VALLEJO, RODOLFO JUVENTINO, MX
[72] LAREDO SANCHEZ, GEORGINA CECILIA, MX
[72] LIJANOVA, IRINA VICTOROVNA, MX
[72] RODRIGUEZ HEREDIA, BERNANDO, MX
[73] INSTITUTO MEXICANO DEL PETROLEO, MX
[86] (2857778)
[87] (2857778)
[22] 2014-07-24
[30] MX (MX/A/2013/008554) 2013-07-24

[11] **2,861,751**
[13] C
[51] **Int.Cl. B65D 1/02 (2006.01) B29C 49/48 (2006.01) B65D 1/40 (2006.01) B65D 23/10 (2006.01)**
[25] EN
[54] **BOTTLE CONTAINER OF A PINCH-GRIP TYPE, AND MOVABLE INSERTS OF A BLOW MOLD USED TO MOLD SUCH A BOTTLE CONTAINER**
[54] **RECIPIENT EN FORME DE BOUTEILLE POUVANT ETRE EMPOIGNE ET GARNITURE MOBILE DE SON DISPOSITIF DE FILIERE DE SOUFFLAGE**
[72] MATSUO, YOSHINORI, JP
[72] USAMI, TETUROU, JP
[72] UESUGI, DAISUKE, JP
[73] YOSHINO KOGYOSHO CO., LTD., JP
[85] 2014-06-26
[86] 2012-12-10 (PCT/JP2012/081942)
[87] (WO2013/099573)
[30] JP (2011-285829) 2011-12-27
[30] JP (2011-285952) 2011-12-27

[11] **2,862,228**
[13] C
[51] **Int.Cl. B29B 11/16 (2006.01) B29D 99/00 (2010.01) B29C 31/08 (2006.01) B29C 33/00 (2006.01) B29C 70/08 (2006.01) B29C 70/48 (2006.01) B29C 70/54 (2006.01) B29C 70/86 (2006.01) B64C 11/26 (2006.01) B64C 27/00 (2006.01)**
[25] FR
[54] **METHOD FOR PRODUCING A PROPELLER BLADE FROM A COMPOSITE MATERIAL**
[54] **METHODE DE FABRICATION D'UNE PALE D'HELICE EN MATERIAU COMPOSITE**
[72] MATHON, RICHARD, FR
[72] FOUSSARD, OLIVIER, FR
[72] MARCHAL, YANN, FR
[72] VARIN, FRANCK BERNARD LEON, FR
[73] SNECMA, FR
[73] SAFRAN, FR
[85] 2014-07-22
[86] 2013-01-24 (PCT/FR2013/050145)
[87] (WO2013/110895)
[30] FR (1250710) 2012-01-25
[30] FR (1250705) 2012-01-25
[30] FR (1250707) 2012-01-25
[30] FR (1250708) 2012-01-25

[11] **2,863,292**
[13] C
[51] **Int.Cl. E21B 31/12 (2006.01) E21B 23/00 (2006.01) E21B 31/00 (2006.01) E21B 33/00 (2006.01)**
[25] EN
[54] **A METHOD AND AN APPARATUS FOR RETRIEVING A TUBING FROM A WELL**
[54] **PROCEDE ET APPAREIL POUR RECUPERER UN TUBE DE PRODUCTION D'UN PUITS**
[72] TINNEN, BARD MARTIN, NO
[73] ALTUS INTERVENTION AS, NO
[85] 2014-07-29
[86] 2013-01-29 (PCT/NO2013/050019)
[87] (WO2013/115655)
[30] NO (20120094) 2012-01-30

[11] **2,863,527**
[13] C
[51] **Int.Cl. A61L 2/28 (2006.01)**
[25] EN
[54] **DISINFECTION AND CLEANING CONFIRMATION SYSTEM**
[54] **SYSTEME DE CONFIRMATION DE DESINFECTION ET DE NETTOYAGE**
[72] BURNS, STEVEN JOSEPH, US
[72] SOM, ABHIGYAN, US
[72] TULPINSKI, WALTER JOSEPH, US
[73] METREX RESEARCH, LLC, US
[86] (2863527)
[87] (2863527)
[22] 2014-09-11
[30] US (14/030,940) 2013-09-18

---

[11] **2,864,023**
[13] C
[51] **Int.Cl. A23K 10/33 (2016.01) A23K 10/00 (2016.01) A23K 20/00 (2016.01) A23K 20/163 (2016.01) A23K 40/00 (2016.01) A23N 17/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING ANIMAL FEED**
[54] **PROCEDE DE PREPARATION D'ALIMENT POUR ANIMAUX**
[72] HEAP, FRANK CEDRIC, GB
[73] RUMENCO LTD, GB
[85] 2014-08-07
[86] 2012-11-19 (PCT/GB2012/052861)
[87] (WO2013/117878)
[30] GB (1202198.6) 2012-02-08

---

[11] **2,866,743**
[13] C
[51] **Int.Cl. F41G 1/46 (2006.01) F41F 3/04 (2006.01) F41G 11/00 (2006.01)**
[25] EN
[54] **LASER SIGHT FOR ROCKET LAUNCHER**
[54] **VISEUR LASER DESTINE A UN LANCE-ROQUETTES**
[72] HARTLEY, SCOTT, US
[72] MCDONALD, JAMES, US
[72] SUZUKI, DALE, US
[72] SWARTZ, DEE, US
[72] KLEIBER, JASON, US
[73] CRIMSON TRACE CORPORATION, US
[85] 2014-09-08
[86] 2013-03-13 (PCT/US2013/031043)
[87] (WO2014/014507)
[30] US (61/610,448) 2012-03-13

---

[11] **2,867,251**
[13] C
[51] **Int.Cl. E03F 7/06 (2006.01)**
[25] EN
[54] **PROTECTIVE DEVICE FOR A CULVERT PIPE**
[54] **DISPOSITIF PROTECTEUR POUR TUYAU DE PONCEAU**
[72] JOHNSTON, JASON, CA
[72] GAUTREAU, EDWARD, CA
[73] WESTMAN STEEL INDUSTRIES, CA
[86] (2867251)
[87] (2867251)
[22] 2014-10-02

---

[11] **2,869,175**
[13] C
[51] **Int.Cl. E05F 15/611 (2015.01) E05F 15/603 (2015.01) E05F 15/608 (2015.01) E05F 1/10 (2006.01)**
[25] EN
[54] **ROTARY-LEAF/-CASEMENT DRIVE**
[54] **DISPOSITIF D'ENTRAINEMENT DE VANTAIL**
[72] BISANG, HANS RUDOLF, CH
[72] BURRI, ERNST, CH
[72] WISMER, IVAN, CH
[73] GILGEN DOOR SYSTEMS AG, CH
[85] 2014-10-01
[86] 2013-04-05 (PCT/EP2013/057239)
[87] (WO2013/160087)
[30] CH (550/12) 2012-04-23

---

[11] **2,869,713**
[13] C
[51] **Int.Cl. A61B 18/26 (2006.01)**
[25] EN
[54] **SURGICAL LASER SYSTEMS AND LASER LITHOTRIPSY TECHNIQUES**
[54] **SYSTEMES LASER CHIRURGICAUX ET TECHNIQUES DE LITHOTRIPSIE AU LASER**
[72] CHIA, WEN-JUI RAY, US
[72] XUAN, RONGWEI JASON, US
[72] HASENBERG, THOMAS C., US
[72] ZHANG, JIAN JAMES, US
[72] PENG, STEVEN YIHLIH, US
[72] RAJABHANDHARAKS, DANOP, US
[73] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2014-10-06
[86] 2013-03-11 (PCT/US2013/030136)
[87] (WO2013/154708)
[30] US (61/623,256) 2012-04-12
[30] US (61/726,713) 2012-11-15

---

[11] **2,869,982**
[13] C
[51] **Int.Cl. A01K 45/00 (2006.01)**
[25] EN
[54] **DEVICE AND SYSTEM FOR PROCESSING OF EGGS, SUCH AS VACCINATION OR A VACUUM SUCTION OR GRABBER BASED PICK UP**
[54] **DISPOSITIF ET SYSTEME DE TRAITEMENT DES □UFS, COMME LA VACCINATION OU LE RAMASSAGE PAR ASPIRATION SOUS VIDE OU AVEC UN DISPOSITIF DE PREHENSION**
[72] VAN DE ZANDE, NICOLAAS KAREL, NL
[73] VISCON B.V., NL
[85] 2014-10-08
[86] 2013-04-02 (PCT/EP2013/056914)
[87] (WO2013/152970)
[30] EP (12164167.4) 2012-04-13

---

[11] **2,870,070**
[13] C
[51] **Int.Cl. H01H 33/02 (2006.01) H02B 13/035 (2006.01)**
[25] EN
[54] **GUIDE STRUCTURE FOR RAISING CONTROL CABINET OF A HIGH VOLTAGE DEAD TANK CIRCUIT BREAKER TO A SHIPPING POSITION**
[54] **STRUCTURE DE GUIDAGE PERMETTANT DE SOULEVER UNE ARMOIRE DE COMMANDE D'UN DISJONCTEUR DE TYPE DEAD TANK A HAUTE TENSION POUR L'AMENER A UNE POSITION DE TRANSPORT**
[72] CUPPETT, MATTHEW, US
[72] FUGE, JONATHAN, US
[72] DAHM, BETH, US
[73] ABB SCHWEIZ AG, CH
[85] 2014-10-09
[86] 2013-03-27 (PCT/US2013/033956)
[87] (WO2013/165631)
[30] US (61/623,597) 2012-04-13

[11] **2,870,218**
[13] C
[51] **Int.Cl. G06Q 30/06 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DISPLAYING PRODUCT INFORMATION ON A CONSUMER DEVICE**
[54] **PROCEDE ET SYSTEME D'AFFICHAGE D'INFORMATIONS DE PRODUIT SUR UN DISPOSITIF D'UTILISATEUR**
[72] CUMMINS, ORAN, IE
[72] LYONS, GARRY, IE
[72] HOPKINS, MATTHEW, US
[72] SHARMA, PRASHANT, US
[72] ELDER, STEPHEN, IE
[72] WHITNEY, STEPHEN, IE
[72] BURDETT, RICHARD, GB
[72] DORAN, TINA, GB
[72] FRIEDMAN, MICHAEL, US
[73] MASTERCARD INTERNATIONAL INCORPORATED, US
[85] 2014-10-09
[86] 2013-03-15 (PCT/US2013/032013)
[87] (WO2013/158288)
[30] US (61/625,982) 2012-04-18
[30] US (61/659,783) 2012-06-14
[30] US (61/703,028) 2012-09-19
[30] US (13/776,810) 2013-02-26

[11] **2,870,614**
[13] C
[51] **Int.Cl. F02C 9/28 (2006.01) F02C 9/46 (2006.01) F02C 9/48 (2006.01)**
[25] FR
[54] **TURBOMACHINE COMPRISING A MONITORING SYSTEM COMPRISING A MODULE FOR ENGAGING A PROTECTION FUNCTION OF THE TURBOMACHINE AND MONITORING METHOD**
[54] **TURBOMACHINE COMPORTANT UN SYSTEME DE SURVEILLANCE COMPRENANT UN MODULE D'ENGAGEMENT D'UNE FONCTION DE PROTECTION DE LA TURBOMACHINE ET PROCEDE DE SURVEILLANCE**
[72] COINTE, CECILE VALERIE MARIE, FR
[72] DINSART, MICHAEL, FR
[72] DJELASSI, CEDRIK, FR
[72] GAULLY, BRUNO ROBERT, FR
[73] SNECMA, FR
[85] 2014-10-16
[86] 2013-04-26 (PCT/FR2013/050934)
[87] (WO2013/160626)
[30] FR (12 53894) 2012-04-27

[11] **2,870,885**
[13] C
[51] **Int.Cl. C07C 29/94 (2006.01) B01J 23/04 (2006.01) C07C 31/18 (2006.01) C07C 31/22 (2006.01) C07C 67/00 (2006.01)**
[25] EN
[54] **GLYCEROL BASED POLYMER SURFACE ACTIVE CHEMISTRY AND PRODUCTION**
[54] **CHIMIE ET PRODUCTION DE TENSIO-ACTIFS POLYMERES A BASE DE GLYCEROL**
[72] LI, XIAOJIN HARRY, US
[72] DUGGIRALA, PRASAD, US
[72] SHIH, JOANNA L., US
[73] NALCO COMPANY, US
[85] 2014-10-16
[86] 2013-05-31 (PCT/US2013/043506)
[87] (WO2013/181481)
[30] US (13/484,526) 2012-05-31

[11] **2,872,925**
[13] C
[51] **Int.Cl. D21F 1/10 (2006.01) D21F 3/02 (2006.01) D21F 7/08 (2006.01)**
[25] EN
[54] **INDUSTRIAL FABRIC INCLUDING SPIRALLY WOUND MATERIAL STRIPS WITH REINFORCEMENT**
[54] **TISSU INDUSTRIEL COMPORTANT DES BANDES DE MATERIAU ENROULEES EN SPIRALE AVEC RENFORT**
[72] EAGLES, DANA, US
[72] HANSEN, ROBERT, US
[72] KARLSSON, JONAS, SE
[73] ALBANY INTERNATIONAL CORP., US
[85] 2014-11-06
[86] 2013-05-09 (PCT/US2013/040360)
[87] (WO2013/170038)
[30] US (13/469,994) 2012-05-11

[11] **2,873,299**
[13] C
[51] **Int.Cl. F04D 29/66 (2006.01) F04D 29/42 (2006.01) F04F 5/16 (2006.01)**
[25] EN
[54] **AIR DUCT CONFIGURATION FOR A BLADELESS FAN**
[54] **CONFIGURATION DE CONDUIT D'AIR DESTINE A UN VENTILATEUR SANS AUBES**
[72] JOHNSON, JACK, GB
[72] BLANC, JEAN-BAPTISTE, GB
[73] DYSON TECHNOLOGY LIMITED, GB
[85] 2014-11-12
[86] 2013-04-19 (PCT/GB2013/050989)
[87] (WO2013/171450)
[30] GB (1208614.6) 2012-05-16

[11] **2,873,359**
[13] C
[51] **Int.Cl. B01J 38/00 (2006.01) B01J 23/40 (2006.01) B01J 23/755 (2006.01) B01J 23/89 (2006.01) B01J 23/90 (2006.01) C07C 29/14 (2006.01) C07H 1/00 (2006.01)**
[25] EN
[54] **REGENERATION OF CATALYST FOR HYDROGENATION OF SUGARS**
[54] **REGENERATION D'UN CATALYSEUR D'HYDROGENATION DE SUCRES**
[72] MA, CHICHENG, US
[73] ARCHER DANIELS MIDLAND COMPANY, US
[85] 2014-11-12
[86] 2013-04-17 (PCT/US2013/036901)
[87] (WO2013/176803)
[30] US (61/651,021) 2012-05-24

---

[11] **2,875,609**
[13] C
[51] **Int.Cl. B65G 47/19 (2006.01) B65G 65/42 (2006.01) G01G 11/08 (2006.01)**
[25] EN
[54] **SYSTEM OF UNLOADING BULK MATERIAL**
[54] **SYSTEME DE DECHARGEMENT DE MATERIAU EN VRAC**
[72] LOPES, BRUNO EDUARDO, BR
[73] VALE S.A., BR
[73] LOPES, BRUNO EDUARDO, BR
[85] 2014-12-03
[86] 2013-05-24 (PCT/BR2013/000181)
[87] (WO2013/181728)
[30] US (61/655,350) 2012-06-04

---

[11] **2,876,392**
[13] C
[51] **Int.Cl. C09K 3/00 (2006.01) A23L 5/49 (2016.01) A61K 9/10 (2006.01) A61K 31/327 (2006.01) A61P 17/10 (2006.01)**
[25] EN
[54] **PEROXIDE DISPERSIONS**
[54] **DISPERSIONS DE PEROXYDE**
[72] KOZEL, THOMAS H., US
[72] GRAVELLE, JOSEPH M., US
[72] BELFORD, TIMOTHY, US
[72] SALVADOR, TOMAS, US
[73] ARKEMA INC., US
[85] 2014-12-11
[86] 2013-03-01 (PCT/US2013/028492)
[87] (WO2013/187949)
[30] US (61/660,148) 2012-06-15

---

[11] **2,877,230**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **HEART VALVE PROSTHESES**
[54] **PROTHESES VALVULAIRES CARDIAQUES**
[72] SQUARA, PIERRE, FR
[73] SQUARA, PIERRE, FR
[85] 2014-12-18
[86] 2012-06-22 (PCT/IB2012/001630)
[87] (WO2013/190344)

---

[11] **2,877,293**
[13] C
[51] **Int.Cl. H02G 3/14 (2006.01) H02G 3/16 (2006.01) H01H 9/08 (2006.01) H01R 25/16 (2006.01)**
[25] EN
[54] **ELECTRICAL FITTINGS WITH INTEGRAL COVER PLATE AND METHOD OF USE THEREOF**
[54] **ACCESSOIRES ELECTRIQUES A PLAQUE DE COUVERCLE INTEGREE ET PROCEDE D'UTILISATION DE CEUX-CI**
[72] MOSS, J., US
[73] MOSS, J., US
[85] 2014-12-18
[86] 2013-04-29 (PCT/US2013/038619)
[87] (WO2013/165885)
[30] US (13/460,060) 2012-04-30

---

[11] **2,878,032**
[13] C
[51] **Int.Cl. B29C 70/54 (2006.01) B29C 70/22 (2006.01)**
[25] EN
[54] **A UNIDIRECTIONAL REINFORCEMENT AND A METHOD OF PRODUCING A UNIDIRECTIONAL REINFORCEMENT**
[54] **RENFORCEMENT UNIDIRECTIONNEL ET PROCEDE DE PRODUCTION D'UN RENFORCEMENT UNIDIRECTIONNEL**
[72] BERGSTROM, RAINER, FI
[73] AHLSTROM-MUNKSJO OYJ, FI
[85] 2014-12-24
[86] 2013-07-15 (PCT/FI2013/050764)
[87] (WO2014/013137)
[30] EP (12177268.5) 2012-07-20
[30] FI (20135469) 2013-05-07

---

[11] **2,879,381**
[13] C
[51] **Int.Cl. B04C 5/13 (2006.01) B01D 19/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR CYCLONE SEPARATION OF A FLUID FLOW INTO A GAS PHASE AND A LIQUID PHASE AND VESSEL PROVIDED WITH SUCH AN APPARATUS**
[54] **APPAREIL DESTINE A LA SEPARATION CYCLONIQUE D'UN ECOULEMENT LIQUIDE DANS UNE PHASE GAZEUSE ET UNE PHASE LIQUIDE ET RESERVOIR POURVU D'UN TEL APPAREIL**
[72] SWANBORN, ROMBOUT ADRIAAN, NL
[73] SULZER CHEMTECH AG, CH
[85] 2015-01-16
[86] 2013-08-07 (PCT/NL2013/050584)
[87] (WO2014/025256)
[30] NL (2009299) 2012-08-08

---

[11] **2,880,140**
[13] C
[51] **Int.Cl. E04G 5/16 (2006.01) E04G 1/06 (2006.01) E04G 1/15 (2006.01) E04G 5/02 (2006.01) E04G 7/30 (2006.01) E04G 7/34 (2006.01)**
[25] EN
[54] **MODULAR PLATFORM**
[54] **PLATEFORME MODULAIRE**
[72] BAINES, GURDIP SINGH, GB
[73] THREE G METAL FABRICATIONS LIMITED, GB
[85] 2015-01-27
[86] 2012-10-15 (PCT/GB2012/052554)
[87] (WO2013/054143)
[30] GB (1117717.7) 2011-10-13
[30] GB (1200560.9) 2012-01-13
[30] GB (1216020.6) 2012-09-07

[11] **2,881,175**
[13] C
[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] EN
[54] **COMPOSITE PANE WITH ELECTRICALLY SWITCHABLE OPTICAL PROPERTIES**
[54] **VITRE FEUILLETEE DOTEE DE PROPRIETES OPTIQUES COMMUTABLES ELECTRIQUEMENT**
[72] MENNIG, JULIUS, DE
[72] PENNERS, FRANZ, DE
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2015-02-04
[86] 2013-06-28 (PCT/EP2013/063629)
[87] (WO2014/029536)
[30] EP (12181122.8) 2012-08-21

[11] **2,884,147**
[13] C
[51] **Int.Cl. H04W 28/02 (2009.01)**
[25] EN
[54] **TRAFFIC MANAGEMENT FOR BASE STATIONS BACKHAULED OVER DATA-CAPPED NETWORK CONNECTIONS**
[54] **GESTION DE TRAFIC POUR STATIONS DE BASE RACCORDEES PAR DES CONNEXIONS RESEAU PLAFONNEES EN DONNEES**
[72] RAY, SIDDARTH, US
[72] SRINIVASAN, MURARI, US
[72] MEDIN, MILO STEVEN, US
[73] GOOGLE LLC, US
[85] 2015-03-05
[86] 2013-07-01 (PCT/US2013/048886)
[87] (WO2014/039154)
[30] US (13/604,741) 2012-09-06

[11] **2,884,938**
[13] C
[51] **Int.Cl. A01K 61/00 (2017.01) A01K 63/00 (2017.01) A01K 63/04 (2006.01)**
[25] EN
[54] **DEVICE FOR A LAND-BASED AQUACULTURE FARM**
[54] **DISPOSITIF POUR FERME D'AQUACULTURE BASEE A TERRE**
[72] BREKKE, JAN ARNE, NO
[72] HESS-ERGA, OLE-KRISTIAN, NO
[73] SOGN AQUA AS, NO
[85] 2015-03-13
[86] 2012-10-30 (PCT/NO2012/050210)
[87] (WO2013/066188)
[30] NO (20111488) 2011-11-01

[11] **2,884,949**
[13] C
[51] **Int.Cl. G16H 20/10 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VERIFYING CORRELATION OF DIAGNOSIS AND MEDICATION AS PART OF QUALIFYING PROGRAM ELIGIBILITY VERIFICATION**
[54] **SYSTEMES ET METHODES DE VERIFICATION DE LA CORRELATION DE DIAGNOSTIC ET DE MEDICATION DANS LE CADRE D'UN PROGRAMME QUALIFIANT DE VERIFICATION D'ADMISSIBILITE**
[72] CROCKETT, KRISTINA, US
[73] MCKESSON CANADA CORPORATION, CA
[86] (2884949)
[87] (2884949)
[22] 2015-03-12
[30] US (14/206224) 2014-03-12

[11] **2,888,199**
[13] C
[51] **Int.Cl. A61K 8/42 (2006.01) A61K 8/22 (2006.01) A61K 8/81 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **STRIP FOR THE DELIVERY OF AN ORAL CARE ACTIVE AND METHODS FOR APPLYING ORAL CARE ACTIVES**
[54] **BANDELETTE SERVANT A L'ADMINISTRATION D'UN PRINCIPE ACTIF POUR SOINS D'HYGIENE BUCCALE ET METHODES D'UTILISATION DE PRINCIPES ACTIFS POUR SOINS D'HYGIENE BUCCALE**
[72] SAGEL, PAUL ALBERT, US
[72] ZHAO, JEAN JIANQUN, US
[72] NGUYEN, LAN NGOC, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2015-04-14
[86] 2013-10-17 (PCT/US2013/065365)
[87] (WO2014/062879)
[30] US (61/714,828) 2012-10-17

[11] **2,888,674**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 74/04 (2009.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR BATTERY ENERGY SAVINGS FOR CARRIER AGGREGATION**
[54] **PROCEDE ET SYSTEME D'ECONOMIES D'ENERGIE DE BATTERIE POUR AGREGATION DE PORTEUSES**
[72] WENG, JIANFENG, CA
[72] WANG, YIPING, US
[72] LI, JUN, US
[73] BLACKBERRY LIMITED, CA
[85] 2015-04-17
[86] 2012-11-01 (PCT/US2012/062982)
[87] (WO2014/070181)

[11] **2,891,835**
[13] C
[51] **Int.Cl. A63B 69/22 (2006.01)**
[25] EN
[54] **MULTI-FUNCTION STRIKING BAG AND MOUNT**
[54] **BALLON D'ENTRAINEMENT MULTIFONCTION ET FIXATION**
[72] KHUNKHUN, BOBBY I., CA
[73] KHUNKHUN, BOBBY I., CA
[86] (2891835)
[87] (2891835)
[22] 2015-05-15
[30] US (61/994,452) 2014-05-16

[11] **2,892,133**
[13] C
[51] **Int.Cl. F25D 21/02 (2006.01)**
[25] EN
[54] **ICE SENSOR FOR A HEAT PUMP**
[54] **CAPTEUR DE GLACE POUR POMPE A CHALEUR**
[72] USELTON, ROBERT B. "DUTCH", US
[72] DOUGLAS, JONATHAN, US
[73] LENNOX INDUSTRIES INC., US
[85] 2015-05-20
[86] 2013-11-25 (PCT/US2013/071741)
[87] (WO2014/085344)
[30] US (13/690,561) 2012-11-30

[11] **2,892,142**
[13] C
[51] **Int.Cl. F25B 47/02 (2006.01) F25B 13/00 (2006.01)**
[25] EN
[54] **SECONDARY DEFROST FOR HEAT PUMPS**
[54] **DEGIVRAGE SECONDAIRE POUR POMPES A CHALEUR**
[72] QU, YI, US
[72] PERKINS, BRUCE, US
[72] MCHUGH, CHRIS, US
[72] OLSEN, MARK, US
[73] LENNOX INDUSTRIES INC., US
[85] 2015-05-20
[86] 2013-11-26 (PCT/US2013/072072)
[87] (WO2014/085492)
[30] US (13/690,645) 2012-11-30

---

[11] **2,892,257**
[13] C
[51] **Int.Cl. H04W 36/14 (2009.01)**
[25] EN
[54] **ENCLOSURE AFFIXABLE TO OUTER SECTION OF VEHICLE TRANSMISSION**
[54] **ENCEINTE A JOINDRE A UNE SECTION EXTERIEURE D'UNE TRANSMISSION D'UN VEHICULE**
[72] COCHRANE, BRIAN J., CA
[73] COCHRANE, BRIAN J., CA
[86] (2892257)
[87] (2892257)
[22] 2015-05-25

---

[11] **2,893,672**
[13] C
[51] **Int.Cl. F16L 55/00 (2006.01)**
[25] EN
[54] **SMART PIPE CONCEPT BASED ON EMBEDDED TAGGANT-SENSOR AND/OR COLOR-ENCODED ELEMENTS TO MONITOR LINER WEAR IN LINED PIPELINES, INCLUDING URETHANE LINED PIPE**
[54] **CONCEPT DE TUYAU INTELLIGENT FAISANT APPEL A UN CAPTEUR A MARQUEUR ET/OU A DES ELEMENTS A CODE COULEUR INCRUSTES POUR SURVEILLER L'USURE D'UN REVETEMENT DANS DES CONDUITES REVETUES, NOTAMMENT DANS UN TUYAU REVETU D'URETHANE**
[72] KERSEY, ALAN D., US
[72] PUIG, MICHAEL, US
[72] DIDDEN, FRANCIS K., US
[72] ADAMSON, DOUGLAS H., US
[73] CIDRA CORPORATE SERVICES INC., US
[85] 2015-06-02
[86] 2014-01-09 (PCT/US2014/010888)
[87] (WO2014/110268)
[30] US (61/750,632) 2013-01-09
[30] US (61/873,958) 2013-09-05

---

[11] **2,893,692**
[13] C
[51] **Int.Cl. C12N 15/55 (2006.01) C12N 15/113 (2010.01) C12N 1/13 (2006.01) C12N 9/16 (2006.01) C12N 15/62 (2006.01) C12N 15/79 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **TETRASELMIS PROMOTERS AND TERMINATORS FOR USE IN EUKARYOTIC CELLS**
[54] **PROMOTEURS DE TETRASELMIS ET TERMINATEURS DESTINES A ETRE UTILISES DANS DES CELLULES EUCARYOTES**
[72] SCHNEIDER, JANE C., US
[72] LIEBERMAN, SOYAN, US
[72] LIU, BO, US
[72] MOELLERING, ERIC R., US
[72] VERRUTO, JOHN H., US
[72] EDWARDS, AMANDA, US
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2015-06-03
[86] 2012-12-04 (PCT/US2012/067788)
[87] (WO2014/088560)
[30] US (13/693,585) 2012-12-04

---

[11] **2,894,287**
[13] C
[51] **Int.Cl. C05F 3/04 (2006.01) C05D 9/00 (2006.01) C05G 1/00 (2006.01) C05G 3/00 (2006.01) C09K 17/40 (2006.01) C05F 11/02 (2006.01)**
[25] EN
[54] **SULPHUR-BASED FERTILIZER COMPOSITION WITH HUMIC ACID CONTENT**
[54] **COMPOSITION DE FERTILISANT A BASE DE SOUFRE AYANT UNE TENEUR EN ACIDE HUMIQUE**
[72] CHERRY, DON T., US
[72] HAUN, GUY WESLEY, US
[72] AZZARELLO, STEVEN, US
[72] VALAGENE, RICHARD, US
[73] TIGER-SUL (CANADA) CO., CA
[86] (2894287)
[87] (2894287)
[22] 2015-06-12
[30] US (62/113,139) 2015-02-06

---

[11] **2,894,711**
[13] C
[51] **Int.Cl. B65D 21/032 (2006.01) B29C 41/04 (2006.01) B65D 43/02 (2006.01)**
[25] EN
[54] **CONTAINMENT SYSTEMS AND METHODS OF MAKING AND USING SAME**
[54] **SYSTEMES DE CONFINEMENT ET PROCEDES DE FABRICATION ET D'UTILISATION CORRESPONDANTES**
[72] STANEK, LAWRENCE, US
[72] DRAGON, SCOTT, US
[72] HEINTZ, ROBERT, US
[72] JANDA, SCOTT, US
[72] REED, TIM, US
[72] WILEY, JAY, US
[73] ENPAC, L.L.C., US
[85] 2015-06-10
[86] 2014-01-22 (PCT/US2014/012607)
[87] (WO2014/116746)
[30] US (61/756,810) 2013-01-25

[11] **2,897,765**
[13] C
[51] **Int.Cl. A01B 45/02 (2006.01)**
[25] EN
[54] **MOBILE SOIL-WORKING DEVICE WITH PROTECTIVE MEANS**
[54] **DISPOSITIF MOBILE DE TRAVAIL DU SOL, COMPORTANT UN ORGANE DE PROTECTION**
[72] DE BREE, CORNELIUS HERMANUS MARIA, NL
[73] REDEXIM HANDEL-EN EXPLOITATIE MAATSCHAPPIJ B.V., NL
[85] 2015-07-09
[86] 2014-01-15 (PCT/EP2014/050683)
[87] (WO2014/111414)
[30] EP (13151318.6) 2013-01-15

[11] **2,898,552**
[13] C
[51] **Int.Cl. E05B 29/00 (2006.01)**
[25] EN
[54] **CLUTCH DRIVING MODULE OF A LOCK**
[54] **MODULE D'ENTRAINEMENT D'EMBRAYAGE D'UN VERROU**
[72] HUANG, CHAO-MING, TW
[72] LEE, WEN-CHIEH, TW
[73] TAIWAN FU HSING INDUSTRIAL CO., LTD., CN
[86] (2898552)
[87] (2898552)
[22] 2015-07-27
[30] TW (104116533) 2015-05-22

[11] **2,899,590**
[13] C
[51] **Int.Cl. B29C 64/379 (2017.01) B29C 64/10 (2017.01) B29C 64/30 (2017.01)**
[25] EN
[54] **AUTOMATED THREE-DIMENSIONAL PRINTER PART REMOVAL**
[54] **RETRAIT AUTOMATISE DE PIECE D'IMPRESSION TRIDIMENSIONNELLE**
[72] PEREZ, ALFONSO ALEXANDER, US
[72] HAID, CHRISTOPHER MICHAEL, US
[72] PIEPER, FORREST W., US
[72] PENA DOLL, MATEO, US
[73] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2015-07-28
[86] 2014-01-31 (PCT/US2014/014078)
[87] (WO2014/121032)
[30] US (61/759,686) 2013-02-01
[30] US (14/157,027) 2014-01-16

[11] **2,899,845**
[13] C
[51] **Int.Cl. A61B 1/267 (2006.01) A61M 16/04 (2006.01)**
[25] EN
[54] **LARYNGEAL VIDEO MASK WITH RIGID RETRACTABLE TONGUE AND MEANS FOR VENTILATION AND INTUBATION**
[54] **MASQUE LARYNGE POUR VIDEO COMPORTANT UNE LANGUETTE RIGIDE RETRACTABLE ET MOYENS DE VENTILATION ET D'INTUBATION**
[72] SAGALES MANAS, JUAN, ES
[72] ROCA DE VINALS DELGADO, ALEJANDRO, ES
[72] CALAF ALCALDE, ALBERTO, ES
[73] MEDCOM FLOW, S.A., ES
[85] 2015-07-30
[86] 2013-03-06 (PCT/ES2013/070138)
[87] (WO2014/135715)

[11] **2,902,329**
[13] C
[51] **Int.Cl. H02K 9/02 (2006.01) H02K 9/22 (2006.01)**
[25] EN
[54] **RADIAL VENT COMPOSITE HEAT PIPE**
[54] **CALODUC COMPOSITE A ORIFICE DE PURGE RADIAL**
[72] HODOWANEC, MARK, US
[72] HASSETT, TIMOTHY J., US
[73] HPEV, INC., US
[85] 2015-08-24
[86] 2014-02-25 (PCT/US2014/018246)
[87] (WO2014/130999)
[30] US (61/768,680) 2013-02-25

[11] **2,902,805**
[13] C
[51] **Int.Cl. A41C 3/00 (2006.01) A41F 9/00 (2006.01)**
[25] EN
[54] **UPPER AND LOWER TORSO GARMENTS HAVING AN IMPROVED BAND**
[54] **VETEMENTS POUR LE TORSE SUPERIEUR ET INFERIEUR DOTES D'UNE BANDE AMELIOREE**
[72] ABBOTT, MICHAEL D., US
[72] WARREN, ROGER D., US
[73] HBI BRANDED APPAREL ENTERPRISES, LLC, US
[85] 2015-08-27
[86] 2014-02-26 (PCT/US2014/018566)
[87] (WO2014/134121)
[30] US (13/782,736) 2013-03-01

[11] **2,907,408**
[13] C
[51] **Int.Cl. B65B 5/06 (2006.01) B65B 5/00 (2006.01)**
[25] FR
[54] **CONTAINER-FILLING SYSTEM ENABLING SEVERAL PACKING CONFIGURATIONS**
[54] **SYSTEME DE REMPLISSAGE D'UN RECIPIENT PERMETTANT PLUSIEURS CONFIGURATIONS D'EMPAQUETAGE**
[72] THERIAULT, DOMINIC, CA
[73] CONCEPTION IMPACK DTCI INC., CA
[86] (2907408)
[87] (2907408)
[22] 2015-10-09
[30] CA (2,885,365) 2015-03-18

[11] **2,907,785**
[13] C
[51] **Int.Cl. A47J 37/07 (2006.01)**
[25] EN
[54] **A DISPOSABLE GRILL**
[54] **GRIL JETABLE**
[72] BROGGER, CARSTEN NYGAARD, DK
[73] NOVO FUTURA IVS, DK
[85] 2015-09-22
[86] 2013-03-22 (PCT/DK2013/050081)
[87] (WO2014/146661)

---

[11] **2,910,046**
[13] C
[51] **Int.Cl. A61J 1/14 (2006.01)**
[25] EN
[54] **STORAGE OR INFUSION BOTTLE**
[54] **BOUTEILLE DE PERFUSION OU DE STOCKAGE**
[72] BECKER, BERND, DE
[73] KOCHER-PLASTIK MASCHINENBAU GMBH, DE
[85] 2015-10-16
[86] 2013-04-18 (PCT/EP2013/001149)
[87] (WO2014/169929)

---

[11] **2,910,158**
[13] C
[51] **Int.Cl. H04L 12/58 (2006.01) H04W 4/12 (2009.01) H04W 4/021 (2018.01) H04L 12/16 (2006.01) G06K 9/62 (2006.01)**
[25] EN
[54] **PRIORITIZATION OF MESSAGES**
[54] **PRIORISATION DE MESSAGES**
[72] SEHN, TIMOTHY MICHAEL, US
[73] SNAPCHAT, INC., US
[86] (2910158)
[87] (2910158)
[22] 2015-10-23
[30] US (14/523,728) 2014-10-24

---

[11] **2,911,997**
[13] C
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 15/113 (2010.01) A01N 63/02 (2006.01) A01P 7/04 (2006.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE SUPPRESSION OF TARGET POLYNUCLEOTIDES FROM LEPIDOPTERA**
[54] **COMPOSITIONS ET PROCEDES POUR SUPPRIMER DES POLYNUCLEOTIDES CIBLES D'UN LEPIDOPTERE**
[72] HERRMANN, RAFAEL, US
[72] LASSNER, MICHAEL, US
[72] LU, ALBERT L., US
[72] NELSON, MARK, US
[72] PRESNAIL, JAMES K., US
[72] RICE, JANET A., US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
[86] (2911997)
[87] (2911997)
[22] 2009-01-15
[62] 2,708,278
[30] US (61/021,676) 2008-01-17
[30] US (61/021,699) 2008-01-17
[30] US (12/351,267) 2009-01-09

---

[11] **2,912,937**
[13] C
[51] **Int.Cl. E21B 25/02 (2006.01) E21B 10/02 (2006.01)**
[25] EN
[54] **A HEAD ASSEMBLY AND A VALVE SYSTEM FOR USE IN A CORE DRILLING SYSTEM**
[54] **ENSEMBLE TETE ET SYSTEME DE VALVE A UTILISER DANS UN SYSTEME DE CAROTTAGE**
[72] ATTIWELL, PAUL, AU
[73] SWICK MINING SERVICES LTD, AU
[85] 2015-11-19
[86] 2014-05-30 (PCT/AU2014/000569)
[87] (WO2014/194353)
[30] AU (2013902051) 2013-06-06

---

[11] **2,913,111**
[13] C
[51] **Int.Cl. B21D 24/00 (2006.01) H01M 8/0206 (2016.01) B21D 22/20 (2006.01) B21D 53/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR MOLDING METAL SEPARATOR**
[54] **DISPOSITIF DE MISE EN FORME POUR SEPARATEUR METALLIQUE ET SON PROCEDE DE MISE EN FORME**
[72] TAGUCHI, NAOTO, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2015-11-20
[86] 2014-04-03 (PCT/JP2014/059898)
[87] (WO2014/188800)
[30] JP (2013-108064) 2013-05-22

---

[11] **2,914,150**
[13] C
[51] **Int.Cl. B64D 13/00 (2006.01) B01D 53/54 (2006.01) B64D 13/08 (2006.01)**
[25] EN
[54] **AIRCRAFT AIR SUPPLY SYSTEM FOR REDUCING AN EFFECTIVE ALTITUDE EXPERIENCED AT A SELECTED LOCATION**
[54] **SYSTEME D'APPROVISIONNEMENT D'AIR D'AERONEF SERVANT A REDUIRE UNE ALTITUDE REELLE VECUE DANS UN EMPLACEMENT SELECTIONNE**
[72] ARMATORIO, ANDREW L., US
[72] LOFTIS, RICHARD J., US
[72] HART, COLIN W., US
[72] THOMAS, LISA C., US
[72] PRICE, KEVIN R., US
[73] THE BOEING COMPANY, US
[86] (2914150)
[87] (2914150)
[22] 2015-12-04
[30] US (14/620,422) 2015-02-12

[11] **2,914,732**
[13] C
[51] **Int.Cl. A61L 27/00 (2006.01) G01N 33/543 (2006.01) G01N 33/551 (2006.01)**
[25] EN
[54] **IMMOBILIZATION OF AN ACTIVE AGENT ON A SUBSTRATE USING COMPOUNDS INCLUDING TRIHYDROXYPHENYL GROUPS**
[54] **IMMOBILISATION D'UN AGENT ACTIF SUR UN SUBSTRAT AU MOYEN DE COMPOSES CONTENANT DES GROUPES TRIHYDROXYPHENYLE**
[72] HAI, TON THAT, US
[72] GREEN, JOHN-BRUCE DEVAULT, US
[72] FULGHUM, TIMOTHY MICHAEL, US
[72] MESSERSMITH, PHILLIP BYRON, US
[72] SILEIKA, TADAS STANISLOVAS, US
[73] BAXTER INTERNATIONAL INC., US
[73] BAXTER HEALTHCARE SA, CH
[73] NORTHWESTERN UNIVERSITY, US
[85] 2015-12-04
[86] 2014-06-06 (PCT/US2014/041240)
[87] (WO2014/197768)
[30] US (61/832,488) 2013-06-07
[30] US (61/832,477) 2013-06-07

[11] **2,916,434**
[13] C
[51] **Int.Cl. E21B 7/02 (2006.01)**
[25] EN
[54] **ARRANGEMENT FOR CONTROLLING AUTOMATED OPERATION MODE**
[54] **AGENCEMENT DE COMMANDE DE MODE DE FONCTIONNEMENT AUTOMATISE**
[72] UOTILA, JARKKO, FI
[72] NURMINEN, PETRI, FI
[72] TALASNIEMI, JARI, FI
[73] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2015-12-21
[86] 2014-03-28 (PCT/EP2014/056294)
[87] (WO2014/206587)
[30] EP (PCT/EP2013/063493) 2013-06-27

[11] **2,919,503**
[13] C
[51] **Int.Cl. C12N 15/85 (2006.01)**
[25] EN
[54] **MINIMAL PIGGYBAC VECTORS FOR GENOME INTEGRATION**
[54] **VECTEURS PIGGYBAC MINIMAUX POUR INTEGRATION GENOMIQUE**
[72] SOLODUSHKO, VICTOR, US
[72] FOUTY, BRIAN, US
[72] BITKO, VIRA, US
[73] UNIVERSITY OF SOUTH ALABAMA, US
[85] 2016-01-12
[86] 2014-07-11 (PCT/US2014/046366)
[87] (WO2015/006700)
[30] US (61/845,652) 2013-07-12

[11] **2,919,665**
[13] C
[51] **Int.Cl. E21B 23/00 (2006.01) E21B 19/22 (2006.01)**
[25] EN
[54] **INTERNAL TRACTOR SYSTEM FOR DOWNHOLE TUBULAR BODY**
[54] **MECANISME DE TRACTEUR INTERNE DESTINE A UN CORPS TUBULAIRE DE FOND DE TROU**
[72] RANDALL, BRUCE L., US
[73] COILED TUBING SPECIALTIES, LLC, US
[86] (2919665)
[87] (2919665)
[22] 2016-02-02
[30] US (62/198,575) 2015-07-29
[30] US (62/120,212) 2015-02-24
[30] US (15/009,479) 2016-01-28

[11] **2,921,599**
[13] C
[51] **Int.Cl. B02C 2/00 (2006.01)**
[25] EN
[54] **REPLACEMENT CONE CRUSHER WEAR LINERS**
[54] **REVEMENTS D'USURE DE RECHANGE DESTINES A UN BROYEUR CONIQUE**
[72] LOKE, YOON CHEE, MY
[72] CHOY, TOONG SENG, MY
[72] LEONG, CHEN SEONG, MY
[73] YOONSTEEL (M) SDN. BHD., MY
[86] (2921599)
[87] (2921599)
[22] 2016-02-23
[30] MY (PI 2015701018) 2015-03-30

[11] **2,921,695**
[13] C
[51] **Int.Cl. B23K 9/09 (2006.01) B23K 9/095 (2006.01) B23K 9/10 (2006.01) B23K 9/12 (2006.01) B23K 9/173 (2006.01)**
[25] EN
[54] **EXTRACTION OF ARC LENGTH FROM VOLTAGE AND CURRENT FEEDBACK**
[54] **EXTRACTION DE LONGUEUR D'ARC D'UNE TENSION ET RETROACTION DE COURANT**
[72] HUTCHISON, RICHARD MARTIN, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2016-02-17
[86] 2014-07-09 (PCT/US2014/045872)
[87] (WO2015/065542)
[30] US (14/067,432) 2013-10-30

[11] **2,923,715**
[13] C
[51] **Int.Cl. A43B 13/14 (2006.01)**
[25] EN
[54] **SOLE ASSEMBLY FOR ARTICLE OF FOOTWEAR**
[54] **ASSEMBLAGE DE SEMELLE DESTINE A UN ARTICLE DE CHAUSSURE**
[72] HUARD, ROGER L., US
[72] DE LA CRUZ-WILLIAMS, MYRA G., US
[72] COBB, IAN M., US
[72] LEBO, YAHN C., US
[72] DOWD, RYAN C., US
[73] WOLVERINE OUTDOORS, INC., US
[86] (2923715)
[87] (2923715)
[22] 2016-03-14
[30] US (14/857,199) 2015-09-17

[11] **2,924,942**
[13] C
[51] **Int.Cl. E21B 34/14 (2006.01) E21B 34/12 (2006.01)**
[25] EN
[54] **DOWNHOLE ISOLATION VALVE**
[54] **VANNE D'ISOLATION DE FOND DE TROU**
[72] GRAYSON, MICHAEL BRIAN, US
[72] TORALDE, JULMAR SHAUN SADICON, US
[72] NOSKE, JOE, US
[72] MCDOWELL, CHRISTOPHER L., US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[86] (2924942)
[87] (2924942)
[22] 2016-03-24
[30] US (62/137,565) 2015-03-24

---

[11] **2,926,400**
[13] C
[51] **Int.Cl. G06T 17/05 (2011.01)**
[25] EN
[54] **GLOBAL GRID BUILDING UNFAULTING SEQUENCE FOR COMPLEX FAULT-NETWORK TOPOLOGIES**
[54] **SEQUENCE D'ELIMINATION DE FAILLES DANS LA CONSTRUCTION DE MAILLAGE GLOBAL POUR TOPOLOGIES COMPLEXES DE RESEAUX DE FAILLES**
[72] XU, ZITAO, US
[72] SHI, GENBAO, US
[72] CHIEN, CHIKANG DAVID, US
[72] YARUS, JEFFREY, US
[72] CHAMBERS, RICHARD L., US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2016-04-04
[86] 2013-11-26 (PCT/US2013/071933)
[87] (WO2015/080699)

---

[11] **2,927,406**
[13] C
[51] **Int.Cl. D21H 21/12 (2006.01)**
[25] EN
[54] **ANTIFOAMING AGENTS FOR THE PAPER INDUSTRY, BASED ON OIL IN WATER EMULSIONS**
[54] **AGENTS ANTIMOUSSE A BASE D'EMULSIONS HUILE DANS EAU POUR L'INDUSTRIE PAPETIERE**
[72] KERN, HOLGER, DE
[72] HAMERS, CHRISTOPH, DE
[72] MOLLER, KLAUS, DE
[72] ALBRECHT, UWE, DE
[73] SOLENIS TECHNOLOGIES CAYMAN, L.P., KY
[85] 2016-04-13
[86] 2014-11-17 (PCT/IB2014/066095)
[87] (WO2015/075618)
[30] EP (13193418.4) 2013-11-19

---

[11] **2,928,155**
[13] C
[51] **Int.Cl. A24F 47/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR HEATING SMOKABLE MATERIAL**
[54] **APPAREIL PERMETTANT DE CHAUFFER UNE MATIERE POUVANT ETRE FUMEE**
[72] PAPROCKI, BENJAMIN JOHN, US
[72] WILKE, ANDREW PAUL, US
[72] ROBEY, RAYMOND JOHN, US
[72] ROBINSON, JESSE EUGENE, US
[72] TIAN, FENG, US
[73] BRITISH AMERICAN TOBACCO (INVESTMENTS) LIMITED, GB
[85] 2016-04-20
[86] 2014-10-24 (PCT/EP2014/072828)
[87] (WO2015/062983)
[30] US (61/897,193) 2013-10-29

---

[11] **2,929,004**
[13] C
[51] **Int.Cl. B65D 90/10 (2006.01) B61D 5/00 (2006.01) B61D 17/16 (2006.01)**
[25] EN
[54] **MANWAY GASKET COMPRESSION STOP**
[54] **DISPOSITIF D'ARRET DE COMPRESSION D'UN JOINT DE TROU D'HOMME**
[72] REILING, JASON, US
[72] MAK, JENNIFER, US
[72] SERRA, MICHAEL, US
[73] STRATO, INC., US
[86] (2929004)
[87] (2929004)
[22] 2016-05-04
[30] US (14/730,380) 2015-06-04

---

[11] **2,929,301**
[13] C
[51] **Int.Cl. E21B 47/092 (2012.01) E21B 7/04 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MAGNETIC RANGING AND GEOSTEERING**
[54] **PROCEDE ET SYSTEME POUR TELEMETRIE ET GEODIRECTION MAGNETIQUES**
[72] DONDERICI, BURKAY, US
[72] MOSS, CLINTON JAMES, US
[73] HALLIBURTON ENERGY SERVICES INC., US
[85] 2016-04-29
[86] 2013-12-23 (PCT/US2013/077571)
[87] (WO2015/099673)

---

[11] **2,930,054**
[13] C
[51] **Int.Cl. E21B 12/02 (2006.01) E21B 47/024 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CASING THICKNESS ESTIMATION**
[54] **PROCEDE ET APPAREIL POUR L'ESTIMATION DE L'EPAISSEUR D'UN TUBAGE**
[72] SAMUEL, ROBELLO, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2016-05-06
[86] 2014-01-02 (PCT/US2014/010041)
[87] (WO2015/102633)

[11] **2,930,237**
[13] C
[51] **Int.Cl. E21B 43/18 (2006.01) E21B 43/12 (2006.01) E21B 43/20 (2006.01)**
[25] EN
[54] **OPTIMIZING FLOW CONTROL DEVICE PROPERTIES ON BOTH PRODUCER AND INJECTOR WELLS IN COUPLED INJECTOR-PRODUCER LIQUID FLOODING SYSTEMS**
[54] **OPTIMISATION DES PROPRIETES D'UN DISPOSITIF DE CONTROLE D'ECOULEMENT A LA FOIS SUR DES PUITS DE PRODUCTION ET DES PUITS D'INJECTION DANS DES SYSTEMES D'INJECTION DE LIQUIDE INJECTEUR-PRODUCTEUR COUPLES**
[72] FILIPPOV, ANDREY, US
[72] KHORIAKOV, VITALY, CA
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2016-05-10
[86] 2013-11-15 (PCT/US2013/070406)
[87] (WO2015/073034)

[11] **2,930,844**
[13] C
[51] **Int.Cl. A47J 31/42 (2006.01) A47J 42/50 (2006.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR BREWING A BEVERAGE**
[54] **APPAREILS, SYSTEMES ET PROCEDES DE PREPARATION D'UNE BOISSON**
[72] JOHNSON, JOHN ANDREW, US
[72] FRANKOVICH, STEVE, US
[72] KLECKER, GLENN, US
[72] HULETT, RANDY, US
[72] DOUCETTE, DAVID, US
[72] APONE, DAN, US
[72] KOLLER, IZAAK, US
[72] JURIS, AMANDA, US
[72] ALLISON, JEFF, US
[72] SHAY, BRIAN, US
[72] HORTH, ROLAND, US
[72] HANCOCK, STEPHEN HOYT, US
[72] SINGER, MARC, US
[73] STARBUCKS CORPORATION D/B/A STARBUCKS COFFEE COMPANY, US
[85] 2016-05-16
[86] 2014-11-19 (PCT/US2014/066455)
[87] (WO2015/077367)
[30] US (61/906,872) 2013-11-20
[30] US (61/906,871) 2013-11-20
[30] US (PCT/US2014/066174) 2014-11-18

[11] **2,930,938**
[13] C
[51] **Int.Cl. A61B 17/72 (2006.01) A61B 50/30 (2016.01) A61B 17/88 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR AN INTRAMEDULLARY IMPLANT AND METHOD OF IMPLANTATION THEREFOR**
[54] **PROCEDE ET APPAREIL ASSOCIES A UN IMPLANT INTRAMEDULLAIRE ET PROCEDE D'IMPLANTATION DE CELUI-CI**
[72] CHENEY, DANIEL F., US
[72] PANCRATZ, DAVID J., US
[73] BIOMEDICAL ENTERPRISES, INC., US
[85] 2016-05-17
[86] 2014-11-17 (PCT/US2014/065893)
[87] (WO2015/073942)
[30] US (61/962,914) 2013-11-18
[30] US (61/998,037) 2014-06-16
[30] US (14/487,315) 2014-09-16

[11] **2,931,649**
[13] C
[51] **Int.Cl. H04L 27/34 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MODULATION AND CODING SCHEME SELECTION AND CONFIGURATION**
[54] **SYSTEMES ET PROCEDES DE SELECTION ET DE CONFIGURATION DE SCHEMAS DE MODULATION ET DE CODAGE**
[72] DAVYDOV, ALEXEI, RU
[72] KWON, HWAN-JOON, US
[72] HAN, SEUNGHEE, US
[72] MOROZOV, GREGORY V., RU
[73] INTEL IP CORPORATION, US
[73] INTEL CORPORATION, US
[85] 2016-05-25
[86] 2015-01-06 (PCT/US2015/010271)
[87] (WO2015/103588)
[30] US (61/924,194) 2014-01-06
[30] US (61/943,973) 2014-02-24
[30] US (61/990,628) 2014-05-08
[30] US (14/496,970) 2014-09-25

[11] **2,931,711**
[13] C
[51] **Int.Cl. B29C 65/16 (2006.01) G01N 33/48 (2006.01) B01L 3/00 (2006.01) B81C 3/00 (2006.01)**
[25] EN
[54] **A METHOD FOR LASER WELDING A DISPOSABLE TEST-UNIT**
[54] **PROCEDE DE SOUDAGE LASER D'UN APPAREIL DE TEST JETABLE**
[72] BABIC, BRANISLAV, DE
[72] HORN, CARINA, DE
[73] F.HOFFMANN-LA ROCHE AG, CH
[85] 2016-05-26
[86] 2014-11-24 (PCT/EP2014/075429)
[87] (WO2015/078821)
[30] EP (13194706.1) 2013-11-27

[11] **2,931,741**
[13] C
[51] **Int.Cl. G06K 9/00 (2006.01) G06T 1/20 (2006.01)**
[25] EN
[54] **ANALYSIS OF A MULTISPECTRAL IMAGE**
[54] **ANALYSE D'UNE IMAGE MULTISPECTRALE**
[72] BOUSQUET, MARC, FR
[72] THIEBAUT, MAXIME, FR
[72] ROUX, NICOLAS, FR
[72] FOUBERT, PHILIPPE, FR
[72] TOUATI, THIERRY, FR
[73] SAGEM DEFENSE SECURITE, FR
[85] 2016-05-26
[86] 2014-11-26 (PCT/EP2014/075706)
[87] (WO2015/078927)
[30] FR (1361735) 2013-11-28

---

[11] **2,931,845**
[13] C
[51] **Int.Cl. G06K 9/00 (2006.01) G06T 1/20 (2006.01)**
[25] EN
[54] **ANALYSIS OF A MULTISPECTRAL IMAGE**
[54] **ANALYSE D'UNE IMAGE MULTISPECTRALE**
[72] BOUSQUET, MARC, FR
[72] THIEBAUT, MAXIME, FR
[72] ROUX, NICOLAS, FR
[72] FOUBERT, PHILIPPE, FR
[72] TOUATI, THIERRY, FR
[73] SAGEM DEFENSE SECURITE, FR
[85] 2016-05-26
[86] 2014-11-26 (PCT/EP2014/075714)
[87] (WO2015/078934)
[30] FR (1361739) 2013-11-28

---

[11] **2,932,743**
[13] C
[51] **Int.Cl. A61B 5/151 (2006.01) A61B 5/157 (2006.01)**
[25] EN
[54] **LANCETS FOR BODILY FLUID SAMPLING SUPPLIED ON A TAPE**
[54] **LANCETTES POUR L'ECHANTILLONNAGE DE LIQUIDE BIOLOGIQUE DISPOSEES SUR UNE BANDE**
[72] RANEY, CHARLES C., US
[72] LIST, HANS, DE
[72] ROE, STEVEN N., US
[73] F. HOFFMANN-LA ROCHE AG, CH
[86] (2932743)
[87] (2932743)
[22] 2005-04-27
[62] 2,696,219
[30] US (10/836,578) 2004-04-30
[30] US (11/105,686) 2005-04-14

---

[11] **2,933,039**
[13] C
[51] **Int.Cl. C23C 28/00 (2006.01) B21D 22/20 (2006.01) C21D 1/18 (2006.01) C21D 9/00 (2006.01) C23C 22/07 (2006.01) C25D 13/00 (2006.01) C25D 13/20 (2006.01) C22C 21/02 (2006.01) C22C 38/00 (2006.01) C22C 38/14 (2006.01)**
[25] EN
[54] **AUTOMOBILE PART AND METHOD FOR MANUFACTURING AUTOMOBILE PART**
[54] **PIECE D'AUTOMOBILE ET PROCEDE DE FABRICATION DE PIECE D'AUTOMOBILE**
[72] MAKI, JUN, JP
[72] YAMANAKA, SHINTARO, JP
[72] IRIKAWA, HIDEAKI, JP
[73] NIPPON STEEL & SUMITOMO METAL CORPORATION, JP
[85] 2016-06-07
[86] 2014-12-17 (PCT/JP2014/083420)
[87] (WO2015/098653)
[30] JP (2013-267794) 2013-12-25

---

[11] **2,934,390**
[13] C
[51] **Int.Cl. B60N 2/70 (2006.01) A47C 27/14 (2006.01)**
[25] EN
[54] **FOAM PART, IN PARTICULAR FOR A VEHICLE SEAT, AND VEHICLE SEAT**
[54] **PIECE EN MOUSSE, EN PARTICULIER POUR UN SIEGE DE VEHICULE ET SIEGE DE VEHICULE**
[72] HUGUES, LAURENT, FR
[73] JOHNSON CONTROLS GMBH, DE
[85] 2016-06-17
[86] 2014-12-15 (PCT/EP2014/077742)
[87] (WO2015/091348)
[30] DE (10 2013 226 865.3) 2013-12-20
[30] DE (10 2013 226 862.9) 2013-12-20
[30] DE (10 2014 209 845.9) 2014-05-23

---

[11] **2,934,510**
[13] C
[51] **Int.Cl. A61F 5/453 (2006.01)**
[25] EN
[54] **EFFICIENTLY PACKAGED READY TO USE INTERMITTENT URINARY CATHETER**
[54] **CATHETER URINAIRE INTERMITTENT PRET A L'EMPLOI EMBALLE EFFICACEMENT**
[72] PALMER, TIMOTHY, US
[73] CURE MEDICAL, LLC, US
[86] (2934510)
[87] (2934510)
[22] 2016-06-29
[30] US (15/130,337) 2016-04-15

---

[11] **2,934,929**
[13] C
[51] **Int.Cl. B05D 5/06 (2006.01) B05D 1/36 (2006.01) B32B 27/20 (2006.01)**
[25] EN
[54] **METHOD OF FORMING MULTILAYER COATING FILM**
[54] **PROCEDE DE FORMATION D'UNE PELLICULE DE REVETEMENT MULTICOUCHE**
[72] FUJIWARA, SHINICHI, JP
[73] NIPPON PAINT AUTOMOTIVE COATINGS CO., LTD., JP
[85] 2016-06-22
[86] 2014-12-26 (PCT/JP2014/084612)
[87] (WO2015/099151)
[30] JP (2013-273600) 2013-12-27

[11] **2,938,089**
[13] C
[51] **Int.Cl. C22C 14/00 (2006.01) C22F 1/18 (2006.01)**
[25] EN
[54] **TITANIUM ALLOYS EXHIBITING RESISTANCE TO IMPACT OR SHOCK LOADING AND METHOD OF MAKING A PART THEREFROM**
[54] **ALLIAGES DE TITANE PRESENTANT UNE RESISTANCE A UNE CHARGE D'IMPACT OU DYNAMIQUE ET PROCEDE DE FABRICATION D'UNE PARTIE DE CES DERNIERS**
[72] THOMAS, ROGER, GB
[72] KOSAKA, YOJI, US
[72] JAMES, STEVEN, US
[72] GARRATT, PAUL, GB
[73] TITANIUM METALS CORPORATION, US
[85] 2016-07-27
[86] 2015-01-27 (PCT/US2015/013022)
[87] (WO2015/116567)
[30] US (61/932,410) 2014-01-28

[11] **2,938,309**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 68/00 (2009.01) H04W 88/02 (2009.01) H04W 88/08 (2009.01)**
[25] EN
[54] **RESOURCE ALLOCATION TECHNIQUES FOR DEVICE-TO-DEVICE (D2D) COMMUNICATIONS**
[54] **TECHNIQUES D'ALLOCATION DE RESSOURCES POUR DES COMMUNICATIONS DE DISPOSITIF A DISPOSITIF (D2D)**
[72] PANTELEEV, SERGEY, RU
[72] KHORYAEV, ALEXEY, RU
[72] CHATTERJEE, DEBDEEP, US
[73] INTEL CORPORATION, US
[85] 2016-07-29
[86] 2015-03-18 (PCT/US2015/021169)
[87] (WO2015/142994)
[30] US (61/968,286) 2014-03-20
[30] US (14/583,650) 2014-12-27

[11] **2,938,521**
[13] C
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 4/02 (2006.01) E21B 44/06 (2006.01)**
[25] EN
[54] **CONTROLLING A BOTTOM-HOLE ASSEMBLY IN A WELLBORE**
[54] **COMMANDE D'UN ENSEMBLE FOND DE PUITS DANS UN PUITS DE FORAGE**
[72] DYKSTRA, JASON D., US
[72] XUE, YUZHEN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2016-08-02
[86] 2014-03-11 (PCT/US2014/023645)
[87] (WO2015/137931)

[11] **2,939,878**
[13] C
[51] **Int.Cl. C09D 7/40 (2018.01) B05D 7/14 (2006.01) C09D 5/08 (2006.01) C09D 175/04 (2006.01) C23C 22/83 (2006.01)**
[25] EN
[54] **AMINO ALCOHOL TREATMENT FOR SOL-GEL CONVERSION COATINGS, SUBSTRATES INCLUDING THE SAME, AND METHODS OF MAKING THE SUBSTRATES**
[54] **TRAITEMENT PAR AMINOALCOOL POUR DES REVETEMENTS DE CONVERSION SOL-GEL, SUBSTRATS LES COMPRENANT, ET PROCEDES DE FABRICATION DES SUBSTRATS**
[72] KEIL, CHARLES, US
[72] ALBERS, RICHARD, US
[73] PRC-DESOTO INTERNATIONAL, INC., US
[85] 2016-08-10
[86] 2015-02-13 (PCT/US2015/015816)
[87] (WO2015/123520)
[30] US (14/180,918) 2014-02-14

[11] **2,941,451**
[13] C
[51] **Int.Cl. F02P 3/09 (2006.01) F02C 7/266 (2006.01) F02P 3/08 (2006.01) F02P 9/00 (2006.01) F02P 15/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS OF CHARGING AN ENGINE IGNITION SYSTEM**
[54] **PROCEDE ET APPAREIL DE CHARGE D'UN SYSTEME D'ALLUMAGE DE MOTEUR**
[72] WRIGHT, SCOTT BRIAN, US
[73] UNISON INDUSTRIES, LLC, US
[85] 2016-09-01
[86] 2015-02-23 (PCT/US2015/017021)
[87] (WO2015/138107)
[30] US (14/205,457) 2014-03-12

[11] **2,941,710**
[13] C
[51] **Int.Cl. H01M 8/04 (2016.01) F16K 51/00 (2006.01) F16T 1/00 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **FLUID CONTROL VALVE**
[54] **VANNE DE REGULATION DE FLUIDE**
[72] USAMI, TAKATADA, JP
[72] TAKEDA, TSUYOSHI, JP
[72] OKAWARA, ICHIRO, JP
[73] KABUSHIKI KAISHA SAGINOMIYA SEISAKUSHO, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2016-09-06
[86] 2015-01-26 (PCT/JP2015/052023)
[87] (WO2015/133200)
[30] JP (2014-045174) 2014-03-07

[11] **2,941,936**
[13] C
[51] **Int.Cl. E05D 13/00 (2006.01)**
[25] EN
[54] **SIDE-LOAD HUNG WINDOW ASSEMBLY WITH SASH GUIDES**
[54] **ASSEMBLAGE DE FENETRE A GUILLOTINE A CHARGE LATERAL AU MOYEN DE GUIDES DE CHASSIS**
[72] DENORMAND, RICHARD S., US
[73] CALDWELL MANUFACTURING COMPANY NORTH AMERICA, LLC, US
[86] (2941936)
[87] (2941936)
[22] 2016-09-14
[30] US (62/218,201) 2015-09-14
[30] US (15/263,696) 2016-09-13

[11] **2,942,212**
[13] C
[51] **Int.Cl. B64D 27/02 (2006.01) E21B 43/295 (2006.01)**
[25] EN
[54] **AFT ENGINE FOR AN AIRCRAFT**
[54] **MOTEUR ARRIERE D'UN AERONEF**
[72] MARRINAN, PATRICK MICHAEL, US
[72] MURROW, KURT DAVID, US
[72] BECKER, THOMAS LEE, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2942212)
[87] (2942212)
[22] 2016-09-19
[30] US (14/859,523) 2015-09-21

---

[11] **2,942,572**
[13] C
[51] **Int.Cl. A61F 2/00 (2006.01) A61F 2/95 (2013.01) A61F 2/966 (2013.01) A61M 25/01 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A DEPLOYMENT HANDLE OF A MEDICAL DEVICE DEPLOYMENT SYSTEM**
[54] **PROCEDE DE FABRICATION D'UN MANCHE DE DEPLOIEMENT D'UN SYSTEME DE DEPLOIEMENT DE DISPOSITIF MEDICAL**
[72] BEARD, MATTHEW S., US
[72] HERRIN, DAVID A., US
[72] KENNELLY ULLMAN, JOSEPH N., US
[72] SECTOR, MARTIN J., US
[72] SOKEL, JUSTIN W., US
[72] VAN CLEAVE, JARED L., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2016-09-12
[86] 2015-04-02 (PCT/US2015/024091)
[87] (WO2015/153887)
[30] US (61/975,183) 2014-04-04
[30] US (14/676,771) 2015-04-01

---

[11] **2,943,420**
[13] C
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/29 (2006.01) A61K 47/02 (2006.01) A61K 47/12 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING BISMUTH-CONTAINING LIQUID PHARMACEUTICAL SUSPENSIONS**
[54] **PROCEDE POUR LA PREPARATION DE SUSPENSIONS PHARMACEUTIQUES LIQUIDES CONTENANT DU BISMUTH**
[72] GILBERT, STEVEN RAY, US
[72] FITCH, EDWARD PAUL, V, US
[72] HO, DERRICK, US
[72] TUNIS, ADAM MICHAEL, US
[72] WHITE, DANIEL JEROME, JR., US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2016-09-20
[86] 2015-04-29 (PCT/US2015/028215)
[87] (WO2015/168241)
[30] US (61/985,653) 2014-04-29

---

[11] **2,943,473**
[13] C
[51] **Int.Cl. C09K 8/80 (2006.01) C09C 3/12 (2006.01) E21B 43/26 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING PARTICULATE SLURRIES AND PARTICULATE SLURRY COMPOSITIONS**
[54] **METHODE POUR PRODUIRE DES BOUES DE PARTICULES ET COMPOSITIONS DE BOUES DE PARTICULES**
[72] ZHANG, KEWEI, CA
[73] TRICAN WELL SERVICE LTD., CA
[86] (2943473)
[87] (2943473)
[22] 2006-05-02
[62] 2,545,563
[30] US (60/676,316) 2005-05-02
[30] US (60/719,597) 2005-09-23

---

[11] **2,943,725**
[13] C
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 47/02 (2006.01) A61K 47/30 (2006.01)**
[25] EN
[54] **ABUSE DETERRENT IMMEDIATE RELEASE COATED RESERVOIR SOLID DOSAGE FORM**
[54] **FORME PHARMACEUTIQUE SOLIDE EN RESERVOIR REVETU ANTI-ABUS A LIBERATION IMMEDIATE**
[72] DHARMADHIKARI NITIN BHALACHANDRA, NITIN, IN
[72] ZALA YASHORAJ, YASHORAJ, IN
[72] SHANGHVI DILIP, DILIP, IN
[73] SUN PHARMA ADVANCED RESEARCH COMPANY LTD., IN
[85] 2016-09-23
[86] 2015-03-25 (PCT/IN2015/000139)
[87] (WO2015/145459)
[30] IN (1041/MUM/2014) 2014-03-26
[30] IN (2378/MUM/2014) 2014-07-23
[30] IN (2917/MUM/2014) 2014-09-13
[30] IN (74/MUM/2015) 2015-01-08

---

[11] **2,944,101**
[13] C
[51] **Int.Cl. A23C 19/068 (2006.01) A23C 19/097 (2006.01) B65B 25/06 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A DAIRY PRODUCT AND SYSTEM FOR PACKAGING THE SAME**
[54] **METHODE DE PRODUCTION D'UN PRODUIT LAITIER ET SYSTEME D'EMBALLAGE CONNEXE**
[72] MATTEI, GIANFRANCO, IT
[73] EGIDIO GALBANI S.R.L., IT
[86] (2944101)
[87] (2944101)
[22] 2008-06-09
[62] 2,634,433
[30] EP (07425364.2) 2007-06-11

[11] **2,944,175**
[13] C
[51] **Int.Cl. F02D 29/06 (2006.01) F02B 63/04 (2006.01)**
[25] EN
[54] **METHOD OF LOADSHEDDING FOR A VARIABLE SPEED, CONSTANT FREQUENCY GENERATOR**
[54] **PROCEDE DE DELESTAGE DE CHARGE POUR UN GENERATEUR A VITESSE VARIABLE ET FREQUENCE CONSTANTE**
[72] ILES, ROBERT, US
[73] GENERAC POWER SYSTEMS, INC., US
[85] 2016-09-28
[86] 2015-04-23 (PCT/US2015/027251)
[87] (WO2015/164579)
[30] US (14/260,530) 2014-04-24

[11] **2,944,355**
[13] C
[51] **Int.Cl. G10L 19/008 (2013.01) H04S 3/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RENDERING ACOUSTIC SIGNAL, AND COMPUTER-READABLE RECORDING MEDIUM**
[54] **PROCEDE ET APPAREIL POUR RESTITUER UN SIGNAL ACOUSTIQUE, ET SUPPORT LISIBLE PAR ORDINATEUR**
[72] CHON, SANG-BAE, KR
[72] KIM, SUN-MIN, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2016-09-28
[86] 2015-03-30 (PCT/KR2015/003130)
[87] (WO2015/147619)
[30] US (61/971,647) 2014-03-28

[11] **2,944,406**
[13] C
[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/24 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CONNECTOR**
[54] **CONNECTEUR POUR FIBRE OPTIQUE**
[72] MATSUDA, TAKAHARU, JP
[72] LUONG, HUNG HUU, JP
[72] OTA, TATSUYA, JP
[72] TAKIZAWA, KAZUHIRO, JP
[72] KATAYOSE, HIROICHI, JP
[72] ISHIZUKA, KOJI, JP
[72] SHINPO, MAKOTO, JP
[72] TOGE, KUNIHIRO, JP
[73] FUJIKURA LTD., JP
[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2016-09-28
[86] 2015-03-31 (PCT/JP2015/060233)
[87] (WO2015/152282)
[30] JP (2014-075684) 2014-04-01

[11] **2,944,455**
[13] C
[51] **Int.Cl. F02C 7/26 (2006.01) F01D 19/00 (2006.01) F02C 7/268 (2006.01)**
[25] EN
[54] **AERODERIVATIVE JET ENGINE ACCESSORY STARTER RELOCATION TO MAIN SHAFT - DIRECTLY CONNECTED TO HPC SHAFT**
[54] **REPOSITIONNEMENT DU DEMARREUR ACCESSOIRE D'UN MOTEUR A REACTION AERODERIVATIF VERS L'ARBRE PRINCIPAL DIRECTEMENT CONNECTE A L'ARBRE HPC**
[72] SZCZEPANOWSKI, PAWEL, PL
[72] GOLDYN, MATEUSZ, PL
[73] GENERAL ELECTRIC COMPANY, US
[86] (2944455)
[87] (2944455)
[22] 2016-10-06
[30] PL (P.414430) 2015-10-19

[11] **2,944,790**
[13] C
[51] **Int.Cl. B08B 3/10 (2006.01)**
[25] EN
[54] **INFRARED BURNER FOR PRESSURE WASHERS**
[54] **BRULEUR INFRAROUGE DESTINE A DES APPAREILS DE NETTOYAGE A PRESSION**
[72] ARNOLD, RICK, CA
[72] FORMANEK, DAN, CA
[73] ARNOLD, RICK, CA
[73] FORMANEK, DAN, CA
[86] (2944790)
[87] (2944790)
[22] 2016-11-01
[30] US (14/946,260) 2015-11-19
[30] EP (EP16189784.8) 2016-09-20

[11] **2,945,556**
[13] C
[51] **Int.Cl. A63B 22/20 (2006.01) A63B 21/02 (2006.01) A63B 21/055 (2006.01)**
[25] EN
[54] **REFORMER EXERCISE APPARATUS**
[54] **APPAREIL D'EXERCICE DE REMISE EN FORME**
[72] ENDELMAN, KEN, US
[72] SAVARINO, CHRISTOPHER J., US
[72] MASTERSON, BRIAN, US
[72] OBERWELZ, ELGER, US
[72] YURCHENCO, JAMES R., US
[72] PATRON, ANTHONY, US
[72] OVERTHUN, THOMAS DIETER CHRISTIAN, US
[72] STUDENT, JOERG, US
[72] WEBSTER, DAVID, US
[72] DAVIS-WILSON, JENNIFER ELLEN, US
[73] BALANCED BODY, INC., US
[86] (2945556)
[87] (2945556)
[22] 2011-07-13
[62] 2,844,737

[11] **2,947,995**
[13] C
[51] **Int.Cl. G05D 1/02 (2006.01) B60R 16/02 (2006.01)**
[25] EN
[54] **AUTONOMOUS VEHICLES**
[54] **VEHICULES AUTONOMES**
[72] NEMEC, PHILIP, US
[72] AULA, ANNE KRISTIINA, US
[72] LU, DAVID TSE-ZHOU, US
[72] CULLINANE, BRIAN DOUGLAS, US
[72] JOHNSON, CALVIN KARL, US
[72] SHANE, ALBERT, US
[72] LUDWICK, CHRISTOPHER, US
[72] AHN, YOOJUNG, US
[73] WAYMO LLC, US
[85] 2016-11-03
[86] 2015-05-22 (PCT/US2015/032171)
[87] (WO2015/179760)
[30] US (62/002,319) 2014-05-23
[30] US (14/455,215) 2014-08-08

[11] **2,948,038**
[13] C
[51] **Int.Cl. H01P 1/207 (2006.01)**
[25] EN
[54] **TRANSVERSE MAGNETIC (TM) MODE DIELECTRIC FILTER**
[54] **FILTRE DIELECTRIQUE A MODE MAGNETIQUE TRANSVERSAL (TM)**
[72] YUAN, BENGUI, CN
[72] GUO, LING, CN
[72] FANG, QUN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2016-11-04
[86] 2014-05-07 (PCT/CN2014/076963)
[87] (WO2015/168883)

[11] **2,949,479**
[13] C
[51] **Int.Cl. H04R 29/00 (2006.01) H04S 5/00 (2006.01) H04S 7/00 (2006.01)**
[25] EN
[54] **VIRTUAL SIMULATION OF SPATIAL AUDIO CHARACTERISTICS**
[54] **SIMULATION VIRTUELLE DE CARACTERISTIQUES AUDIO SPATIALES**
[72] CRUTCHFIELD, WILLIAM G., US
[72] WRIGHT, RICHARD I., US
[73] CRUTCHFIELD CORPORATION, US
[85] 2016-11-09
[86] 2015-05-12 (PCT/US2015/030338)
[87] (WO2015/175511)
[30] US (61/992,542) 2014-05-13

[11] **2,950,251**
[13] C
[51] **Int.Cl. C01B 33/02 (2006.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01) H01M 4/48 (2010.01)**
[25] EN
[54] **SILICON MATERIAL AND NEGATIVE ELECTRODE OF SECONDARY BATTERY**
[54] **MATERIAU DE SILICIUM ET ELECTRODE NEGATIVE DE BATTERIE SECONDAIRE**
[72] MOHRI, TAKASHI, JP
[72] HARATA, MASANORI, JP
[72] NAKANISHI, MASATAKA, JP
[72] OSHIMA, HIROKI, JP
[72] GODA, NOBUHIRO, JP
[73] KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, JP
[85] 2016-11-24
[86] 2015-05-26 (PCT/JP2015/002653)
[87] (WO2015/182124)
[30] JP (2014-110835) 2014-05-29

[11] **2,951,338**
[13] C
[51] **Int.Cl. B25J 1/02 (2006.01) B25J 9/16 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **HANDHELD TOOL FOR LEVELING UNCOORDINATED MOTION**
[54] **OUTIL MANUEL SERVANT A EQUILIBRER UN MOUVEMENT NON COORDONNE**
[72] PATHAK, ANUPAM J., US
[72] ALLEN, MICHAEL M., US
[73] VERILY LIFE SCIENCES LLC, US
[86] (2951338)
[87] (2951338)
[22] 2016-12-13

[11] **2,954,572**
[13] C
[51] **Int.Cl. E04F 15/18 (2006.01) E01C 13/02 (2006.01) E04F 15/22 (2006.01)**
[25] EN
[54] **LOAD SUPPORTING PANEL HAVING IMPACT ABSORBING STRUCTURE**
[54] **PANNEAU DE SUPPORT DE CHARGE COMPRENANT UNE STRUCTURE ANTICHOC**
[72] SAWYER, STEVEN LEE, US
[72] SAWYER, DANIEL C., US
[72] RUNKLES, RICHARD R., US
[73] BROCK INTERNATIONAL, US
[86] (2954572)
[87] (2954572)
[22] 2011-02-11
[62] 2,899,113
[30] US (61/303,350) 2010-02-11
[30] US (12/830,902) 2010-07-06

[11] **2,955,764**
[13] C
[51] **Int.Cl. B65D 90/08 (2006.01)**
[25] EN
[54] **FASTENERS TO SECURE VARIOUS FIXTURES TO EXTERIOR OF SHIPPING TRANSPORT CONTAINERS**
[54] **FIXATIONS SERVANT A SECURISER DIVERS ELEMENTS A L'EXTERIEUR DES CONTENANTS DE TRANSPORT DESTINES A L'EXPEDITION**
[72] WYTENBURG, RIES IGNATIUS, US
[73] WYTENBURG, RIES IGNATIUS, US
[86] (2955764)
[87] (2955764)
[22] 2017-01-23
[30] US (15/091,101) 2016-04-05

[11] **2,955,814**
[13] C
[51] **Int.Cl. F04B 53/00 (2006.01) F04B 19/22 (2006.01) F04B 53/14 (2006.01) F04B 53/16 (2006.01) F04B 53/22 (2006.01)**
[25] EN
[54] **POWER END FRAME ASSEMBLY FOR RECIPROCATING PUMP**
[54] **ENSEMBLE CADRE DE PUISSANCE POUR POMPE ALTERNATIVE**
[72] BYRNE, JOSEPH H., US
[72] KUMAR, CHANDU, US
[72] MOMENKHANI, KOUROSH, US
[72] BAYYOUK, JACOB A., US
[72] MORAN, SEAN P., US
[72] PLEMONS, DONALD KEITH, US
[72] MARSHALL, WILLIAM WALTER, IV, US
[72] BUCKLEY, CHRISTOPHER P., US
[73] S.P.M. FLOW CONTROL, INC., US
[85] 2017-01-19
[86] 2015-07-24 (PCT/US2015/042043)
[87] (WO2016/014967)
[30] US (62/029,271) 2014-07-25
[30] US (62/095,689) 2014-12-22
[30] US (62/155,793) 2015-05-01

[11] **2,956,122**
[13] C
[51] **Int.Cl. H01M 8/04 (2016.01) H01M 8/10 (2016.01)**
[25] EN
[54] **FUEL CELL SYSTEM AND CONTROL METHOD FOR FUEL CELL SYSTEM**
[54] **SYSTEME DE PILE A COMBUSTIBLE ET SON PROCEDE DE COMMANDE**
[72] HOSHI, KIYOSHI, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2017-01-24
[86] 2015-06-16 (PCT/JP2015/067336)
[87] (WO2016/013333)
[30] JP (2014-151268) 2014-07-24

[11] **2,956,221**
[13] C
[51] **Int.Cl. G01S 5/00 (2006.01) H04W 64/00 (2009.01) G01S 11/00 (2006.01)**
[25] EN
[54] **DEVICE IDENTIFICATION USING BANDWIDTH EFFICIENT TECHNIQUES**
[54] **IDENTIFICATION DE DISPOSITIF AU MOYEN DE TECHNIQUES EFFICACES DE LARGEUR DE BANDE**
[72] MARTONO, CHRISTIAN, SG
[72] MAYBERRY, TRENT, SG
[72] OCHI, HIROSHI, SG
[73] ACCENTURE GLOBAL SOLUTIONS LIMITED, IE
[86] (2956221)
[87] (2956221)
[22] 2017-01-25
[30] US (15/179,723) 2016-06-10

[11] **2,956,379**
[13] C
[51] **Int.Cl. B61L 29/04 (2006.01) E01F 13/06 (2006.01)**
[25] EN
[54] **GATE CROSSING ARM COLLISION DETECTION SYSTEM AND METHOD**
[54] **SYSTEME DE DETECTION DE COLLISION AVEC UN MONTANT TRANSVERSAL DE BARRIERE ET METHODE**
[72] DEJARNATT, BARTON, US
[72] PLESS, TRAVIS, US
[73] SIEMENS INDUSTRY, INC., US
[86] (2956379)
[87] (2956379)
[22] 2017-01-27
[30] US (15/010,362) 2016-01-29

[11] **2,956,563**
[13] C
[51] **Int.Cl. C12N 5/071 (2010.01) G01N 33/53 (2006.01)**
[25] EN
[54] **USE OF SUSD2 PROTEIN AS MARKER**
[54] **UTILISATION D'UNE PROTEINE SUSD2 A TITRE DE MARQUEUR**
[72] DENG, HONGKUI, CN
[72] LIU, HAISONG, CN
[72] ZHU, DICONG, CN
[72] YANG, HUAN, CN
[72] LIANG, ZHEN, CN
[73] PEKING UNIVERSITY, CN
[73] PEKING UNIVERSITY SHENZHEN GRADUATE SCHOOL, CN
[73] BEIJING RUIPU CHENCHUANG TECHNOLOGY CO., LTD, CN
[85] 2017-01-27
[86] 2015-08-04 (PCT/CN2015/085990)
[87] (WO2016/019842)
[30] CN (201410386506.0) 2014-08-07

[11] **2,956,821**
[13] C
[51] **Int.Cl. H04N 5/262 (2006.01) A63B 71/06 (2006.01) H04N 5/232 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ANALYZING EVENT DATA**
[54] **SYSTEMES ET PROCEDES D'ANALYSE DE DONNEES D'EVENEMENT**
[72] DEANGELIS, DOUGLAS J., US
[72] SIGEL, KIRK M., US
[72] EVANSEN, EDWARD G., US
[73] ISOLYNX, LLC, US
[86] (2956821)
[87] (2956821)
[22] 2011-01-05
[62] 2,918,778
[30] US (61/292,386) 2010-01-05

[11] **2,956,877**
[13] C
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/115 (2010.01) A61P 37/06 (2006.01) C07H 21/04 (2006.01) C07K 1/22 (2006.01) C07K 16/42 (2006.01)**
[25] EN
[54] **APTAMERS FOR USE AGAINST AUTOANTIBODY-ASSOCIATED DISEASES**
[54] **APTAMERES POUR UNE UTILISATION CONTRE DES MALADIES ASSOCIEES A DES AUTO-ANTICORPS**
[72] MULLER, JOHANNES, DE
[73] BERLIN CURES HOLDING AG, CH
[85] 2017-01-31
[86] 2015-08-04 (PCT/EP2015/067951)
[87] (WO2016/020377)
[30] EP (14179715.9) 2014-08-04

---

[11] **2,956,985**
[13] C
[51] **Int.Cl. F02K 1/54 (2006.01) F02K 1/76 (2006.01)**
[25] EN
[54] **REVERSE THRUST ENGINE**
[54] **MOTEUR A POUSSEE INVERSEE**
[72] NAKANO, TSUGUJI, US
[72] BREEZE-STRINGFELLOW, ANDREW, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2956985)
[87] (2956985)
[22] 2017-02-02
[30] US (15/018,893) 2016-02-09

---

[11] **2,957,246**
[13] C
[51] **Int.Cl. G01D 3/02 (2006.01) G01D 3/024 (2006.01) G01J 5/10 (2006.01)**
[25] EN
[54] **WIRELESS INDUSTRIAL PROCESS MONITOR**
[54] **DISPOSITIF DE SURVEILLANCE DE PROCESSUS INDUSTRIEL SANS FIL**
[72] SCHNAARE, THEODORE HENRY, US
[73] ROSEMOUNT INC., US
[85] 2017-02-03
[86] 2015-07-14 (PCT/US2015/040310)
[87] (WO2016/053440)
[30] US (14/499,719) 2014-09-29

---

[11] **2,957,560**
[13] C
[51] **Int.Cl. B64C 3/24 (2006.01) B64F 5/10 (2017.01) B64C 1/06 (2006.01) B64C 3/18 (2006.01) B64C 27/28 (2006.01) F24H 3/02 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A TILTROTOR WING STRUCTURE**
[54] **METHODE DE FABRICATION D'UNE STRUCTURE D'AILE D'AERONEF A ROTOR BASCULANT**
[72] CARLSON, DAVID G., US
[72] MCCULLOUGH, JOHN R., US
[72] WOLFE, DOUGLAS K., US
[72] DECKER, GEORGE R., US
[72] STANNEY, KEITH A., US
[73] BELL HELICOPTER TEXTRON INC., US
[86] (2957560)
[87] (2957560)
[22] 2017-02-08
[30] US (62/292,673) 2016-02-08
[30] US (62/292,729) 2016-02-08
[30] US (15/423,888) 2017-02-03
[30] US (15/424,588) 2017-02-03
[30] US (15/424,402) 2017-02-03
[30] US (15/424,565) 2017-02-03

---

[11] **2,957,836**
[13] C
[51] **Int.Cl. H04L 27/34 (2006.01)**
[25] EN
[54] **FBMC SIGNAL TRANSMITTING METHOD AND RECEIVING METHOD, TRANSMITTER AND RECEIVER**
[54] **METHODE D'EMISSION ET METHODE DE RECEPTION DE SIGNAL FBMC, EMETTEUR ET RECEPTEUR**
[72] QU, DAIMING, CN
[72] JIANG, TAO, CN
[72] LI, JUN, CN
[72] CHEN, LEI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2017-02-10
[86] 2014-08-13 (PCT/CN2014/084289)
[87] (WO2016/023194)

---

[11] **2,958,303**
[13] C
[51] **Int.Cl. A01K 1/00 (2006.01) A01K 1/015 (2006.01)**
[25] EN
[54] **LITTER CONTAINER**
[54] **BAC A LITIERE**
[72] VENESS, DAVID, US
[72] BAKER, NICHOLAS, US
[73] DOSKOCIL MANUFACTURING COMPANY, INC., US
[86] (2958303)
[87] (2958303)
[22] 2017-02-17
[30] US (15/065,958) 2016-03-10

---

[11] **2,958,395**
[13] C
[51] **Int.Cl. F16B 21/07 (2006.01) F16B 13/00 (2006.01) F16B 17/00 (2006.01)**
[25] EN
[54] **MASONRY ANCHOR OF THE EXPANSION TYPE**
[54] **ANCRAGE DE MACONNERIE DE TYPE A DILATATION**
[72] MURDOCH, THOMAS, AU
[73] ILLINOIS TOOL WORKS INC., US
[86] (2958395)
[87] (2958395)
[22] 2017-02-17
[30] AU (2016900576) 2016-02-18
[30] AU (2017201016) 2017-02-15

[11] **2,958,489**
[13] C
[51] **Int.Cl. G02B 6/06 (2006.01)**
[25] EN
[54] **OPTICAL FIBER RIBBON, METHOD FOR MANUFACTURING OPTICAL FIBER RIBBON, AND UV-CURABLE RESIN COMPOSITION USED FOR FORMATION OF CONNECTION PARTS IN INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON**
[54] **RUBAN DE FIBRE OPTIQUE, METHODE DE FABRICATION DE RUBAN DE FIBRE OPTIQUE ET COMPOSITION DE RESINE DURCISSABLE PAR UV EN VUE DE LA FORMATION DE PIECES DE CONNEXION DANS UNE FIBRE OPTIQUE CONNECTEE DE MANIERE INTERMITTENTE**
[72] MURATA, AKIRA, JP
[72] ISAJI, MIZUKI, JP
[72] OSATO, KEN, JP
[72] OKADA, NAOKI, JP
[73] FUJIKURA LTD., JP
[85] 2017-02-21
[86] 2016-08-31 (PCT/JP2016/075424)
[87] (WO2017/094302)
[30] JP (2015-237214) 2015-12-04

[11] **2,959,096**
[13] C
[51] **Int.Cl. C22C 38/14 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C23C 2/06 (2006.01)**
[25] EN
[54] **COLD ROLLED HIGH STRENGTH LOW ALLOY STEEL**
[54] **ACIER FAIBLEMENT ALLIE HAUTE RESISTANCE LAMINE A FROID**
[72] MCEWAN, CALUM, NL
[72] BELLINA, PAUL, NL
[72] CAMPANIELLO, JEAN JOSEPH, NL
[72] BOEZEWINKEL, JOHAN, NL
[72] ENNIS, BERNARD LEO, NL
[73] TATA STEEL IJMUIDEN B.V., NL
[85] 2017-02-23
[86] 2015-08-24 (PCT/EP2015/001724)
[87] (WO2016/030010)
[30] EP (14182131.4) 2014-08-25

[11] **2,959,703**
[13] C
[51] **Int.Cl. A61L 27/30 (2006.01) A61N 1/18 (2006.01)**
[25] EN
[54] **IMPLANTABLE DEVICE WITH SELECTIVE CELL ADHESION AND METHOD OF PRODUCTION**
[54] **DISPOSITIF IMPLANTABLE A ADHERENCE CELLULAIRE SELECTIVE ET PROCEDE DE PRODUCTION**
[72] LENOBLE, DAMIEN, BE
[72] THOMANN, JEAN-SEBASTIEN, FR
[72] PALISSOT, VALERIE, FR
[73] LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST), LU
[73] LUXEMBOURG INSTITUTE OF HEALTH - LIH, LU
[85] 2017-03-01
[86] 2015-09-10 (PCT/EP2015/070754)
[87] (WO2016/038158)
[30] LU (LU92539) 2014-09-10

[11] **2,960,034**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61L 27/14 (2006.01) A61L 27/34 (2006.01) A61L 27/40 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE WITH RETENTION ELEMENTS**
[54] **VALVULE CARDIAQUE PROTHETIQUE AYANT DES ELEMENTS DE RETENUE**
[72] BENNETT, NATHAN L., US
[73] W.L. GORE & ASSOCIATES, INC., US
[85] 2017-03-02
[86] 2015-09-15 (PCT/US2015/050113)
[87] (WO2016/044223)
[30] US (62/050,628) 2014-09-15
[30] US (14/853,654) 2015-09-14

[11] **2,960,142**
[13] C
[51] **Int.Cl. C09D 11/34 (2014.01) B33Y 10/00 (2015.01) B33Y 70/00 (2015.01)**
[25] EN
[54] **CURABLE GELLANT INK COMPOSITION**
[54] **COMPOSITION D'ENCRE GELIFIANTE DURCISSABLE**
[72] CHOPRA, NAVEEN, CA
[72] MOORLAG, CAROLYN, CA
[72] BRETON, MARCEL P., CA
[72] KEOSHKERIAN, BARKEV, CA
[72] JIDDAWI, SALEH A., CA
[72] SISLER, GORDON, CA
[73] XEROX CORPORATION, US
[86] (2960142)
[87] (2960142)
[22] 2017-03-07
[30] US (15/078323) 2016-03-23

[11] **2,960,371**
[13] C
[51] **Int.Cl. C12N 15/63 (2006.01) A61P 21/00 (2006.01) A61P 25/02 (2006.01)**
[25] EN
[54] **CODON-OPTIMIZED RECOMBINANT PLASMID ENCODING VEGF AND FGF-2 AND METHODS TO STIMULATE PERIPHERAL NERVE REGENERATION AND TREAT NERVE DAMAGE IN HUMANS**
[54] **PLASMIDE RECOMBINANT A CODON OPTIMISE CODANT VEGF ET FGF-E ET METHODES DE STIMULATION DE LA REGENERATION DU NERF PERIPHERIQUE ET TRAITEMENT DE DOMMAGE NERVEUX CHEZ LES HUMAINS**
[72] ISAEV, ARTUR ALEKSANDROVICH, RU
[72] RIZVANOV, ALBERT ANATOLYEVICH, RU
[72] MASGUTOV, RUSLAN FARIDOVICH, RU
[72] BOGOV, ALEKSEI ANDREEVICH, RU
[72] SALAFUTDINOV, ILNUR ILDUSOVICH, RU
[72] DEEV, ROMAN VADIMOVICH, RU
[72] BOZO, ILYA YADIGEROVICH, RU
[72] PLAKSA, IGOR LEONIDOVICH, RU
[72] BOGOV, ANDREI ALEKSEEVICH, RU
[73] COMPANY LIMITED "NEXTGEN", RU
[85] 2017-03-06
[86] 2015-08-27 (PCT/RU2015/000545)
[87] (WO2016/163912)
[30] RU (2014137218) 2014-09-16

[11] **2,960,531**
[13] C
[51] **Int.Cl. H04L 12/12 (2006.01) H04W 12/08 (2009.01) H04L 12/24 (2006.01)**
[25] EN
[54] **APPLICATION PLATFORM SECURITY ENFORCEMENT IN CROSS DEVICE AND OWNERSHIP STRUCTURES**
[54] **MIS EN OEUVRE DE LA SECURITE DE PLATEFORME D'APPLICATION DANS LES STRUCTURES CROISEES DE DISPOSITIF ET PROPRIETAIRE**
[72] MIHAN, KOKO, CA
[72] D'AGOSTINO, DINO, CA
[72] CHAN, PAUL MON-WAH, CA
[72] LEE, JOHN JONG-SUK, CA
[72] MILKMAN, PAUL, CA
[72] BRAR, SATWINDER SINGH, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2960531)
[87] (2960531)
[22] 2017-03-10
[30] US (62/306,897) 2016-03-11

[11] **2,960,588**
[13] C
[51] **Int.Cl. B05C 17/02 (2006.01)**
[25] EN
[54] **PAINT ROLLER AND METHOD OF ASSEMBLING THE SAME**
[54] **ROULEAU A PEINTURE ET PROCEDE D'ASSEMBLAGE DE CE DERNIER**
[72] GOODWIN, EDWARD RAY, JR., US
[72] BUCKEL, CHARLES T., JR., US
[72] LAMBERTSON, MICHAEL C., JR., US
[73] SWIMC LLC, US
[85] 2017-03-07
[86] 2015-09-28 (PCT/US2015/052621)
[87] (WO2016/053861)
[30] US (62/057,942) 2014-09-30

[11] **2,960,854**
[13] C
[51] **Int.Cl. G10L 19/012 (2013.01)**
[25] EN
[54] **NOISE FILLING WITHOUT SIDE INFORMATION FOR CELP-LIKE CODERS**
[54] **REMPLISSAGE DE BRUIT SANS INFORMATIONS COLLATERALES POUR CODEURS DE TYPE CELP**
[72] FUCHS, GUILLAUME, DE
[72] HELMRICH, CHRISTIAN, DE
[72] JANDER, MANUEL, DE
[72] SCHUBERT, BENJAMIN, DE
[72] YOKOTANI, YOSHIKAZU, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[86] (2960854)
[87] (2960854)
[22] 2014-01-28
[62] 2,899,542
[30] US (61/758189) 2013-01-29

[11] **2,961,989**
[13] C
[51] **Int.Cl. E04F 15/02 (2006.01) E04C 2/40 (2006.01) E04F 13/076 (2006.01)**
[25] EN
[54] **PANEL**
[54] **PANNEAU**
[72] HANNIG, HANS-JURGEN, DE
[72] SCHAFERS, ERICH, DE
[73] AKZENTA PANEELE + PROFILE GMBH, DE
[85] 2017-03-21
[86] 2015-09-30 (PCT/EP2015/072564)
[87] (WO2016/050848)
[30] DE (10 2014 114 250.0) 2014-09-30

[11] **2,962,898**
[13] C
[51] **Int.Cl. F04D 29/051 (2006.01) F01D 25/16 (2006.01) F02C 7/06 (2006.01) F02C 7/28 (2006.01) F04D 29/12 (2006.01) F16C 33/12 (2006.01) F16C 33/74 (2006.01) F16J 15/34 (2006.01)**
[25] EN
[54] **THRUST BEARING AS A SEAL**
[54] **PALIER DE BUTEE SOUS LA FORME D'UN JOINT D'ETANCHEITE**
[72] DEVITT, ANDREW J., US
[73] NEW WAY MACHINE COMPONENTS, INC., US
[85] 2017-03-27
[86] 2015-09-29 (PCT/US2015/053008)
[87] (WO2016/054084)
[30] US (62/057,058) 2014-09-29
[30] US (62/057,066) 2014-09-29
[30] US (62/113,172) 2015-02-06

[11] **2,963,024**
[13] C
[51] **Int.Cl. B42D 25/328 (2014.01) B42D 25/324 (2014.01) B42D 25/351 (2014.01) B42D 25/45 (2014.01)**
[25] EN
[54] **OPTICALLY VARIABLE TRANSPARENT SECURITY ELEMENT**
[54] **ELEMENT DE SECURITE TRANSPARENT VARIABLE OPTIQUEMENT**
[72] FUHSE, CHRISTIAN, DE
[73] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE
[85] 2017-03-29
[86] 2015-12-01 (PCT/EP2015/002414)
[87] (WO2016/096094)
[30] DE (10 2014 019 088.9) 2014-12-18

[11] **2,963,318**
[13] C
[51] **Int.Cl. C07C 229/56 (2006.01) A61K 31/195 (2006.01) A61K 31/445 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) C07C 229/48 (2006.01) C07C 235/40 (2006.01) C07C 271/24 (2006.01) C07D 211/62 (2006.01) C07D 213/80 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **NOVEL CARBOXYLIC ACID COMPOUNDS USEFUL FOR INHIBITING MICROSOMAL PROSTAGLANDIN E2 SYNTHASE-1**
[54] **NOUVEAUX COMPOSES ACIDE CARBOXYLIQUE SERVANT A INHIBER LA PROSTAGLANDINE E2 SYNTHASE-1 MICROSOMALE**
[72] FISHER, MATTHEW JOSEPH, US
[72] KUKLISH, STEVEN LEE, US
[72] PARTRIDGE, KATHERINE MARIE, US
[72] YORK, JEREMY SCHULENBURG, US
[73] ELI LILLY AND COMPANY, US
[85] 2017-03-30
[86] 2015-10-22 (PCT/US2015/056955)
[87] (WO2016/069374)
[30] US (62/072,140) 2014-10-29

[11] **2,963,324**
[13] C
[51] **Int.Cl. E05C 3/12 (2006.01) B64D 11/00 (2006.01)**
[25] EN
[54] **OVERHEAD STORAGE BIN LATCH SYSTEM**
[54] **SYSTEME DE VERROU POUR COMPARTIMENT DE RANGEMENT SUPERIEUR**
[72] KEARSEY, STEPHEN, US
[72] LONG, ERIC, US
[72] SAVIAN, SCOTT, US
[73] C&D ZODIAC, INC., US
[85] 2017-03-30
[86] 2015-10-27 (PCT/US2015/057513)
[87] (WO2016/069558)
[30] US (62/069,163) 2014-10-27
[30] US (14/796,829) 2015-07-10

[11] **2,963,783**
[13] C
[51] **Int.Cl. B02C 23/18 (2006.01) B01D 21/01 (2006.01) C02F 1/56 (2006.01)**
[25] EN
[54] **WET MINERAL ORE PROCESSING IN MINING APPLICATIONS**
[54] **TRAITEMENT DE MINERAI HUMIDE DANS DES APPLICATIONS D'EXPLOITATION MINIERE**
[72] BAKEEV, KIRILL N., US
[72] DIMAIO, ANDREW M., US
[73] SOLENIS TECHNOLOGIES, L.P., CH
[85] 2017-04-05
[86] 2015-09-02 (PCT/US2015/048121)
[87] (WO2016/036843)
[30] US (62/045,356) 2014-09-03

[11] **2,963,928**
[13] C
[51] **Int.Cl. G06T 17/20 (2006.01) G06T 17/05 (2011.01)**
[25] EN
[54] **RESERVOIR MESH CREATION USING EXTENDED ANISOTROPIC, GEOMETRY-ADAPTIVE REFINEMENT OF POLYHEDRA**
[54] **CREATION DE MAILLAGES DE RESERVOIRS PAR RAFFINEMENT ETENDU ANISOTROPE GEOMETRIQUEMENT ADAPTATIF DE POLYEDRES**
[72] BREWER, MICHAEL LOYD, US
[72] WARD, STEVEN BRYAN, US
[72] BIVINS, GERRICK, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-04-06
[86] 2014-11-12 (PCT/US2014/065177)
[87] (WO2016/076847)

[11] **2,963,950**
[13] C
[51] **Int.Cl. H02K 3/38 (2006.01) H02K 3/12 (2006.01) H02K 15/00 (2006.01)**
[25] EN
[54] **ACTIVE PART OF AN ELECTRIC MACHINE**
[54] **ELEMENT ACTIF D'UN MOTEUR ELECTRIQUE**
[72] BOGDAN, ZOLT, RS
[72] ILES, JANOS, RS
[72] LINDMEIER, ANDREAS, DE
[72] SCHONBAUER, NORBERT, DE
[72] VUKOVIC, MIRJANA, RS
[72] BRENNER, ROBIN, DE
[72] RATZISBERGER, DOMINIK, DE
[72] TERINGL, CLAUS, DE
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2017-04-06
[86] 2015-10-02 (PCT/EP2015/072787)
[87] (WO2016/055366)
[30] EP (14188128.4) 2014-10-08

[11] **2,964,850**
[13] C
[51] **Int.Cl. F01K 23/10 (2006.01) F01K 3/00 (2006.01) F01K 15/00 (2006.01)**
[25] EN
[54] **METHOD FOR COMPENSATING LOAD PEAKS DURING ENERGY GENERATION AND/OR FOR GENERATING ELECTRICAL ENERGY AND/OR FOR GENERATING HYDROGEN, AND A STORAGE POWER PLANT**
[54] **PROCEDE PERMETTANT DE COMPENSER DES POINTES DE CHARGE LORS DE LA PRODUCTION D'ENERGIE ET/OU DE PRODUIRE DE L'ENERGIE ELECTRIQUE ET/OU DE PRODUIRE DE L'HYDROGENE, ET CENTRALE D'ACCUMULATION**
[72] KNOP, KLAUS, DE
[72] PFAB, ROBERT JOSEPH, DE
[72] ZOELLNER, LARS, DE
[73] CARBON-CLEAN TECHNOLOGIES GMBH, DE
[85] 2017-04-18
[86] 2015-10-16 (PCT/EP2015/002050)
[87] (WO2016/058701)
[30] DE (10 2014 015 323.1) 2014-10-17
[30] DE (10 2014 017 346.1) 2014-11-25

[11] **2,964,894**
[13] C
[51] **Int.Cl. H02P 25/06 (2016.01) B60L 13/03 (2006.01) B65G 23/18 (2006.01) B65G 23/23 (2006.01) B65G 54/02 (2006.01) H02K 41/02 (2006.01)**
[25] EN
[54] **STATOR SEGMENT FOR A LINEAR MOTOR-BASED TRANSPORT SYSTEM AND TRANSPORT SYSTEM**
[54] **SEGMENT DE STATOR DESTINE A UN SYSTEME DE TRANSPORT FONDE SUR UN MOTEUR LINEAIRE ET SYSTEME DE TRANSPORT**
[72] ALBERT, FABIAN, DE
[72] GIERDEN, MARCO, DE
[72] HARTRAMPH, RALF, DE
[72] JANTSCH, MICHAEL, DE
[72] ROTHE, SVEN, DE
[72] SPINDLER, CARSTEN, DE
[72] VEIT, ANDREAS, DE
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[73] FESTO AG & CO. KG, DE
[86] (2964894)
[87] (2964894)
[22] 2017-04-20
[30] EP (16166648.2) 2016-04-22

[11] **2,964,904**
[13] C
[51] **Int.Cl. B65G 51/34 (2006.01) B65G 51/26 (2006.01) B65G 51/44 (2006.01) B65G 51/46 (2006.01)**
[25] EN
[54] **MULTIPLE DOCK STATION FOR PNEUMATIC TRANSPORT SYSTEM**
[54] **POSTE A QUAIS MULTIPLES POUR SYSTEME DE TRANSPORT PNEUMATIQUE**
[72] GROSS, DANIEL ROBERT, US
[72] PARISH, DAVID WARREN, US
[72] SERAFIN, DANIEL JOHN, US
[73] TRANSLOGIC CORPORATION, US
[85] 2017-04-18
[86] 2015-10-02 (PCT/US2015/053832)
[87] (WO2016/054576)
[30] US (62/058,781) 2014-10-02
[30] US (62/189,366) 2015-07-07

[11] **2,966,482**
[13] C
[51] **Int.Cl. H04L 12/951 (2013.01) H04L 12/955 (2013.01)**
[25] EN
[54] **TRANSMITTING APPARATUS, RECEIVING APPARATUS AND CONTROLLING METHOD THEREOF**
[54] **APPAREIL D'EMISSION, APPAREIL DE RECEPTION, ET LEUR PROCEDE DE COMMANDE**
[72] HWANG, SUNG-HEE, KR
[72] LEE, HAK-JU, KR
[72] YANG, HYUN-KOO, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2017-05-01
[86] 2015-11-11 (PCT/KR2015/012131)
[87] (WO2016/076631)
[30] US (62/077,970) 2014-11-11
[30] US (62/151,654) 2015-04-23
[30] KR (10-2015-0158268) 2015-11-11

[11] **2,967,180**
[13] C
[51] **Int.Cl. A61F 2/16 (2006.01) G02B 27/62 (2006.01)**
[25] EN
[54] **METHOD FOR MODIFYING POWER OF LIGHT ADJUSTABLE LENS**
[54] **PROCEDE DE MODIFICATION DE LA PUISSANCE D'UNE LENTILLE PHOTOCHROMIQUE**
[72] GRUBBS, ROBERT H., US
[72] SANDSTEDT, CHRISTIAN A., US
[73] RXSIGHT, INC., US
[85] 2017-03-17
[86] 2016-05-20 (PCT/US2016/033420)
[87] (WO2016/187497)
[30] US (62/164,413) 2015-05-20

[11] **2,967,480**
[13] C
[51] **Int.Cl. B65D 43/08 (2006.01) B21D 19/12 (2006.01) B21D 22/06 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING AN IMPROVED DISPOSABLE LID**
[54] **PROCEDE DE FABRICATION D'UN COUVERCLE JETABLE AMELIORE**
[72] SARNOFF, BRAD, US
[72] PATEL, RAJ, US
[73] HFA, INC., US
[86] (2967480)
[87] (2967480)
[22] 2017-05-16
[30] US (15/466,910) 2017-04-05

---

[11] **2,967,589**
[13] C
[51] **Int.Cl. B25J 9/00 (2006.01) B25J 11/00 (2006.01) B25J 15/10 (2006.01) B66C 1/54 (2006.01) G01N 27/90 (2006.01)**
[25] EN
[54] **APPARATUS FOR AUTOMATED POSITIONING OF EDDY CURRENT TEST PROBE**
[54] **APPAREIL DE POSITIONNEMENT AUTOMATISE DE SONDE D'ESSAI PAR COURANTS DE FOUCAULT**
[72] O'DELL, THOMAS, US
[73] BWXT NUCLEAR ENERGY, INC., US
[86] (2967589)
[87] (2967589)
[22] 2010-01-19
[62] 2,750,221
[30] US (61/145,629) 2009-01-19

---

[11] **2,967,638**
[13] C
[51] **Int.Cl. B60K 35/00 (2006.01) B60R 11/04 (2006.01) B60W 40/02 (2006.01) B60W 40/10 (2012.01) G07C 5/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING A VEHICLE EVENT AND GENERATING REVIEW CRITERIA**
[54] **SYSTEME ET PROCEDE SERVANT A DETECTER UN EVENEMENT LIE A UN VEHICULE ET SERVANT A GENERER DES CRITERES D'EXAMEN**
[72] PALMER, JASON, US
[72] SLJIVAR, SLAVEN, US
[72] FREITAS, MARK, US
[72] DENINGER, DANIEL A., US
[72] GRISWOLD, JEFFREY TODD, US
[73] SMARTDRIVE SYSTEMS, INC., US
[85] 2017-05-11
[86] 2015-11-13 (PCT/US2015/060721)
[87] (WO2016/077779)
[30] US (14/540,825) 2014-11-13

---

[11] **2,968,724**
[13] C
[51] **Int.Cl. B32B 17/10 (2006.01) C03C 27/12 (2006.01)**
[25] EN
[54] **COMPOSITE GLASS HAVING REDUCED THICKNESS FOR A HEAD-UP DISPLAY (HUD)**
[54] **VERRE FEUILLETE DE FAIBLE EPAISSEUR POUR UN AFFICHEUR TETE HAUTE (HUD)**
[72] ARNDT, MARTIN, DE
[72] KREMERS, STEPHAN, DE
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2017-05-24
[86] 2015-10-13 (PCT/EP2015/073625)
[87] (WO2016/091435)
[30] EP (14196732.3) 2014-12-08

---

[11] **2,968,994**
[13] C
[51] **Int.Cl. F02C 7/24 (2006.01) B32B 3/04 (2006.01)**
[25] EN
[54] **THERMAL INSULATION BLANKET AND THERMAL INSULATION BLANKET ASSEMBLY**
[54] **COUVERTURE D'ISOLATION THERMIQUE ET ENSEMBLE DE COUVERTURE D'ISOLATION THERMIQUE**
[72] ROACH, ANDREW MICHAEL, US
[72] CALDER, DAVID PATRICK, US
[72] HOWARTH, GRAHAM FRANK, US
[73] MRA SYSTEMS, LLC, US
[86] (2968994)
[87] (2968994)
[22] 2017-06-01
[30] US (15/176,513) 2016-06-08

---

[11] **2,969,319**
[13] C
[51] **Int.Cl. G01V 8/02 (2006.01) G01V 8/24 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS EMPLOYING FIBER OPTIC SENSORS FOR ELECTROMAGNETIC CROSS-WELL TELEMETRY**
[54] **PROCEDES ET SYSTEMES UTILISANT DES CAPTEURS A FIBRE OPTIQUE POUR UNE TELEMETRIE DE PUITS CROISE ELECTROMAGNETIQUE**
[72] WILSON, GLENN A., US
[72] DONDERICI, BURKAY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-05-30
[86] 2014-12-31 (PCT/US2014/072993)
[87] (WO2016/108887)

[11] **2,969,404**
[13] C
[51] **Int.Cl. B24D 5/00 (2006.01) B23C 5/28 (2006.01) B23D 77/00 (2006.01)**
[25] EN
[54] **GRINDING TOOL AND MANUFACTURING METHOD THEREFOR**
[54] **OUTIL DE FRAISAGE ET PROCEDE DE FABRICATION POUR CE DERNIER**
[72] ARISAWA, HIDEAKI, JP
[73] MITSUBISHI HEAVY INDUSTRIES MACHINE TOOL CO., LTD., JP
[85] 2017-05-31
[86] 2015-12-07 (PCT/JP2015/084233)
[87] (WO2016/093186)
[30] JP (2014-251631) 2014-12-12

---

[11] **2,969,569**
[13] C
[51] **Int.Cl. F01K 27/00 (2006.01) F01K 13/00 (2006.01) F02C 6/16 (2006.01)**
[25] EN
[54] **HYBRID COMPRESSED AIR ENERGY STORAGE SYSTEM AND PROCESS**
[54] **SYSTEME DE STOCKAGE D'ENERGIE A AIR COMPRIME HYBRIDE ET PROCEDE**
[72] WILLIAMS, JOSEPH T., US
[72] KERTH, JASON M., US
[73] DRESSER-RAND COMPANY, US
[86] (2969569)
[87] (2969569)
[22] 2017-06-05
[30] US (62/346,587) 2016-06-07
[30] US (15/602,179) 2017-05-23

---

[11] **2,969,959**
[13] C
[51] **Int.Cl. G06F 3/00 (2006.01) B64D 47/00 (2006.01) G09G 3/00 (2006.01)**
[25] EN
[54] **CORRECTION OF VIBRATION-INDUCED ERROR FOR TOUCH SCREEN DISPLAY IN AN AIRCRAFT**
[54] **CORRECTION D'ERREUR INDUITE PAR VIBRATION SUR UN ECRAN TACTILE DANS UN AERONEF**
[72] HENDERSON, GEORGE R., GB
[72] HICKMAN, PAUL RICHARD, GB
[72] BOLTON, LUKE PATRICK, GB
[73] GE AVIATION SYSTEMS LIMITED, GB
[86] (2969959)
[87] (2969959)
[22] 2017-06-08
[30] GB (1610732.8) 2016-06-20

---

[11] **2,971,560**
[13] C
[51] **Int.Cl. F16B 25/00 (2006.01) F16B 15/00 (2006.01) F16B 15/02 (2006.01) F16B 35/04 (2006.01)**
[25] EN
[54] **DRIVABLE SCREW NAIL**
[54] **CLOU-VIS POUVANT ETRE ENTRAINE**
[72] HASEGAWA, TAKEO, JP
[73] FUJITOMI CORPORATION, JP
[85] 2017-06-19
[86] 2015-12-17 (PCT/JP2015/086154)
[87] (WO2016/104664)
[30] JP (2014-267286) 2014-12-24

---

[11] **2,972,246**
[13] C
[51] **Int.Cl. E21B 21/08 (2006.01) E21B 47/00 (2012.01) G01V 1/40 (2006.01)**
[25] EN
[54] **ULTRASOUND COLOR FLOW IMAGING FOR OIL FIELD APPLICATIONS**
[54] **IMAGERIE PAR ULTRASONS A CODAGE COULEUR DES FLUX POUR APPLICATIONS PETROLIERES**
[72] DOTSON, ADAM R., US
[72] JAMISON, DALE E., US
[72] MCDANIEL, CATO RUSSELL, US
[72] YE, XIANGNAN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-06-23
[86] 2015-02-27 (PCT/US2015/018135)
[87] (WO2016/137511)

---

[11] **2,972,835**
[13] C
[51] **Int.Cl. C07D 241/12 (2006.01) A61K 31/4965 (2006.01) A61P 25/00 (2006.01) C07C 241/00 (2006.01)**
[25] EN
[54] **TRIFLUOROACETYL HYDRAZIDE COMPOUNDS AND METHODS OF PREPARATION AND USES THEREOF**
[54] **COMPOSE D'HYDRAZIDE TRIFLUOROACETIQUE AINSI QUE SON PROCEDE DE PREPARATION ET SON APPLICATION DANS LA PREPARATION D'UN MEDICAMENT**
[72] WANG, YUQIANG, CN
[72] CHEN, HAIYUN, CN
[72] ZHANG, ZAIJUN, CN
[72] ZHANG, GAOXIAO, CN
[72] YU, PEI, CN
[72] SUN, YEWEI, CN
[72] SHAN, LUCHEN, CN
[72] TAO, LIANG, CN
[73] GUANGZHOU MAGPIE PHARMACEUTICALS CO., LTD., CN
[85] 2017-06-30
[86] 2015-08-11 (PCT/CN2015/000581)
[87] (WO2016/106760)
[30] CN (201410855931.X) 2014-12-31

[11] **2,973,341**
[13] C
[51] **Int.Cl. G03B 15/02 (2006.01) G03B 17/00 (2006.01)**
[25] EN
[54] **SELFIE APPARATUS**
[54] **APPAREIL A SELFIE**
[72] KAISER, ERIK A., US
[73] KAISER, ERIK A., US
[85] 2017-07-07
[86] 2015-06-18 (PCT/US2015/036532)
[87] (WO2016/164059)
[30] US (14/678,996) 2015-04-05

[11] **2,973,840**
[13] C
[51] **Int.Cl. C07C 67/37 (2006.01) C07B 41/12 (2006.01)**
[25] EN
[54] **PROCESS FOR THE ALKOXYCARBONYLATION OF ETHERS**
[54] **PROCEDE D'ALCOXYCARBONYLATION DES ETHERS**
[72] DONG, KAIWU, CN
[72] JACKSTELL, RALF, DE
[72] NEUMANN, HELFRIED, DE
[72] BELLER, MATTHIAS, DE
[72] FRIDAG, DIRK, DE
[72] HESS, DIETER, DE
[72] DYBALLA, KATRIN MARIE, DE
[72] GEILEN, FRANK, DE
[72] FRANKE, ROBERT, DE
[73] EVONIK DEGUSSA GMBH, DE
[86] (2973840)
[87] (2973840)
[22] 2017-07-17
[30] EP (16 180 054.5) 2016-07-19

[11] **2,974,214**
[13] C
[51] **Int.Cl. A01M 1/04 (2006.01)**
[25] EN
[54] **MOSQUITO KILLER LAMP**
[54] **LAMPE ANTI-MOUSTIQUES**
[72] ZHENG, JUN, CN
[72] NING, YUAN'AI, CN
[73] NINGBO DAYANG INDUSTRY AND TRADE CO., LTD, CN
[85] 2017-07-19
[86] 2015-11-02 (PCT/CN2015/000745)
[87] (WO2017/045092)
[30] CN (201520712890.9) 2015-09-15

[11] **2,975,047**
[13] C
[51] **Int.Cl. A61K 35/644 (2015.01) A61K 31/192 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **SYNERGISTIC COMPOSITION COMPRISING PROPOLIS AND CARNOSIC ACID FOR USE IN THE PREVENTION AND TREATMENT OF CANDIDIASIS**
[54] **COMPOSITION SYNERGIQUE COMPRENANT DU PROPOLIS ET DE L'ACIDE CARNOSIQUE, UTILISEE DANS LA PREVENTION ET LE TRAITEMENT DE LA CANDIDOSE**
[72] LOZANO TERUEL, JOSE ANTONIO, ES
[72] ARGUELLES ORDONEZ, JUAN CARLOS, ES
[72] ARGUELLES PRIETO, ALEJANDRA, ES
[72] SANCHEZ-FRESNEDA PINTO, RUTH, ES
[72] GUIRAO ABAD, JOSE PEDRO, ES
[73] VITALGAIA ESPANA, S.L, ES
[85] 2017-07-26
[86] 2015-02-04 (PCT/IB2015/000140)
[87] (WO2016/124957)

[11] **2,975,110**
[13] C
[51] **Int.Cl. H05B 37/02 (2006.01) H04L 12/28 (2006.01) H04L 29/02 (2006.01)**
[25] EN
[54] **SCHEDULING FAILOVER FOR LIGHTING CONTROLS**
[54] **PLANIFICATION DE BASCULEMENT DE COMMANDES D'ECLAIRAGE**
[72] NORTON, MARK, US
[72] TRICKLER, CHRISTOPHER, US
[72] NAIB, DEAN, US
[72] WESTRICK, RICHARD L., JR., US
[73] ABL IP HOLDING LLC, US
[86] (2975110)
[87] (2975110)
[22] 2017-08-02
[30] US (15/229,149) 2016-08-05

[11] **2,975,215**
[13] C
[51] **Int.Cl. F21V 33/00 (2006.01) B65D 39/08 (2006.01) B65D 51/24 (2006.01) F21V 8/00 (2006.01) F21V 31/00 (2006.01)**
[25] EN
[54] **LUMINOUS BOTTLE STOPPER**
[54] **BOUCHON DE BOUTEILLE LUMINEUX**
[72] KUO, CHIA-SHIN, TW
[72] KUO, YU-FENG, TW
[73] KUO, CHIA-SHIN, TW
[73] KUO, YU-FENG, TW
[86] (2975215)
[87] (2975215)
[22] 2017-08-03

[11] **2,977,418**
[13] C
[51] **Int.Cl. A01N 43/653 (2006.01) A01N 43/16 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **METCONAZOLE-CONTAINING PESTICIDE COMPOSITION FOR PREVENTING AND CONTROLLING FUSARIUM HEAD BLIGHT AND APPLICATION THEREOF**
[54] **COMPOSITION PESTICIDE CONTENANT DU METCONAZOLE POUR PREVENIR ET TRAITER LA FUSARIOSE DE L'EPI ET SON APPLICATION**
[72] ZHOU, MINGGUO, CN
[72] DUAN, YABING, CN
[72] WANG, JIANXIN, CN
[73] NANJING AGRICULTURAL UNIVERSITY, CN
[85] 2017-08-22
[86] 2016-05-11 (PCT/CN2016/081655)
[87] (WO2017/084249)
[30] CN (201510801884.5) 2015-11-19

[11] **2,978,385**
[13] C
[51] **Int.Cl. A44C 5/00 (2006.01) A47G 25/90 (2006.01) A61F 4/00 (2006.01)**
[25] EN
[54] **JEWELRY HELPER**
[54] **DISPOSITIF AIDANT A ATTACHER UN BIJOU**
[72] BRETT, ALISON, CA
[73] BRETT, ALISON, CA
[86] (2978385)
[87] (2978385)
[22] 2017-09-07

[11] **2,979,607**
[13] C
[51] **Int.Cl. B64C 5/16 (2006.01) B64C 3/58 (2006.01) B64C 5/06 (2006.01) B64C 27/26 (2006.01) B64C 27/28 (2006.01)**
[25] EN
[54] **WING EXTENSION WINGLETS FOR TILTROTOR AIRCRAFT**
[54] **AILETTES D'EXTENSION D'AILE DESTINEES A UN AERONEF A ROTOR BASCULANT**
[72] ANDERSON, ADAM BRYANT, US
[72] IVANS, STEVEN RAY, US
[72] CHAVEZ, JEREMY ROBERT, US
[73] BELL HELICOPTER TEXTRON INC., US
[86] (2979607)
[87] (2979607)
[22] 2017-09-18
[30] US (15/269,862) 2016-09-19

---

[11] **2,980,127**
[13] C
[51] **Int.Cl. B66C 7/14 (2006.01) B66C 7/16 (2006.01) B66C 13/22 (2006.01) B66C 13/40 (2006.01)**
[25] EN
[54] **COORDINATED SAFETY INTERLOCKING SYSTEMS AND METHODS**
[54] **PROCEDES ET SYSTEMES DE VERROUILLAGE DE SECURITE COORDONNE**
[72] STAGG, DAVID, US
[73] CONTROL SOLUTIONS ENTERPRISES, INC., US
[85] 2017-09-18
[86] 2016-03-11 (PCT/US2016/021922)
[87] (WO2016/153814)
[30] US (62/138,045) 2015-03-25

---

[11] **2,980,224**
[13] C
[51] **Int.Cl. C07C 233/47 (2006.01) A61P 9/04 (2006.01) C07C 231/24 (2006.01) C07D 257/04 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORM OF AHU377, PREPARATION METHOD AND USE THEREOF**
[54] **FORME CRISTALLINE DE AHU377, PROCEDE DE PREPARATION ET UTILISATION DE CETTE DERNIERE**
[72] CHEN, MINHUA, CN
[72] ZHANG, YANFENG, CN
[72] YANG, CHAOHUI, CN
[72] YU, SHU, CN
[72] ZHANG, XIAOYU, CN
[72] ZHANG, LIANG, CN
[73] CRYSTAL PHARMATECH CO., LTD., CN
[85] 2017-09-19
[86] 2016-03-18 (PCT/CN2016/076660)
[87] (WO2016/150337)
[30] CN (201510124555.1) 2015-03-20

---

[11] **2,980,761**
[13] C
[51] **Int.Cl. B60D 1/58 (2006.01) B60D 1/48 (2006.01) B62D 53/08 (2006.01)**
[25] EN
[54] **DRAWBAR AND HITCH RECEIVER MOVEMENT ELIMINATING SYSTEMS**
[54] **SYSTEMES D'ELIMINATION DU MOUVEMENT DU RECEPTEUR DE LA BARRE D'ATTELAGE ET DE LA BOULE D'ATTELAGE**
[72] VERHEUL, DANIEL C., CA
[73] VERHEUL, DANIEL C., CA
[86] (2980761)
[87] (2980761)
[22] 2017-09-29

---

[11] **2,981,003**
[13] C
[51] **Int.Cl. E21B 10/46 (2006.01) E21B 10/42 (2006.01) E21B 10/43 (2006.01)**
[25] EN
[54] **BIT INCORPORATING DUCTILE INSERTS**
[54] **TREPAN INCORPORANT DES PIECES RAPPORTEES DUCTILES**
[72] OLSEN, GARRETT T., US
[72] COOK, GRANT O., III, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2017-09-26
[86] 2015-05-07 (PCT/US2015/029735)
[87] (WO2016/178693)

---

[11] **2,981,314**
[13] C
[51] **Int.Cl. A01F 29/22 (2006.01) B02C 18/18 (2006.01)**
[25] FR
[54] **SELF-SHARPENING KNIFE**
[54] **COUTEAU AUTO-AIGUISANT**
[72] BERNARD, VINCENT, CA
[73] BERNARD, VINCENT, CA
[86] (2981314)
[87] (2981314)
[22] 2017-10-04

---

[11] **2,982,021**
[13] C
[51] **Int.Cl. B21D 53/04 (2006.01) B23K 1/00 (2006.01) B23K 1/008 (2006.01) B23K 35/02 (2006.01) F28D 1/03 (2006.01) F28D 9/00 (2006.01) F28F 3/10 (2006.01) F28F 9/18 (2006.01) F28F 21/08 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING A PLATE HEAT EXCHANGER**
[54] **PROCEDE DE PRODUCTION D'UN ECHANGEUR DE CHALEUR A PLAQUES**
[72] SJODIN, PER, SE
[73] ALFA LAVAL CORPORATE AB, SE
[85] 2017-10-06
[86] 2016-03-11 (PCT/EP2016/055296)
[87] (WO2016/162168)
[30] EP (15162693.4) 2015-04-07
[30] EP (15199686.5) 2015-12-11

[11] **2,982,144**
[13] C
[51] **Int.Cl. F28F 13/08 (2006.01) F28F 1/02 (2006.01) F28F 3/12 (2006.01)**
[25] EN
[54] **INDIRECT HEAT EXCHANGER**
[54] **ECHANGEUR THERMIQUE INDIRECT**
[72] BEAVER, ANDREW, US
[72] AARON, DAVID ANDREW, US
[72] ROUSSELET, YOHANN LILIAN, US
[73] BALTIMORE AIRCOIL COMPANY, INC., US
[86] (2982144)
[87] (2982144)
[22] 2017-10-11
[30] US (15/291,773) 2016-10-12

[11] **2,982,644**
[13] C
[51] **Int.Cl. H01B 17/00 (2006.01)**
[25] FR
[54] **INSULATOR FOR AERIAL ELECTRICAL WIRES AND PROTECTED LEAKAGE CURRENT DETECTOR**
[54] **ISOLATEUR POUR LIGNES ELECTRIQUES AERIENNES AVEC UN DETECTEUR DE COURANT DE FUITE PROTEGE**
[72] MESPLES, FABRICE, FR
[72] COULLOUDON, FRANCOIS, FR
[73] SEDIVER SA, FR
[86] (2982644)
[87] (2982644)
[22] 2017-10-16
[30] FR (16 60 093) 2016-10-18

[11] **2,984,466**
[13] C
[51] **Int.Cl. A23C 9/123 (2006.01) A23C 3/00 (2006.01) A23C 9/12 (2006.01) A23C 21/00 (2006.01) A23C 21/02 (2006.01)**
[25] EN
[54] **MANUFACTURE OF STRAINED FERMENTED DAIRY PRODUCTS**
[54] **FABRICATION DE PRODUITS LAITIERS FERMENTES EGOUTTES**
[72] DE LA CRUZ, LUIS, US
[72] MCCORMICK, CASEY, US
[72] MARCHAL, LAURENT, FR
[72] SAINT-DENIS, THIERRY, US
[73] COMPAGNIE GERVAIS DANONE, FR
[85] 2017-10-30
[86] 2016-05-03 (PCT/EP2016/059838)
[87] (WO2016/177698)
[30] US (62/158,390) 2015-05-07
[30] US (62/158,386) 2015-05-07
[30] US (62/159,425) 2015-05-11
[30] US (62/159,423) 2015-05-11

[11] **2,986,385**
[13] C
[51] **Int.Cl. A61K 8/39 (2006.01) A61K 8/06 (2006.01) A61K 8/73 (2006.01) A61K 8/81 (2006.01) A61K 8/891 (2006.01) A61Q 5/02 (2006.01)**
[25] EN
[54] **STYLING COMPOSITION COMPRISING A HIGH INTERNAL PHASE EMULSION**
[54] **COMPOSITION DE COIFFAGE COMPRENANT UNE EMULSION A PHASE DISPERSEE ELEVEE**
[72] SASIK, CAMILLE, US
[72] KEEN, NATHAN ANDREW, US
[72] HAWKINS, GEOFFREY, US
[73] ELC MANAGEMENT LLC, US
[85] 2017-11-17
[86] 2016-05-13 (PCT/US2016/032336)
[87] (WO2016/191129)
[30] US (62/166,336) 2015-05-26

[11] **2,987,917**
[13] C
[51] **Int.Cl. B26D 3/11 (2006.01) B26D 3/26 (2006.01) B26D 1/28 (2006.01)**
[25] EN
[54] **SYSTEM FOR CUTTING SPIRAL SHAPED PIECES**
[54] **SYSTEME DE COUPE DE MORCEAUX EN FORME DE SPIRALE**
[72] WALKER, DAVID BRUCE, US
[72] NEEL, ALLEN J., US
[72] ENGLAR, JAMES, US
[72] BOKIDES, DESSA, US
[73] J.R. SIMPLOT COMPANY, US
[85] 2017-11-29
[86] 2016-08-02 (PCT/US2016/045172)
[87] (WO2017/023938)
[30] US (62/201,875) 2015-08-06
[30] US (14/868,987) 2015-09-29

[11] **2,988,064**
[13] C
[51] **Int.Cl. B62D 55/253 (2006.01)**
[25] EN
[54] **CRAWLER**
[54] **CHENILLE**
[72] SUGIHARA, SHINGO, JP
[72] TATEISHI, KENJI, JP
[72] MIZUSAWA, TAKASHI, JP
[73] BRIDGESTONE CORPORATION, JP
[85] 2017-12-01
[86] 2016-06-03 (PCT/JP2016/066690)
[87] (WO2016/195102)
[30] JP (2015-114708) 2015-06-05

[11] **2,989,869**
[13] C
[51] **Int.Cl. G01B 7/14 (2006.01)**
[25] EN
[54] **GAP SENSOR AND GAP MEASURING METHOD**
[54] **DETECTEUR D'ECARTEMENT ET METHODE DE MESURE D'ECARTEMENT**
[72] KYOOKA, YOSHITERU, JP
[72] ABE, MASATO, JP
[73] KYOOKA CO., LTD., JP
[85] 2017-12-22
[86] 2017-07-21 (PCT/JP2017/026528)
[87] (WO2018/216232)
[30] JP (2017-104083) 2017-05-26

[11] **2,990,061**
[13] C
[51] **Int.Cl. C03C 13/02 (2006.01) C03C 3/087 (2006.01)**
[25] EN
[54] **BORON-FREE GLASS FIBER COMPOSITION, GLASS FIBER AND COMPOSITE MATERIAL THEREFROM**
[54] **COMPOSITION DE FIBRE DE VERRE SANS BORE, FIBRE DE VERRE ET MATERIAU COMPOSITE ASSOCIES**
[72] ZHANG, LIN, CN
[72] CAO, GUORONG, CN
[72] XING, WENZHONG, CN
[72] GU, GUIJIANG, CN
[73] JUSHI GROUP CO., LTD., CN
[85] 2017-12-19
[86] 2015-11-12 (PCT/CN2015/094387)
[87] (WO2017/063247)
[30] CN (201510664578.1) 2015-10-15

---

[11] **2,991,508**
[13] C
[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/747 (2015.01) A61P 37/08 (2006.01)**
[25] EN
[54] **USE OF LGG IN THE MANUFACTURE OF A MEDICAMENT FOR THE PREVENTION OR TREATMENT OF RESPIRATORY ALLERGIES**
[54] **UTILISATION DE LGG DANS LA FABRICATION D'UN MEDICAMENT DESTINE A LA PREVENTION OU AU TRAITEMENT D'ALLERGIES RESPIRATOIRES**
[72] HERZ, UDO, DE
[72] RENZ, HARALD, DE
[72] BLUEMER, NICOLE, DE
[72] GARN, HOLGER, DE
[73] MJN U.S. HOLDINGS LLC, US
[86] (2991508)
[87] (2991508)
[22] 2006-03-22
[62] 2,881,536
[30] US (11/144,287) 2005-06-03
[30] US (11/106,792) 2005-04-15

---

[11] **2,994,875**
[13] C
[51] **Int.Cl. G06Q 20/16 (2012.01)**
[25] EN
[54] **ELECTRONIC CERTIFICATE ISSUING NOTIFICATION METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE NOTIFICATION D'EMISSION DE CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-02-06
[86] 2015-07-21 (PCT/CN2015/084696)
[87] (WO2017/012073)

---

[11] **2,995,945**
[13] C
[51] **Int.Cl. G01V 99/00 (2009.01)**
[25] EN
[54] **MECHANISMS-BASED FRACTURE MODEL FOR GEOMATERIALS**
[54] **MODELE DE FRACTURE FONDE SUR DES MECANISMES POUR GEO-MATERIAUX**
[72] HOEINK, TOBIAS, US
[72] ZUBELEWICZ, ALEKSANDER, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2018-02-16
[86] 2016-08-09 (PCT/US2016/046181)
[87] (WO2017/030838)
[30] US (14/831,254) 2015-08-20

---

[11] **3,000,183**
[13] C
[51] **Int.Cl. B60T 17/16 (2006.01) F15B 15/26 (2006.01)**
[25] EN
[54] **AUTOMATIC PARKING BRAKE FOR BODY MOUNTED BRAKE CYLINDER**
[54] **FREIN DE STATIONNEMENT AUTOMATIQUE POUR CYLINDRE DE FREIN MONTE SUR CARROSSERIE**
[72] HUBER, HOWARD, JR., US
[72] NEULIEB, ROBERT, US
[73] NEW YORK AIR BRAKE LLC, US
[86] (3000183)
[87] (3000183)
[22] 2015-09-02
[62] 2,959,725
[30] US (62/044,696) 2014-09-02

---

[11] **3,011,511**
[13] C
[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/10 (2006.01) A61M 1/02 (2006.01)**
[25] EN
[54] **STERILE SOLUTION PRODUCT BAG**
[54] **SAC DE PRODUIT POUR SOLUTIONS STERILES**
[72] BOMGAARS, GRANT ANTHONY, US
[72] KRAUSE, BERND, DE
[72] PASMORE, MARK EDWARD, US
[72] SADOWSKI, MICHAEL JOSEPH, US
[72] DING, YUANPANG SAMUEL, US
[72] LO, YING-CHENG, US
[72] RANALLETTA, JOSEPH VINCENT, US
[73] BAXTER INTERNATIONAL INC., US
[73] BAXTER HEALTHCARE SA, CH
[85] 2018-07-13
[86] 2017-01-20 (PCT/US2017/014253)
[87] (WO2017/127625)
[30] US (62/281,799) 2016-01-22

---

[11] **3,013,456**
[13] C
[51] **Int.Cl. A61F 5/56 (2006.01) A61B 5/00 (2006.01) A61C 19/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TREATING SLEEP APNEA WHILE STRAIGHTENING TEETH**
[54] **SYSTEME ET PROCEDE POUR TRAITER L'APNEE DU SOMMEIL TOUT EN REDRESSANT DES DENTS**
[72] FRANTZ, DONALD, US
[72] FRANTZ, JOSEPH, US
[72] ANDERSON, MARGARET M., US
[73] FRANTZ DESIGN INCORPORATED, US
[73] ANDERSON, MARGARET M., US
[85] 2018-08-01
[86] 2017-02-02 (PCT/US2017/016182)
[87] (WO2017/136530)
[30] US (62/292,249) 2016-02-06
[30] US (15/417,792) 2017-01-27

[11] **3,021,123**
[13] C
[51] **Int.Cl. C22C 21/08 (2006.01) C22F 1/047 (2006.01) C22F 1/05 (2006.01)**
[25] EN
[54] **ALLOY FOR PRESSURE DIE-CASTING**
[54] **ALLIAGE DE COULEE SOUS PRESSION**
[72] WIESNER, STUART, CH
[73] RHEINFELDEN ALLOYS GMBH & CO. KG, DE
[85] 2018-10-15
[86] 2016-05-02 (PCT/EP2016/059722)
[87] (WO2017/182101)
[30] EP (16165977.6) 2016-04-19

[11] **3,022,131**
[13] C
[51] **Int.Cl. E21B 43/34 (2006.01) E21B 43/22 (2006.01) E21B 43/241 (2006.01) E21B 43/38 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS TO PRODUCE SALES OIL IN A SURFACE FACILITY FOR A SOLVENT BASED EOR PROCESS**
[54] **PROCEDE ET APPAREIL DE PRODUCTION DE PETROLE COMMERCIAL DANS UNE INSTALLATION DE SURFACE POUR UN PROCESSUS RAP A BASE DE SOLVANT**
[72] KRAWCHUK, PAUL, CA
[72] EICHHORN, MARK ANTHONY, CA
[72] CRAWFORD, EVAN THOMAS, CA
[72] BAWA, GHARANDIP SINGH, CA
[72] LEE, CASSANDRA AMANDA, CA
[73] N-SOLV CORPORATION, CA
[85] 2018-10-19
[86] 2017-04-20 (PCT/CA2017/000089)
[87] (WO2017/181264)
[30] CA (2,927,978) 2016-04-21

[11] **3,023,470**
[13] C
[51] **Int.Cl. E21B 43/22 (2006.01) E21B 47/07 (2012.01) E21B 43/17 (2006.01) E21B 43/241 (2006.01) E21B 43/30 (2006.01)**
[25] EN
[54] **IN SITU HYDROCARBON MOBILIZATION PROCESS AND SURFACE FACILITY FOR THE SAME**
[54] **PROCEDE DE MOBILISATION D'HYDROCARBURES IN SITU ET INSTALLATION DE SURFACE POUR CE DERNIER**
[72] EICHHORN, MARK ANTHONY, CA
[72] LEE, CASSANDRA AMANDA, CA
[72] KRAWCHUK, PAUL, CA
[72] CANCELLIERE, MICHEL ALEXANDER, CA
[73] N-SOLV CORPORATION, CA
[85] 2018-11-07
[86] 2017-05-18 (PCT/CA2017/000129)
[87] (WO2017/197489)
[30] CA (2,930,617) 2016-05-19

[11] **3,024,083**
[13] C
[51] **Int.Cl. A01K 1/02 (2006.01) A01K 5/00 (2006.01)**
[25] EN
[54] **FARROWING SYSTEM WITH PIGLET BIRTH DETECTION AND METHOD FOR OPERATING THE SAME**
[54] **SYSTEME DE MISE BAS AVEC DETECTION DE NAISSANCE DE PORCELET ET PROCEDE POUR LE FAIRE FONCTIONNER**
[72] LEFEBVRE, ALAIN, CA
[73] JYGA CONCEPT INC., CA
[85] 2018-11-13
[86] 2017-12-01 (PCT/IB2017/057585)
[87] (WO2018/100555)
[30] US (62/429,343) 2016-12-02

[11] **3,025,807**
[13] C
[51] **Int.Cl. E21B 43/34 (2006.01) E21B 43/241 (2006.01) E21B 49/08 (2006.01)**
[25] EN
[54] **METHOD FOR SOLVENT RECOVERY FROM GRAVITY DRAINAGE CHAMBER FORMED BY SOLVENT-BASED EXTRACTION AND APPARATUS TO DO THE SAME**
[54] **PROCEDE DE RECUPERATION DE SOLVANT D'UNE CHAMBRE A DRAINAGE PAR GRAVITE FORMEE PAR EXTRACTION AU SOLVANT ET APPAREIL POUR CELA**
[72] EICHHORN, MARK ANTHONY, CA
[72] CROSBY, ALEX MACKENZIE, CA
[72] BAWA, GHARANDIP SINGH, CA
[72] CRAWFORD, EVAN THOMAS, CA
[72] KRAWCHUK, PAUL, CA
[72] LEE, CASSANDRA AMANDA, CA
[73] N-SOLV CORPORATION, CA
[85] 2018-11-28
[86] 2017-06-01 (PCT/CA2017/000138)
[87] (WO2017/205962)
[30] CA (2,931,907) 2016-06-02

Canadian Applications Open to Public Inspection

June 9, 2019 to June 15, 2019

Demandes canadiennes mises à la disponibilité du public

9 juin 2019 au 15 juin 2019

---

[21] **2,988,241**
[13] A1
[51] **Int.Cl. A01D 57/02 (2006.01) A01D 57/03 (2006.01)**
[25] EN
[54] **HARVESTING TOOL**
[54] **OUTIL DE RECOLTE**
[72] KASTNING, STEVEN R., CA
[72] MCDOUGALL-KASTNING, CHRISA M., CA
[71] KASTNING, STEVEN R., CA
[71] MCDOUGALL-KASTNING, CHRISA M., CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,242**
[13] A1
[51] **Int.Cl. A47B 91/06 (2006.01) A47B 91/12 (2006.01)**
[25] EN
[54] **COVERINGS FOR THE FEET OF CHAIRS**
[54] **REVETEMENT DE PIEDS DE CHAISES**
[72] UNKNOWN, ZZ
[71] DELA PAZ, LINDA J., CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,247**
[13] A1
[51] **Int.Cl. A01C 23/02 (2006.01)**
[25] EN
[54] **FOLDING INJECTOR BOOM FOR LIQUID MANURE SPREADER**
[54] **MAT D'INJECTEUR PLIANT DESTINE A UN EPANDEUR DE FUMIER LIQUIDE**
[72] NUHN, IAN, CA
[71] NUHN INDUSTRIES LTD., CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,276**
[13] A1
[51] **Int.Cl. E04B 2/86 (2006.01) E04G 11/06 (2006.01)**
[25] EN
[54] **STRUCTURAL CONCRETE WALL FORM**
[54] **COFFRAGE DE PAROI DE BETON STRUCTUREL**
[72] NACCARATO, JOHN RALPH, CA
[72] SEVERINI, JOSEPH ANTHONY, CA
[71] CASATA TECHNOLOGIES INC., CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,280**
[13] A1
[51] **Int.Cl. A61F 5/058 (2006.01)**
[25] EN
[54] **ADJUSTABLE SPLINT FOR IMMOBILIZING A JOINT**
[54] **ATELLE AJUSTABLE SERVANT A IMMOBILISER UNE ARTICULATION**
[72] WEBB, RICHARD J., CA
[71] WEBB, RICHARD J., CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,376**
[13] A1
[51] **Int.Cl. B62D 55/08 (2006.01)**
[25] EN
[54] **TRACK ASSEMBLY FOR A MOTORIZED VEHICLE FIELD**
[54] **ASSEMBLAGE DE RAIL DESTINE AU DOMAINE DES VEHICULES MOTORISES**
[72] BOIVIN, DENIS, CA
[71] BOIVIN, DENIS, CA
[22] 2017-12-11
[41] 2019-06-11

---

[21] **2,988,422**
[13] A1
[51] **Int.Cl. B63B 35/73 (2006.01) B63B 1/10 (2006.01)**
[25] EN
[54] **A TRIMARAN SINGLE-PERSON FLAT WATER FISHING CRAFT COMPRISING DUAL OPERATING STATIONS AND A DOUBLE ANCHORING SYSTEM**
[54] **UNE EMBARCATION DE PECHE TRIMARAN PLATE POUR UNE PERSONNE COMPRENANT DES POSTES DE MANOEUVRE DOUBLES ET UN SYSTEME D'ANCRAGE DOUBLE**
[72] UNKNOWN, ZZ
[71] CUNNINGHAM, JOEL R., CA
[22] 2017-12-12
[41] 2019-06-11
[30] US (62597087) 2017-12-11

---

[21] **2,988,445**
[13] A1
[51] **Int.Cl. C22B 21/04 (2006.01) C01B 33/02 (2006.01) C01B 33/037 (2006.01) C22B 5/00 (2006.01)**
[25] EN
[54] **DIRECT PRODUCTION OF ALUMINUM AND SILICON FROM THEIR ORE**
[54] **PRODUCTION DIRECTE D'ALUMINIUM ET DE SILICIUM A PARTIR DE LEUR MINERAI**
[72] UNKNOWN, ZZ
[71] GHULAM, NABI, CA
[22] 2017-12-12
[41] 2019-06-12

[21] **2,988,453**
[13] A1
[51] **Int.Cl. B60D 1/52 (2006.01) B60D 1/06 (2006.01) B60D 1/58 (2006.01)**
[25] FR
[54] **BETWEEN]2[HELP TRAILER HITCH**
[54] **ATTACHE REMORQUE ENTRE]2[HELP**
[72] LAFONTAINE, JEAN, CA
[71] LAFONTAINE, JEAN, CA
[22] 2017-12-12
[41] 2019-06-12

[21] **2,988,458**
[13] A1
[51] **Int.Cl. C10J 3/00 (2006.01) C07C 1/20 (2006.01) C07C 29/151 (2006.01) C07C 37/20 (2006.01) C07C 45/41 (2006.01) C07C 51/16 (2006.01)**
[25] EN
[54] **LEAN COAL AND BIOMASS GASIFICATION 10.2017**
[54] **CHARBON MAIGRE ET GAZEIFICATION DE BIOMASSE 10.2017**
[72] NABI, GHULAM, CA
[71] NABI, GHULAM, CA
[22] 2017-12-11
[41] 2019-06-11

[21] **2,988,462**
[13] A1
[51] **Int.Cl. B08B 9/027 (2006.01) B08B 3/08 (2006.01)**
[25] EN
[54] **METHOD FOR REMOVING FOULING DOWNSTREAM OF AN ODH REACTOR**
[54] **METHODE D'ELIMINATION DE L'ENCRASSEMENT EN AVAL D'UN REACTEUR DE DESHYDROGENATION OXYDATIVE**
[72] SIMANZHENKOV, VASILY, CA
[72] GOODARZNIA, SHAHIN, CA
[72] KIM, YOONHEE, CA
[72] CLAVELLE, ERIC, CA
[71] NOVA CHEMICALS CORPORATION, CA
[22] 2017-12-11
[41] 2019-06-11

[21] **2,988,472**
[13] A1
[51] **Int.Cl. C10B 57/02 (2006.01) C01B 32/956 (2017.01) C01B 3/02 (2006.01) C01B 21/068 (2006.01) C01B 21/072 (2006.01) C10B 33/12 (2006.01) C10J 3/72 (2006.01) C21B 13/00 (2006.01)**
[25] EN
[54] **CONTINUOUS PROCESS STEEL MILL**
[54] **ACIERIE A PROCEDE CONTINU**
[72] NABI, GHULAM, CA
[71] NABI, GHULAM, CA
[22] 2017-12-11
[41] 2019-06-11

[21] **2,988,687**
[13] A1
[51] **Int.Cl. B64C 13/12 (2006.01) B64C 27/22 (2006.01) B64D 31/04 (2006.01)**
[25] FR
[54] **CONTROL ELEMENT, ROTARY-WING AIRCRAFT AND PROCESS**
[54] **ORGANE DE COMMANDE, AERONEF A VOILURE TOURNANTE ET PROCEDE**
[72] BIHEL, JEAN-ROMAIN, FR
[72] SASSI, ZOUHAIR, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2017-12-12
[41] 2019-06-12

[21] **2,988,694**
[13] A1
[51] **Int.Cl. B64C 13/00 (2006.01) B64C 13/08 (2006.01) B64C 13/50 (2006.01)**
[25] FR
[54] **CONTROL ELEMENT FOR AN AIRCRAFT, CORRESPONDING AIRCRAFT AND PILOTING METHOD FOR AN AIRCRAFT**
[54] **DISPOSITIF DE COMMANDE D'UN AERONEF, AERONEF CORRESPONDANT ET METHODE DE PILOTAGE D'UN AERONEF**
[72] HONNORAT, OLIVIER, FR
[72] NEVERS, ROMAIN, FR
[72] KOVEL, ROMAIN, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2017-12-12
[41] 2019-06-12

[21] **2,988,697**
[13] A1
[51] **Int.Cl. E01F 15/00 (2006.01) A63K 3/00 (2006.01) E01F 13/00 (2006.01) E04H 17/14 (2006.01)**
[25] EN
[54] **OPEN EDGE STAND**
[54] **SUPPORT A BORD OUVERT**
[72] CARERI, JOSEPH, CA
[71] CARERI, JOSEPH, CA
[22] 2017-12-13
[41] 2019-06-12
[30] US (15839842) 2017-12-12

[21] **2,988,709**
[13] A1
[51] **Int.Cl. E21B 43/18 (2006.01) E21B 43/16 (2006.01) E21B 43/24 (2006.01) E21B 47/06 (2012.01)**
[25] EN
[54] **LEAN ZONE PRESSURIZATION AND MANAGEMENT FOR UNDERLYING HYDROCARBON RECOVERY OPERATIONS**
[54] **PRESSURISATION EN ZONE PAUVRE ET GESTION DES OPERATIONS DE RECUPERATION D'HYDROCARBURE SOUS-JACENT**
[72] AGHABARATI, HOSSEIN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2017-12-13
[41] 2019-06-13

[21] **2,988,730**
[13] A1
[51] **Int.Cl. E03C 1/12 (2006.01) E04B 1/70 (2006.01)**
[25] EN
[54] **SYSTEM TO PREVENT BASEMENT FLOODING FROM SEWER BACKUP**
[54] **SYSTEME DE PREVENTION DE L'INONDATION D'UN SOUS-SOL A PARTIR D'UN EGOUT**
[72] BRANT, RONALD A., CA
[71] BRANT, RONALD A., CA
[22] 2017-12-13
[41] 2019-06-13

[21] **2,988,733**
[13] A1
[51] **Int.Cl. E06B 1/04 (2006.01) E06B 1/52 (2006.01) E06B 3/46 (2006.01)**
[25] EN
[54] **COMPACT ADJUSTABLE POCKET DOOR FRAME**
[54] **CADRE DE PORTE ESCAMOTABLE AJUSTABLE COMPACT**
[72] LIU, FUZHONG, CA
[72] TITLEY, LUC, CA
[72] CHABOT, JERRY, CA
[72] LOW, LAURENCE, CA
[72] HURTUBISE, ROCH, CA
[71] MOULURE ALEXANDRIA MOULDING INC., CA
[22] 2017-12-13
[41] 2019-06-13

---

[21] **2,988,734**
[13] A1
[51] **Int.Cl. A61L 9/015 (2006.01) A61L 2/20 (2006.01) A61L 9/20 (2006.01) C01B 13/10 (2006.01) C02F 1/50 (2006.01) C02F 1/78 (2006.01) A61L 2/10 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR NEUTRALIZING ODORS AND KILLING SURFACE AND AIRBORNE PATHOGENS IN RECREATIONAL VEHICLE AND MARINE WASTE HOLDING TANKS AND ASSOCIATED VENTING SYSTEMS**
[54] **METHODE ET APPAREIL DE NEUTRALISATION DES ODEURS ET DE SUPPRESSION DES PATHOGENES DANS L'AIR ET SUR LA SURFACE DANS LES RESERVOIRS CONTENANT DES DECHETS DE BATEAU ET VEHICULE RECREATIF ET SYSTEMES D'AERATION ASSOCIES**
[72] UNKNOWN, ZZ
[71] WILLIAMS, JAMES P., US
[71] WILLIAMS, MIKE R., US
[22] 2017-12-13
[41] 2019-06-13

---

[21] **2,988,743**
[13] A1
[51] **Int.Cl. A01K 73/02 (2006.01)**
[25] EN
[54] **MULTI-KITE APPARATUS FOR USE WITH BOTTOM TRAWLS**
[54] **APPAREIL MULTI-VOILE DESTINE A DES CHALUTS DE FOND**
[72] WINGER, PAUL, CA
[72] LEGGE, GEORGE, CA
[72] WALSH, PHILIP, CA
[72] DELOUCHE, HAROLD, CA
[72] PERRY, TARA, CA
[72] GARDNER, ALEX, CA
[72] BAE, CHANWOO, CA
[71] FISHERIES AND MARINE INSTITUTE OF THE MEMORIAL UNIVERSITY, CA
[22] 2017-12-13
[41] 2019-06-13

---

[21] **2,988,756**
[13] A1
[51] **Int.Cl. B01D 27/14 (2006.01) B01J 47/02 (2017.01) C02F 1/28 (2006.01) C02F 1/42 (2006.01)**
[25] EN
[54] **IMPROVED DRINKING WATER FILTER**
[54] **FILTRE D'EAU POTABLE AMELIORE**
[72] ARCHER, VIRGIL LEE, US
[71] ARCHER, VIRGIL LEE, US
[22] 2017-12-13
[41] 2019-06-13

---

[21] **2,988,865**
[13] A1
[51] **Int.Cl. G06F 17/50 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CIRCUIT SIMULATION**
[54] **METHODE ET SYSTEME DE SIMULATION DE CIRCUIT**
[72] TIAN, YU YT, CN
[71] TIAN, YU YT, CA
[22] 2017-12-14
[41] 2019-06-14

---

[21] **2,989,011**
[13] A1
[51] **Int.Cl. A63B 71/02 (2006.01)**
[25] EN
[54] **SELF-ANCHORING BASE FOR A SPORTS FIELD**
[54] **BASE A AUTO-ANCRAGE DESTINEE A UN TERRAIN DE SPORT**
[72] HUBBS, MICHAEL, CA
[72] HUBBS, JACOB, CA
[71] HUBBS, MICHAEL, CA
[71] HUBBS, JACOB, CA
[22] 2017-12-15
[41] 2019-06-15

---

[21] **2,989,016**
[13] A1
[51] **Int.Cl. C23C 4/01 (2016.01) C23C 4/073 (2016.01) C23C 4/08 (2016.01) C23C 4/10 (2016.01) C23C 28/00 (2006.01) F02F 3/10 (2006.01) F02F 3/12 (2006.01)**
[25] EN
[54] **AN ARRANGEMENT OF COATINGS FOR A TWO-STROKE ENGINE PISTON**
[54] **UN ARRANGEMENT DE REVETEMENTS DESTINE A UN PISTON DE MOTEUR A DEUX TEMPS**
[72] BEAUDOIN, MARC-ANTOINE, CA
[71] BEAUDOIN, MARC-ANTOINE, CA
[22] 2017-12-15
[41] 2019-06-15

---

[21] **2,989,018**
[13] A1
[51] **Int.Cl. G01F 1/74 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING WATER CUT MEASUREMENT ACCURACY OF A FLUID**
[54] **SYSTEME ET METHODE D'AMELIORATION DE L'EXACTITUDE DE LA MESURE DE LA PART D'EAU D'UN FLUIDE**
[72] JAMES, BRUCE, CA
[72] GRAHAM, JOHN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2017-12-15
[41] 2019-06-15

[21] **2,989,021**
[13] A1
[51] **Int.Cl. F21V 23/06 (2006.01) F21K 9/00 (2016.01) F21S 4/20 (2016.01) F21S 4/28 (2016.01)**
[25] EN
[54] **ASSEMBLE MECHANISM OF LED LAMP AND DISASSEMBLING METHOD THEREOF**
[54] **MECANISME D'ASSEMBLAGE D'UNE LAMPE A DEL ET METHODE DE DEMONTAGE ASSOCIEE**
[72] ZHENG, ZHAOYONG, CN
[72] PAN, HUANGFENG, CN
[71] SELF ELECTRONICS CO., LTD., CN
[71] SELF ELECTRONICS USA CORPORATION, US
[22] 2017-12-15
[41] 2019-06-15

[21] **2,989,069**
[13] A1
[51] **Int.Cl. C08L 63/00 (2006.01) C08K 3/01 (2018.01) B29C 48/15 (2019.01) H02G 7/20 (2006.01)**
[25] FR
[54] **COMPOSITE, CROSSPIECE COATED WITH THE COMPOSITE AND THEIR USE IN AN ELECTRIC NETWORK**
[54] **COMPOSITE, TRAVERSE ENROBEE DU COMPOSITE ET LEUR UTILISATION DANS UN RESEAU ELECTRIQUE**
[72] LABRECQUE, JEAN-FRANCOIS, CA
[72] SAVOIE, SYLVIO, CA
[71] HYDRO-QUEBEC, CA
[22] 2017-12-13
[41] 2019-06-13

[21] **2,989,071**
[13] A1
[51] **Int.Cl. B65D 47/06 (2006.01)**
[25] EN
[54] **POUR SPOUT**
[54] **BEC VERSEUR**
[72] MASSON, GUESHLY, CA
[71] MASSON, GUESHLY, CA
[22] 2017-12-13
[41] 2019-06-13

[21] **2,989,175**
[13] A1
[51] **Int.Cl. B03B 9/02 (2006.01) C22B 1/00 (2006.01)**
[25] EN
[54] **REDUCING THE NEED FOR TAILINGS STORAGE DAMS IN THE IRON ORE INDUSTRY**
[54] **REDUCTION DU BESOIN DE BARRAGES DE STOCKAGE DE RESIDUS DANS L'INDUSTRIE DU MINERAI DE FER**
[72] FILMER, ANTHONY OWEN, AU
[72] ALEXANDER, DANIEL JOHN, GB
[71] ANGLO AMERICAN SERVICES (UK) LTD, GB
[22] 2017-12-15
[41] 2019-06-15

[21] **2,989,210**
[13] A1
[51] **Int.Cl. A61C 5/40 (2017.01) A61C 5/44 (2017.01) A61C 5/50 (2017.01) A61C 19/02 (2006.01)**
[25] EN
[54] **ENDODONTIC POINT HOLDER**
[54] **SUPPORT DE POINTE ENDODONTIQUE**
[72] MAGNE, LUC, CA
[71] MAGNE, LUC, CA
[22] 2017-12-13
[41] 2019-06-13

[21] **2,989,215**
[13] A1
[51] **Int.Cl. B29D 22/00 (2006.01) A63H 33/00 (2006.01)**
[25] EN
[54] **PROCESS OF MAKING HOLLOW PRODUCTS, ESPECIALLY TOYS OR PET PRODUCTS, AND HOLLOW PRODUCTS MADE WITH THE PROCESS**
[54] **PROCEDE DE FABRICATION DE PRODUITS CREUX, SPECIALEMENT LES JOUETS OU LES PRODUITS POUR ANIMAUX, ET PRODUITS CREUX FAITS A PARTIR DUDIT PROCEDE**
[72] GUPTA, RISHI, US
[72] TROIANO, DANIEL, US
[71] GUPTA, RISHI, US
[71] TROIANO, DANIEL, US
[22] 2017-12-15
[41] 2019-06-15

[21] **2,989,227**
[13] A1
[51] **Int.Cl. A45F 5/00 (2006.01) A45F 5/10 (2006.01)**
[25] EN
[54] **PALM CUSHION (WITH ATTACHED ELASTIC HAND STRAP) FOR EASILY LIFTING AND MOVING HEAVY GROCERY BAGS**
[54] **COUSSIN DE PAUME (ET BANDE DE POIGNET ELASTIQUE ATTACHEE) SERVANT A SOULEVER ET DEPLACER FACILEMENT DES SACS D'EPICERIE LOURDS**
[72] SHER KHAN, ZAIN, CA
[71] SHER KHAN, ZAIN, CA
[22] 2017-12-14
[41] 2019-06-14

[21] **2,989,233**
[13] A1
[51] **Int.Cl. E02B 8/08 (2006.01)**
[25] EN
[54] **ALTERNATING SIDE-BAFFLE FISH LADDER FOR PASSING FISH AT DAMS OR NATURAL BARRIERS**
[54] **ECHELLE A POISSON A CHICANE LATERALE EN ALTERNANCE DESTINEE A FAIRE PASSER LE POISSON DANS LES BARRAGES OU LES BARRIERES NATURELLES**
[72] KYNARD, BOYD, US
[72] KYNARD, BRIAN, US
[71] KYNARD, BOYD, US
[71] KYNARD, BRIAN, US
[22] 2017-12-18
[41] 2019-06-13
[30] US (15/841,158) 2017-12-13

[21] **2,989,357**
[13] A1
[51] **Int.Cl. A01N 25/34 (2006.01) A01P 1/00 (2006.01) A47C 31/00 (2006.01) A61G 7/05 (2006.01) E04F 11/18 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COVERS FOR RAILS**
[54] **COUVERCLES ANTIMICROBIENS DESTINES A DES RAILS**
[72] TRINDER, KENNETH G., II, US
[71] EOS SURFACES, LLC, US
[22] 2017-12-15
[41] 2019-06-15

[21] **2,989,649**
[13] A1
[51] **Int.Cl. E04D 1/30 (2006.01) E04D 1/12 (2006.01) E04D 13/15 (2006.01)**
[25] EN
[54] **GABLE STARTER ROOFING SHINGLE**
[54] **BARDEAU DE TOITURE DE DEBUT DE PIGNON**
[72] VOLK, JACOB, CA
[71] VOLK, JACOB, CA
[22] 2017-12-20
[41] 2019-06-12
[30] US (15/838,412) 2017-12-12

---

[21] **2,990,050**
[13] A1
[51] **Int.Cl. B01D 11/02 (2006.01) B01D 45/12 (2006.01)**
[25] EN
[54] **CONDENSIBLE GAS BOTANICAL EXTRACTION SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES D'EXTRACTION BOTANIQUE DE GAZ CONDENSABLE**
[72] NAHTIGAL, ISTOK GORAZD, CA
[71] MEDRELEAF CORP., CA
[22] 2017-12-21
[41] 2019-06-14
[30] US (15/841,989) 2017-12-14
[30] US (15/842,054) 2017-12-14
[30] US (15/842,088) 2017-12-14

---

[21] **2,990,243**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CANOLA INBRED RESTORER LINE CL2231974R**
[54] **VARIETE DE RESTAURATION DE CANOLA PUR CL2231974R**
[72] SHAW, ERIC E. J., CA
[72] RIPLEY, VAN L., CA
[72] TAHIR, MUHAMMAD, CA
[72] ZHAO, JIANWEI, CA
[72] GORE, SHERRY L., CA
[71] AGRIGENETICS, INC., US
[22] 2017-12-28
[41] 2019-06-14
[30] US (15/841,860) 2017-12-14

---

[21] **2,990,244**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CANOLA INBRED LINE G1562823A**
[54] **VARIETE DE CANOLA AUTOGAME G1562823A**
[72] GINGERA, GREGORY R., CA
[72] KNIEVEL, DONNA, CA
[72] TAHIR, MUHAMMAD, CA
[72] ALAHAKOON, USHAN, CA
[71] AGRIGENETICS, INC., US
[22] 2017-12-28
[41] 2019-06-14
[30] US (15/841,826) 2017-12-14

---

[21] **2,990,258**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **CANOLA INBRED LINE CL169059A**
[54] **VARIETE DE CANOLA AUTOGAME CL169059A**
[72] SHAW, ERIC J., CA
[72] RIPLEY, VAN L., CA
[72] TAHIR, M., CA
[72] ALAHAKOON, USHAN, CA
[71] AGRIGENETICS, INC., US
[22] 2017-12-28
[41] 2019-06-14
[30] US (15/841,845) 2017-12-14

---

[21] **2,991,448**
[13] A1
[51] **Int.Cl. B32B 3/04 (2006.01) A63C 5/056 (2006.01) B32B 3/08 (2006.01) B32B 5/18 (2006.01) B32B 5/32 (2006.01) B63B 5/24 (2006.01) B63B 9/06 (2006.01) B63B 35/79 (2006.01) B68G 5/00 (2006.01)**
[25] EN
[54] **FOAM PRODUCT**
[54] **PRODUIT DE MOUSSE**
[72] YEH, TZONG IN, US
[71] AGIT GLOBAL IP HOLDINGS, LLC, US
[22] 2018-01-10
[41] 2019-06-14
[30] TW (106143967) 2017-12-14

---

[21] **2,992,779**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) H04L 12/18 (2006.01) G01W 1/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR WEATHER SATELLITE CONTENT DELIVERY**
[54] **SYSTEME ET METHODES DE DISTRIBUTION DE CONTENU DE SATELLITE METEOROLOGIQUE**
[72] ALIANI, MAQBOOL, US
[72] GARCIA, ISMAEL, US
[72] SHARE, KATYA, US
[72] SHEVCHENKO, OLEKSIY, US
[72] GERAMI, SHERVIN, US
[71] ATC TECHNOLOGIES, LLC, US
[22] 2018-01-23
[41] 2019-06-14
[30] US (62/598790) 2017-12-14

---

[21] **2,993,748**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **POS SYSTEM WITH WHITE BOX ENCRYPTION KEY SHARING**
[54] **SYSTEME DE PDV COMPRENANT LE PARTAGE DE CLE DE CHIFFREMENT DE CASE BLANCHE**
[72] MURRAY, BRIAN JEREMIAH, US
[71] CLOVER NETWORK, INC., US
[22] 2018-01-30
[41] 2019-06-15
[30] US (15/843,264) 2017-12-15

[21] **2,997,507**
[13] A1
[51] **Int.Cl. B60K 15/00 (2006.01) B60F 5/00 (2006.01) B60K 15/035 (2006.01)**
[25] EN
[54] **SIDE-BY-SIDE OFF-ROAD VEHICLE HAVING A FUEL VAPOR CONTAINMENT SYSTEM**
[54] **VEHICULE HORS ROUTE COTE A COTE A SYSTEME DE CONFINEMENT DE VAPEUR D'ESSENCE**
[72] BASTIEN, KARINE, CA
[72] GIROUARD, CHRISTIAN, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2018-03-06
[41] 2019-06-11
[30] US (62/597,112) 2017-12-11

[21] **3,002,010**
[13] A1
[51] **Int.Cl. C08G 73/10 (2006.01) H01M 4/137 (2010.01) H01G 11/48 (2013.01) H01M 4/60 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **ORGANIC TRIPTYCENE-BASED FRAMEWORKS USEFUL FOR LITHIUM ION BATTERY ELECTRODES**
[54] **STRUCTURES FONCTIONNELLES A BASE DE TRYPTYCENE ORGANIQUE UTILES POUR LES ELECTRODES DE BATTERIE LITHIUM-ION**
[72] SCHON, TYLER BRIAN, CA
[72] SEFEROS, DWIGHT, CA
[72] TILLEY, ANDREW J., AU
[72] AN, SOYOUNG, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[22] 2018-04-18
[41] 2019-06-15
[30] US (62/599,461) 2017-12-15

[21] **3,003,493**
[13] A1
[51] **Int.Cl. B22D 7/12 (2006.01) B32B 7/027 (2019.01) B60P 7/02 (2006.01) B60P 7/08 (2006.01) B65B 25/00 (2006.01)**
[25] EN
[54] **TRANSPORTATION METHOD, SYSTEM AND COVERS**
[54] **METHODE DE TRANSPORT, SYSTEME ET COUVERCLES**
[72] INGRAM, ERIC PAUL, US
[71] PAGE TRANSPORTATION, INC., US
[22] 2018-04-30
[41] 2019-06-15
[30] US (62/599,380) 2017-12-15

[21] **3,006,684**
[13] A1
[51] **Int.Cl. A47G 19/30 (2006.01) B67C 9/00 (2006.01)**
[25] EN
[54] **POUR SPOUT AND A METHOD OF FABRICATION THEREOF**
[54] **BEC VERSEUR ET UNE METHODE DE FABRICATION DUDIT BEC VERSEUR**
[72] MASSON, GUESHLY, CA
[71] MASSON, GUESHLY, CA
[22] 2018-05-29
[41] 2019-06-13
[30] CA (2,989,071) 2017-12-13

[21] **3,007,525**
[13] A1
[51] **Int.Cl. A47C 7/62 (2006.01) A47C 31/00 (2006.01) B64D 11/06 (2006.01)**
[25] EN
[54] **SCREEN**
[54] **ECRAN**
[72] BOVAY, LINDA, US
[71] BOVAY, LINDA, US
[22] 2018-06-07
[41] 2019-06-12
[30] US (62/597,536) 2017-12-12
[30] US (16/001,040) 2018-06-06

[21] **3,009,331**
[13] A1
[51] **Int.Cl. E21B 34/14 (2006.01) E21B 33/13 (2006.01) E21B 34/10 (2006.01)**
[25] EN
[54] **A FLOW CONTROL DEVICE**
[54] **DISPOSITIF DE CONTROLE DE DEBIT**
[72] GIROUX, RICHARD L., US
[72] SEPULVEDA, MICHAEL J., US
[72] SYMMS, JOSHUA VERNON, US
[72] JACOB, JOBBY T., US
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[22] 2018-06-26
[41] 2019-06-11
[30] US (15/838,023) 2017-12-11

[21] **3,014,950**
[13] A1
[51] **Int.Cl. H04L 29/06 (2006.01) H04W 52/02 (2009.01) G08B 29/18 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRANSMITTING AN UPDATED PARTITION STATE TO SENSORS OR DEVICES**
[54] **SYSTEMES ET METHODES DE TRANSMISSION D'UN ETAT DE PARTITION MIS A JOUR A DES CAPTEURS OU DES DISPOSITIFS**
[72] JIANG, HONGYE, US
[72] WANG, YI, US
[72] YANG, BIN, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2018-08-21
[41] 2019-06-14
[30] US (15/842,064) 2017-12-14

[21] **3,015,734**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) H03K 17/14 (2006.01)**
[25] EN
[54] **CIRCUIT AND SYSTEM IMPLEMENTING A POWER SUPPLY CONFIGURED FOR SPARK PREVENTION**
[54] **CIRCUIT ET SYSTEME METTANT EN OEUVRE UNE ALIMENTATION ELECTRIQUE CONFIGUREE POUR LA PREVENTION D'ETINCELLE**
[72] FLIPO, EMMANUEL JOSEPH HENRI, FR
[72] THIBAUT, CHRISTOPHE MAURICE, FR
[71] OVH, FR
[22] 2018-08-29
[41] 2019-06-13
[30] EP (17315010.3) 2017-12-13
[30] EP (17315014.5) 2017-12-13

[21] **3,016,060**
[13] A1
[51] **Int.Cl. H04W 4/08 (2009.01) H04W 12/02 (2009.01) H04W 84/20 (2009.01) H04R 1/10 (2006.01)**
[25] EN
[54] **WIRELESS COMMUNICATION HEADSET SYSTEM**
[54] **SYSTEME DE CASQUE DE COMMUNICATION SANS FIL**
[72] SNAGG, RONALD, US
[71] SNAGG, RONALD, US
[22] 2018-08-31
[41] 2019-06-12
[30] US (15/838,515) 2017-12-12

[21] **3,016,955**
[13] A1
[51] **Int.Cl. G12B 17/08 (2006.01) G01C 21/18 (2006.01) H01L 23/02 (2006.01) H05K 1/18 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR STRESS-SENSITIVE COMPONENT ISOLATION IN SEVERE ENVIRONMENTS**
[54] **DISPOSITIF, SYSTEME ET METHODE D'ISOLATION DE COMPOSANTE SENSIBLE AU STRESS DANS LES ENVIRONNEMENTS DIFFICILES**
[72] BRAMAN, TODD LOREN, US
[72] HANSON, TIMOTHY J., US
[72] TROSKE, TERRANCE, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2018-09-07
[41] 2019-06-11
[30] US (15/837,766) 2017-12-11

[21] **3,017,666**
[13] A1
[51] **Int.Cl. B64C 13/38 (2006.01) B64C 13/50 (2006.01)**
[25] EN
[54] **COMBINED ACTIVE STICK AND CONTROL BOOST ACTUATOR SYSTEM**
[54] **COMBINAISON DE MANCHE ACTIF ET DE MECANISME D'ACTIONNEUR DE STIMULATION DE CONTROLE**
[72] ZIERTEN, DANIEL T., US
[72] ENNS, RUSSELL J., US
[71] THE BOEING COMPANY, US
[22] 2018-09-17
[41] 2019-06-11
[30] US (15/837950) 2017-12-11

[21] **3,018,398**
[13] A1
[51] **Int.Cl. G01F 1/74 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING WATER CUT MEASUREMENT ACCURACY OF A FLUID**
[54] **SYSTEME ET METHODE D'AMELIORATION DE L'EXACTITUDE DE LA MESURE DE LA PART D'EAU D'UN FLUIDE**
[72] JAMES, BRUCE, CA
[72] GRAHAM, JOHN, CA
[71] SUNCOR ENERGY INC., CA
[22] 2018-09-24
[41] 2019-06-15
[30] CA (2,989,018) 2017-12-15

[21] **3,018,700**
[13] A1
[51] **Int.Cl. B60T 8/175 (2006.01) B60W 10/119 (2012.01) B60W 10/188 (2012.01) B60W 30/188 (2012.01) B60F 5/00 (2006.01)**
[25] EN
[54] **FOUR-WHEEL OFF-ROAD VEHICLE HAVING AN ANTI-LOCK BRAKING SYSTEM ASSEMBLY**
[54] **VEHICULE HORS ROUTE A QUATRE ROUES AYANT UN MECANISME DE SYSTEME DE FREINAGE ANTIBLOCAGE**
[72] BEZEAU-TREMBLAY, ANTOINE, CA
[72] NOLIN, CHRISTIAN, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2018-09-26
[41] 2019-06-14
[30] US (62/598,797) 2017-12-14

[21] **3,018,718**
[13] A1
[51] **Int.Cl. B60T 11/00 (2006.01) B60T 7/04 (2006.01) B60T 7/08 (2006.01) B60T 11/16 (2006.01)**
[25] EN
[54] **BRAKING SYSTEM FOR A VEHICLE HAVING HAND AND FOOT BRAKE LEVERS**
[54] **SYSTEME DE FREINAGE D'UN VEHICULE AYANT DES LEVIERS DE FREIN A LA MAIN ET AU PIED**
[72] NOLIN, CHRISTIAN, CA
[72] BEZEAU-TREMBLAY, ANTOINE, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2018-09-26
[41] 2019-06-14
[30] US (62/598,797) 2017-12-14
[30] US (62/711,138) 2018-07-27

[21] **3,019,964**
[13] A1
[51] **Int.Cl. A01C 7/20 (2006.01) A01B 76/00 (2006.01) A01F 25/14 (2006.01)**
[25] EN
[54] **IMPROVED BULK PRODUCT TANK FOR AN AGRICULTURAL IMPLEMENT**
[54] **RESERVOIR DE PRODUIT EN VRAC AMELIORE DESTINE A UN INSTRUMENT ARATOIRE**
[72] CZAPKA, JASON, US
[72] ANDERSON, BRIAN JOHN, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[22] 2018-10-05
[41] 2019-06-14
[30] US (15/842,875) 2017-12-14

[21] **3,020,297**
[13] A1
[51] **Int.Cl. F01D 9/02 (2006.01) F01D 9/04 (2006.01) F01D 25/12 (2006.01)**
[25] EN
[54] **TURBINE SHROUD COOLING**
[54] **REFROIDISSEMENT DE CARENAGE DE TURBINE**
[72] SYNNOTT, REMY, CA
[72] ENNACER, MOHAMMED, CA
[72] PATER, CHRIS, CA
[72] BLOUIN, DENIS, CA
[72] JAIN, KAPILA, CA
[72] MOHAMMADI, FAROUGH, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2018-10-09
[41] 2019-06-13
[30] US (15/840,492) 2017-12-13

[21] **3,020,322**
[13] A1
[51] **Int.Cl. G01S 11/00 (2006.01) H04W 4/029 (2018.01) G01S 5/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR THRESHOLD DETECTION OF A WIRELESS DEVICE**
[54] **SYTEMES ET METHODES DE DETECTION DU SEUIL D'UN DISPOSITIF SANS FIL**
[72] USI, MATTHEW, US
[72] TRUJILLO, TOMAS, US
[72] TRAYNOR, MARK, US
[72] MILLER, DANIEL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[22] 2018-10-10
[41] 2019-06-13
[30] US (62/598,302) 2017-12-13

[21] **3,020,423**
[13] A1
[51] **Int.Cl. F01D 9/04 (2006.01) F01D 25/12 (2006.01) F01D 25/24 (2006.01)**
[25] EN
[54] **TURBINE SHROUD COOLING**
[54] **REFROIDISSEMENT DE CARENAGE DE TURBINE**
[72] SYNNOTT, REMY, CA
[72] ENNACER, MOHAMMED, CA
[72] PATER, CHRIS, CA
[72] BLOUIN, DENIS, CA
[72] JAIN, KAPILA, CA
[72] MOHAMMADI, FAROUGH, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2018-10-10
[41] 2019-06-13
[30] US (15/840,088) 2017-12-13

[21] **3,020,427**
[13] A1
[51] **Int.Cl. F01D 25/12 (2006.01) F01D 9/02 (2006.01) F01D 9/04 (2006.01) F01D 25/24 (2006.01)**
[25] EN
[54] **TURBINE SHROUD COOLINGS**
[54] **REFROIDISSEMENTS DE CARENAGE DE TURBINE**
[72] SYNNOTT, REMY, CA
[72] ENNACER, MOHAMMED, CA
[72] PATER, CHRIS, CA
[72] BLOUIN, DENIS, CA
[72] JAIN, KAPILA, CA
[72] MOHAMMADI, FAROUGH, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2018-10-10
[41] 2019-06-13
[30] US (15/840,498) 2017-12-13

[21] **3,021,112**
[13] A1
[51] **Int.Cl. H01B 13/18 (2006.01) H01B 19/04 (2006.01) H02G 1/12 (2006.01) H02G 5/00 (2006.01) H01B 3/40 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING EPOXY COATED BUS BARS FOR USE IN ELECTRICAL DISTRIBUTION EQUIPMENT**
[54] **METHODE DE PREPARATION DE BARRES OMNIBUS REVETUES D'EPOXYDE DESTINEES A UN EQUIPEMENT DE DISTRIBUTION ELECTRIQUE**
[72] WITTWER, JOHN A., US
[71] SCHNEIDER ELECTRIC USA, INC., US
[22] 2018-10-16
[41] 2019-06-14
[30] US (15/842,037) 2017-12-14

[21] **3,021,120**
[13] A1
[51] **Int.Cl. A24C 5/40 (2006.01) A24D 1/18 (2006.01) A47J 42/34 (2006.01)**
[25] EN
[54] **PERSONAL WEED GRINDER**
[54] **BROYEUSE D'HERBE PERSONNELLE**
[72] GUETTA, LIRAN, IL
[71] GUETTA, LIRAN, IL
[22] 2018-10-17
[41] 2019-06-11
[30] IL (256287) 2017-12-11
[30] IL (261378) 2018-08-26

[21] **3,021,340**
[13] A1
[51] **Int.Cl. B64C 1/36 (2006.01) B33Y 10/00 (2015.01) B32B 3/12 (2006.01) B64C 1/12 (2006.01) B64C 5/06 (2006.01) H01Q 1/42 (2006.01)**
[25] EN
[54] **CORE STRUCTURES FOR COMPOSITE PANELS OF AN AIRCRAFT, COMPOSITE PANELS AND AIRCRAFT INCLUDING THE CORE STRUCTURES, AND METHODS OF MANUFACTURING THE COMPOSITE PANELS**
[54] **STRUCTURES D'AME DE PANNEAUX EN COMPOSITE D'UN AERONEF, PANNEAUX EN COMPOSITE ET AERONEF COMPORTANT LES STRUCTURES D'AME, ET METHODE DE FABRICATION DES PANNEAUX EN COMPOSITE**
[72] BRALEY, DANIEL JOSEPH, US
[72] LYONS, BRETT I., US
[72] GONZE, THOMAS JOSEPH, US
[72] TUCKER, TREVOR E., US
[72] WICK, JANET MARY, US
[72] DECK, ERIC ELDON, US
[72] PETERS, GARRETT B., US
[72] WILLIAMS, NICOLE RENEE, US
[72] BAUER, ANDREW LAWRENCE, US
[71] THE BOEING COMPANY, US
[22] 2018-10-17
[41] 2019-06-12
[30] US (15/838855) 2017-12-12

[21] **3,022,058**
[13] A1
[51] **Int.Cl. H04M 9/08 (2006.01) H04L 12/70 (2013.01) G10L 21/02 (2013.01)**
[25] EN
[54] **CLOUD-BASED ACOUSTIC ECHO CANCELLER**
[54] **ELIMINATEUR D'ECHO ACOUSTIQUE FONDE SUR LE NUAGE**
[72] SCHULZ, DIETER, CA
[71] MITEL NETWORKS CORPORATION, CA
[22] 2018-10-25
[41] 2019-06-11
[30] US (15/837118) 2017-12-11

[21] **3,022,257**
[13] A1
[51] **Int.Cl. F16C 23/00 (2006.01) A01B 71/04 (2006.01) F16C 11/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL TILTING BEARING ASSEMBLY AND IMPROVED SUPPORT BRACKET FOR CONNECTING THE SAME TO AGRICULTURAL EQUIPEMENT**
[54] **ASSEMBLAGE DE SUPPORT D'INCLINAISON AGRICOLE ET MONTANT DE SUPPORT AMELIORE SERVANT A RELIER LEDIT ASSEMBLAGE A L'EQUIPEMENT AGRICOLE**
[72] MARCHESAN, JOSE LUIZ ALBERTO, BR
[71] MARCHESAN IMPLEMENTOS E MAQUINAS AGRICOLAS TATU S.A., BR
[22] 2018-10-25
[41] 2019-06-11
[30] US (15/837,593) 2017-12-11
[30] US (15/944,477) 2018-04-03

[21] **3,022,585**
[13] A1
[51] **Int.Cl. F21V 21/02 (2006.01) F16B 13/04 (2006.01) H02G 3/02 (2006.01) F21K 9/00 (2016.01)**
[25] EN
[54] **FLAT PANEL LIGHT FIXTURE MOUNTING KIT AND METHOD**
[54] **TROUSSE D'INSTALLATION D'APPAREIL D'ECLAIRAGE A PANNEAU PLAT ET METHODE**
[72] COOPER, JAMES A., CA
[71] CANARM LTD., CA
[22] 2018-10-30
[41] 2019-06-12
[30] US (62/597,718) 2017-12-12

[21] **3,022,977**
[13] A1
[51] **Int.Cl. F16B 5/00 (2006.01) H01R 4/2406 (2018.01) B64C 1/12 (2006.01) B64C 3/26 (2006.01) B64D 45/02 (2006.01) H02G 13/00 (2006.01)**
[25] EN
[54] **LIGHTNING PROTECTION IN AIRCRAFTS CONSTRUCTED WITH CARBON FIBER REINFORCED PLASTIC**
[54] **PROTECTION CONTRE LA FOUDRE DANS LES AERONEFS CONSTRUITS EN PLASTIQUE RENFORCE DE FIBRE DE CARBONE**
[72] TUCK, DEREK R., US
[72] BOETTCHER, PHILIPP A., US
[72] SMITH, CARSON ALEXANDER, US
[72] MISCIAGNA, DAVID THOMAS, US
[71] THE BOEING COMPANY, US
[22] 2018-10-31
[41] 2019-06-11
[30] US (15/838008) 2017-12-11

---

[21] **3,023,321**
[13] A1
[51] **Int.Cl. F16S 1/10 (2006.01) B32B 3/08 (2006.01) B64C 1/14 (2006.01) B64C 1/40 (2006.01) E04B 1/84 (2006.01) E04C 2/00 (2006.01)**
[25] EN
[54] **AN ANTI-RESONANT PANEL AND METHODS OF MAKING THE SAME**
[54] **UN PANNEAU ANTI-RESONNANT ET METHODES DE FABRICATION ASSOCIEES**
[72] WESTON, ADAM R., US
[72] MONTGOMERY, JOSHUA M., US
[72] CHANG, CHIA-MING, US
[72] MCKNIGHT, GEOFFREY P., US
[72] SORENSEN, ADAM E., US
[71] THE BOEING COMPANY, US
[22] 2018-11-06
[41] 2019-06-13
[30] US (15/840902) 2017-12-13

---

[21] **3,023,561**
[13] A1
[51] **Int.Cl. E21B 33/129 (2006.01)**
[25] EN
[54] **WELL PLUGS AND ASSOCIATED SYSTEMS AND METHODS**
[54] **BOUCHONS DE PUITS, ET SYSTEMES ET METHODES ASSOCIES**
[72] MHASKAR, NAUMAN H., US
[72] ROCHEN, JAMES, US
[72] ROUGERIE, DAVID B., FR
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[22] 2018-11-08
[41] 2019-06-14
[30] US (15/841,651) 2017-12-14

---

[21] **3,023,710**
[13] A1
[51] **Int.Cl. B65D 81/05 (2006.01) B65D 5/50 (2006.01) B65D 85/20 (2006.01)**
[25] EN
[54] **PACKAGING FOR A MULTIPART LANDSCAPE LIGHTING UNIT**
[54] **EMBALLAGE DE MODULE D'ECLAIRAGE DE PAYSAGEMENT MULTIPIECE**
[72] ALIMUDDIN, LINARSO, US
[72] CHELF, BENTLEY, US
[71] HOME DEPOT INTERNATIONAL, INC., US
[22] 2018-11-09
[41] 2019-06-14
[30] US (15/842,673) 2017-12-14

---

[21] **3,023,756**
[13] A1
[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
[71] PRECISION MOUNTING TECHNOLOGIES LTD., CA
[22] 2018-11-09
[41] 2019-06-12
[30] US (15/937,191) 2018-03-27
[30] US (16/050,249) 2018-07-31

---

[21] **3,023,902**
[13] A1
[51] **Int.Cl. G06F 17/20 (2006.01) G16H 10/20 (2018.01) H04L 12/16 (2006.01)**
[25] EN
[54] **AUTOMATED GENERATION OF WEB FORMS USING FILLABLE ELECTRONIC DOCUMENTS**
[54] **GENERATION AUTOMATISEE DE FORMATS WEB AU MOYEN DE DOCUMENTS ELECTRONIQUES REMPLISSABLES**
[72] WONG, ALFRED KUO HUI, CA
[72] AZER, LAITH, CA
[71] THINK RESEARCH CORPORATION, CA
[22] 2018-11-13
[41] 2019-06-13
[30] US (15/840,733) 2017-12-13

---

[21] **3,024,644**
[13] A1
[51] **Int.Cl. A01C 23/04 (2006.01) A01C 1/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR CONTROLLING PRODUCT TREATMENT FLOW THROUGH DISTRIBUTION LINES**
[54] **SYSTEME DE CONTROLE DU FLUX DE TRAITEMENT DE PRODUIT DANS LES LIGNES DE DISTRIBUTION**
[72] KOWALCHUK, TREVOR, CA
[71] CNH INDUSTRIAL CANADA, LTD., CA
[22] 2018-11-20
[41] 2019-06-15
[30] US (15/843157) 2017-12-15

[21] **3,024,936**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 99/00 (2012.01) B29C 45/14 (2006.01) C09J 7/20 (2018.01)**
[25] EN
[54] **MEDICAL DEVICE WITH OVERMOLDED ADHESIVE PATCH AND METHOD FOR MAKING SAME**
[54] **DISPOSITIF MEDICAL COMPORTANT UNE PIECE ADHESIVE SURMOULEE ET METHODE DE FABRICATION ASSOCIEE**
[72] REED, JEFFREY, US
[72] KNIGHT, JOHN, US
[72] TOWNSEND, SCOTT, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2018-11-22
[41] 2019-06-13
[30] US (15/840,403) 2017-12-13

---

[21] **3,024,948**
[13] A1
[51] **Int.Cl. B64F 5/40 (2017.01)**
[25] EN
[54] **COMPOSITE REPAIR KIT**
[54] **TROUSSE DE REPARATION DE COMPOSITE**
[72] GRIESS, KENNETH H., US
[72] GEORGESON, GARY E., US
[71] THE BOEING COMPANY, US
[22] 2018-11-21
[41] 2019-06-11
[30] US (15/838346) 2017-12-11

---

[21] **3,025,068**
[13] A1
[51] **Int.Cl. E04F 15/10 (2006.01) A63B 6/00 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **INTERLOCKING MODULAR MAT WITH SPONGE INSERT**
[54] **TAPIS MODULAIRE INTERBLOQUANT DOTE D'UNE INSERTION D'EPONGE**
[72] HUSS, PHILIP C., US
[71] WEARWELL, LLC, US
[22] 2018-11-23
[41] 2019-06-15
[30] US (15/843,494) 2017-12-15

---

[21] **3,025,072**
[13] A1
[51] **Int.Cl. H04W 28/08 (2009.01) H04W 40/16 (2009.01) H04W 92/10 (2009.01) H04B 17/318 (2015.01) H04B 3/54 (2006.01)**
[25] EN
[54] **METHOD AND APARATUS FOR PHYSICAL SECURITY OVER A POWER LINE CONNECTION**
[54] **METHODE ET APPAREIL DESTINE A LA SECURITE PHYSIQUE D'UN RACCORD DE LIGNE DE TRANSMISSION D'ELECTRICITE**
[72] NGUYEN, NHA THANH, US
[72] MITCHELL, TIMOTHY M., US
[72] KUMAR, ANIL, US
[71] THE BOEING COMPANY, US
[22] 2018-11-22
[41] 2019-06-15
[30] US (15/843956) 2017-12-15

---

[21] **3,025,074**
[13] A1
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 5/042 (2006.01) A61B 18/14 (2006.01) A61M 25/095 (2006.01)**
[25] EN
[54] **ESTIMATING CARDIAC CATHETER PROXIMITY TO THE ESOPHAGUS**
[54] **ESTIMATION DE LA PROXIMITE DU CATHETER CARDIAQUE ET DE L'OESOPHAGE**
[72] GOVARI, ASSAF, IL
[72] ALTMANN, ANDRES CLAUDIO, IL
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2018-11-23
[41] 2019-06-13
[30] US (15/840,980) 2017-12-13

---

[21] **3,025,093**
[13] A1
[51] **Int.Cl. H04W 40/24 (2009.01) H04W 16/24 (2009.01) H04W 92/02 (2009.01) H04B 7/204 (2006.01)**
[25] EN
[54] **NETWORK DEVICE AND CONTROLLING METHOD THEREOF APPLICABLE FOR MESH NETWORKS**
[54] **DISPOSITIF RESEAU ET METHODE DE CONTROLE ASSOCIEE APPLICABLE AUX RESEAUX MAILLES**
[72] HSIEH, TSUNG-HSIEN, CN
[72] LEE, CHIH-FANG, CN
[71] ARCADYAN TECHNOLOGY CORPORATION, CN
[22] 2018-11-23
[41] 2019-06-15
[30] TW (106144270) 2017-12-15

---

[21] **3,025,529**
[13] A1
[51] **Int.Cl. F02C 7/12 (2006.01) F01D 25/12 (2006.01)**
[25] EN
[54] **FLOW CONTROL IN MODULATED AIR SYSTEMS**
[54] **CONTROLE DU DEBIT DANS LES SYSTEMES D'AIR MODULAIRES**
[72] GRZELECKI, MICHAEL, US
[72] MONTZELLA, MICHAEL, US
[72] WILEY, RENEE M., US
[71] ROLLS-ROYCE CORPORATION, US
[22] 2018-11-28
[41] 2019-06-14
[30] US (15/842,354) 2017-12-14

---

[21] **3,025,543**
[13] A1
[51] **Int.Cl. F01D 25/12 (2006.01) F01D 5/08 (2006.01) F02C 7/12 (2006.01)**
[25] EN
[54] **MODULATED COOLING AIR CONTROL SYSTEM AND METHOD FOR A TURBINE ENGINE**
[54] **SYSTEME DE CONTROLE D'AIR DE REFROIDISSEMENT MODULE ET METHODE DESTINES A UNE TURBINE A GAZ**
[72] GRZELECKI, MICHAEL, US
[72] MONZELLA, MICHAEL, US
[72] WILEY, RENEE M., US
[71] ROLLS-ROYCE CORPORATION, US
[22] 2018-11-28
[41] 2019-06-14
[30] US (15/842,350) 2017-12-14

[21] **3,025,548**
[13] A1
[51] **Int.Cl. H02H 3/08 (2006.01) G06F 1/28 (2006.01) H02J 13/00 (2006.01) H03K 17/56 (2006.01)**
[25] EN
[54] **CIRCUIT AND SYSTEM IMPLEMENTING A SMART FUSE FOR A POWER SUPPLY**
[54] **CIRCUIT ET SYSTEME METTANT EN OEUVRE UN FUSIBLE INTELLIGENT DESTINE A UNE_ALIMENTATION ELECTRIQUE**
[72] FLIPO, EMMANUEL JOSEPH HENRI, FR
[72] THIBAUT, CHRISTOPHE MAURICE, FR
[71] OVH, FR
[22] 2018-11-28
[41] 2019-06-13
[30] EP (17315014.5) 2017-12-13

[21] **3,025,741**
[13] A1
[51] **Int.Cl. H05B 37/02 (2006.01) H04B 17/318 (2015.01) H04W 4/80 (2018.01) F21S 2/00 (2016.01)**
[25] EN
[54] **HEURISTIC OCCUPANCY AND NON-OCCUPANCY DETECTION IN A LIGHTING SYSTEM**
[54] **DETECTION D'OCCUPATION ET D'INOCCUPATION HEURISTIQUES DANS LE SYSTEME D'ECLAIRAGE**
[72] MIU, MICHAEL, US
[72] JOHNSON, ERIC J., US
[72] LU, MIN-HAO MICHAEL, US
[71] ABL IP HOLDING LLC, US
[22] 2018-11-29
[41] 2019-06-13
[30] US (15/840,616) 2017-12-13

[21] **3,026,069**
[13] A1
[51] **Int.Cl. B64C 25/26 (2006.01) B64C 25/14 (2006.01)**
[25] FR
[54] **MANEUVER PROCESS FOR AIRCRAFT LANDING GEAR BETWEEN A DEPLOYED POSITION AND A RETRACTED POSITION**
[54] **PROCEDE DE MANOEUVRE D'UN ATTERRISSEUR D'AERONEF ENTRE UNE POSITION DEPLOYEE ET UNE POSITION RETRACTEE**
[72] HENRION, PHILIPPE, FR
[72] DUBOIS, SEBASTIEN, FR
[72] EUZET, BERTRAND, FR
[72] QUENERCH'DU, MARC, FR
[71] SAFRAN LANDING SYSTEMS, FR
[22] 2018-11-29
[41] 2019-06-11
[30] FR (1761956) 2017-12-11

[21] **3,026,104**
[13] A1
[51] **Int.Cl. B65B 11/50 (2006.01) B65B 25/00 (2006.01) B65D 35/28 (2006.01) B65D 85/60 (2006.01)**
[25] EN
[54] **SPOUTED SACHET**
[54] **SACHET A BEC VERSEUR**
[72] GROSS-JOHNSTON, CALLIE, US
[72] CHARD, LAUREN, US
[72] BURNS, WILLIAM, US
[71] H.J. HEINZ COMPANY BRANDS LLC, US
[22] 2018-11-30
[41] 2019-06-12
[30] US (62/597835) 2017-12-12
[30] US (15/941782) 2018-03-30

[21] **3,026,128**
[13] A1
[51] **Int.Cl. B60S 5/00 (2006.01) B62D 65/00 (2006.01)**
[25] EN
[54] **SYSTEM AND PROCESS FOR COLLISION REPAIR OF MOTOR VEHICLES**
[54] **SYSTEME ET PROCEDE DE REPARATION DE COLLISION DE VEHICULES A MOTEUR**
[72] GIARRIZZO, MICHAEL JR., US
[72] ROBERTS, MARTIN GERARD, US
[71] DCR IP COMPANY, LLC, US
[22] 2018-12-03
[41] 2019-06-11
[30] US (15/838,084) 2017-12-11

[21] **3,026,300**
[13] A1
[51] **Int.Cl. G16H 20/00 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPOID DEPENDENCY-ADDICTION TREATMENT**
[54] **METHODE ET SYSTEME DE TRAITEMENT DE LA DEPENDANCE AUX OPIOIDES**
[72] ROD, KEVIN, CA
[71] ASTERION BIOMED INC., CA
[22] 2018-11-29
[41] 2019-06-15
[30] US (15/843,940) 2017-12-15

[21] **3,026,302**
[13] A1
[51] **Int.Cl. A61N 7/00 (2006.01) A61H 23/02 (2006.01)**
[25] EN
[54] **HAND-HELD BATTERY-OPERATED THERAPEUTIC ULTRASONIC DEVICE**
[54] **DISPOSITIF ULTRASONIQUE THERAPEUTIQUE MANUEL FONCTIONNANT A PILE**
[72] ZERESHKIAN, GHOLAM HOSSEIN, CA
[72] TAVAKKOLI, JAHANGIR, CA
[72] ROD, KEVIN, CA
[71] ZERESHKIAN, GHOLAM HOSSEIN, CA
[71] TAVAKKOLI, JAHANGIR, CA
[71] ASTERION BIOMED INC., CA
[22] 2018-11-29
[41] 2019-06-15
[30] US (15/843,898) 2017-12-15

[21] **3,026,501**
[13] A1
[51] **Int.Cl. C01B 23/00 (2006.01) B01D 53/22 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR OBTAINING PURE HELIUM**
[54] **PROCEDE ET INSTALLATION DESTINES A L'OBTENTION D'HELIUM PUR**
[72] BAUER, MARTIN, DE
[72] SCHIFFMANN, PATRICK, DE
[71] LINDE AKTIENGESELLSCHAFT, DE
[22] 2018-12-05
[41] 2019-06-12
[30] EP (17020570.2) 2017-12-12

[21] **3,026,526**
[13] A1
[51] **Int.Cl. B64D 5/00 (2006.01) B64C 37/02 (2006.01) B64C 39/02 (2006.01) B64D 39/00 (2006.01)**
[25] EN
[54] **UNMANNED AERIAL VEHICLES**
[54] **VEHICULES AERIENS SANS PILOTE**
[72] RUSSELL, IAIN, GB
[71] RUSSELL, IAIN, GB
[22] 2018-12-05
[41] 2019-06-14
[30] GB (GB1720915.6) 2017-12-14
[30] GB (GB1802098.2) 2018-02-08

---

[21] **3,026,528**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) C12Q 1/6897 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A01N 25/32 (2006.01) A01N 33/22 (2006.01) A01N 37/48 (2006.01) A01N 41/06 (2006.01) A01N 43/54 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 43/836 (2006.01) A01N 43/84 (2006.01) A01N 43/90 (2006.01) A01P 13/00 (2006.01) C12N 9/02 (2006.01) C12N 15/53 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR PPO HERBICIDE TOLERANCE**
[54] **METHODES ET COMPOSITIONS DE TOLERANCE A L'HERBICIDE PPO**
[72] LARUE, CLAYTON T., US
[72] MOSHIRI, FARHAD, US
[72] REAM, JOEL E., US
[72] ZHOU, XUEFENG, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2018-12-05
[41] 2019-06-15
[30] US (62/599,386) 2017-12-15

---

[21] **3,026,681**
[13] A1
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 18/14 (2006.01) A61M 25/095 (2006.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACE(GUI) FOR DISPLAYING ESTIMATED CARDIAC CATHETER PROXIMITY TO THE ESOPHAGUS**
[54] **INTERFACE UTILISATEUR GRAPHIQUE DESTINEE A L'AFFICHAGE DE LA PROXIMITE ESTIMEE ENTRE LE CATHETER CARDIAQUE ET L'OESOPHAGE**
[72] GOVARI, ASSAF, IL
[72] OZERI, ELLA, IL
[72] ALTMANN, ANDRES CLAUDIO, IL
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2018-12-06
[41] 2019-06-13
[30] US (15/841,009) 2017-12-13

---

[21] **3,026,698**
[13] A1
[51] **Int.Cl. G01N 15/00 (2006.01) G01N 21/31 (2006.01) G01N 21/62 (2006.01)**
[25] EN
[54] **SINGLE PARTICLE ANALYSIS USING OPTICAL DETECTION**
[54] **ANALYSE DE PARTICULE SIMPLE EMPLOYANT LA DETECTION OPTIQUE**
[72] STEPHAN, SHADY, US
[72] BAZARGAN, SAMAD, US
[71] PERKINELMER HEALTH SCIENCES CANADA, INC., CA
[22] 2018-12-06
[41] 2019-06-09
[30] US (62/596,812) 2017-12-09
[30] US (16/209,140) 2018-12-04

---

[21] **3,026,699**
[13] A1
[51] **Int.Cl. G01N 15/10 (2006.01) G01N 1/28 (2006.01) G01N 15/14 (2006.01)**
[25] EN
[54] **SYSTEMS INCLUDING A CELL ANALYZER COUPLED TO A MASS SPECTROMETER AND METHODS USING THE SYSTEMS**
[54] **SYSTEMES COMPRENANT UN ANALYSEUR DE CELLULE COUPLE A UN SPECTROMETRE DE MASSE ET METHODES D'UTILISATION DES SYSTEMES**
[72] STEPHAN, CHADY, US
[72] MERRIFIELD, RUTH, US
[71] PERKINELMER HEALTH SCIENCES CANADA, INC., CA
[22] 2018-12-06
[41] 2019-06-09
[30] US (62/596,811) 2017-12-09
[30] US (16/209,130) 2018-12-04

---

[21] **3,026,702**
[13] A1
[51] **Int.Cl. E05B 17/20 (2006.01) E05B 15/10 (2006.01)**
[25] EN
[54] **HOOK BOLT FOR DOOR LOCK**
[54] **PENE EN CROCHET DESTINE A UNE SERRURE DE PORTE**
[72] PALMIERI, ERIC, US
[72] GERACI, ANDREW S., US
[72] SANGSTER, RICHARD D., JR., US
[72] BOGDANOV, VICTOR, US
[72] RILEY, DANIEL W., US
[72] PIANTEK, RYAN, US
[71] SARGENT MANUFACTURING COMPANY, US
[22] 2018-12-06
[41] 2019-06-11
[30] US (62/597088) 2017-12-11
[30] US (16/185386) 2018-11-09

[21] **3,026,724**
[13] A1
[51] **Int.Cl. C01C 1/04 (2006.01) C01C 1/02 (2006.01)**
[25] EN
[54] **SYNTHESIS OF AMMONIA WITH INTERNAL COOLING CIRCUIT**
[54] **SYNTHESE D'AMMONIAC A L'AIDE D'UN CIRCUIT DE REFROIDISSEMENT INTERNE**
[72] HEINZEL, ALBRECHT, DE
[72] HASELSTEINER, THOMAS, DE
[72] ETTNER, FLORIAN, DE
[71] LINDE AKTIENGESELLSCHAFT, DE
[22] 2018-12-07
[41] 2019-06-14
[30] DE (102017011601.6) 2017-12-14

[21] **3,026,832**
[13] A1
[51] **Int.Cl. B28C 5/38 (2006.01)**
[25] EN
[54] **BONE CEMENT MIXING DEVICE WITH SPACER IN AN AMPOULE RECEPTACLE**
[54] **DISPOSITIF DE MELANGE DE CIMENT ORTHOPEDIQUE DOTE D'UN ESPACEUR DANS UN RECEPTACLE D'AMPOULE**
[72] KLUGE, THOMAS, DE
[72] STRATHAUSEN, RAINER, DE
[72] VOGT, SEBASTIAN, DE
[71] HERAEUS MEDICAL GMBH, DE
[22] 2018-12-07
[41] 2019-06-15
[30] DE (10 2017 130 084.8) 2017-12-15

[21] **3,026,835**
[13] A1
[51] **Int.Cl. A01G 31/02 (2006.01) A01G 7/04 (2006.01) A01G 9/20 (2006.01) A01G 9/26 (2006.01) A01G 15/00 (2006.01) F24F 11/00 (2018.01) H05B 37/02 (2006.01)**
[25] EN
[54] **ENVIRONMENTAL MICROCLIMATE GROWTH CHAMBER AND METHOD**
[54] **CHAMBRE DE CROISSANCE A MICRO CLIMAT ENVIRONNEMENTAL ET METHODE**
[72] SPENCE, IAN, CA
[71] SPENCE, IAN, CA
[22] 2018-12-10
[41] 2019-06-12
[30] US (62/597,463) 2017-12-12

[21] **3,026,907**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06F 21/62 (2013.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSYEM AND METHOD FOR IMPLEMENTING EVIDENCE-BASED PRACTICES FOR SOCIAL RESOURCE PLANNING, ALLOCATION AND MANAGEMENT**
[54] **SYSTEME INFORMATIQUE ET METHODE DE MISE EN OEUVRE DE PRATIQUES FONDEES SUR LA PREUVE POUR LA PLANIFICATION, L'ATTRIBUTION ET LA GESTION DE RESSOURCES SOCIALES**
[72] NELSON, LARON E., US
[72] DZONSONS, KRISTAPS T., US
[71] TULIPTREE SYSTEMS, LLC, US
[22] 2018-12-10
[41] 2019-06-10
[30] US (62/596,877) 2017-12-10

[21] **3,026,909**
[13] A1
[51] **Int.Cl. G08G 1/08 (2006.01) G08G 1/127 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REDUCING DELAYS IN ROAD TRAFFIC**
[54] **SYSTEME ET METHODE DE REDUCTION DES RETARDS DANS LE TRAFIC ROUTIER**
[72] HEISE, SEBASTIAN, DE
[71] GRAPHMASTERS SA, CH
[22] 2018-12-10
[41] 2019-06-11
[30] CH (CH01501) 2017-12-11
[30] EP (EP18405020.1) 2018-10-23

[21] **3,026,911**
[13] A1
[51] **Int.Cl. A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 1/06 (2006.01) A01H 5/00 (2018.01) A01H 5/12 (2018.01) A24B 15/00 (2006.01) C12N 15/29 (2006.01) C12N 15/53 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **GENETICALLY MODIFIED TOBACCO**
[54] **TABAC GENETIQUEMENT MODIFIE**
[72] WILLIAMS, JONNIE R., US
[71] MYMD PHARMACEUTICALS, INC., US
[22] 2018-12-10
[41] 2019-06-13
[30] US (62/598,052) 2017-12-13

[21] **3,026,918**
[13] A1
[51] **Int.Cl. G01R 19/00 (2006.01)**
[25] EN
[54] **ENERGY METERING FOR A BUILDING**
[54] **COMPTEUR D'ENERGIE DESTINE A UN IMMEUBLE**
[72] COOK, MARTIN, US
[71] VERIS INDUSTRIES, LLC, US
[22] 2018-12-07
[41] 2019-06-14
[30] US (62/598,814) 2017-12-14

[21] **3,026,925**
[13] A1
[51] **Int.Cl. E21B 33/124 (2006.01) E21B 33/12 (2006.01) E21B 33/128 (2006.01) E21B 33/129 (2006.01)**
[25] EN
[54] **CASED BORE STRADDLE PACKER**
[54] **GARNITURE CHEVAUCHANTE DE FORAGE GAINE**
[72] HRUPP, JOSE J., US
[71] EXACTA-FRAC ENERGY SERVICES, INC., US
[22] 2018-12-10
[41] 2019-06-14
[30] US (62598572) 2017-12-14
[30] US (16197573) 2018-11-21

[21] **3,026,928**
[13] A1
[51] **Int.Cl. E06B 9/02 (2006.01) A01G 9/22 (2006.01) E04B 1/76 (2006.01) E06B 9/262 (2006.01) H01L 45/00 (2006.01)**
[25] EN
[54] **ELECTRICALLY SWITCHABLE SHUTTER**
[54] **VOLET CHANGEABLE ELECTRIQUEMENT**
[72] DIVIGALPITIYA, RANJITH, CA
[72] WHITEHEAD, LORNE A., CA
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[22] 2018-12-10
[41] 2019-06-12
[30] US (62/597514) 2017-12-12

---

[21] **3,026,932**
[13] A1
[51] **Int.Cl. A63B 51/00 (2015.01) A63B 59/20 (2015.01) A63B 65/12 (2006.01) B25J 9/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR STRINGING A LACROSSE HEAD**
[54] **APPAREIL ET METHODE DE CORDAGE D'UNE TETE DE BATON DE CROSSE**
[72] WILLIAMS, DAVID, US
[72] FREAM, DAVID WINTHROP, US
[72] LEGG, GEOF, US
[72] COLVILLE, NICHOLAS, US
[72] CHMELIK, MICHAEL, US
[71] CASCADE MAVERIK LACROSSE, LLC, US
[22] 2018-12-10
[41] 2019-06-11
[30] US (62/597166) 2017-12-11

---

[21] **3,026,933**
[13] A1
[51] **Int.Cl. H04N 21/633 (2011.01) H04N 21/234 (2011.01) H04N 21/643 (2011.01) H04L 12/12 (2006.01) H04L 27/34 (2006.01)**
[25] EN
[54] **ELASTIC SWITCHED DIGITAL VIDEO (SDV) TRAFFIC CONTROL WITH ADAPTIVE BIT RATE STREAMING**
[54] **CONTROLE DE TRAFIC VIDEO NUMERIQUE COMMUTE ELASTIQUE A DIFFUSION EN CONTINU ADAPTATIVE DE DEBIT BINAIRE**
[72] DUBREUIL, THOMAS L., US
[72] HEIMAN, ROBERT S., US
[71] ARRIS ENTERPRISES LLC, US
[22] 2018-12-10
[41] 2019-06-14
[30] US (62/598,663) 2017-12-14

---

[21] **3,026,947**
[13] A1
[51] **Int.Cl. G01N 33/573 (2006.01) G01N 33/577 (2006.01)**
[25] EN
[54] **AN IMPROVED METHOD FOR DIAGNOSING A FUNGAL INFECTION**
[54] **UNE METHODE AMELIOREE DE DIAGNOSTIC D'INFECTION FONGIQUE**
[72] HERBST, VICTOR, DE
[72] HOFFMANN, KATHRIN, DE
[71] EUROIMMUN MEDIZINISCHE LABORDIAGNOSTIKA AG, DE
[22] 2018-12-10
[41] 2019-06-11
[30] EP (17206386.9) 2017-12-11

---

[21] **3,026,985**
[13] A1
[51] **Int.Cl. A47B 87/00 (2006.01) A47B 13/00 (2006.01) A47B 21/06 (2006.01) H02G 3/38 (2006.01)**
[25] EN
[54] **A FURNISHING ITEM COMPRISING A HARNESS ASSEMBLY INTEGRATED**
[54] **UN ELEMENT D'AMEUBLEMENT COMPRENANT UN ASSEMBLAGE DE HARNAIS INTEGRE**
[72] BONUCCELLI, DANTE, IT
[72] TREVISAN, CARLO, IT
[71] UNIFOR S.P.A., IT
[22] 2018-12-10
[41] 2019-06-14
[30] IT (102017000144492) 2017-12-14

---

[21] **3,026,993**
[13] A1
[51] **Int.Cl. F41J 1/00 (2006.01) B65D 5/02 (2006.01) F41J 1/10 (2006.01)**
[25] EN
[54] **BOX TARGET**
[54] **CIBLE BOITE**
[72] DODD, MICHAEL A., US
[71] DODD, MICHAEL A., US
[22] 2018-12-10
[41] 2019-06-11
[30] US (62/597351) 2017-12-11
[30] US (16/213426) 2018-12-07

---

[21] **3,027,051**
[13] A1
[51] **Int.Cl. G01C 21/20 (2006.01) G08B 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING CONFORMANCE OF AN AIRCRAFT TO A REFERENCE 4-DIMENSIONAL TRAJECTORY**
[54] **SYSTEME ET METHODE DE SURVEILLANCE DE LA CONFORMITE D'UN AERONEF A UNE TRAJECTOIRE DE REFERENCE A 4 DIMENSIONS**
[72] VENKATARAMANA, KIRAN MANCHEIAH, US
[72] CHANDRASHEKARAPPA, MOHAN GOWDA, US
[72] THIRULMALAIVENJAMUR, PRASHANTH, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2018-12-11
[41] 2019-06-12
[30] US (15/839345) 2017-12-12

[21] **3,027,056**
[13] A1
[51] **Int.Cl. A61L 2/20 (2006.01) A61L 2/28 (2006.01)**
[25] EN
[54] **FLOW RESTRICTOR**
[54] **DISPOSITIF LIMITEUR D'ECOULEMENT**
[72] FRYER, BEN, US
[71] ETHICON, INC., US
[22] 2018-12-11
[41] 2019-06-15
[30] US (15/844,237) 2017-12-15

[21] **3,027,057**
[13] A1
[51] **Int.Cl. C09D 7/65 (2018.01) C09D 7/61 (2018.01) C09D 17/00 (2006.01)**
[25] EN
[54] **AQUEOUS DISPERSION OF MICROSPHERES P-ACID FUNCTIONALIZED POLYMER PARTICLES**
[54] **DISPERSION AQUEUSE DE PARTICULES DE POLYMERE FONCTIONNALISEES PAR ACIDE P MICROSPHERIQUES**
[72] BOHLING, JAMES C., US
[72] ERYAZICI, IBRAHIM, US
[72] HARSH, PHILIP R., US
[72] MAJUMDAR, PARTHA S., US
[72] NUNGESSER, EDWIN, US
[72] ZHANG, QING, US
[71] ROHM AND HAAS COMPANY, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[22] 2018-12-11
[41] 2019-06-13
[30] US (62/598072) 2017-12-13
[30] US (62/638994) 2018-03-06

[21] **3,027,058**
[13] A1
[51] **Int.Cl. G01N 27/62 (2006.01)**
[25] EN
[54] **WEARABLE DETECTOR FOR FENTANYL AND ITS ANALOGUES**
[54] **DETECTEUR PORTABLE DE FENTANYL ET DE SES ANALOGUES**
[72] NASCON, SABATINO, CA
[71] NASCON, SABATINO, CA
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,367) 2017-12-11

[21] **3,027,059**
[13] A1
[51] **Int.Cl. B65D 30/04 (2006.01) B31B 70/81 (2017.01) B31B 70/86 (2017.01) A45F 3/20 (2006.01) B65D 33/06 (2006.01) B65D 57/00 (2006.01) B65D 75/56 (2006.01)**
[25] EN
[54] **BOTTLE POUCH WITH RIGID HANDLE**
[54] **POCHETTE BOUTEILLE DOTEE D'UNE POIGNEE RIGIDE**
[72] PELLINGRA, SALVATORE J., US
[71] PROAMPAC HOLDINGS INC., US
[22] 2018-12-11
[41] 2019-06-14
[30] US (15/842570) 2017-12-14

[21] **3,027,063**
[13] A1
[51] **Int.Cl. C09D 11/38 (2014.01)**
[25] EN
[54] **CURABLE GELLANT INK**
[54] **ENCRE GELIFIANTE DURCISSABLE**
[72] CHOPRA, NAVEEN, CA
[72] CHRETIEN, MICHELLE N., CA
[72] BELELIE, JENNIFER L., CA
[71] XEROX CORPORATION, US
[22] 2018-12-11
[41] 2019-06-14
[30] US (15/842525) 2017-12-14

[21] **3,027,067**
[13] A1
[51] **Int.Cl. A61C 8/00 (2006.01) A61L 24/00 (2006.01)**
[25] EN
[54] **DENATL IMPLANT**
[54] **IMPLANT DENTAIRE**
[72] BENHAMOU, OLIVIER, BE
[71] SUDDIMPLANT, FR
[22] 2018-12-11
[41] 2019-06-13
[30] BE (BE2017/0171) 2017-12-13

[21] **3,027,069**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) G06T 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DIGITAL CONTENT DELIVERY**
[54] **SYSTEME ET METHODES DE DISTRIBUTION DE CONTENU NUMERIQUE**
[72] ANTONYAN, TIGRAN, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2018-12-11
[41] 2019-06-11
[30] US (15/837815) 2017-12-11

[21] **3,027,073**
[13] A1
[51] **Int.Cl. C10M 171/06 (2006.01)**
[25] EN
[54] **LOW ASH AND ASH-FREE ACID NEUTRALIZING COMPOSITIONS AND LUBRICATING OIL COMPOSITIONS CONTAINING SAME**
[54] **COMPOSITIONS NEUTRALISANTES D'ACIDE EXEMPTES DE CENDRES ET FAIBLES EN CENDRES ET COMPOSITIONS D'HUILE LUBRIFIANTE CONTENANT LESDITES COMPOSITIONS**
[72] EMERT, JACOB, US
[72] TUNDEL, RACHEL E., US
[72] AGARWAL, SANDIP, US
[72] LI, XINHUA, US
[72] MCLELLAN, JOSEPH M., US
[72] REUST, PATRICK W., US
[72] WRIGHT, PETER M., US
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2018-12-11
[41] 2019-06-11
[30] US (15/837,010) 2017-12-11

[21] **3,027,075**
[13] A1
[51] **Int.Cl. C10M 141/08 (2006.01) C10M 133/44 (2006.01) C10M 135/18 (2006.01) C10M 137/10 (2006.01) C10M 141/10 (2006.01)**
[25] EN
[54] **AUTOMOTIVE TRANSMISSION FLUID COMPOSITIONS FOR IMPROVED ENERGY EFFICIENCY**
[54] **COMPOSITIONS DE FLUIDE DE TRANSMISSION D'AUTOMOBILE DESTINEES A AMELIORER L'EFFICACITE ENERGETIQUE**
[72] KIM, HAHN SOO, US
[72] KAHSAR, LAURA A., US
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2018-12-11
[41] 2019-06-11
[30] US (15/836,990) 2017-12-11

---

[21] **3,027,077**
[13] A1
[51] **Int.Cl. G01N 33/52 (2006.01) A61B 5/1172 (2016.01) G01N 21/64 (2006.01)**
[25] EN
[54] **DETECTION OF PHYSICAL FORENSIC EVIDENCE**
[54] **DETECTION DE PREUVE MEDICO-LEGALE PHYSIQUE**
[72] RICHARDSON, JOSEPH J., US
[71] SCILUMINATE TECHNOLOGIES, LLC, US
[22] 2018-12-12
[41] 2019-06-14
[30] US (62/598,533) 2017-12-14

---

[21] **3,027,082**
[13] A1
[51] **Int.Cl. B62D 53/10 (2006.01) B60D 1/64 (2006.01)**
[25] EN
[54] **FIFTH WHEEL ASSEMBLY SAFETY COUPLING ARRANGEMENT**
[54] **DISPOSITIF DE RACCORDEMENT DE SECURITE DE MECANISME DE SELLETTE D'ATTELAGE**
[72] HUNGERINK, GERALD, US
[72] COLBY, DANIEL C., US
[71] SAF-HOLLAND, INC., US
[22] 2018-12-10
[41] 2019-06-11
[30] US (15/837,700) 2017-12-11

---

[21] **3,027,086**
[13] A1
[51] **Int.Cl. B01J 19/24 (2006.01) C07C 2/08 (2006.01)**
[25] FR
[54] **SYSTEM FOR THE DISTRIBUTION OF A LIQUID AND/OR GASEOUS PHASE IN A REACTIONAL ENCLOSURE**
[54] **SYSTEME POUR LA DISTRIBUTION D'UNE PHASE LIQUIDE ET/OU GAZEUSE DANS UNE ENCEINTE REACTIONNELLE**
[72] NIDERKORN, ETIENNE, FR
[72] DELTEIL, JAUFFRAY, FR
[72] VINEL, DANIEL-JEAN, FR
[71] AXENS, FR
[22] 2018-12-10
[41] 2019-06-11
[30] FR (17/61.897) 2017-12-11

---

[21] **3,027,088**
[13] A1
[51] **Int.Cl. A61C 7/08 (2006.01)**
[25] EN
[54] **ORTHODONTIC CORRECTION DEVICE**
[54] **DISPOSITIF DE CORRECTION ORTHODONTIQUE**
[72] HUNG, CHENG-HSIANG, CN
[71] HUNG, CHENG-HSIANG, CN
[22] 2018-12-11
[41] 2019-06-12
[30] US (62/597602) 2017-12-12

---

[21] **3,027,091**
[13] A1
[51] **Int.Cl. B62B 17/02 (2006.01)**
[25] EN
[54] **VENTED SKI WITH MODIFIED KEEL**
[54] **SKI A TALON RELEVE MODIFIE**
[72] OUELLETTE, MICHAEL J., US
[71] OUELLETTE, MICHAEL J., US
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,081) 2017-12-11

---

[21] **3,027,095**
[13] A1
[51] **Int.Cl. B61D 7/20 (2006.01) B61D 7/26 (2006.01)**
[25] EN
[54] **LONGITUDINAL SLIDING GATE FOR HOPPER CAR**
[54] **PORTE COULISSANTE LONGITUDINALE DESTINEE A UN WAGON-TREMIE**
[72] VANDE SANDE, JERRY W., US
[72] MCKISIC, AUBRA D., US
[72] FLOAT, JOSEPH T., US
[72] MADDEN, MICHAEL JAMES, US
[72] GAGLIARDINO, JOSEPH L., US
[71] TRINITY INDUSTRIES, INC., US
[22] 2018-12-11
[41] 2019-06-15
[30] US (62/599,338) 2017-12-15

---

[21] **3,027,098**
[13] A1
[51] **Int.Cl. B62B 13/18 (2006.01) B62B 17/02 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **DEPLOYMENT SYSTEM FOR WHEEL UNITS ON SKI-MOUNTED VEHICLES**
[54] **SYSTEME DE DEPLOIEMENT DE MODULES DE ROUE SUR DES VEHICULES A SKIS**
[72] OUELLETTE, MICHAEL J., US
[71] OUELLETTE, MICHAEL J., US
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/596,940) 2017-12-11

---

[21] **3,027,099**
[13] A1
[51] **Int.Cl. B61D 3/20 (2006.01)**
[25] EN
[54] **TWENTY-FOOT DOUBLE STACK WELL CAR**
[54] **WAGON A DOUBLE ETAGE DE 20 PIEDS**
[72] VANDE SANDE, JERRY W., US
[72] COULBORN, JOHN W. (DECEASED), US
[71] TRINITY NORTH AMERICAN FREIGHT CAR, INC., US
[22] 2018-12-11
[41] 2019-06-12
[30] US (62/597,591) 2017-12-12

[21] **3,027,101**
[13] A1
[51] **Int.Cl. E01H 5/06 (2006.01) E02F 3/815 (2006.01)**
[25] EN
[54] **MATERIAL PUSHER WITH MODULAR COMPOSITE SCRAPING EDGE**
[54] **DISPOSITIF POUSSEUR DE MATERIAU A BORDURE DE RACLAGE EN COMPOSITE MODULAIRE**
[72] GUGGINO, MICHAEL J., US
[72] SHERMAN, BARRY, US
[72] MAIER, THOMAS B., US
[72] MAIER, JAMES, US
[72] MACK, DAVID, US
[72] GERKENSMEYER, TIM L., US
[72] LENNOX, TOM, CA
[71] PRO-TECH MANUFACTURING AND DISTRIBUTION, INC., US
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,136) 2017-12-11

[21] **3,027,133**
[13] A1
[51] **Int.Cl. E01H 5/06 (2006.01) B60D 3/00 (2006.01)**
[25] EN
[54] **MATERIAL PUSHER WITH FLOATING COUPLER**
[54] **DISPOSITIF POUSSEUR DE MATERIAU A RACCORD FLOTTANT**
[72] GUGGINO, MICHAEL J., US
[72] SHERMAN, BARRY, US
[72] MAIER, THOMAS B., US
[72] MAIER, JAMES, US
[72] MACK, DAVID, US
[71] PRO-TECH MANUFACTURING AND DISTRIBUTION, INC., US
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,136) 2017-12-11

[21] **3,027,139**
[13] A1
[51] **Int.Cl. E01H 5/06 (2006.01) E02F 3/815 (2006.01)**
[25] EN
[54] **MATERIAL PUSHER WITH FLOATING COUPLING AND MODULAR COMPOSITE SCRAPING EDGE**
[54] **DISPOSITIF POUSSEUR DE MATERIAU A RACCORD FLOTTANT ET BORDURE DE RACLAGE EN COMPOSITE MODULAIRE**
[72] GUGGINO, MICHAEL J., US
[72] SHERMAN, BARRY, US
[72] MAIER, THOMAS B., US
[72] MAIER, JAMES, US
[72] MACK, DAVID, US
[72] GERKENSMEYER, TIM L., US
[72] LENNOX, TOM, US
[71] PRO-TECH MANUFACTURING AND DISTRIBUTION, INC., US
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,136) 2017-12-11

[21] **3,027,142**
[13] A1
[51] **Int.Cl. A61B 8/12 (2006.01) A61B 34/20 (2016.01) A61B 5/042 (2006.01) A61M 25/095 (2006.01) G06T 17/20 (2006.01)**
[25] EN
[54] **EPICARDIAL MAPPING**
[54] **CARTOGRAPHIE EPICARDIQUE**
[72] TURGEMAN, AHARON, IL
[72] COHEN, BENJAMIN, IL
[71] BIOSENSE WEBSTER (ISRAEL) INC., IL
[22] 2018-12-11
[41] 2019-06-14
[30] US (15/842,070) 2017-12-14

[21] **3,027,212**
[13] A1
[51] **Int.Cl. H04L 12/24 (2006.01) H04L 12/725 (2013.01) H04L 9/00 (2006.01) H04L 12/12 (2006.01) H04L 12/22 (2006.01) H04L 12/66 (2006.01) H04L 29/14 (2006.01)**
[25] EN
[54] **SYSTEM, APPARATUS AND METHOD FOR PROVIDING A UNIFIED FIREWALL MANAGER**
[54] **SYSTEME, APPAREIL ET METHODE SERVANT A FOURNIR UN GESTIONNAIRE DE PARE-FEU UNIFIE**
[72] SAAVEDRA, PATRICIO HUMBERTO, CA
[72] XIAO, JIE, CA
[72] WANG, YAN, CA
[72] PEREIRA, ARUN, CA
[71] TELOIP INC., CA
[22] 2018-12-12
[41] 2019-06-13
[30] US (15/841,013) 2017-12-13

[21] **3,027,213**
[13] A1
[51] **Int.Cl. F24C 7/08 (2006.01) H05B 1/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PREVENTING COOKTOP FIRES**
[54] **METHODE ET APPAREIL DE PREVENTION DE FEUX DE TABLE DE CUISSON**
[72] BAAS, STEVEN, US
[72] PRYOR, WILLIAM MICHAEL, US
[71] ELECTROLUX HOME PRODUCTS, INC., US
[22] 2018-12-12
[41] 2019-06-12
[30] US (15/838,981) 2017-12-12

[21] **3,027,216**
[13] A1
[51] **Int.Cl. F16B 25/10 (2006.01) E06B 1/56 (2006.01) F16B 19/02 (2006.01)**
[25] EN
[54] **SCREW FOR MOUNTING A WINDOW FRAME OR DOOR FRAME**
[54] **VIS D'INSTALLATION D'UN CADRE DE FENETRE OU D'UN CADRE DE PORTE**
[72] VYBIRALIK, SASCHA, DE
[71] ADOLF WURTH GMBH & CO.KG, DE
[22] 2018-12-12
[41] 2019-06-12
[30] DE (10 2017 129 543.7) 2017-12-12

---

[21] **3,027,217**
[13] A1
[51] **Int.Cl. H04L 12/22 (2006.01) H04W 12/08 (2009.01) H04L 9/00 (2006.01) H04L 12/26 (2006.01)**
[25] EN
[54] **PEER CONNECTION MONITORING OF NETWORK APPLICATIONS**
[54] **SURVEILLANCE DE CONNEXION DE PAIR D'APPLICATIONS RESEAU**
[72] CHITTARO, RON, CA
[72] ROSENQUIST, ERIC, CA
[72] GOODMAN, KEVIN, CA
[71] INTERSET SOFTWARE, INC., CA
[22] 2018-12-12
[41] 2019-06-12
[30] US (62/597,589) 2017-12-12

---

[21] **3,027,218**
[13] A1
[51] **Int.Cl. G06F 7/00 (2006.01) G06F 21/16 (2013.01) G06F 21/64 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FILE FINGERPRINTING**
[54] **SYSTEMES ET METHODES DE CREATION D'EMPREINTE DE FICHIER**
[72] CHITTARO, RON, CA
[72] ROSENQUIST, ERIC, CA
[72] GOODMAN, KEVIN, CA
[72] PILKINGTON, SHAUN, CA
[71] INTERSET SOFTWARE, INC., CA
[22] 2018-12-12
[41] 2019-06-12
[30] US (62/597,624) 2017-12-12

---

[21] **3,027,220**
[13] A1
[51] **Int.Cl. G06F 11/30 (2006.01) G06F 21/16 (2013.01) H04L 12/16 (2006.01) H04L 12/26 (2006.01)**
[25] EN
[54] **TRACKING FILE MOVEMENT IN A NETWORK ENVIRONMENT**
[54] **SUIVI DU MOUVEMENT D'UN FICHIER DANS UN ENVIRONNEMENT DE RESEAU**
[72] CHITTARO, RON, CA
[72] ROSENQUIST, ERIC, CA
[72] GOODMAN, KEVIN, CA
[72] DAIGLE, MARIO, CA
[71] INTERSET SOFTWARE, INC., CA
[22] 2018-12-12
[41] 2019-06-12
[30] US (62/597,786) 2017-12-12
[30] US (62/597,624) 2017-12-12

---

[21] **3,027,243**
[13] A1
[51] **Int.Cl. G01R 33/02 (2006.01) A61B 34/20 (2016.01)**
[25] EN
[54] **IMPROVED TAS SENSOR**
[54] **CAPTEUR TRIAXIAL AMELIORE**
[72] AMIT, MATITYAHU, IL
[72] KIDISHMAN, EDEN, IL
[71] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[22] 2018-12-12
[41] 2019-06-15
[30] US (15/843,837) 2017-12-15

---

[21] **3,027,281**
[13] A1
[51] **Int.Cl. A47B 77/08 (2006.01) E05F 15/00 (2015.01) F24C 5/16 (2006.01) F24C 7/08 (2006.01) F24C 15/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SELECTIVELY COVERING AN APPLIANCE**
[54] **SYSTEME ET METHODE DE REVETEMENT SELECTIF D'UN ELECTROMENAGER**
[72] CLEMENTS, SAMUEL KIRK, US
[72] MAKOWSKY, MARTIN D., US
[72] NOLES, ROGER, US
[72] CHOW, WING TUN, US
[72] LUCIC, EDWARD THOMAS, US
[71] VIKING RANGE, LLC, US
[22] 2018-12-11
[41] 2019-06-12
[30] US (62/597,795) 2017-12-12

---

[21] **3,027,294**
[13] A1
[51] **Int.Cl. E03F 5/042 (2006.01)**
[25] EN
[54] **SYSTEM TO PREVENT BASEMENT FLOODING FROM SEWER BACKUP**
[54] **SYSTEME DE PREVENTION DE L'INONDATION D'UN SOUS-SOL A PARTIR D'UN EGOUT**
[72] BRANT, RONALD A., CA
[71] BRANT, RONALD A., CA
[22] 2018-12-12
[41] 2019-06-13
[30] CA (2,988,730) 2017-12-13

---

[21] **3,027,299**
[13] A1
[51] **Int.Cl. A61F 2/40 (2006.01)**
[25] EN
[54] **SHOULDER PROSTHESIS COMPONENT, SUCH AS A HUMERAL COMPONENT OR A GLENOID COMPONENT, FOR A PATIENT, AND METHOD FOR PRODUCING SUCH A SHOULDER PROSTHESIS COMPONENT FOR A PATIENT**
[54] **COMPOSANTE DE PROTHESE D'EPAULE, COMME UNE COMPOSANTE HUMERALE OU UNE COMPOSANTE GLENOIDE, POUR UN PATIENT, ET METHODE DE PRODUCTION D'UNE TELLE COMPOSANTE DE PROTHESE POUR UN PATIENT**
[72] BOUX DE CASSON, FRANCOIS, FR
[72] CARDON, JEAN-EMMANUEL, FR
[72] LABOULFIE, FLORIAN, FR
[72] NIECHEL, NICOLAS RENAUD, FR
[71] TORNIER, FR
[22] 2018-12-11
[41] 2019-06-12
[30] EP (17 306 747.1) 2017-12-12

---

[21] **3,027,303**
[13] A1
[51] **Int.Cl. B60N 2/60 (2006.01)**
[25] EN
[54] **PROTECTIVE COVER FOR A MOTOR VEHICLE SEAT**
[54] **REVETEMENT PROTECTEUR DESTINE A UN SIEGE DE MOTOCYCLETTE**
[72] WALSER, HANS-KARL, AT
[71] WALSER, HANS-KARL, AT
[22] 2018-12-11
[41] 2019-06-12
[30] AT (A 475/2017) 2017-12-12

[21] **3,027,316**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01) A47J 31/44 (2006.01) B67D 1/08 (2006.01) G09B 21/00 (2006.01)**
[25] EN
[54] **BEVERAGE DISPENSING SYSTEM AND METHOD**
[54] **SYSTEME DE DISTRIBUTION DE BOISSON ET METHODE**
[72] GAGNE, SIMON, CA
[72] BOUCHARD, VINCENT, CA
[72] BELZILE, YVES, CA
[72] BERNAL, OSCAR ENRIQUE, CA
[71] LES ENTREPRISES CAFECTION INC., CA
[22] 2018-12-11
[41] 2019-06-11
[30] US (62/597,122) 2017-12-11

[21] **3,027,383**
[13] A1
[51] **Int.Cl. B01F 7/16 (2006.01) A47J 43/07 (2006.01)**
[25] EN
[54] **AGITATOR DEVICE**
[54] **DISPOSITIF AGITATEUR**
[72] NIENHAUS, BERND, DE
[72] STANGIER, DANIEL, DE
[72] GREBE, THORSTEN, DE
[72] LAST, WOLFGANG, DE
[72] ROHN, NICOLE, DE
[71] EKATO RUEHR-UND MISCHTECHNIK GMBH, DE
[22] 2018-12-12
[41] 2019-06-13
[30] DE (10 2017 129 836.3) 2017-12-13

[21] **3,027,397**
[13] A1
[51] **Int.Cl. H02J 50/12 (2016.01) H02J 50/80 (2016.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR WIRELESS POWER TRANSMISSION**
[54] **SYSTEMES ET METHODES DE TRANSMISSION D'ALIMENTATION SANS FIL**
[72] VITAL DE CAMPOS DE FREITAS, SUSANNA, CA
[72] DOMINGOS, FABIANO CEZAR, CA
[72] BOROUJENI, RASHID MIRZAVAND, CA
[72] BAFROOEI, PEDRAM MOUSAVI, CA
[71] WIDYNE TECHNOLOGIES INC., CA
[22] 2018-12-12
[41] 2019-06-14
[30] US (62/598,884) 2017-12-14

[21] **3,027,399**
[13] A1
[51] **Int.Cl. A47J 43/12 (2006.01) A47J 31/44 (2006.01)**
[25] EN
[54] **MILK FROTHING METHOD, SYSTEM, AND APPARATUS**
[54] **METHODE DE MOUSSAGE DE LAIT, SYSTEME ET APPAREIL**
[72] HENDRICKSON, KYLE JOHAN, US
[72] HILLIARD, SILAS, US
[71] HENDRICKSON, KYLE JOHAN, US
[71] HILLIARD, SILAS, US
[22] 2018-12-12
[41] 2019-06-12
[30] US (62/597,813) 2017-12-12

[21] **3,027,402**
[13] A1
[51] **Int.Cl. B64C 25/28 (2006.01) B64F 5/60 (2017.01)**
[25] EN
[54] **LANDING GEAR CONTROLLER**
[54] **CONTROLEUR DE TRAIN D'ATTERRISSAGE**
[72] FLINTON, DAVID, GB
[71] AIRBUS OPERATIONS LIMITED, GB
[22] 2018-12-13
[41] 2019-06-14
[30] GB (1720906.5) 2017-12-14

[21] **3,027,406**
[13] A1
[51] **Int.Cl. H01M 8/0245 (2016.01)**
[25] EN
[54] **FUEL CELL SEPARATOR**
[54] **SEPARATEUR DE PILE A COMBUSTIBLE**
[72] SEGUCHI, TSUYOSHI, JP
[72] IKEDA, KOUTARO, JP
[72] SHIBATA, YUKIHIRO, JP
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[22] 2018-12-13
[41] 2019-06-14
[30] JP (2017-239807) 2017-12-14

[21] **3,027,408**
[13] A1
[51] **Int.Cl. A61J 7/04 (2006.01) A45D 44/18 (2006.01) A46B 9/04 (2006.01) A46B 17/00 (2006.01) A61C 15/04 (2006.01) A61J 1/03 (2006.01)**
[25] EN
[54] **MEDICATION REMINDER TOOTHBRUSH**
[54] **BROSSE A DENTS A FONCTION DE RAPPEL DE MEDICAMENT**
[72] PATEL, ASHLESHA, US
[71] AP DESIGNS LLC, US
[22] 2018-12-12
[41] 2019-06-12
[30] US (15/839,417) 2017-12-12

[21] **3,027,410**
[13] A1
[51] **Int.Cl. A61B 34/10 (2016.01) A61B 17/17 (2006.01) A61F 2/46 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **PATIENT-SPECIFIC INSTRUMENTATION FOR IMPLANT REVISION SURGERY**
[54] **INSTRUMENTATION PROPRE AU PATIENT DESTINE A UNE CHIRURGIE DE REVISION D'IMPLANT**
[72] CHAV, RAMNADA, CA
[72] NGUYEN, TIN, CA
[72] DUVAL, KARINE, CA
[72] MERETTE, JEAN-SEBASTIEN, CA
[72] COUTURE, PIERRE, CA
[71] ORTHOSOFT, INC., CA
[22] 2018-12-12
[41] 2019-06-12
[30] US (62/597,670) 2017-12-12

[21] **3,027,533**
[13] A1
[51] **Int.Cl. B60K 28/06 (2006.01) B60R 25/20 (2013.01) B60R 25/04 (2013.01)**
[25] EN
[54] **INTERLOCK DEVICE FOR START-STOP ENABLED VEHICLES**
[54] **DISPOSITIF INTERBLOQUANT DESTINE AUX VEHICULES ACTIVES PAR DEMARRAGE-ARRET**
[72] ANDERSON, THOMAS, US
[71] ANDERSON, THOMAS, US
[22] 2018-12-13
[41] 2019-06-13
[30] US (62/777,468) 2018-12-10
[30] US (62/598,044) 2017-12-13
[30] US (62/613,606) 2018-01-04
[30] US (15/936,087) 2018-03-26

[21] **3,027,568**
[13] A1
[51] **Int.Cl. B25B 23/08 (2006.01) B25B 29/00 (2006.01) F16B 39/00 (2006.01)**
[25] EN
[54] **TORQUE RETAINING APPARATUS AND METHOD OF PRODUCTION**
[54] **APPAREIL DE RETENUE DE COUPLE ET METHODE DE PRODUCTION**
[72] LARES, ALAN, US
[71] COLD HEADING COMPANY, US
[22] 2018-12-14
[41] 2019-06-14
[30] US (62/598,887) 2017-12-14

[21] **3,027,569**
[13] A1
[51] **Int.Cl. B65H 35/07 (2006.01)**
[25] EN
[54] **IMPROVED FEED TAPE DISPENSER**
[54] **DISTRIBUTEUR DE RUBAN D'ALIMENTATION AMELIORE**
[72] CARRION, HEIDI, US
[72] MISENER, AARON, US
[71] SHURTECH BRANDS, LLC, US
[22] 2018-12-14
[41] 2019-06-15
[30] US (15/843,572) 2017-12-15

[21] **3,027,570**
[13] A1
[51] **Int.Cl. A41D 27/04 (2006.01) A41D 1/08 (2018.01) A41D 3/00 (2006.01) A41D 13/005 (2006.01) A62B 17/00 (2006.01)**
[25] EN
[54] **HEAT RELEASING GARMENT LINER**
[54] **DOUBLURE DE VETEMENT LIBERANT DE LA CHALEUR**
[72] SCHIERENBECK, ALAN W., US
[72] HINKLE, SKYLAR D., US
[72] SLATER, ROBIN D., US
[72] MOODIE, LINDA M., US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2018-12-13
[41] 2019-06-14
[30] US (62/598911) 2017-12-14
[30] US (16/218717) 2018-12-13

[21] **3,027,586**
[13] A1
[51] **Int.Cl. H04B 17/30 (2015.01) H04W 56/00 (2009.01) H04B 1/16 (2006.01) G01R 23/16 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CROSS-DOMAIN ANALYSIS OF RADIO SYSTEMS**
[54] **APPAREIL ET METHODE D'ANALYSE TRANSDOMAINE DE SYSTEMES RADIO**
[72] WETZKER, ULF, DE
[72] FROTZSCHER, ANDREAS, DE
[72] SPLITT, INGMAR, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[22] 2018-12-13
[41] 2019-06-15
[30] EP (17207785.1) 2017-12-15

[21] **3,027,600**
[13] A1
[51] **Int.Cl. C08F 220/18 (2006.01) C08F 220/14 (2006.01) C08F 290/04 (2006.01) C10M 145/14 (2006.01)**
[25] EN
[54] **VISCOSITY INDEX IMPROVER WITH IMPROVED SHEAR-RESISTANCE AND SOLUBILITY AFTER SHEAR**
[54] **AMELIORATEUR D'INDICE DE VISCOSITE A RESISTANCE AU CISAILLEMENT ET SOLUBILITE APRES CISAILLEMENT AMELIOREES**
[72] KLEIN, REBECCA, DE
[72] BECKER, HOLGER, DE
[72] JANSSEN, DIETER, DE
[72] SEIBEL, SEBASTIAN, DE
[71] EVONIK OIL ADDITIVES GMBH, DE
[22] 2018-12-13
[41] 2019-06-13
[30] EP (EP17206916) 2017-12-13

[21] **3,027,602**
[13] A1
[51] **Int.Cl. A63C 13/00 (2006.01)**
[25] FR
[54] **SNOWSHOE WITH HYBRID SCULPTURE ELEMENTS**
[54] **RAQUETTE A NEIGE AVEC ELEMENTS DE SCULPTURES HYBRIDES**
[72] SOUYRI, PHILIPPE, FR
[72] IGIER, EMMANUEL, FR
[72] BLOUIN, DAMIEN, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[22] 2018-12-13
[41] 2019-06-15
[30] FR (17 71 370) 2017-12-15

[21] **3,027,603**
[13] A1
[51] **Int.Cl. G08B 29/02 (2006.01) H04W 4/12 (2009.01) H04W 74/08 (2009.01) H04B 17/318 (2015.01)**
[25] EN
[54] **PRIORITY-BASED WIRELESS COLLISION AVOIDANCE AND INTERFERING DEVICE RESPONSE**
[54] **EVITEMENT DE COLLISION SANS FIL FONDE SUR LA PRIORITE ET REPONSE DE DISPOSITIF D'INTERFERENCE**
[72] URBAN, DAVID, US
[72] GILSON, ROSS, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2018-12-14
[41] 2019-06-15
[30] US (15/843,151) 2017-12-15

---

[21] **3,027,604**
[13] A1
[51] **Int.Cl. A61K 9/72 (2006.01) A24F 47/00 (2006.01) A61J 3/10 (2006.01) A61K 36/185 (2006.01) A61M 11/00 (2006.01) B30B 11/00 (2006.01) B30B 11/22 (2006.01)**
[25] EN
[54] **PHYTO MATERIAL TABLET, METHOD AND APPARATUS**
[54] **COMPRIME DE PHYTOMATERIEL, METHODE ET APPAREIL**
[72] TRZECIESKI, MICHAEL ALEXANDER, CA
[71] TRZECIESKI, MICHAEL ALEXANDER, CA
[22] 2018-12-14
[41] 2019-06-14
[30] US (62/598,490) 2017-12-14
[30] US (62/651,922) 2018-04-03

---

[21] **3,027,608**
[13] A1
[51] **Int.Cl. E04F 13/18 (2006.01) E04F 13/21 (2006.01) E04F 21/18 (2006.01)**
[25] EN
[54] **SYSTEM FOR MOUNTING A PLURALITY OF PANELS**
[54] **SYSTEME D'INSTALLATION D'UNE PLURALITE DE PANNEAUX**
[72] LANGEVELD, MICHIEL JACOBUS JOHANNES, NL
[72] FICK, JOHN PAULUS ALFRED, NL
[71] HUNTER DOUGLAS INDUSTRIES B.V., NL
[22] 2018-12-14
[41] 2019-06-14
[30] GB (1720875.2) 2017-12-14

---

[21] **3,027,625**
[13] A1
[51] **Int.Cl. G07C 15/00 (2006.01) G07B 1/00 (2006.01) G07B 5/00 (2006.01)**
[25] EN
[54] **SMART BIN LOTTERY TICKET DISPENSER WITH MODULAR PRINTER BIN**
[54] **DISTRIBUTEUR DE BILLETS DE LOTERIE A BAC INTELLIGENT DOTE D'UN BAC D'IMPRIMANTE MODULAIRE**
[72] KENNEDY, JAMES C., US
[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US
[22] 2018-12-14
[41] 2019-06-15
[30] US (15/843,109) 2017-12-15

---

[21] **3,027,628**
[13] A1
[51] **Int.Cl. B64C 25/60 (2006.01) B64F 5/40 (2017.01)**
[25] EN
[54] **METHOD OF SERVICING AN AIRCRAFT LANDING GEAR SHOCK ABSORBING STRUT**
[54] **METHODE D'ENTRETIEN DE JAMBE ANTICHOC DE TRAIN D'ATTERRISSAGE D'UN AERONEF**
[72] BROWN, ADAM, GB
[72] SMITH, JOHN, GB
[71] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[22] 2018-12-13
[41] 2019-06-13
[30] EP (17207026.0) 2017-12-13

---

[21] **3,027,637**
[13] A1
[51] **Int.Cl. G07C 15/00 (2006.01) G07B 1/00 (2006.01) G07B 5/00 (2006.01)**
[25] EN
[54] **SMART BIN LOTTERY TICKET DISPENSER WITH INTEGRATED CONTROLLER**
[54] **DISTRIBUTEUR DE BILLETS DE LOTERIE A BAC INTELLIGENT DOTE D'UN CONTROLEUR INTEGRE**
[72] KENNEDY, JAMES C., US
[71] SCIENTIFIC GAMES INTERNATIONAL, INC., US
[22] 2018-12-14
[41] 2019-06-15
[30] US (15/843,085) 2017-12-15

---

[21] **3,027,640**
[13] A1
[51] **Int.Cl. D06F 59/00 (2006.01) D06F 59/02 (2006.01)**
[25] EN
[54] **A FORCED AIR APPARATUS**
[54] **UN APPAREIL A AIR FORCE**
[72] SKIFFINGTON, RODNEY, CA
[71] SKIFFINGTON, RODNEY, CA
[22] 2018-12-14
[41] 2019-06-14
[30] CA (2988859) 2017-12-14

---

[21] **3,027,770**
[13] A1
[51] **Int.Cl. B61D 17/00 (2006.01) B61F 1/08 (2006.01)**
[25] FR
[54] **RAILWAY CAR**
[54] **VOITURE DE VEHICULE FERROVIAIRE**
[72] GENDRON, MARC, FR
[72] LALOYAUX, LAURENT, FR
[72] SHARAWI, ALEXANDRE, FR
[72] FLAMENT, PASCAL, FR
[72] DELANNOY, NICOLAS, FR
[71] ALSTOM TRANSPORT TECHNOLOGIES, FR
[22] 2018-12-14
[41] 2019-06-15
[30] FR (17 62246) 2017-12-15

[21] **3,027,775**
[13] A1
[51] **Int.Cl. F28F 25/04 (2006.01) B01J 19/32 (2006.01) F28C 1/00 (2006.01)**
[25] FR
[54] **EXCHANGE COLUMN TRAY WITH AERODYNAMICALLY PROFILED CAPPED GAS CHIMNEYS**
[54] **PLATEAU POUR COLONNE D'ECHANGE COMPRENANT DES CHEMINEES DE GAZ SURMONTEES DE CHAPEAUX AU PROFIL AERODYNAMIQUE**
[72] HAROUN, YACINE, FR
[72] BRAHEM, RIM, FR
[72] ROESLER, JOHN, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2018-12-14
[41] 2019-06-15
[30] FR (17 62 231) 2017-12-15

---

[21] **3,027,820**
[13] A1
[51] **Int.Cl. C09D 195/00 (2006.01) C09D 7/65 (2018.01) B32B 3/08 (2006.01) B32B 11/02 (2006.01) C09D 191/06 (2006.01) E04D 1/22 (2006.01)**
[25] EN
[54] **POLYMER MODIFIED ASPHALT ROOFING MATERIAL**
[54] **MATERIAU DE TOITURE D'ASPHALTE MODIFIE PAR UN POLYMERE**
[72] PLOENSE, DAVID MICHAEL, US
[72] LEWANDOWSKI, LAURAND HENRY, US
[72] LA TORRE, CARMEN ANTHONY, US
[72] HONSVICK, JACOB PAUL, US
[72] KASPRZAK, CHRISTOPHER PATRICK, US
[72] BUCKWALTER, DANIEL JAMES, US
[72] HARRINGTON, EDWARD R., US
[72] DAVIS, JONATHAN ROSS, US
[72] SMITH, WILLIAM EDWIN, US
[72] SCHWEIGER, SCOTT W., US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2018-12-17
[41] 2019-06-15
[30] US (62/599,406) 2017-12-15
[30] US (62/724,417) 2018-08-29

---

[21] **3,027,838**
[13] A1
[51] **Int.Cl. B29C 70/40 (2006.01) A63B 59/70 (2015.01)**
[25] EN
[54] **HOCKEY STICK WITH VARIABLE STIFFNESS SHAFT**
[54] **BATON DE HOCKEY AYANT UNE TIGE A RIGIDITE VARIABLE**
[72] ROUZIER, EDOUARD, CA
[72] CHAMBERT, MARTIN, CA
[71] BAUER HOCKEY LTD., CA
[22] 2018-12-14
[41] 2019-06-14
[30] US (15/842,033) 2017-12-14

---

[21] **3,028,707**
[13] A1
[51] **Int.Cl. A63C 1/30 (2006.01) A43B 5/16 (2006.01) B63B 35/81 (2006.01)**
[25] FR
[54] **WATER SKATES**
[54] **PATINS A L'EAU**
[72] PARE, ANDRE, CA
[71] PARE, ANDRE, CA
[22] 2018-12-24
[41] 2019-06-12

---

[21] **3,033,996**
[13] A1
[51] **Int.Cl. H04W 24/02 (2009.01) H04W 52/02 (2009.01)**
[25] EN
[54] **AUTOMATED DEVICE-SPECIFIC DYNAMIC OPERATION MODIFICATIONS**
[54] **MODIFICATIONS AUTOMATISEES D'OPERATION DYNAMIQUE SPECIFIQUE AU DISPOSITIF**
[72] MILLER, SCOTT ALLEN, US
[72] HERSCH, JESSE, US
[72] CAZZANTI, LUCA, US
[72] DOWNS, OLIVER B., US
[71] AMPLERO, INC., US
[22] 2019-02-13
[41] 2019-06-11
[30] US (16/136,035) 2018-09-19

---

[21] **3,039,179**
[13] A1
[51] **Int.Cl. B65D 85/00 (2006.01) B27N 5/00 (2006.01)**
[25] EN
[54] **BIODEGRADABLE FOOD ARTICLES AND METHODS OF PRODUCING SAME**
[54] **ARTICLES ALIMENTAIRES BIODEGRADABLES ET METHODES DE PRODUCTION ASSOCIEES**
[72] AUFOUJAL, MICHEL, CA
[72] GABAY, JAMES, CA
[71] AECOPAQ INC., CA
[22] 2019-04-03
[41] 2019-06-12
[30] US (62/826,151) 2019-03-29

---

[21] **3,039,436**
[13] A1
[51] **Int.Cl. B65G 65/28 (2006.01) B65G 41/00 (2006.01)**
[25] EN
[54] **RADIAL STACKER WITH ANGLE CONTROL**
[54] **EMPILEUR RADIAL A CONTROLE D'ANGLE**
[72] MCCLOSKEY, JAMES PASCHAL, CA
[72] NOTTINGHAM, AL, CA
[71] MCCLOSKEY INTERNATIONAL LIMITED, CA
[22] 2019-04-04
[41] 2019-06-13
[30] US (16/371,914) 2019-04-01

[21] **3,040,707**
[13] A1
[51] **Int.Cl. E21B 47/24 (2012.01) E21B 47/18 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS OF CREATING PRESSURE PULSES FOR PULSE TELEMETRY FOR MWD TOOLS USING A DIRECT DRIVE HYDRAULIC RAM**
[54] **METHODES ET SYSTEMES DE CREATION D'IMPULSIONS DE PRESSION DESTINES A LA TELEMETRIE PAR IMPULSION POUR LES OUTILS DE MESURE DE FOND PENDANT LE FORAGE EMPLOYANT UN BELIER HYDRAULIQUE A ENTRAINEMENT DIRECT**
[72] ANDERSON, DESMOND, CA
[72] BERBEROV, SALVADOR, CA
[71] STANDARD DIRECTIONAL SERVICES LTD., CA
[22] 2019-04-18
[41] 2019-06-13
[30] US (62/782,667) 2018-12-20
[30] US (16/365,923) 2019-03-27

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **2,997,355**
[13] A1
[51] **Int.Cl. H04N 21/433 (2011.01) H04N 21/472 (2011.01) H04N 21/643 (2011.01)**
[25] EN
[54] **ADVANCED TRICK-PLAY MODES FOR STREAMING VIDEO**
[54] **MODES DE TRUCAGE AVANCES DESTINES A LA DIFFUSION VIDEO EN CONTINU**
[72] LIU, KIM, US
[72] KLAR, MICHAEL F., US
[72] KULICK, TODD M., US
[72] LOGAN, JONATHAN A., US
[71] TIVO SOLUTIONS INC., US
[85] 2018-03-02
[86] 2017-12-14 (PCT/US2017/066294)
[87] (2997355)

---

[21] **2,999,364**
[13] A1
[51] **Int.Cl. F16K 3/03 (2006.01) F16K 31/54 (2006.01)**
[25] EN
[54] **FLOW CONTROL VALVE**
[54] **VANNE DE CONTROLE D'ECOULEMENT**
[72] SAKIZCHI, VADIM MIHAJLOVICH, RU
[72] SOBOLEVSKAJA, SNEZHANA VALEREVNA, RU
[71] SAKIZCHI, VADIM MIHAJLOVICH, RU
[71] SOBOLEVSKAJA, SNEZHANA VALEREVNA, RU
[85] 2019-03-07
[86] 2017-07-07 (PCT/RU2017/000503)
[87] (WO2019/009755)
[30] RU (2017117470) 2017-05-19

---

[21] **3,021,616**
[13] A1
[51] **Int.Cl. B29C 67/00 (2017.01)**
[25] EN
[54] **RESIN RESERVOIR FOR PHOTOCURING FOR USE IN 3D PRINTER AND 3D PRINTER**
[54] **RESERVOIR DE RESINE POUR PHOTODURCISSEMENT DESTINE A ETRE UTILISE DANS UNE IMPRIMANTE 3D ET IMPRIMANTE 3D**
[72] LI, HOUMIN, CN
[72] SONG, XUEYANG, CN
[72] YE, SHANDING, CN
[72] WANG, YIKUN, CN
[72] ZHU, KAIQIANG, CN
[72] XU, BEIBEI, CN
[71] GOLD ARRAY TECHNOLOGY (BEIJING), LLC., CN
[85] 2018-10-19
[86] 2017-06-19 (PCT/CN2017/088989)
[87] (WO2017/219942)
[30] CN (201610461679.3) 2016-06-23

---

[21] **3,028,659**
[13] A1
[51] **Int.Cl. G01S 17/89 (2006.01) B60R 11/04 (2006.01) B60W 30/08 (2012.01) B60W 30/10 (2006.01) B60W 30/12 (2006.01) G01S 13/86 (2006.01) G01S 17/87 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING AND POSITIONING OBJECTS AROUND A VEHICLE**
[54] **SYSTEMES ET METHODES D'IDENTIFICATION ET DE POSITIONNEMENT D'OBJETS AUTOUR D'UN VEHICULE**
[72] LI, JIAN, CN
[72] YING, ZHENZHE, CN
[71] BEIJING DIDI INFINITY TECHNOLOGY AND DEVELOPMENT CO., LTD., CN
[85] 2018-12-28
[86] 2017-12-11 (PCT/CN2017/115491)
[87] (3028659)

---

[21] **3,036,026**
[13] A1
[51] **Int.Cl. B01J 3/04 (2006.01) B08B 3/08 (2006.01)**
[25] EN
[54] **AUTOCLAVE AND METHOD FOR REMOVING SALT FROM AUTOCLAVE**
[54] **AUTOCLAVE ET METHODE D'EXTRACTION DU SEL DE L'AUTOCLAVE**
[72] LEE, JE JOONG, KR
[71] KOREA ZINC CO., LTD., KR
[85] 2019-03-07
[86] 2018-02-14 (PCT/KR2018/001950)
[87] (3036026)
[30] KR (10-2018-0017920) 2018-02-13

---

[21] **3,039,779**
[13] A1
[51] **Int.Cl. A23L 21/12 (2016.01) A23L 29/30 (2016.01)**
[25] EN
[54] **EXTRACT FROM PLANT STEEPED IN ALLULOSE AND PREPARATION METHOD THEREFOR**
[54] **EXTRAIT DE PLANTE CHARGE EN ALLULOSE ET SON PROCEDE DE PREPARATION**
[72] BAK, YOUN KYUNG, KR
[72] KIM, SU JEOUNG, KR
[72] PARK, JUNG GYU, KR
[72] BYUN, SUNG BAE, KR
[72] PARK, SEUNG WON, KR
[72] JUNG, DONG CHUL, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2019-04-08
[86] 2017-06-23 (PCT/KR2017/006629)
[87] (WO2018/070637)
[30] KR (10-2016-0130695) 2016-10-10

[21] **3,044,996**
[13] A1
[51] **Int.Cl. H04N 21/235 (2011.01) H04N 21/435 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SIGNALING OF EMERGENCY ALERT MESSAGES**
[54] **SYSTEMES ET PROCEDES POUR LA SIGNALISATION DE MESSAGES D'ALERTE D'URGENCE**
[72] DESHPANDE, SACHIN G., US
[72] NG, SHEAU, US
[72] SEGALL, CHRISTOPHER ANDREW, US
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2019-05-24
[86] 2017-11-27 (PCT/JP2017/042408)
[87] (WO2018/097288)
[30] US (62/427,137) 2016-11-28

[21] **3,045,006**
[13] A1
[51] **Int.Cl. E21B 34/06 (2006.01) F16K 15/02 (2006.01) F16K 27/02 (2006.01)**
[25] EN
[54] **HYDROSTATIC EQUALIZING STEM CHECK VALVE**
[54] **CLAPET ANTIRETOUR DE TIGE D'EGALISATION HYDROSTATIQUE**
[72] MURPHY, THOMAS, GB
[72] INGLIS, PETER DW, GB
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-05-24
[86] 2017-02-10 (PCT/US2017/017312)
[87] (WO2018/147860)

[21] **3,045,016**
[13] A1
[51] **Int.Cl. G06F 12/00 (2006.01)**
[25] EN
[54] **NOVEL LDPC DECODER DESIGN TO SIGNIFICANTLY INCREASE THROUGHPUT IN ASIC BY UTILIZING PSEUDO TWO PORT MEMORY**
[54] **NOUVELLE CONCEPTION DE DECODEUR LDPC AFIN D'AUGMENTER DE MANIERE IMPORTANTE LE DEBIT DANS UN CIRCUIT INTEGRE SPECIFIQUE A L'AIDE DE PSEUDO-MEMOIRE A DEUX PORTS**
[72] CHEN, LIPING, US
[72] EROZ, MUSTAFA, US
[72] LIU, YANLAI, US
[72] BHAT, SRI, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2019-05-24
[86] 2017-11-22 (PCT/US2017/063050)
[87] (WO2018/098307)
[30] US (15/361,227) 2016-11-25

[21] **3,045,032**
[13] A1
[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01) C07D 413/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/04 (2006.01) C07D 491/14 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **AMINE-SUBSTITUTED HETEROCYCLIC COMPOUNDS AS EHMT2 INHIBITORS AND METHODS OF USE THEREOF**
[54] **COMPOSES HETEROCYCLIQUES SUBSTITUES PAR UNE AMINE UTILISES COMME INHIBITEURS DE L'EHMT2 ET LEURS METHODES D'UTILISATION**
[72] CAMPBELL, JOHN EMMERSON, US
[72] DUNCAN, KENNETH WILLIAM, US
[71] EPIZYME, INC., US
[85] 2019-05-24
[86] 2017-12-19 (PCT/US2017/067192)
[87] (WO2018/118842)
[30] US (62/436,139) 2016-12-19
[30] US (62/517,840) 2017-06-09

[21] **3,045,036**
[13] A1
[51] **Int.Cl. F41B 5/14 (2006.01) F41B 5/10 (2006.01) F41B 5/12 (2006.01)**
[25] EN
[54] **MONITORING SYSTEM FOR AN ARCHERY BOW, MONITORING DEVICES, AND METHODS FOR SAME**
[54] **SYSTEME DE CONTROLE POUR ARC DE TIR A L'ARC, DISPOSITIFS DE CONTROLE ET PROCEDES ASSOCIES**
[72] HAYNES, CLINTON A., US
[72] READ, SHANNON R., US
[72] BULLARD, JOSEPH KRUMME, US
[72] MORROW, DANIEL L., US
[71] STRESS ENGINEERING SERVICES, INC., US
[85] 2019-05-24
[86] 2017-12-20 (PCT/US2017/067637)
[87] (WO2018/119096)
[30] US (62/436,869) 2016-12-20
[30] US (62/476,216) 2017-03-24

[21] **3,045,043**
[13] A1
[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/4174 (2006.01)**
[25] EN
[54] **USE OF SUBLINGUAL DEXMEDETOMIDINE FOR THE TREATMENT OF AGITATION**
[54] **UTILISATION DE DEXMEDETOMIDINE SUBLINGUALE PERMETTANT LE TRAITEMENT DE L'AGITATION**
[72] NANDABALAN, KRISHNAN, US
[72] YOCCA, FRANK, US
[72] SHARMA, SAMEER, US
[71] BIOXCEL THERAPEUTICS, INC., US
[85] 2019-05-24
[86] 2017-12-29 (PCT/US2017/069030)
[87] (WO2018/126182)
[30] US (62/441,164) 2016-12-31
[30] US (62/471,393) 2017-03-15
[30] US (62/542,323) 2017-08-08

[21] **3,045,049**
[13] A1
[51] **Int.Cl. B26B 21/48 (2006.01)**
[25] EN
[54] **HEATING DELIVERY ELEMENT FOR A SHAVING RAZOR**
[54] **ELEMENT DE DISTRIBUTION DE CHALEUR POUR UN RASOIR DE RASAGE**
[72] BROEMSE, NORBERT, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2019-05-24
[86] 2018-01-11 (PCT/US2018/013236)
[87] (WO2018/136284)
[30] EP (17152536.3) 2017-01-20

[21] **3,045,052**
[13] A1
[51] **Int.Cl. B26B 21/48 (2006.01)**
[25] EN
[54] **HEATING MEMBER FOR A SHAVING RAZOR**
[54] **ELEMENT CHAUFFANT POUR RASOIR**
[72] BROEMSE, NORBERT, DE
[71] THE GILLETTE COMPANY LLC, US
[85] 2019-05-24
[86] 2018-01-11 (PCT/US2018/013237)
[87] (WO2018/136285)
[30] EP (17152537.1) 2017-01-20

[21] **3,045,073**
[13] A1
[51] **Int.Cl. A61K 45/06 (2006.01) A23L 29/219 (2016.01) A23L 33/00 (2016.01) A61K 31/718 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NUTRITIONAL COMPOSITION USEFUL IN THE TREATMENT OF NEOPLASTIC DISEASES**
[54] **COMPOSITION NUTRITIONNELLE AVEC DE L'AMIDON RESISTANT UTILE DANS LE TRAITEMENT DE MALADIES NEOPLASIQUES**
[72] PAZIENZA, VALERIO, IT
[71] FONDAZIONE DI RELIGIONE E DI CULTO "CASA SOLLIEVO DELLA SOFFERENZA" - OPERA DI SAN PIO DA PIETRELCINA, IT
[85] 2019-05-27
[86] 2017-11-27 (PCT/EP2017/080468)
[87] (WO2018/096131)
[30] EP (16200981.5) 2016-11-28

[21] **3,045,078**
[13] A1
[51] **Int.Cl. A61K 8/41 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **WRINKLE AMELIORATING AGENT**
[54] **AGENT D'ATTENUATION DES RIDES**
[72] MORI, YASUHITO, JP
[72] SAITOH, YUKO, JP
[72] SHONO, MICHIKO, JP
[71] POLA CHEMICAL INDUSTRIES, INC., JP
[85] 2019-05-27
[86] 2017-11-27 (PCT/JP2017/042338)
[87] (WO2018/097274)
[30] JP (2016-230134) 2016-11-28

[21] **3,045,081**
[13] A1
[51] **Int.Cl. H02J 50/10 (2016.01) A24F 47/00 (2006.01)**
[25] EN
[54] **INDUCTION CHARGING FOR AN AEROSOL DELIVERY DEVICE**
[54] **CHARGEMENT PAR INDUCTION POUR UN DISPOSITIF DE DISTRIBUTION D'AEROSOL**
[72] SUR, RAJESH, US
[72] ROGERS, JAMES W., US
[72] SEARS, STEPHEN B., US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2019-05-27
[86] 2017-11-28 (PCT/IB2017/057471)
[87] (WO2018/100498)
[30] US (15/368,177) 2016-12-02

[21] **3,045,084**
[13] A1
[51] **Int.Cl. A61F 5/02 (2006.01) A41D 13/05 (2006.01) A61F 13/14 (2006.01)**
[25] EN
[54] **BODY TRUNK SUPPORTER AND WEAR PROVIDED WITH SAME**
[54] **DISPOSITIF DE SOUTIEN ABDOMINAL ET VETEMENT ASSOCIE**
[72] ISHIDA, YOSHINOBU, JP
[71] POJI CO., LTD., JP
[85] 2019-05-27
[86] 2017-11-29 (PCT/JP2017/042849)
[87] (WO2018/101344)
[30] JP (2016-232978) 2016-11-30

[21] **3,045,091**
[13] A1
[51] **Int.Cl. G04G 7/00 (2006.01) G01S 19/14 (2010.01) G04R 20/02 (2013.01) G04G 5/00 (2013.01) H04L 7/00 (2006.01)**
[25] EN
[54] **TIME SYNCHRONIZATION SYSTEM AND TRANSMISSION APPARATUS**
[54] **SYSTEME DE SYNCHRONISATION TEMPORELLE ET DISPOSITIF DE TRANSMISSION**
[72] SHINOHARA, TAKAHIRO, JP
[71] ENABLER LTD., JP
[85] 2019-05-27
[86] 2017-11-29 (PCT/JP2017/042923)
[87] (WO2018/101369)
[30] JP (2016-231647) 2016-11-29

[21] **3,045,097**
[13] A1
[51] **Int.Cl. H04J 3/06 (2006.01) H04L 7/00 (2006.01) H04L 12/26 (2006.01)**
[25] EN
[54] **ONE-WAY PACKET DELAY MEASUREMENT**
[54] **MESURE DE RETARD UNIDIRECTIONNEL DE PAQUET**
[72] ZIGELBOIM, GABRIEL, IL
[72] GEVA, ALON, IL
[72] STEIN, YAAKOV, IL
[71] RAD DATA COMMUNICATIONS LTD., IL
[85] 2019-05-27
[86] 2017-11-28 (PCT/IL2017/051295)
[87] (WO2018/096548)
[30] US (15/361,517) 2016-11-28

[21] **3,045,098**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/742 (2015.01) A61K 35/74 (2015.01) A61K 39/116 (2006.01) C12N 15/09 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE INDUCTION OF CD8+ T-CELLS**
[54] **COMPOSITIONS ET PROCEDES POUR L'INDUCTION DE LYMPHOCYTES T CD8 +**
[72] HONDA, KENYA, JP
[72] TANOUE, TAKESHI, JP
[72] HATTORI, MASAHIRA, JP
[72] KAWAKAMI, YUTAKA, JP
[71] KEIO UNIVERSITY, JP
[71] THE UNIVERSITY OF TOKYO, JP
[85] 2019-05-27
[86] 2017-12-22 (PCT/JP2017/046232)
[87] (WO2018/117263)
[30] US (62/438793) 2016-12-23
[30] US (62/484607) 2017-04-12
[30] US (62/491062) 2017-04-27
[30] US (62/574446) 2017-10-19

[21] **3,045,104**
[13] A1
[51] **Int.Cl. F21V 33/00 (2006.01) G08B 21/00 (2006.01) H01Q 1/00 (2006.01)**
[25] EN
[54] **ANTENNAE FOR HAZARDOUS LOCATION LIGHT FIXTURES**
[54] **ANTENNES POUR APPAREILS D'ECLAIRAGE D'EMPLACEMENT DANGEREUX**
[72] FREER, BENJAMIN AVERY, US
[72] TREIBLE, DANEIL ROBERT, JR., US
[72] MANAHAN, JOSEPH MICHAEL, US
[72] SCARLATA, ANDREW FRANCIS, US
[72] JAYAWARDENA, ADIKARAMGE ASIRI, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2019-05-27
[86] 2017-10-03 (PCT/US2017/054961)
[87] (WO2018/102024)
[30] US (62/429,580) 2016-12-02

[21] **3,045,108**
[13] A1
[51] **Int.Cl. C08K 5/14 (2006.01) C08K 5/372 (2006.01) H01B 3/44 (2006.01)**
[25] EN
[54] **PEROXIDE-CURABLE POLYOLEFIN COMPOSITION**
[54] **COMPOSITION DE POLYOLEFINE DURCISSABLE PAR UN PEROXYDE**
[72] TALREJA, MANISH, US
[72] COGEN, JEFFREY M., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2019-05-27
[86] 2017-11-27 (PCT/US2017/063219)
[87] (WO2018/102242)
[30] US (62/428,578) 2016-12-01

[21] **3,045,111**
[13] A1
[51] **Int.Cl. B65D 43/02 (2006.01) B65D 41/16 (2006.01) B65D 43/06 (2006.01) B65D 43/08 (2006.01) B65D 51/00 (2006.01)**
[25] EN
[54] **LID FOR SEALING ON CONTAINERS OF VARIABLE INNER WALL ANGLE**
[54] **COUVERCLE PERMETTANT D'ASSURER L'ETANCHEITE DE RECIPIENTS A ANGLE DE PAROI INTERNE VARIABLE**
[72] STRACHAN, MARK, US
[71] FIRST QUALITY PACKAGING SOLUTIONS, LLC, US
[85] 2019-05-27
[86] 2017-11-28 (PCT/US2017/063352)
[87] (WO2018/098454)
[30] US (62/426,768) 2016-11-28

[21] **3,045,115**
[13] A1
[51] **Int.Cl. B65G 47/22 (2006.01) B65G 47/256 (2006.01) B65G 47/82 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING SINGULATION OF OBJECTS FOR PROCESSING**
[54] **SYSTEMES ET PROCEDE PERMETTANT D'ASSURER UNE SEPARATION D'OBJETS DESTINES A UN TRAITEMENT**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[71] BERKSHIRE GREY, INC., US
[85] 2019-05-27
[86] 2017-11-28 (PCT/US2017/063382)
[87] (WO2018/098460)
[30] US (62/426,913) 2016-11-28

[21] **3,045,127**
[13] A1
[51] **Int.Cl. A61J 3/07 (2006.01)**
[25] EN
[54] **A METHOD TO RELIEVE STRESS IN CAPSULE SHELLS TO REDUCE PROPENSITY TO BREAK**
[54] **PROCEDE PERMETTANT D'ATTENUER UNE CONTRAINTE DANS DES COQUES DE CAPSULE PERMETTANT DE REDUIRE LA PROPENSION A LA RUPTURE**
[72] FULPER, LESTER DAVID, US
[72] HART, NORTON, US
[71] R.P. SCHERER TECHNOLOGIES, LLC, US
[85] 2019-05-27
[86] 2017-12-08 (PCT/US2017/065398)
[87] (WO2018/107080)
[30] US (62/431,569) 2016-12-08

[21] **3,045,128**
[13] A1
[51] **Int.Cl. A61K 47/32 (2006.01) A61K 31/4155 (2006.01) A61K 31/63 (2006.01) A61K 47/20 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION CONTAINING CELECOXIB**
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT DU CELECOXIB**
[72] KARPATI, RICHARD BALAZS, MT
[72] ERDOSI, NIKOLETTA, MT
[72] PATYI, GERGO, MT
[72] GLAVINAS, HRISTOS, MT
[72] FILIPCSEI, GENOVEVA, MT
[71] DRUGGABILITY TECHNOLOGIES IP HOLDCO LIMITED, MT
[85] 2019-05-27
[86] 2017-12-13 (PCT/US2017/065997)
[87] (WO2018/111991)
[30] US (62/434,173) 2016-12-14
[30] US (62/502,170) 2017-05-05

[21] **3,045,129**
[13] A1
[51] **Int.Cl. C10M 169/04 (2006.01)**
[25] EN
[54] **LUBRICATION OF AN AUTOMATIC TRANSMISSION WITH REDUCED WEAR ON A NEEDLE BEARING**
[54] **LUBRIFICATION D'UNE TRANSMISSION AUTOMATIQUE A USURE REDUITE SUR UN ROULEMENT A AIGUILLES**
[72] ABRAHAM, WILLIAM D., US
[72] ISHIZAKI-SAN, KEITA, JP
[71] THE LUBRIZOL CORPORATION, US
[85] 2019-05-27
[86] 2017-12-14 (PCT/US2017/066290)
[87] (WO2018/112135)
[30] US (62/435,279) 2016-12-16

[21] **3,045,131**
[13] A1
[51] **Int.Cl. A61K 47/00 (2006.01) A61K 47/50 (2017.01) A61K 47/51 (2017.01) A61K 47/30 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR NUCLEIC ACID AND PROTEIN PAYLOAD DELIVERY**
[54] **PROCEDES ET COMPOSITIONS POUR L'ADMINISTRATION DE CHARGE UTILE D'ACIDE NUCLEIQUE ET DE PROTEINE**
[72] WATSON, ANDRE RONALD, US
[72] FOSTER, CHRISTIAN, US
[71] LIGANDAL, INC., US
[85] 2019-05-27
[86] 2017-12-14 (PCT/US2017/066541)
[87] (WO2018/112278)
[30] US (62/434,344) 2016-12-14
[30] US (62/443,522) 2017-01-06
[30] US (62/443,567) 2017-01-06
[30] US (62/517,346) 2017-06-09

[21] **3,045,134**
[13] A1
[51] **Int.Cl. A61K 47/64 (2017.01) C12N 15/85 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR NUCLEIC ACID AND/OR PROTEIN PAYLOAD DELIVERY**
[54] **COMPOSITIONS ET PROCEDES D'ADMINISTRATION DE CHARGE D'ACIDE NUCLEIQUE ET/OU DE PROTEINE**
[72] WATSON, ANDRE RONALD, US
[72] FOSTER, CHRISTIAN, US
[71] LIGANDAL, INC., US
[85] 2019-05-27
[86] 2017-12-14 (PCT/US2017/066545)
[87] (WO2018/112282)
[30] US (62/434,344) 2016-12-14
[30] US (62/443,522) 2017-01-06
[30] US (62/443,567) 2017-01-06
[30] US (62/517,346) 2017-06-09

[21] **3,045,135**
[13] A1
[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/14 (2006.01) A61M 25/14 (2006.01)**
[25] EN
[54] **DRUG DELIVERY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ADMINISTRATION DE MEDICAMENTS**
[72] ANAND, PJ, US
[72] BROPHY, MORGAN, US
[72] SINGH, DEEP ARJUN, US
[72] EBERL, GREGORY, US
[72] ARZUMAND, AYESHA, US
[72] MOURA, STELA, US
[71] ALCYONE LIFESCIENCES, INC., US
[85] 2019-05-27
[86] 2017-12-21 (PCT/US2017/067796)
[87] (WO2018/119179)
[30] US (62/437,168) 2016-12-21

[21] **3,045,136**
[13] A1
[51] **Int.Cl. B65D 5/18 (2006.01) B65D 5/36 (2006.01) B65D 5/42 (2006.01)**
[25] EN
[54] **CARTON WITH TOP CLOSURE**
[54] **CARTON AVEC FERMETURE SUPERIEURE**
[72] EXNER, DANA, US
[72] LENKEIT, GARY, US
[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US
[85] 2019-05-27
[86] 2018-01-09 (PCT/US2018/012917)
[87] (WO2018/132359)
[30] US (62/445,990) 2017-01-13

[21] **3,045,137**
[13] A1
[51] **Int.Cl. B01D 46/04 (2006.01) B01D 29/21 (2006.01) B01D 46/52 (2006.01)**
[25] EN
[54] **DEVICE THAT SELECTIVELY DELIVERS MOLECULAR ACTIVE COMPONENTS AND REDUCES AIRBORNE CONTAMINANTS**
[54] **DISPOSITIF DISTRIBUANT DE MANIERE SELECTIVE DES CONSTITUANTS ACTIFS MOLECULAIRES ET REDUISANT DES CONTAMINANTS EN SUSPENSION DANS L'AIR**
[72] LYNCH, IYAM, US
[72] DELLINGER, STEPHEN, US
[72] GRINDLEY, ERIC, US
[72] SO, KEN, US
[71] LYNCH, IYAM, US
[71] DELLINGER, STEPHEN, US
[71] GRINDLEY, ERIC, US
[71] SO, KEN, US
[85] 2019-05-27
[86] 2018-01-15 (PCT/US2018/013739)
[87] (WO2018/098508)
[30] US (62/426,697) 2016-11-28

[21] **3,045,138**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/564 (2006.01) G01N 33/74 (2006.01)**
[25] EN
[54] **BIOMARKER TEST AND METHOD FOR ASSESSING MUCOSAL HEALING IN RESPONSE TO TREATMENT OF ULCERATIVE COLITIS**
[54] **ESSAI DE BIOMARQUEUR ET PROCEDE D'EVALUATION DE CICATRISATION DES MUQUEUSES EN REPONSE AU TRAITEMENT DE LA RECTOCOLITE HEMORRAGIQUE**
[72] DUKLER, AVINOAM, US
[72] RINGOLD, RANDY, US
[72] VERMEIRE, SEVERINE, BE
[72] DE BRUYN, MAGALI, BE
[72] OPDENAKKER, GHISLAIN, BE
[71] KEPLER DIAGNOSTICS, INC., US
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[85] 2019-05-27
[86] 2017-11-30 (PCT/US2017/064029)
[87] (WO2018/102591)
[30] US (62/429,069) 2016-12-01
[30] US (62/457,139) 2017-02-09

[21] **3,045,139**
[13] A1
[51] **Int.Cl. B60W 30/08 (2012.01)**
[25] EN
[54] **AUTONOMOUS VEHICLE WITH SECONDARY CAMERA SYSTEM FOR USE WITH ENCOUNTERED EVENTS DURING TRAVEL**
[54] **VEHICULE AUTONOME AVEC SYSTEME DE CAMERA SECONDAIRE DESTINE A ETRE UTILISE LORS D'EVENEMENTS RENCONTRES PENDANT LE PARCOURS**
[72] FENTON, TIMOTHY M., US
[72] HIGH, DONALD R., US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-27
[86] 2017-12-01 (PCT/US2017/064126)
[87] (WO2018/102638)
[30] US (62/428,929) 2016-12-01

[21] **3,045,140**
[13] A1
[51] **Int.Cl. C10G 33/04 (2006.01)**
[25] EN
[54] **WATER-ENRICHING AND WATER-DEPLETING COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ET PROCEDES D'ENRICHISSEMENT EN EAU ET D'APPAUVRISSEMENT EN EAU**
[72] WEISNER, ANTHONY, US
[72] DRODZ, JOSEPH C., US
[71] DOBER CHEMICAL CORPORATION, US
[85] 2019-05-27
[86] 2017-12-01 (PCT/US2017/064154)
[87] (WO2018/102653)
[30] US (62/428,617) 2016-12-01

[21] **3,045,141**
[13] A1
[51] **Int.Cl. F21V 15/01 (2006.01) F21V 29/00 (2015.01) F21V 31/00 (2006.01)**
[25] EN
[54] **COLLARS FOR LIGHT FIXTURES**
[54] **COLLIERS POUR LUMINAIRES**
[72] MANAHAN, JOSEPH MICHAEL, US
[72] SCARLATA, ANDREW FRANCIS, US
[72] TREIBLE, DANIEL ROBERT, JR., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2019-05-27
[86] 2017-12-04 (PCT/US2017/064438)
[87] (WO2018/102800)
[30] US (62/429,580) 2016-12-02

[21] **3,045,142**
[13] A1
[51] **Int.Cl. F21V 15/01 (2006.01)**
[25] EN
[54] **HAZARDOUS LOCATION LIGHT FIXTURE HOUSINGS**
[54] **BOITIERS DE LUMINAIRE POUR EMPLACEMENT DANGEREUX**
[72] TREIBLE, DANIEL ROBERT, JR., US
[72] MANAHAN, JOSEPH MICHAEL, US
[72] SCARLATA, ANDREW FRANCIS, US
[72] LEDGERWOOD, ADAM DOUGLAS, US
[72] PERNOT, MATTHEW THOMAS, US
[72] DESROSIERS, KYLE PATRICK, US
[72] LJUCA, MEZVZAD, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2019-05-27
[86] 2017-12-04 (PCT/US2017/064443)
[87] (WO2018/102802)
[30] US (62/429,580) 2016-12-02

[21] **3,045,145**
[13] A1
[51] **Int.Cl. C07K 14/485 (2006.01) C07K 14/50 (2006.01) C07K 14/51 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **COLONIC ORGANOIDS AND METHODS OF MAKING AND USING SAME**
[54] **ORGANOIDES DU COLON ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION**
[72] WELLS, JAMES M., US
[72] MUNERA, JORGE ORLANDO, US
[71] CHILDREN'S HOSPITAL MEDICAL CENTER, US
[85] 2019-05-27
[86] 2017-12-05 (PCT/US2017/064600)
[87] (WO2018/106628)
[30] US (62/429,948) 2016-12-05
[30] US (62/478,962) 2017-03-30

[21] **3,045,149**
[13] A1
[51] **Int.Cl. B65D 30/20 (2006.01) B65D 33/01 (2006.01) B65D 77/22 (2006.01)**
[25] EN
[54] **FLEXIBLE PACKAGES WITH CLOG RESISTANT DEGASSING VALVE AND METHODS OF MAKING THE SAME**
[54] **EMBALLAGES SOUPLES DOTES D'UNE VALVE DE DEGAZAGE RESISTANT A L'OBSTRUCTION ET PROCEDES DE FABRICATION DESDITS EMBALLAGES SOUPLES**
[72] WIGMAN, DANIEL, US
[72] BLOSE, TRAVIS, US
[72] LONG, RONALD KARL, US
[72] MUNIZ, SERGIO, US
[71] FRES-CO SYSTEM USA, INC., US
[85] 2019-05-27
[86] 2017-12-05 (PCT/US2017/064611)
[87] (WO2018/106631)
[30] US (62/432,135) 2016-12-09
[30] US (15/787,180) 2017-10-18

[21] **3,045,151**
[13] A1
[51] **Int.Cl. B32B 21/14 (2006.01) C08L 97/02 (2006.01) E04B 1/84 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING OSB WITH ACOUSTIC DAMPENING PROPERTIES**
[54] **PROCEDE DE FABRICATION DE PANNEAUX OSB A PROPRIETES D'AMORTISSEMENT ACOUSTIQUE**
[72] HIMATSINGANI, ASHWIN, US
[72] NI, JIANWEN, US
[71] LOUISIANA-PACIFIC CORPORATION, US
[85] 2019-05-27
[86] 2017-12-05 (PCT/US2017/064722)
[87] (WO2018/106695)
[30] US (62/429,896) 2016-12-05

[21] **3,045,153**
[13] A1
[51] **Int.Cl. E21B 19/08 (2006.01) E21B 19/06 (2006.01)**
[25] EN
[54] **SNUBBING JACK CAPABLE OF REACTING TORQUE LOADS**
[54] **VERIN DE CURAGE SOUS-PRESSION POUVANT FAIRE REAGIR DES CHARGES DE COUPLE**
[72] WHITE, WILLIAM BENJAMIN, US
[72] STEFFENHAGEN, TIMOTHY S., US
[72] HUSE, KRAIG W., US
[71] NATIONAL OILWELL VARCO, L.P., US
[85] 2019-05-27
[86] 2017-12-05 (PCT/US2017/064743)
[87] (WO2018/106711)
[30] US (62/430,038) 2016-12-05

[21] **3,045,154**
[13] A1
[51] **Int.Cl. A01B 69/00 (2006.01)**
[25] EN
[54] **LOW COST IMPLEMENT POSITIONING**
[54] **POSITIONNEMENT D'INSTRUMENT A FAIBLE COUT**
[72] DUMBLE, STEVEN J., US
[72] DANG, TRI M., US
[71] AGJUNCTION LLC, US
[85] 2019-05-27
[86] 2018-01-17 (PCT/US2018/014109)
[87] (WO2018/136560)
[30] US (62/448,246) 2017-01-19

[21] **3,045,155**
[13] A1
[51] **Int.Cl. C12M 1/32 (2006.01) C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR PERFUSION AND ENVIRONMENT CONTROL OF MICROPLATE LABWARE**
[54] **PROCEDES ET APPAREIL DE CONTROLE DE PERFUSION ET D'ENVIRONNEMENT DE MATERIEL DE LABORATOIRE DU TYPE MICROPLAQUE**
[72] SCHROEDER, KIRK S., US
[72] NEAGLE, BRADLEY D., US
[72] ENDSLEY, ERIC, US
[72] APPLEDORN, DANIEL, US
[72] MORTON, KEITH, CA
[71] ESSEN INSTRUMENTS, INC. D/B/A ESSEN BIOSCIENCE, INC., US
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2019-05-27
[86] 2018-01-19 (PCT/US2018/014447)
[87] (WO2018/136752)
[30] US (62/447,991) 2017-01-19

[21] **3,045,156**
[13] A1
[51] **Int.Cl. A63F 3/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR A BOARD GAME**
[54] **APPAREIL POUR UN JEU DE SOCIETE**
[72] RICHARDS, RAYMOND, AU
[71] RICHARDS, RAYMOND, AU
[85] 2019-05-28
[86] 2017-11-28 (PCT/AU2017/051310)
[87] (WO2018/094476)
[30] AU (2016904875) 2016-11-28

[21] **3,045,157**
[13] A1
[51] **Int.Cl. A61B 17/34 (2006.01) A61M 25/06 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **PERCUTANEOUS DRAINAGE DEVICE**
[54] **DISPOSITIF DE DRAINAGE PERCUTANE**
[72] VILA RAMIREZ, NARCISO, AU
[72] YEW, MING KHOON, AU
[72] WHITE, MELANIE, AU
[72] AHUJA, NATASHA, AU
[72] HAYES, ALEX, AU
[71] INOVA MEDICAL PTY LTD, AU
[85] 2019-05-28
[86] 2017-11-28 (PCT/AU2017/051312)
[87] (WO2018/094478)
[30] AU (2016904884) 2016-11-28

[21] **3,045,158**
[13] A1
[51] **Int.Cl. F16B 35/04 (2006.01) B02C 17/22 (2006.01)**
[25] EN
[54] **LINER BOLT**
[54] **BOULON DE REVETEMENT**
[72] OLDNALL, CRAIG, AU
[71] OLDNALL, CRAIG, AU
[85] 2019-05-28
[86] 2017-12-04 (PCT/AU2017/051328)
[87] (WO2018/102863)
[30] AU (2016905033) 2016-12-06

[21] **3,045,159**
[13] A1
[51] **Int.Cl. E21B 47/04 (2012.01) B21C 47/20 (2006.01) G01B 5/02 (2006.01) G01B 5/18 (2006.01) G01B 11/02 (2006.01) G01F 23/00 (2006.01)**
[25] EN
[54] **A DEPTH MEASUREMENT APPARATUS**
[54] **APPAREIL DE MESURE DE PROFONDEUR**
[72] CAVANOUGH, GARY, AU
[71] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU
[85] 2019-05-28
[86] 2017-12-05 (PCT/AU2017/051333)
[87] (WO2018/102864)
[30] AU (2016904994) 2016-12-05

[21] **3,045,160**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/454 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS, DEVICES AND METHODS FOR TREATING OBSESSIVE-COMPULSIVE DISORDER**
[54] **COMPOSITIONS, DISPOSITIFS ET PROCEDES POUR LE TRAITEMENT DU TROUBLE OBSESSIONNEL COMPULSIF**
[72] BORODY, THOMAS JULIUS, AU
[71] CENTRE FOR DIGESTIVE DISEASES, AU
[85] 2019-05-28
[86] 2018-08-31 (PCT/AU2018/000160)
[87] (WO2019/040969)
[30] US (62/552,517) 2017-08-31

[21] **3,045,161**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) A01H 5/00 (2018.01) A61K 39/395 (2006.01) A61P 39/00 (2006.01) A61P 39/02 (2006.01) C07K 16/16 (2006.01) C12N 15/13 (2006.01) C12N 15/40 (2006.01) C12N 15/54 (2006.01) C12N 15/82 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **PRODUCTION OF RICIN ANTIBODIES IN PLANT**
[54] **PRODUCTION D'ANTICORPS DE RICIN DANS UNE PLANTE**
[72] HALL, J. CHRISTOPHER, CA
[72] MEYERS, ASHLEY J., CA
[72] TIWARI, KRISHNARAJ, CA
[72] LATAWA, JYOTI, CA
[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE, CA
[85] 2019-05-28
[86] 2016-12-01 (PCT/CA2016/051412)
[87] (WO2018/098553)

[21] **3,045,162**
[13] A1
[51] **Int.Cl. F28G 15/00 (2006.01) B08B 9/023 (2006.01) B08B 9/027 (2006.01) B08B 9/032 (2006.01) B24C 1/00 (2006.01) F23J 3/02 (2006.01) F28G 1/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF CLEANING A HEAT EXCHANGER**
[54] **SYSTEME ET PROCEDE DE NETTOYAGE D'ECHANGEUR DE CHALEUR**
[72] WILSON, PAUL, CA
[72] VISSER, PETER, CA
[72] SPIVAK, BRENT, CA
[71] CANDU ENERGY INC., CA
[85] 2019-05-28
[86] 2017-11-24 (PCT/CA2017/000249)
[87] (WO2018/098556)
[30] US (62/426,920) 2016-11-28

[21] **3,045,163**
[13] A1
[51] **Int.Cl. C22C 21/10 (2006.01) C22C 21/00 (2006.01) C22C 21/06 (2006.01) C22F 1/053 (2006.01)**
[25] EN
[54] **ALUMINIUM ALLOYS FOR STRUCTURAL AND NON-STRUCTURAL NEAR NET CASTING, AND METHODS FOR PRODUCING SAME**
[54] **ALLIAGES D'ALUMINIUM DESTINES A LA COULEE CONTINUE PRESQUE AUX COTES DE PIECES STRUCTURALES ET ET NON STRUCTURALES, ET LEURS PROCEDES DE FABRICATION**
[72] SHANKAR, SUMANTH, CA
[72] ZENG, XIAOCHUN, CA
[71] MCMASTER UNIVERSITY, CA
[85] 2019-05-28
[86] 2017-11-27 (PCT/CA2017/051420)
[87] (WO2018/094535)
[30] US (62/426,822) 2016-11-28

[21] **3,045,164**
[13] A1
[51] **Int.Cl. A61M 35/00 (2006.01) A61F 7/00 (2006.01)**
[25] EN
[54] **DEVICES FOR APPLYING A TOPICAL TREATMENT**
[54] **DISPOSITIFS POUR APPLIQUER UN TRAITEMENT TOPIQUE**
[72] FIA, ROBERTO, CA
[72] BATTISTUZZI, MAURIZIO, CA
[71] THE JENEX CORPORATION, CA
[85] 2019-05-28
[86] 2017-11-28 (PCT/CA2017/051430)
[87] (WO2018/094540)
[30] US (62/426,889) 2016-11-28
[30] CA (2,982,914) 2017-10-18
[30] US (15/787,599) 2017-10-18

[21] **3,045,165**
[13] A1
[51] **Int.Cl. H05B 33/08 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RETROFITTING FLUORESCENT TUBE LAMPS TO LIGHT EMITTING DIODES**
[54] **PROCEDE ET APPAREIL POUR ADAPTER DES LAMPES A TUBE FLUORESCENT A DES DIODES LUMINESCENTES**
[72] KWOK, LEO, US
[72] YU, SIMON SIU CHI, US
[71] KWOK, LEO, US
[71] YU, SIMON SIU CHI, US
[85] 2019-02-19
[86] 2017-05-10 (PCT/CN2017/083748)
[87] (WO2018/040611)
[30] US (62/494,942) 2016-08-27
[30] US (15/433,778) 2017-02-15

[21] **3,045,170**
[13] A1
[51] **Int.Cl. C21D 9/00 (2006.01) B21D 22/20 (2006.01) C21D 1/18 (2006.01) C22C 38/00 (2006.01) C22C 38/38 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING QUENCHED MOLDING, METHOD FOR MANUFACTURING HOT PRESS STEEL MATERIAL, AND HOT PRESS STEEL MATERIAL**
[54] **PROCEDE DE FABRICATION D'UN MOULAGE TREMPE, PROCEDE DE PRODUCTION D'UN MATERIAU EN ACIER DESTINE AU PRESSAGE A CHAUD, ET MATERIAU EN ACIER DESTINE AU PRESSAGE A CHAUD**
[72] NAKAZAWA, YOSHIAKI, JP
[72] TABATA, SHINICHIRO, JP
[72] HIKIDA, KAZUO, JP
[72] SUZUKI, TOSHIYA, JP
[72] KOGA, ATSUO, JP
[72] HAMADA, KOICHI, JP
[71] NIPPON STEEL & SUMITOMO METAL CORPORATION, JP
[85] 2019-05-17
[86] 2017-11-22 (PCT/JP2017/042074)
[87] (WO2018/097200)
[30] JP (2016-229472) 2016-11-25

[21] **3,045,178**
[13] A1
[51] **Int.Cl. A63B 22/16 (2006.01)**
[25] EN
[54] **TRAINING DEVICE FOR PERFORMING BALANCE, MEDITATION AND/OR YOGA EXERCISES**
[54] **APPAREIL D'ENTRAINEMENT POUR EFFECTUER DES EXERCICES D'EQUILIBRE, DE MEDITATION ET/OU DE YOGA**
[72] STROBEL, DOMINIC, DE
[71] STROBEL & WALTER GMBH, DE
[85] 2019-05-28
[86] 2017-11-14 (PCT/EP2017/079150)
[87] (WO2018/104008)
[30] DE (10 2016 123 528.8) 2016-12-06

[21] **3,045,179**
[13] A1
[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **WIND POWER PLANT**
[54] **AEROGENERATEUR**
[72] KRIEGER, KLAUS, DE
[72] VAN EGEREN, MARTIN, DE
[71] KRIEGER, KLAUS, DE
[71] VAN EGEREN, MARTIN, DE
[85] 2019-05-28
[86] 2017-11-30 (PCT/EP2017/001394)
[87] (WO2018/099598)
[30] DE (102016014339.8) 2016-12-02
[30] DE (202016007375.4) 2016-12-02

[21] **3,045,180**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/864 (2006.01)**
[25] EN
[54] **H-1 PV EXPRESSING RNAI EFFECTORS TARGETING CDK9**
[54] **H-1PV EXPRIMANT DES EFFECTEURS D'ARNI CIBLANT CDK9**
[72] NIETO, KAREN, DE
[72] ROMMELAERE, JEAN, DE
[72] LEUCHS, BARBARA, DE
[72] KRAMMER, PETER, DE
[72] LI-WEBER, MIN, DE
[72] DE-OLIVEIRA, ANNA-PAULA, DE
[72] MARCHINI, ANTONIO, DE
[72] LI, JUNWEI, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM, DE
[85] 2019-05-28
[86] 2017-11-27 (PCT/EP2017/080534)
[87] (WO2018/096148)
[30] EP (16200978.1) 2016-11-28

[21] **3,045,181**
[13] A1
[51] **Int.Cl. G05D 1/10 (2006.01) G05D 1/08 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **UNMANNED AERIAL VEHICLE CONTROL METHOD AND UNMANNED AERIAL VEHICLE CONTROL APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMANDE DE VEHICULE AERIEN SANS PILOTE**
[72] CHEN, YOUSHENG, CN
[72] WU, BIN, CN
[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD, CN
[85] 2019-05-28
[86] 2017-02-20 (PCT/CN2017/074161)
[87] (WO2018/098906)
[30] CN (201611079824.8) 2016-11-29

[21] **3,045,182**
[13] A1
[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/071 (2010.01) A61K 35/34 (2015.01) A61P 9/04 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **GENERATING ATRIAL AND VENTRICULAR CARDIOMYOCYTE LINEAGES FROM HUMAN PLURIPOTENT STEM CELLS**
[54] **GENERATION DE LIGNEES DE CARDIOMYOCYTES AURICULAIRES ET VENTRICULAIRES A PARTIR DE CELLULES SOUCHES PLURIPOTENTES HUMAINES**
[72] KELLER, GORDON, CA
[72] LEE, JEE HOON, CA
[72] PROTZE, STEPHANIE, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2019-05-28
[86] 2017-12-04 (PCT/CA2017/051460)
[87] (WO2018/098597)
[30] US (62/429,823) 2016-12-04
[30] US (62/430,815) 2016-12-06

[21] **3,045,183**
[13] A1
[51] **Int.Cl. A22C 7/00 (2006.01)**
[25] EN
[54] **METHOD TO CLEAN A MOULD DRUM PROVIDED WITH A PLASTIC POROUS STRUCTURE**
[54] **PROCEDE DE NETTOYAGE D'UN TAMBOUR DE MOULE A STRUCTURE POREUSE EN PLASTIQUE**
[72] VAN GERWEN, HENDRIKUS PETRUS GERARDUS, NL
[71] GEA FOOD SOLUTIONS BAKEL B.V., NL
[85] 2019-05-28
[86] 2017-11-27 (PCT/EP2017/080524)
[87] (WO2018/099861)
[30] EP (16201240.5) 2016-11-29

[21] **3,045,184**
[13] A1
[51] **Int.Cl. H02J 3/24 (2006.01)**
[25] EN
[54] **DETERMINING A CHARACTERISTIC OF AN INERTIAL CONTRIBUTION TO AN ELECTRIC POWER GRID**
[54] **DETERMINATION DE CARACTERISTIQUE DE CONTRIBUTION INERTIELLE A UN RESEAU ELECTRIQUE**
[72] VENTOLA, MIKA, FI
[72] ALAKONTIOLA, JUKKA, FI
[72] BORRETT, MARC, GB
[72] PAJU, VILLE, FI
[72] PELTOLA, TIMO, FI
[71] REACTIVE TECHNOLOGIES LIMITED, GB
[85] 2019-05-28
[86] 2017-11-28 (PCT/EP2017/080702)
[87] (WO2018/099921)
[30] GB (1620329.1) 2016-11-30

[21] **3,045,185**
[13] A1
[51] **Int.Cl. F01K 13/00 (2006.01) F01K 23/02 (2006.01) F02G 5/02 (2006.01) F16M 1/00 (2006.01) F22B 1/16 (2006.01) F23G 5/46 (2006.01)**
[25] EN
[54] **APPARATUS FOR EXTRACTING ENERGY FROM WASTE HEAT**
[54] **APPAREIL POUR EXTRAIRE DE L'ENERGIE A PARTIR DE LA CHALEUR PERDUE**
[72] DI BELLA, FRANCIS, US
[72] MERSWOLKE, PAUL, CA
[71] BLUE BOX TECHNOLOGY INC., CA
[85] 2019-05-28
[86] 2017-12-12 (PCT/CA2017/051498)
[87] (WO2018/107279)
[30] US (62/433,440) 2016-12-13

[21] **3,045,186**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) A61B 10/00 (2006.01) G01N 1/00 (2006.01) G01N 21/65 (2006.01) G01N 33/94 (2006.01) G01N 1/02 (2006.01)**
[25] EN
[54] **DRUG DETECTION VIA SURFACE ENHANCED RAMAN SPECTROSCOPY**
[54] **DETECTION DE MEDICAMENT PAR SPECTROSCOPIE DE L'EFFET RAMAN EXALTE DE SURFACE**
[72] STADTHAGEN, TORSTEN, DE
[72] FREMMER, MARKUS, DE
[71] SECURETEC DETEKTIONS-SYSTEME AG, DE
[85] 2019-05-28
[86] 2017-12-04 (PCT/EP2017/081331)
[87] (WO2018/100202)
[30] EP (16201916.0) 2016-12-02

[21] **3,045,187**
[13] A1
[51] **Int.Cl. H02J 3/24 (2006.01) G06Q 50/06 (2012.01) H02J 3/00 (2006.01)**
[25] EN
[54] **POWER FLOW CHARACTERISTICS**
[54] **CARACTERISTIQUES DE FLUX D'ENERGIE**
[72] ALAKONTIOLA, JUKKA, FI
[72] JAIN, ABHISHEK, GB
[72] PELTOLA, TIMO, FI
[72] BORRETT, MARC, GB
[72] VENTOLA, MIKA, FI
[71] REACTIVE TECHNOLOGIES LIMITED, GB
[85] 2019-05-28
[86] 2017-11-28 (PCT/EP2017/080709)
[87] (WO2018/099923)
[30] GB (1620329.1) 2016-11-30

[21] **3,045,189**
[13] A1
[51] **Int.Cl. C01B 32/186 (2017.01)**
[25] EN
[54] **PLASMA PROCESSES FOR PRODUCING GRAPHENE NANOSHEETS**
[54] **PROCEDES AU PLASMA POUR LA PRODUCTION DE NANOFEUILLES DE GRAPHENE**
[72] KROEGER, JENS, CA
[72] LAROUCHE, NICHOLAS, CA
[72] LAROUCHE, FREDERIC, CA
[71] RAYMOR INDUSTRIES INC., CA
[85] 2019-05-28
[86] 2017-12-20 (PCT/CA2017/051545)
[87] (WO2018/112623)
[30] US (62/437,057) 2016-12-21
[30] US (62/512,520) 2017-05-30

[21] **3,045,190**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTENT-VIRALITY AMPLIFICATION**
[54] **PROCEDE ET APPAREIL D'AMPLIFICATION DE VIRALITE DE CONTENU**
[72] HANKINSON, STEPHEN JAMES FREDERIC, CA
[72] BURKE, TIMOTHY ANDREW, CA
[71] AFFINIO INC., CA
[85] 2019-05-28
[86] 2018-01-05 (PCT/CA2018/000004)
[87] (WO2018/126313)
[30] US (62/442,716) 2017-01-05

[21] **3,045,192**
[13] A1
[51] **Int.Cl. A61B 3/113 (2006.01) G02B 27/01 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR LASER EYE TRACKING IN WEARABLE HEADS-UP DISPLAYS**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES POUR LE SUIVI D'UN REGARD PAR LASER DANS DES AFFICHEURS TETE HAUTE PORTABLES**
[72] ALEEM, IDRIS S., CA
[72] BHARGAVA, MAYANK, CA
[71] NORTH INC., CA
[85] 2019-05-28
[86] 2017-11-30 (PCT/CA2017/051440)
[87] (WO2018/098579)
[30] US (62/428,320) 2016-11-30

[21] **3,045,198**
[13] A1
[51] **Int.Cl. H04W 16/18 (2009.01) H04W 24/02 (2009.01) H04W 88/00 (2009.01)**
[25] EN
[54] **AUTO-CONFIGURATION METHOD AND APPARATUS, AND BASE STATION**
[54] **PROCEDE ET DISPOSITIF DE CONFIGURATION AUTOMATIQUE ET STATION DE BASE**
[72] SHI, ZIJUAN, CN
[72] LI, YAO, CN
[72] WEN, CHANGCHUN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-05-28
[86] 2016-11-28 (PCT/CN2016/107465)
[87] (WO2018/094726)

[21] **3,045,200**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD, TERMINAL APPARATUS, AND NETWORK APPARATUS**
[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS, APPAREIL TERMINAL, ET APPAREIL DE RESEAU**
[72] LIN, YANAN, CN
[72] XU, HUA, CA
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-05-28
[86] 2016-11-30 (PCT/CN2016/108017)
[87] (WO2018/098683)

[21] **3,045,201**
[13] A1
[51] **Int.Cl. G01N 1/20 (2006.01)**
[25] EN
[54] **MODULAR SAMPLE PREPARATION SYSTEM FOR PREPARING AQUEOUS SOLUTIONS CONTAINING SOLID MATTER OF VARIOUS SALT CONTENTS AND TEMPERATURES FOR THE PURPOSE OF DOWNSTREAM MEASUREMENT**
[54] **SYSTEME DE PREPARATION D'ECHANTILLON MODULAIRE POUR LA PREPARATION DE SOLUTIONS AQUEUSES CONTENANT DES SOLIDES PRESENTANT DIFFERENTES TENEURS EN SEL ET TEMPERATURES EN VUE D'UNE MESURE SUBSEQUENTE**
[72] BACHMANN, DANIEL, DE
[72] KRUGER, TORSTEN, DE
[72] NARBEI, GEORG, DE
[72] REINHARDT, EUGEN, DE
[72] REST, TORSTEN, DE
[72] RICHTER, SEBASTIAN, DE
[72] WIEGAND, WALTER, DE
[71] K+S AKTIENGESELLSCHAFT, DE
[85] 2019-05-28
[86] 2017-11-16 (PCT/DE2017/000387)
[87] (WO2018/103770)
[30] DE (10 2016 123 473.7) 2016-12-05

[21] **3,045,202**
[13] A1
[51] **Int.Cl. A01D 34/86 (2006.01) A01D 75/18 (2006.01)**
[25] EN
[54] **MOWER WITH A SAFETY SYSTEM**
[54] **TONDEUSE AVEC SYSTEME DE SECURITE**
[72] GREEN, OLE, DK
[72] JÆGER, CLAES LUND DUHRING, DK
[72] SPRINGER, KLAUS, DE
[72] JENSEN, KJELD, DK
[72] STEEN, KIM ARILD, DK
[72] LARSEN, MORTEN, DK
[72] SIMONSEN, TOM, DK
[72] LINDING, JACOB GAD, DK
[71] AGRO INTELLIGENCE APS, DK
[85] 2019-05-28
[86] 2017-11-27 (PCT/DK2017/050395)
[87] (WO2018/099530)
[30] DK (PA 2016 70951) 2016-11-30

[21] **3,045,203**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **ANTIBODIES FOR TREATMENT AND DIAGNOSIS OF INFLAMMATORY BOWEL DISEASE**
[54] **ANTICORPS POUR LE TRAITEMENT ET LE DIAGNOSTIC D'UNE MALADIE INTESTINALE INFLAMMATOIRE**
[72] WULHFARD, SARAH, CH
[72] VILLA, ALESSANDRA, CH
[72] PEMBERTON ROSS, CATHERINE, CH
[72] PRETTO, FRANCESCA, CH
[72] FLEETWOOD, FILIPPA, CH
[71] PHILOGEN S.P.A., IT
[85] 2019-05-28
[86] 2016-12-09 (PCT/EP2016/080462)
[87] (WO2017/097990)
[30] GB (1521918.1) 2015-12-11
[30] GB (1602621.3) 2016-02-15
[30] GB (1606607.8) 2016-04-15

[21] **3,045,205**
[13] A1
[51] **Int.Cl. F16K 31/50 (2006.01) F16K 1/02 (2006.01) F16K 1/30 (2006.01)**
[25] EN
[54] **AVIATION VALVE WITH STATUS INDICATOR**
[54] **SOUPAPE D'AVIATION DOTEE D'UN INDICATEUR D'ETAT**
[72] JEHLICKA, PETR, CZ
[72] ZMEK, KAREL, SE
[72] PEMBERTON, GARETH, GB
[71] GCE HOLDING AB, SE
[85] 2019-05-28
[86] 2016-12-21 (PCT/EP2016/082081)
[87] (WO2018/113941)

[21] **3,045,206**
[13] A1
[51] **Int.Cl. G01S 13/90 (2006.01) G01S 7/40 (2006.01) H01Q 15/14 (2006.01)**
[25] EN
[54] **SYNTHETIC APERTURE RADAR METHOD AND SYNTHETIC APERTURE RADAR SYSTEM**
[54] **PROCEDE RADAR A OUVERTURE SYNTHETIQUE ET SYSTEME RADAR A OUVERTURE SYNTHETIQUE**
[72] DORING, BJORN, FR
[72] SCHWERDT, MARCO, DE
[71] DEUTSCHES ZENTRUM FUR LUFT- UND RAUMFAHRT E.V., DE
[85] 2019-05-28
[86] 2017-11-29 (PCT/EP2017/080859)
[87] (WO2018/108537)
[30] DE (10 2016 224 962.2) 2016-12-14

[21] **3,045,207**
[13] A1
[51] **Int.Cl. A61K 36/28 (2006.01) A61K 9/14 (2006.01) A61K 31/685 (2006.01) A61K 36/758 (2006.01) A61K 36/9068 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF POWDER COMPOSITIONS**
[54] **PROCEDE DE PREPARATION DE COMPOSITIONS PULVERULENTES**
[72] RONCHI, MASSIMO, IT
[72] FRATTINI, ELISABETTA, IT
[71] INDENA S.P.A., IT
[85] 2019-05-28
[86] 2017-11-30 (PCT/EP2017/080967)
[87] (WO2018/108549)
[30] EP (16204459.8) 2016-12-15

[21] **3,045,208**
[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) A61P 31/04 (2006.01) C07D 471/04 (2006.01) C12N 15/54 (2006.01)**
[25] EN
[54] **BACTERIAL GLUTAMINYL CYCLASES AND INHIBITORS THEREOF FOR USE IN THE TREATMENT OF PERIODONTITIS**
[54] **GLUTAMINYL CYCLASES BACTERIENNES ET LEURS INHIBITEURS DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA PARODONTITE**
[72] POTEMPA, JAN, PL
[72] EICK, SIGRUN, CH
[72] TAUDTE, NADINE, DE
[72] RAHFELD, JENS-ULRICH, DE
[72] BUCHHOLZ, MIRKO, DE
[72] DEMUTH, HANS-ULRICH, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2019-05-28
[86] 2017-12-01 (PCT/EP2017/081190)
[87] (WO2018/100159)
[30] EP (16201913.7) 2016-12-02

[21] **3,045,209**
[13] A1
[51] **Int.Cl. F03D 1/06 (2006.01)**
[25] EN
[54] **ROTOR BLADE FOR A WIND TURBINE AND WIND TURBINE**
[54] **PALE DE ROTOR POUR UNE EOLIENNE ET EOLIENNE**
[72] KRUSE, MARCEL, DE
[72] FALK SPIETH, FALK, DE
[71] WOBBEN PROPERTIES GMBH, DE
[85] 2019-05-28
[86] 2017-09-18 (PCT/EP2017/073490)
[87] (WO2018/103904)
[30] DE (10 2016 123 412.5) 2016-12-05

[21] **3,045,210**
[13] A1
[51] **Int.Cl. C04B 24/16 (2006.01) C04B 24/26 (2006.01) C04B 28/02 (2006.01) C04B 40/00 (2006.01)**
[25] EN
[54] **FUNCTIONALIZED POLYACRYLATE POLYMER COMPOSITIONS**
[54] **COMPOSITIONS POLYMERES DE POLYACRYLATE FONCTIONNALISEES**
[72] WIBOWO, ANTONIUS, BE
[72] WAMBACQ, BEN, BE
[72] FANG, XIAOHUA, US
[72] ZHAO, HAIBO, US
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2019-05-28
[86] 2017-10-27 (PCT/EP2017/077593)
[87] (WO2018/099659)
[30] EP (16201722.2) 2016-12-01

[21] **3,045,211**
[13] A1
[51] **Int.Cl. F16F 7/10 (2006.01) E04B 1/98 (2006.01)**
[25] EN
[54] **COMPACT SPATIAL ELLIPSOIDAL MASS PENDULUM**
[54] **PENDULE A MASSE ELLIPSOIDAL SPATIAL COMPACT**
[72] DAHL, BURKHARD, DE
[71] DAHL, BURKHARD, DE
[85] 2019-05-28
[86] 2017-11-28 (PCT/EP2017/080623)
[87] (WO2018/099896)
[30] DE (10 2016 122 999.7) 2016-11-29

[21] **3,045,212**
[13] A1
[51] **Int.Cl. F16B 47/00 (2006.01)**
[25] EN
[54] **FASTENING DEVICE**
[54] **DISPOSITIF DE FIXATION**
[72] BUCHLING, BJORN, DE
[71] RHEINMETALL MAN MILITARY VEHICLES GMBH, DE
[85] 2019-05-28
[86] 2017-12-11 (PCT/EP2017/082275)
[87] (WO2018/114440)
[30] DE (10 2016 125 468.1) 2016-12-22

[21] **3,045,213**
[13] A1
[51] **Int.Cl. F03D 1/06 (2006.01) B29C 33/00 (2006.01) B29C 65/48 (2006.01) B29C 65/78 (2006.01) B29C 69/00 (2006.01) B29C 70/00 (2006.01) B29D 99/00 (2010.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANUFACTURING A WIND TURBINE BLADE**
[54] **SYSTEME ET PROCEDE DE FABRICATION D'UNE PALE D'EOLIENNE**
[72] FUGLSANG, LARS, DK
[72] JACOBSEN, TORBEN KROGSDAL, DK
[71] LM WIND POWER INTERNATIONAL TECHNOLOGY II APS, DK
[85] 2019-05-28
[86] 2017-12-01 (PCT/EP2017/081222)
[87] (WO2018/100177)
[30] EP (16201924.4) 2016-12-02

[21] **3,045,214**
[13] A1
[51] **Int.Cl. C07K 1/14 (2006.01) C07K 7/08 (2006.01) C07K 7/56 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PURIFICATION OF LIPOPOLYPEPTIDE ANTIBIOTICS**
[54] **PROCEDE DE PURIFICATION D'ANTIBIOTIQUES LIPOPEPTIDIQUES**
[72] VALOTI, ERMANNO, IT
[72] ROSSINI, MAURO, IT
[72] TAGLIANI, AURO ROBERTO, IT
[71] GNOSIS S.P.A., IT
[85] 2019-05-28
[86] 2017-12-12 (PCT/EP2017/082408)
[87] (WO2018/108896)
[30] IT (102016000127655) 2016-12-16

[21] **3,045,215**
[13] A1
[51] **Int.Cl. C08F 290/06 (2006.01) B01J 13/18 (2006.01) C08F 2/22 (2006.01)**
[25] FR
[54] **PROCESS FOR PREPARING MICROCAPSULES OF CONTROLLED SIZE COMPRISING A PHOTOPOLYMERIZATION STEP**
[54] **PROCEDE DE PREPARATION DE MICROCAPSULES DE TAILLE CONTROLEE COMPRENANT UNE ETAPE DE PHOTOPOLYMERISATION**
[72] WALTERS, JAMIE, FR
[72] DEMOULIN, DAMIEN, FR
[71] CALYXIA, FR
[85] 2019-05-28
[86] 2017-12-01 (PCT/EP2017/081227)
[87] (WO2018/100179)
[30] FR (16 61787) 2016-12-01

[21] **3,045,216**
[13] A1
[51] **Int.Cl. B66C 23/18 (2006.01) B60P 1/64 (2006.01) B66C 23/44 (2006.01) B66C 23/80 (2006.01)**
[25] EN
[54] **SUPPORT STRUCTURE FOR A VEHICLE WITH A CARGO CRANE**
[54] **STRUCTURE DE SUPPORT POUR VEHICULE A GRUE A CROCHET**
[72] HAMMAR, BENGT-OLOF, SE
[71] HAMMAR MASKIN IP AB, SE
[85] 2019-05-28
[86] 2017-11-28 (PCT/EP2017/080719)
[87] (WO2018/099929)
[30] EP (16201794.1) 2016-12-01

[21] **3,045,217**
[13] A1
[51] **Int.Cl. G06F 17/50 (2006.01) G06T 17/00 (2006.01)**
[25] EN
[54] **METHOD FOR CONSTRUCTING A 3D DIGITAL MODEL FROM A 2D PLAN**
[54] **PROCEDE DE CONSTRUCTION D'UNE MAQUETTE NUMERIQUE 3D A PARTIR D'UN PLAN 2D**
[72] SUARD, FREDERIC, FR
[72] GIMENEZ, LUCILE, FR
[72] ROBERT, SYLVAIN, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2019-05-28
[86] 2017-12-01 (PCT/EP2017/081263)
[87] (WO2018/104183)
[30] FR (1661912) 2016-12-05

[21] **3,045,218**
[13] A1
[51] **Int.Cl. C10L 1/08 (2006.01) C07C 1/20 (2006.01) C07D 307/38 (2006.01) C10G 3/00 (2006.01)**
[25] EN
[54] **PRODUCTION OF A FUEL COMPOSITION**
[54] **PRODUCTION D'UNE COMPOSITION DE CARBURANT**
[72] KIISKI, ULLA, FI
[72] LINDBLAD, MARINA, FI
[72] TIITTA, MARJA, FI
[72] ISOKOSKI, KAIJA, FI
[71] NESTE OYJ, FI
[85] 2019-05-28
[86] 2017-12-13 (PCT/EP2017/082660)
[87] (WO2018/114534)
[30] FI (20166034) 2016-12-23

[21] **3,045,219**
[13] A1
[51] **Int.Cl. A61J 7/00 (2006.01) A61J 1/18 (2006.01)**
[25] EN
[54] **LIGHT OR LIGHTED MEMBER ON A PACKAGE TO PROVIDE INFORMATION TO A USER**
[54] **ELEMENT LUMINEUX OU ECLAIRE SUR UN EMBALLAGE DESTINE A FOURNIR DES INFORMATIONS A UN UTILISATEUR**
[72] TUNESI, CRISTIANO, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2019-05-28
[86] 2017-12-14 (PCT/EP2017/082817)
[87] (WO2018/109085)
[30] US (62/435,096) 2016-12-16

[21] **3,045,220**
[13] A1
[51] **Int.Cl. F16L 59/12 (2006.01) F16L 3/10 (2006.01) F16L 3/24 (2006.01) F16L 59/135 (2006.01)**
[25] EN
[54] **THERMALLY DECOUPLED PIPE BRACKET WITH HIGH MECHANICAL LOADING CAPACITY**
[54] **PORTE-TUYAU DECOUPLE THERMIQUEMENT PRESENTANT UNE CAPACITE DE CHARGE MECANIQUE ELEVEE**
[72] KURT, ISHAK, DE
[72] DEBOLD, RALF, DE
[72] HOFFMANN, STEFAN, DE
[72] STUPPY, SEBASTIAN ADOLF, DE
[71] BASF SE, DE
[85] 2019-05-28
[86] 2017-12-14 (PCT/EP2017/082754)
[87] (WO2018/114567)
[30] DE (10 2016 226 024.3) 2016-12-22

[21] **3,045,221**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **BICYCLIC BIS-HETEROARYL DERIVATIVES AS MODULATORS OF PROTEIN AGGREGATION**
[54] **DERIVES BIS-HETEROARYLIQUES BICYCLIQUES UTILISES EN TANT QUE MODULATEURS DE L'AGREGATION DES PROTEINES**
[72] HALL, ADRIAN, BE
[72] PROVINS, LAURENT, BE
[72] MACCOSS, MALCOLM, US
[71] UCB BIOPHARMA SPRL, BE
[85] 2019-05-28
[86] 2018-01-23 (PCT/EP2018/051584)
[87] (WO2018/138088)
[30] EP (17153217.9) 2017-01-26

[21] **3,045,222**
[13] A1
[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **CONTAINER SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DESTINES A DES CONTENANTS**
[72] TUNESI, CRISTIANO, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2019-05-28
[86] 2017-12-14 (PCT/EP2017/082812)
[87] (WO2018/109081)
[30] EP (16020500.1) 2016-12-16

[21] **3,045,223**
[13] A1
[51] **Int.Cl. E01D 19/16 (2006.01) E01D 21/00 (2006.01)**
[25] EN
[54] **METHOD FOR INSTALLING A TENSIONING ELEMENT IN AN ANCHOR BLOCK, HOLDER, IN PARTICULAR FOR CARRYING OUT THE METHOD AND COMBINATION OF A HOLDER WITH A PRESTRESSING ELEMENT**
[54] **PROCEDE D'INSTALLATION D'UN ELEMENT DE SERRAGE DANS UN SUPPORT DE BLOC D'ANCRAGE, DESTINE NOTAMMENT A LA MISE EN OEUVRE DU PROCEDE ET COMBINAISON D'UN SUPPORT AVEC UN ELEMENT DE SERRAGE**
[72] BAUER, MICHAEL, DE
[72] BRAND, WERNER, DE
[72] KEINER, HAGEN, DE
[71] DYWIDAG-SYSTEMS INTERNATIONAL GMBH, DE
[85] 2019-05-28
[86] 2017-12-15 (PCT/EP2017/083012)
[87] (WO2018/114664)
[30] DE (10 2016 225 416.2) 2016-12-19

[21] **3,045,224**
[13] A1
[51] **Int.Cl. C07D 239/12 (2006.01) A01N 43/54 (2006.01) C07D 277/14 (2006.01)**
[25] EN
[54] **PESTICIDAL COMPOUNDS**
[54] **COMPOSES PESTICIDES**
[72] SAMBASIVAN, SUNDERRAMAN, IN
[72] NARINE, ARUN, DE
[72] CHAUDHURI, RUPSHA, IN
[72] VALLINAYAGAM, RAMAKRISHNAN, IN
[72] VYAS, DEVENDRA, IN
[72] ADISECHAN, ASHOKKUMAR, IN
[72] DATTA, GOPAL KRISHNA, DE
[71] BASF SE, DE
[85] 2019-05-28
[86] 2017-12-06 (PCT/EP2017/081700)
[87] (WO2018/108671)
[30] EP (16204569.4) 2016-12-16

[21] **3,045,225**
[13] A1
[51] **Int.Cl. C12G 3/08 (2006.01) B01D 3/10 (2006.01) C12H 3/02 (2019.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR ALCOHOLIC BEVERAGE DEALCOHOLIZATION**
[54] **APPAREIL ET PROCEDE DE DESALCOOLISATION DE BOISSON ALCOOLISEE**
[72] GAUFFIN, SAMI, FI
[71] WINEMILL OY, FI
[85] 2019-05-28
[86] 2017-11-29 (PCT/FI2017/050844)
[87] (WO2018/100247)
[30] FI (20165906) 2016-11-29

[21] **3,045,226**
[13] A1
[51] **Int.Cl. A61K 47/69 (2017.01) A61K 9/00 (2006.01)**
[25] EN
[54] **PREPARATION OF SOLID CYCLODEXTRIN COMPLEXES FOR OPHTHALMIC ACTIVE PHARMACEUTICAL INGREDIENT DELIVERY**
[54] **PREPARATION DE COMPLEXES SOLIDES DE CYCLODEXTRINE PERMETTANT UNE ADMINISTRATION DE SUBSTANCE PHARMACEUTIQUE ACTIVE OPHTALMIQUE**
[72] LOFTSSON, THORSTEINN, IS
[72] FULOP, ZOLTAN, IS
[71] OCULIS SA, CH
[85] 2019-05-28
[86] 2017-11-29 (PCT/IB2017/001659)
[87] (WO2018/100434)
[30] US (62/427,737) 2016-11-29

[21] **3,045,227**
[13] A1
[51] **Int.Cl. C12M 1/26 (2006.01) B01L 3/02 (2006.01) C12M 1/00 (2006.01) C12N 15/10 (2006.01) G01N 1/02 (2006.01) G01N 1/04 (2006.01) G01N 1/28 (2006.01) G01N 1/40 (2006.01) G01N 21/03 (2006.01) G01N 21/64 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR THE ISOLATION AND TREATMENT OF PARTICULATE TARGETS**
[54] **PROCEDE ET APPAREIL POUR L'ISOLEMENT ET LE TRAITEMENT DE CIBLES PARTICULAIRES**
[72] SEEGER, STEFAN, CH
[72] NIEHREN, STEFAN, DE
[71] MOLECULAR MACHINES & INDUSTRIES AG, CH
[85] 2019-05-28
[86] 2017-12-20 (PCT/EP2017/083872)
[87] (WO2018/122071)
[30] EP (16207486.8) 2016-12-30

[21] **3,045,228**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) A61K 35/76 (2015.01) C12N 9/78 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **ONCOLYTIC VIRUSES AND THERAPEUTIC MOLECULES**
[54] **VIRUS ONCOLYTIQUES ET MOLECULES THERAPEUTIQUES**
[72] ERBS, PHILIPPE, FR
[72] FOLOPPE, JOHANN, FR
[71] TRANSGENE SA, FR
[85] 2019-05-28
[86] 2017-12-21 (PCT/EP2017/084022)
[87] (WO2018/122088)
[30] EP (16306831.5) 2016-12-28

[21] **3,045,229**
[13] A1
[51] **Int.Cl. D21H 23/08 (2006.01) G06T 7/62 (2017.01) G01N 15/02 (2006.01) G01N 21/00 (2006.01) G01N 33/34 (2006.01) G01N 21/17 (2006.01) G01N 21/84 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MEASURING SUSPENSION AND CONTROLLING PROCESS OF SUSPENSION**
[54] **APPAREIL ET PROCEDE DE MESURE DE SUSPENSION ET DE COMMANDE DE PROCESSUS DE SUSPENSION**
[72] KAUPPINEN, LASSE, FI
[72] RANTALA, TIMO, FI
[72] KUMPULAINEN, HEIKKI, FI
[71] VALMET AUTOMATION OY, FI
[85] 2019-05-28
[86] 2017-12-04 (PCT/FI2017/050857)
[87] (WO2018/104580)
[30] FI (20165924) 2016-12-05

[21] **3,045,230**
[13] A1
[51] **Int.Cl. C07K 14/725 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **T CELL RECEPTORS WITH IMPROVED PAIRING**
[54] **RECEPTEURS DE LYMPHOCYTES T A APPARIEMENT AMELIORE**
[72] BUNK, SEBASTIAN, DE
[72] MAURER, DOMINIK, DE
[72] FRITSCHE, JENS, DE
[72] WAGNER, CLAUDIA, DE
[72] ALTEN, LEONIE, DE
[72] HOFFGAARD, FRANZISKA, DE
[72] FERBER, MATHIAS, FR
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2019-05-28
[86] 2017-12-06 (PCT/EP2017/081745)
[87] (WO2018/104407)
[30] DE (10 2016 123 893.7) 2016-12-08
[30] US (62/497,895) 2016-12-08

[21] **3,045,231**
[13] A1
[51] **Int.Cl. H02M 3/335 (2006.01) H02J 50/12 (2016.01) H02M 1/00 (2007.10)**
[25] EN
[54] **WIRELESS POWER TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE PUISSANCE SANS FIL**
[72] YATES, DAVID, GB
[72] KKELIS, GEORGE, GB
[72] MITCHESON, PAUL, GB
[72] ALDHAHER, SAMER, GB
[71] IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE, GB
[85] 2019-05-28
[86] 2017-11-29 (PCT/GB2017/053607)
[87] (WO2018/100374)
[30] GB (1620236.8) 2016-11-29
[30] GB (1620552.8) 2016-12-02

[21] **3,045,232**
[13] A1
[51] **Int.Cl. F16G 11/10 (2006.01)**
[25] EN
[54] **SECURING DEVICE**
[54] **DISPOSITIF DE FIXATION**
[72] GIEMZA, LEE, GB
[71] GRIPPLE LIMITED, GB
[85] 2019-05-28
[86] 2018-01-15 (PCT/GB2018/000008)
[87] (WO2018/130809)
[30] GB (GB1700691.7) 2017-01-16
[30] GB (GB1718938.2) 2017-11-16
[30] GB (GB1800555.3) 2018-01-12

[21] **3,045,233**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C07K 14/47 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **NOVEL T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME**
[54] **NOUVEAUX RECEPTEURS DE LYMPHOCYTES T ET IMMUNOTHERAPIE LES UTILISANT**
[72] ALTEN, LEONIE, DE
[72] BUNK, SEBASTIAN, DE
[72] MAURER, DOMINIK, DE
[72] WAGNER, CLAUDIA, DE
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2019-05-28
[86] 2017-12-07 (PCT/EP2017/081800)
[87] (WO2018/104438)
[30] DE (10 2016 123 847.3) 2016-12-08
[30] US (62/431,588) 2016-12-08

[21] **3,045,234**
[13] A1
[51] **Int.Cl. C07K 14/725 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **NOVEL T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME**
[54] **NOUVEAUX RECEPTEURS DE LYMPHOCYTES T ET THERAPIE IMMUNITAIRE LES UTILISANT**
[72] ALTEN, LEONIE, DE
[72] BUNK, SEBASTIAN, DE
[72] MAURER, DOMINIK, DE
[72] WAGNER, CLAUDIA, DE
[71] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2019-05-28
[86] 2017-12-07 (PCT/EP2017/081893)
[87] (WO2018/104478)
[30] DE (10 2016 123 859.7) 2016-12-08
[30] US (62/431,580) 2016-12-08

[21] **3,045,235**
[13] A1
[51] **Int.Cl. C09D 5/00 (2006.01)**
[25] EN
[54] **AQUEOUS COATING COMPOSITION FOR CORROSION PROTECTION**
[54] **COMPOSITION DE REVETEMENT AQUEUSE ASSURANT UNE PROTECTION CONTRE LA CORROSION**
[72] LUNZER, FLORIAN, AT
[72] TEMEL, ARMIN, AT
[72] HOBISCH, GERALD, AT
[72] ETZ, OLIVER, DE
[71] ALLNEX AUSTRIA GMBH, AT
[85] 2019-05-28
[86] 2018-01-16 (PCT/EP2018/050917)
[87] (WO2018/130700)
[30] EP (17151694.1) 2017-01-16

[21] **3,045,236**
[13] A1
[51] **Int.Cl. A61D 5/00 (2006.01) A01K 13/00 (2006.01)**
[25] EN
[54] **ANIMAL DENTAL HYGIENIC DEVICE**
[54] **DISPOSITIF HYGIENIQUE DENTAIRE POUR ANIMAUX**
[72] COOPERSMITH, ALLAN, CA
[72] FISET, NATHALIE, CA
[71] COOPERSMITH, ALLAN, CA
[71] FISET, NATHALIE, CA
[85] 2019-05-28
[86] 2017-11-28 (PCT/IB2017/057472)
[87] (WO2018/096524)
[30] US (62/497,616) 2016-11-28
[30] US (62/467,431) 2017-03-06
[30] US (62/571,689) 2017-10-12

[21] **3,045,237**
[13] A1
[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/4155 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY**
[54] **POLYTHERAPIE**
[72] BARBASH, OLENA, US
[72] FEDORIW, ANDY, US
[72] GERHART, SARAH, US
[72] KRUGER, RYAN G., US
[72] LARAIO, JENNY, US
[72] MOHAMMAD, HELAI, US
[72] O'BRIEN, SHANE, US
[72] RUBIN, JACOB, US
[72] SHAH, NIYANT, US
[72] ZHANG, PING, US
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2019-05-28
[86] 2017-11-30 (PCT/IB2017/057546)
[87] (WO2018/100532)
[30] US (62/428,751) 2016-12-01

[21] **3,045,238**
[13] A1
[51] **Int.Cl. B23P 15/00 (2006.01) B23B 1/00 (2006.01) B23B 5/08 (2006.01) C25D 11/02 (2006.01) A45D 33/00 (2006.01) A45D 34/00 (2006.01) A45D 40/00 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF CONTAINERS FOR COSMETIC PRODUCTS**
[54] **PROCEDE DESTINE A LA FABRICATION DE RECIPIENTS DESTINES A DES PRODUITS COSMETIQUES**
[72] PEROLINI, PIETRO, CH
[71] O.M.Z. OFFICINA MECCANICA ZANOTTI S.P.A., IT
[85] 2019-05-28
[86] 2017-10-13 (PCT/IB2017/056351)
[87] (WO2018/100448)
[30] IT (102016000121240) 2016-11-30

[21] **3,045,239**
[13] A1
[51] **Int.Cl. A01N 37/18 (2006.01) A01N 43/40 (2006.01) A01N 43/86 (2006.01) A01N 47/40 (2006.01) A01N 51/00 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **TREATMENT FOR REMOVING ECTOPARASITES FROM FISH**
[54] **TRAITEMENT D'ELIMINATION D'ECTOPARASITES DES POISSONS**
[72] MARSHALL, JOHN, GB
[72] LONGSHAW, MATTHEW, GB
[72] APPLEYARD, ELIZABETH, GB
[71] BENCHMARK ANIMAL HEALTH LIMITED, GB
[85] 2019-05-28
[86] 2017-12-07 (PCT/EP2017/081924)
[87] (WO2018/104487)
[30] NO (20161951) 2016-12-08

[21] **3,045,240**
[13] A1
[51] **Int.Cl. F24C 15/20 (2006.01)**
[25] EN
[54] **A FLUE FOR EXHAUSTING FUMES FROM ENVIRONMENTS, PARTICULARLY FOR EXHAUSTING COOKING FUMES AND DOMESTIC HOOD HAVING SUCH A FLUE**
[54] **CONDUIT D'EVACUATION DE FUMEES A PARTIR D'ENVIRONNEMENTS, EN PARTICULIER D'EVACUATION DE FUMEES DE CUISSON, ET HOTTE DOMESTIQUE COMPRENANT UN TEL CONDUIT**
[72] GARGIULO, ANTONELLO, IT
[72] DE FILIPPO, FRANCESCO, IT
[71] ELICA S.P.A, IT
[85] 2019-05-28
[86] 2017-10-30 (PCT/IB2017/056712)
[87] (WO2018/104809)
[30] IT (102016000123970) 2016-12-06

[21] **3,045,241**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 31/415 (2006.01) A61K 31/4155 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY**
[54] **POLYTHERAPIE**
[72] BARBASH, OLENA, US
[72] FEDORIW, ANDY, US
[72] KORENCHUK, SUSAN, US
[72] MOHAMMAD, HELAI, US
[72] SHERK, CHRISTIAN, US
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2019-05-28
[86] 2017-11-30 (PCT/IB2017/057548)
[87] (WO2018/100534)
[30] US (62/428,757) 2016-12-01
[30] US (62/433,359) 2016-12-13

[21] **3,045,242**
[13] A1
[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/4155 (2006.01) A61K 31/433 (2006.01) A61K 31/5375 (2006.01) A61P 25/00 (2006.01) C07D 413/04 (2006.01) C07D 417/04 (2006.01)**
[25] EN
[54] **HETEROARYLPHENOXY BENZAMIDE KAPPA OPIOID LIGANDS**
[54] **LIGANDS OPIOIDES KAPPA HETEROARYLPHENOXY BENZAMIDE**
[72] ARORA, KAPILDEV KASHMIRILAL, US
[72] BRODNEY, MICHAEL AARON, US
[72] DUNN, MATTHEW FRANCIS, US
[72] GREEN, MICHAEL ERIC, US
[72] KABLAOUI, NATASHA MARIAM, US
[72] KAUFFMAN, GREGORY WAYNE, US
[72] MENTE, SCOT RICHARD, US
[72] MONTGOMERY, JUSTIN IAN, US
[72] RANKIC, DANICA ANTONIA, US
[72] ROGERS, BRUCE NELSEN, US
[72] VERHOEST, PATRICK ROBERT, US
[71] PFIZER INC., US
[85] 2019-05-28
[86] 2017-11-27 (PCT/IB2017/057418)
[87] (WO2018/096510)
[30] US (62/426,980) 2016-11-28
[30] US (62/576,435) 2017-10-24
[30] US (62/585,016) 2017-11-13

[21] **3,045,243**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY**
[54] **POLYTHERAPIE**
[72] BARBASH, OLENA, US
[72] KORENCHUK, SUSAN, US
[72] SHERK, CHRISTIAN, US
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2019-05-28
[86] 2017-11-30 (PCT/IB2017/057549)
[87] (WO2018/100535)
[30] US (62/428,764) 2016-12-01
[30] US (62/433,363) 2016-12-13

[21] **3,045,244**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/404 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61P 25/02 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/28 (2006.01) C07D 209/30 (2006.01) C07D 209/90 (2006.01) C07D 333/62 (2006.01) C07D 405/12 (2006.01) C07D 407/12 (2006.01) C07D 409/04 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 421/12 (2006.01) C07D 471/04 (2006.01) C07D 493/04 (2006.01)**
[25] EN
[54] **(AZA)INDOLE-, BENZOTHIOPHENE-, AND BENZOFURAN-3-SULFONAMIDES**
[54] **(AZA)INDOLE, BENZOTHIOPHENE ET BENZOFURAN-3-SULFONAMIDES**
[72] MUELLER, CHRISTA E., DE
[72] PEGURIER, CECILE, BE
[72] DELIGNY, MICHAEL LOUIS ROBERT, BE
[72] EL-TAYEB, ALI, DE
[72] HOCKEMEYER, JOERG, DE
[72] LEDECQ, MARIE, BE
[72] MERCIER, JOEL, BE
[72] PROVINS, LAURENT, BE
[72] BOSHTA, NADER M., EG
[72] BHATTARAI, SANJAY, US
[72] NAMASIVAYAM, VIGNESHWARAN, DE
[72] FUNKE, MARIO, DE
[72] SCHWACH, LUKAS, DE
[72] GOLLOS, SABRINA, DE
[72] VON LAUFENBERG, DANIEL, DE
[72] BARRE, ANAIS, FR
[71] UCB PHARMA GMBH, DE
[85] 2019-05-28
[86] 2017-12-27 (PCT/EP2017/084602)
[87] (WO2018/122232)
[30] EP (16207137.7) 2016-12-28

[21] **3,045,245**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **MUSCLE PERFORMANCE IMPROVEMENT COMPOUNDS**
[54] **COMPOSES D'AMELIORATION DES PERFORMANCES MUSCULAIRES**
[72] VRIJBLOED, JAN WILLEM, CH
[72] BOIDO, MARINA MARIA, IT
[72] BUTENKO, OLENA, CZ
[72] SCHELLINO, ROBERTA, IT
[71] PHARMAFOX THERAPEUTICS AG, CH
[85] 2019-05-28
[86] 2017-11-28 (PCT/IB2017/057436)
[87] (WO2018/100483)
[30] GB (1620119.6) 2016-11-29

[21] **3,045,246**
[13] A1
[51] **Int.Cl. H04W 12/08 (2009.01) B06B 1/02 (2006.01) F41A 17/06 (2006.01)**
[25] EN
[54] **PREVENTING UNAUTHORIZED USE OF DEVICES**
[54] **PREVENTION D'UTILISATION NON AUTORISEE DE DISPOSITIFS**
[72] PALTI, YORAM, IL
[71] P&P ULTRA G LTD., IL
[85] 2019-05-28
[86] 2017-11-28 (PCT/IB2017/057451)
[87] (WO2018/100493)
[30] US (62/427,225) 2016-11-29

[21] **3,045,247**
[13] A1
[51] **Int.Cl. G05D 1/00 (2006.01) B64C 13/50 (2006.01) G06F 11/16 (2006.01)**
[25] EN
[54] **AIRCRAFT CONTROL SYSTEM WITH RESIDUAL ERROR CONTAINMENT**
[54] **SYSTEME DE COMMANDE D'AERONEF AVEC CONFINEMENT D'ERREUR RESIDUELLE**
[72] GANSMANDEL, FRANCK, CA
[72] SMITH, TIMOTHY, CA
[71] BOMBARDIER INC., CA
[85] 2019-05-28
[86] 2017-11-28 (PCT/IB2017/057455)
[87] (WO2018/100494)
[30] US (62/428,150) 2016-11-30

[21] **3,045,249**
[13] A1
[51] **Int.Cl. G01N 1/28 (2006.01) G01N 1/44 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **BIOLOGIC SAMPLE PREPARATION SYSTEM AND RELATED METHOD**
[54] **SYSTEME DE PREPARATION D'ECHANTILLONS BIOLOGIQUES ET PROCEDE ASSOCIE**
[72] CHEN, YUANJI, CA
[72] ZHOU, CHAOJUN, CA
[72] LIU, ZONGHUA, CA
[72] CHEN, TAO, CA
[72] NIE, EILEEN XIAO FENG, CA
[72] QIN, YU, CA
[72] WU, YUAN MIN, CA
[71] SM RESEARCH INC., CA
[85] 2019-05-09
[86] 2016-11-18 (PCT/IB2016/001641)
[87] (WO2018/091938)

[21] **3,045,252**
[13] A1
[51] **Int.Cl. G01G 19/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR DETECTING THE WEIGHT OF A LOAD MOVING ON SCALES**
[54] **PROCEDE ET DISPOSITIF DE DETECTION DU POIDS D'UNE CHARGE SE DEPLACANT SUR UNE BALANCE**
[72] LUSTENBERGER, MARTIN, CH
[72] SUTER, OLIVIER, CH
[71] DIGI SENS HOLDING AG, CH
[85] 2019-05-28
[86] 2017-11-24 (PCT/IB2017/057396)
[87] (WO2018/100475)
[30] CH (01566/16) 2016-11-29

[21] **3,045,255**
[13] A1
[51] **Int.Cl. B25H 1/20 (2006.01)**
[25] EN
[54] **SAFETY WORKBENCH, MOBILE LABORATORY AND METHOD**
[54] **POSTE DE SECURITE, LABORATOIRE MOBILE ET PROCEDE**
[72] DREYER, HERMANN, DE
[71] RHEINMETALL MAN MILITARY VEHICLES GMBH, DE
[85] 2019-05-28
[86] 2017-12-11 (PCT/EP2017/082247)
[87] (WO2018/108824)
[30] DE (10 2016 124 495.3) 2016-12-15

[21] **3,045,256**
[13] A1
[51] **Int.Cl. E21B 36/00 (2006.01) E21B 43/24 (2006.01) H05B 6/62 (2006.01)**
[25] EN
[54] **TUBULAR PROTECTION FOR RADIOFREQUENCY SYSTEM TO IMPROVE THE RECOVERY OF HEAVY OILS**
[54] **PROTECTION TUBULAIRE POUR SYSTEME RADIOFREQUENCE AFIN D'AMELIORER LA RECUPERATION D'HUILES LOURDES**
[72] BURRAFATO, SEBASTIANO, IT
[72] MALIARDI, ALBERTO, IT
[72] DI RENZO, DOMENICO, IT
[71] ENI S.P.A., IT
[85] 2019-05-28
[86] 2017-12-01 (PCT/IB2017/057567)
[87] (WO2018/100545)
[30] IT (102016000122488) 2016-12-02

[21] **3,045,258**
[13] A1
[51] **Int.Cl. A47J 36/24 (2006.01)**
[25] EN
[54] **DEVICE FOR BRINGING BABY FOOD TO A CERTAIN TEMPERATURE**
[54] **DISPOSITIF DE MISE EN TEMPERATURE DE NOURRITURE POUR BEBE**
[72] FURRER, ETIENNE, CH
[72] FELBER, ARMIN, CH
[72] MUTHER, MARCEL, CH
[71] MEDELA HOLDING AG, CH
[85] 2019-05-28
[86] 2017-12-11 (PCT/EP2017/082225)
[87] (WO2018/108814)
[30] EP (16204285.7) 2016-12-15

[21] **3,045,259**
[13] A1
[51] **Int.Cl. A23G 9/16 (2006.01) A23G 9/04 (2006.01) A23G 9/22 (2006.01)**
[25] EN
[54] **COOLING SYSTEM AND APPLIANCE FOR PRODUCING COOLED EDIBLE PRODUCTS**
[54] **SYSTEME ET APPAREIL DE REFROIDISSEMENT POUR LA PRODUCTION DE PRODUITS COMESTIBLES REFROIDIS**
[72] BETH HALACHMI, BARAK, IL
[72] RAND, JACOB, IL
[72] KLIGER, EYNAV, IL
[72] DABELSTIN, ILAN, IL
[72] ATLAS, ADI, IL
[72] SAUDI, BILAL, IL
[71] SOLO GELATO LTD., IL
[85] 2019-05-28
[86] 2017-12-13 (PCT/IL2017/051345)
[87] (WO2018/109765)
[30] IL (249593) 2016-12-15
[30] IL (249595) 2016-12-15

[21] **3,045,260**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **CYTOPLASMIC MALE STERILITY GENE ORF147 OF PIGEONPEA, AND USES THEREOF**
[54] **GENE ORF147 DE LA STERILITE MASCULINE CYTOPLASMIQUE DE PIGEONPOIS, ET SES UTILISATIONS**
[72] MATHUR, POOJA BHATNAGAR, IN
[72] SHARMA, KIRAN KUMAR, IN
[72] GUPTA, RANADHEER KUMAR, IN
[71] INTERNATIONAL CROPS RESEARCH INSTITUTE FOR THE SEMI-ARID TROPICS (ICRISAT), IN
[85] 2019-05-28
[86] 2017-12-01 (PCT/IN2017/050564)
[87] (WO2018/100590)
[30] IN (201641041375) 2016-12-02

[21] **3,045,262**
[13] A1
[51] **Int.Cl. F16D 41/08 (2006.01) E06B 9/40 (2006.01) E06B 9/80 (2006.01)**
[25] EN
[54] **CLUTCH APPARATUS AND SHIELDING APPARATUS**
[54] **DISPOSITIF D'EMBRAYAGE ET DISPOSITIF DE BLINDAGE**
[72] TANIGAWA, FUMIHIKO, JP
[72] TAKAYAMA, YOSHIHIRO, JP
[72] NAKAMURA, HAJIME, JP
[71] TACHIKAWA CORPORATION, JP
[85] 2019-05-28
[86] 2016-11-28 (PCT/JP2016/085240)
[87] (WO2017/094685)
[30] JP (2015-236798) 2015-12-03

[21] **3,045,267**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 36/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR USE IN THE TREATMENT OF INTESTINAL ALTERATIONS**
[54] **COMPOSITION DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT DE TROUBLES INTESTINAUX**
[72] BIFFI, ANDREA, IT
[72] ROSSI, RUGGERO, IT
[72] FIORE, WALTER, IT
[72] SALAMINA, SILVIA, IT
[71] SOFAR S.P.A., IT
[85] 2019-05-28
[86] 2017-12-01 (PCT/IB2017/057580)
[87] (WO2018/100551)
[30] IT (102016000122310) 2016-12-01

[21] **3,045,268**
[13] A1
[51] **Int.Cl. D21H 21/16 (2006.01) C09D 101/02 (2006.01) C09D 103/02 (2006.01) C09D 103/04 (2006.01) D21H 11/18 (2006.01) D21H 17/25 (2006.01) D21H 17/28 (2006.01) D21H 19/54 (2006.01)**
[25] EN
[54] **A PROCESS FOR SURFACE SIZING USING A JET COOKED DISPERSION COMPRISING MICROFIBRILLATED CELLULOSE, STARCH AND PIGMENT AND/OR FILLER**
[54] **PROCEDE D'ENCOLLAGE DE SURFACE A L'AIDE D'UNE DISPERSION CUITE PAR JET COMPRENANT DE LA CELLULOSE MICROFIBRILLEE, DE L'AMIDON ET DES PIGMENTS ET/OU DES CHARGES**
[72] MANSSON, ERIK, SE
[72] HAKANSSON, PHILIP, SE
[71] STORA ENSO OYJ, FI
[85] 2019-05-28
[86] 2017-12-19 (PCT/IB2017/058109)
[87] (WO2018/116150)
[30] SE (1651701-3) 2016-12-21

[21] **3,045,269**
[13] A1
[51] **Int.Cl. A61L 2/22 (2006.01) A01N 25/06 (2006.01) A01N 63/04 (2006.01) A47L 11/00 (2006.01) B08B 7/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **METHOD FOR CLEANING SURFACES IN INTERIOR SPACES AND IN TECHNICAL EQUIPMENTS WITH BENIGN BACTERIA**
[54] **PROCEDE DE NETTOYAGE DE SURFACES DANS DES ESPACES INTERIEURS ET DANS DES EQUIPEMENTS TECHNIQUES A L'AIDE DE BACTERIES BENIGNES**
[72] WILLOCX, FILIP WILLEM MARIA, BE
[72] DE KOSTER, KOEN, BE
[71] LIVING TECHNOLOGIES, COOPERATIEVE VENNOOTSCHAP MET BEPERKTE AANSPRAKELIJKHEID, BE
[85] 2019-05-28
[86] 2018-01-24 (PCT/IB2018/050424)
[87] (WO2018/138645)
[30] BE (2017/5044) 2017-01-25

[21] **3,045,271**
[13] A1
[51] **Int.Cl. B67D 1/08 (2006.01)**
[25] EN
[54] **CONVERSION DEVICE FOR CONVERTING MANUAL LIQUID SUPPLY DEVICE INTO AUTOMATIC LIQUID SUPPLY DEVICE, AND ATTACHING PLATE PROVIDED TO CONVERSION DEVICE**
[54] **DISPOSITIF DE CONVERSION PERMETTANT DE CONVERTIR UN DISPOSITIF D'ALIMENTATION EN LIQUIDE MANUEL EN UN DISPOSITIF D'ALIMENTATION EN LIQUIDE AUTOMATIQUE ET PROCEDE PERMETTANT DE FIXER LEDIT DISPOSITIF DE CONVERSION**
[72] MITSUHATA, SHINSUKE, JP
[72] TAKAHASHI, TOMOHIRO, JP
[72] WADA, TAKASHI, JP
[72] TANAKA, TORU, JP
[72] KUSUNOKI, KENJI, JP
[71] ASAHI GROUP HOLDING, LTD., JP
[71] ASAHI BREWERIES, LTD., JP
[85] 2019-05-28
[86] 2017-09-08 (PCT/JP2017/032401)
[87] (WO2018/100827)
[30] JP (2016-230765) 2016-11-29

[21] **3,045,272**
[13] A1
[51] **Int.Cl. H04L 1/00 (2006.01) H04W 72/04 (2009.01) H04L 27/26 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MULTISTREAM TRANSMISSION**
[54] **PROCEDE ET APPAREIL POUR DES TRANSMISSIONS MULTIFLUX**
[72] ONGGOSANUSI, EKO, US
[72] RAHMAN, MD SAIFUR, US
[72] KIM, YOUNSUN, KR
[71] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2019-05-28
[86] 2017-12-01 (PCT/KR2017/014032)
[87] (WO2018/101799)
[30] US (62/428,786) 2016-12-01
[30] US (62/441,140) 2016-12-30
[30] US (62/446,927) 2017-01-17
[30] US (62/449,858) 2017-01-24
[30] US (62/464,762) 2017-02-28
[30] US (62/477,063) 2017-03-27
[30] US (62/501,195) 2017-05-04
[30] US (62/520,129) 2017-06-15
[30] US (62/527,370) 2017-06-30
[30] US (15/821,882) 2017-11-24

[21] **3,045,273**
[13] A1
[51] **Int.Cl. F16L 55/105 (2006.01) F16L 55/16 (2006.01) F16L 55/168 (2006.01) F16L 55/18 (2006.01)**
[25] EN
[54] **AN ARRANGEMENT FOR SEPARATING A CONNECTION BETWEEN TWO PRESSURIZED FLANGED TUBE SECTIONS**
[54] **AGENCEMENT DE SEPARATION DE RACCORDEMENT ENTRE DEUX SECTIONS DE TUBE A BRIDE SOUS PRESSION**
[72] AAMODT, KJETIL, NO
[71] IK-NORWAY AS, NO
[85] 2019-05-28
[86] 2017-08-18 (PCT/NO2017/050206)
[87] (WO2018/101835)
[30] NO (20161899) 2016-11-29

[21] **3,045,276**
[13] A1
[51] **Int.Cl. A61K 35/745 (2015.01) A23L 33/00 (2016.01) A23L 33/135 (2016.01) A61K 31/7048 (2006.01) A61K 35/74 (2015.01) A61P 3/06 (2006.01) A61P 5/30 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) A61P 19/10 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C12N 1/20 (2006.01) C12P 7/22 (2006.01)**
[25] EN
[54] **AGLYCONE PRODUCTION PROMOTER**
[54] **PROMOTEUR DE LA PRODUCTION D'AGLYCONE**
[72] YAO, RUIQING, JP
[72] SHIMIZU, KANETADA, JP
[72] ODAMAKI, TOSHITAKA, JP
[71] MORINAGA MILK INDUSTRY CO., LTD., JP
[85] 2019-05-28
[86] 2017-06-19 (PCT/JP2017/022538)
[87] (WO2018/100776)
[30] JP (2016-231320) 2016-11-29

[21] **3,045,277**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/15 (2006.01) A61B 5/157 (2006.01) H04M 1/725 (2006.01)**
[25] EN
[54] **CONTINUOUS GLUCOSE MONITORING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE GLUCOSE EN CONTINU**
[72] PETERSON, THOMAS H., US
[72] WINARTA, HANDANI, US
[72] FLORINDI, ANTHONY, US
[71] SANVITA MEDICAL, LLC, US
[85] 2019-05-28
[86] 2016-12-22 (PCT/US2016/068196)
[87] (WO2018/118061)

[21] **3,045,284**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01)**
[25] EN
[54] **BACTERIOPHAGE COMPOSITIONS COMPRISING RESPIRATORY ANTIBACTERIAL PHAGES AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS BACTERIOPHAGES COMPRENANT DES PHAGES ANTIBACTERIENS RESPIRATOIRES ET LEURS METHODES D'UTILISATION**
[72] CORTE-REAL, SOFIA VALKER, PT
[72] COSTA GARCIA, MIGUEL ANGELO, PT
[72] RODRIGUES LEANDRO, CLARA ISABEL, PT
[72] MARTINS BARBOSA, ANA RAQUEL, PT
[71] TECHNOPHAGE, INVESTIGACAO E DESENVOLVIMENTO EM BIOTECNOLOGIA, SA, PT
[71] TECNIFAR - INDUSTRIA TECNICA FARMACEUTICA, SA, PT
[85] 2019-05-28
[86] 2017-12-04 (PCT/PT2017/050028)
[87] (WO2018/106135)
[30] US (62/430,113) 2016-12-05

[21] **3,045,285**
[13] A1
[51] **Int.Cl. F16C 32/04 (2006.01)**
[25] EN
[54] **BALANCED SWITCHING AMPLIFIER FOR A MAGNETIC BEARING ASSEMBLY**
[54] **AMPLIFICATEUR DE COMMUTATION EQUILIBRE POUR ENSEMBLE PALIER MAGNETIQUE**
[72] FIELD, ROBERT JETT, US
[72] TREUBERT, KIRK J., US
[71] SYNCHRONY, INC., US
[85] 2019-05-28
[86] 2017-10-23 (PCT/US2017/057828)
[87] (WO2018/102048)
[30] US (62/428,077) 2016-11-30

[21] **3,045,286**
[13] A1
[51] **Int.Cl. H04N 21/231 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SUPPLEMENTING CAPTURED DATA**
[54] **SYSTEMES ET PROCEDES D'ENRICHISSEMENT DE DONNEES CAPTUREES**
[72] WOMACK, MARCUS, US
[72] REITZ, JAMES, US
[72] SHEKARRI, NACHE, US
[72] WAGNER, DANIEL, US
[72] HANCHETT, MARK, US
[71] AXON ENTERPRISE, INC., US
[85] 2019-05-28
[86] 2017-10-27 (PCT/US2017/058790)
[87] (WO2018/081581)
[30] US (62/414,446) 2016-10-28

[21] **3,045,288**
[13] A1
[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **BIOABSORBABLE DEFORMABLE ANCHORS**
[54] **ANCRES DEFORMABLES BIO-ABSORBABLES**
[72] KHOWAYLO, ALEX, US
[72] MCCARTHY, MICHAEL P., US
[72] FERREIRA, RUI J., US
[72] KRIJGER, PETER, US
[72] TRAN, MINH-TUAN RICHARD, US
[72] GABEL, DOUGLAS WILLIAM, US
[71] ACUITIVE TECHNOLOGIES, INC., US
[85] 2019-05-28
[86] 2017-11-10 (PCT/US2017/061068)
[87] (WO2018/102104)
[30] US (62/428,323) 2016-11-30

[21] **3,045,289**
[13] A1
[51] **Int.Cl. B01J 29/89 (2006.01) C01B 32/50 (2017.01) B01J 23/00 (2006.01) B01J 35/02 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01) F23C 10/00 (2006.01) F23C 10/01 (2006.01) F23C 13/08 (2006.01) B01J 23/72 (2006.01) B01J 35/00 (2006.01) B01J 37/00 (2006.01)**
[25] FR
[54] **MACROPOROUS OXYGEN CARRIER SOLID WITH A REFRACTORY FELDSPAR/FELPDSPATHOID, METHOD FOR THE PREPARATION THEREOF, AND USE THEREOF IN A CHEMICAL-LOOPING OXIDATION-REDUCTION METHOD**
[54] **SOLIDE PORTEUR D'OXYGENE MACROPOREUX AVEC FELDSPATH/FELPDSPATHOIDE REFRACTAIRE, SON PROCEDE DE PREPARATION, SON UTILISATION DANS UN PROCEDE D'OXYDO-REDUCTION EN BOUCLE CHIMIQUE**
[72] LAMBERT, ARNOLD, FR
[72] LAROCHE, CATHERINE, FR
[72] MARTI, DELPHINE, FR
[72] COMTE, ELODIE, FR
[71] IFP ENERGIES NOUVELLES, FR
[71] TOTAL RAFFINAGE CHIMIE, FR
[85] 2019-05-28
[86] 2017-12-21 (PCT/EP2017/084209)
[87] (WO2018/115345)
[30] FR (1663302) 2016-12-23

[21] **3,045,290**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **LASER SINTERED FLEXIBLE RIBBON**
[54] **RUBAN FLEXIBLE FRITTE AU LASER**
[72] BRINGUIER, ANNE GERMAINE, US
[72] CHIASSON, DAVID WESLEY, CA
[72] NAYAK, BARADA KANTA, US
[71] CORNING OPTICAL COMMUNICATIONS LLC, US
[85] 2019-05-28
[86] 2017-11-15 (PCT/US2017/061884)
[87] (WO2018/102135)
[30] US (62/427,611) 2016-11-29

[21] **3,045,291**
[13] A1
[51] **Int.Cl. C10G 9/36 (2006.01) C01B 17/28 (2006.01) C10G 45/02 (2006.01) C10G 45/04 (2006.01) C10G 65/04 (2006.01) C10G 69/06 (2006.01)**
[25] EN
[54] **TRIM ALKALI METAL DESULFURIZATION OF REFINERY FRACTIONS**
[54] **DESULFURATION D'EQUILIBRAGE PAR METAL ALCALIN DE FRACTIONS DE RAFFINERIE**
[72] HANKS, PATRICK L., US
[71] EXXONMOBILE RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-28
[86] 2017-11-17 (PCT/US2017/062235)
[87] (WO2018/118293)
[30] US (62/435,891) 2016-12-19

[21] **3,045,292**
[13] A1
[51] **Int.Cl. F16K 49/00 (2006.01) F16K 1/22 (2006.01)**
[25] EN
[54] **SINGLE-PIECE VALVE CLOSURE MEMBERS HAVING INTEGRAL FLOW PATHS FORMED VIA ADDITIVE MANUFACTURING**
[54] **ELEMENTS DE FERMETURE DE SOUPAPE MONOBLOCS AYANT DES CHEMINS D'ECOULEMENT INTEGRES FORMES PAR FABRICATION ADDITIVE**
[72] VON ARB, JEFFREY MICHAEL, US
[71] FISHER CONTROLS INTERNATIONAL LLC, US
[85] 2019-05-28
[86] 2017-12-06 (PCT/US2017/064810)
[87] (WO2018/111633)
[30] US (15/378,726) 2016-12-14

[21] **3,045,294**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01)**
[25] EN
[54] **ANTI-TAU ANTIBODIES AND METHODS OF USE**
[54] **ANTICORPS ANTI-TAU ET METHODES D'UTILISATION DE CES DERNIERS**
[72] ADOLFSSON, OSKAR, CH
[72] VAN DER BRUG, MARCEL, US
[72] MUHS, ANDREAS, CH
[72] WILDSMITH, KRISTIN RUTH, US
[71] GENENTECH, INC., US
[71] AC IMMUNE SA, CH
[85] 2019-05-28
[86] 2017-12-06 (PCT/US2017/064855)
[87] (WO2018/106776)
[30] US (62/431,183) 2016-12-07

[21] **3,045,295**
[13] A1
[51] **Int.Cl. E21B 33/124 (2006.01) E21B 43/26 (2006.01) E21B 47/06 (2012.01) G06G 7/48 (2006.01)**
[25] EN
[54] **METHODS FOR SHUT-IN PRESSURE ESCALATION ANALYSIS**
[54] **PROCEDES D'ANALYSE D'ESCALADE DE PRESSION DE FERMETURE DE PUITS**
[72] ROUSSEL, NICOLAS P., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2019-05-28
[86] 2017-11-28 (PCT/US2017/063357)
[87] (WO2018/102271)
[30] US (62/427,262) 2016-11-29

[21] **3,045,296**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **GASTROINTESTINAL TRACT DETECTION METHODS, DEVICES AND SYSTEMS**
[54] **PROCEDES, DISPOSITIFS ET SYSTEMES DE DETECTION DU TRACTUS GASTRO-INTESTINAL**
[72] SINGH, SHARAT, US
[72] JONES, MITCHELL LAWRENCE, US
[71] PROGENITY INC., US
[85] 2019-05-28
[86] 2017-12-07 (PCT/US2017/065156)
[87] (WO2018/106945)
[30] US (62/431,297) 2016-12-07
[30] US (62/434,320) 2016-12-14
[30] US (62/478,753) 2017-03-30
[30] US (62/502,383) 2017-05-05
[30] US (62/545,157) 2017-08-14
[30] US (62/560,618) 2017-09-19
[30] US (62/583,768) 2017-11-09

[21] **3,045,297**
[13] A1
[51] **Int.Cl. G01V 1/40 (2006.01)**
[25] EN
[54] **ENGINEERED STRESS STATE WITH MULTI-WELL COMPLETIONS**
[54] **ETAT DE CONTRAINTE MODIFIE AVEC DES COMPLETIONS MULTI-PUITS**
[72] ROUSSEL, NICOLAS P., US
[72] LESSARD, MIKE D., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2019-05-28
[86] 2017-11-28 (PCT/US2017/063360)
[87] (WO2018/102274)
[30] US (62/427,262) 2016-11-29
[30] US (62/427,280) 2016-11-29

[21] **3,045,298**
[13] A1
[51] **Int.Cl. H04W 4/02 (2018.01) G06F 7/06 (2006.01) G06F 15/16 (2006.01) G06F 15/177 (2006.01) H04Q 5/22 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING LOCATION-BASED SERVICES**
[54] **SYSTEMES ET PROCEDES PERMETTANT D'IDENTIFIER DES SERVICES BASES SUR L'EMPLACEMENT**
[72] NELMS, DAVID MARTIN, US
[72] KIEFFER, BRADLEY JOSEPH, US
[72] DANIYALZADE, EYTAN, US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-28
[86] 2017-12-07 (PCT/US2017/065115)
[87] (WO2018/106919)
[30] US (62/432,267) 2016-12-09

[21] **3,045,299**
[13] A1
[51] **Int.Cl. A61N 1/39 (2006.01) A61N 1/04 (2006.01) A61N 1/18 (2006.01) A61N 1/32 (2006.01) A61N 1/38 (2006.01)**
[25] EN
[54] **DEFIBRILLATOR**
[54] **DEFIBRILLATEUR**
[72] BEYER, RORY M., US
[72] MONTGOMERY, CHARLES STONEWALL, US
[72] ANDREWS, GORDON MOSELEY P., US
[71] REVIVE SOLUTIONS, INC., US
[85] 2019-05-28
[86] 2017-12-07 (PCT/US2017/065163)
[87] (WO2018/111688)
[30] US (62/433,067) 2016-12-12
[30] US (62/566,896) 2017-10-02
[30] US (62/576,228) 2017-10-24

[21] **3,045,300**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **TWO PIECE ARMORED OPTICAL CABLES**
[54] **CABLES OPTIQUES BLINDES EN DEUX PARTIES**
[72] BLAZER, BRADLEY JEROME, US
[72] SEDDON, DAVID ALAN, US
[72] TEMPLE, KENNETH DARRELL, JR., US
[71] CORNING OPTICAL COMMUNICATIONS LLC, US
[85] 2019-05-28
[86] 2017-11-29 (PCT/US2017/063569)
[87] (WO2018/102330)
[30] US (62/428,526) 2016-11-30

[21] **3,045,301**
[13] A1
[51] **Int.Cl. G08G 5/04 (2006.01) G08G 5/00 (2006.01)**
[25] EN
[54] **COLLISION-AVOIDANCE SYSTEM AND METHOD FOR UNMANNED AIRCRAFT**
[54] **SYSTEME ET PROCEDE D'EVITEMENT DE COLLISION POUR AERONEF SANS PILOTE**
[72] KUNZI, FABRICE, US
[72] KEHLENBECK, ANDREW, US
[72] ROGERS, DONALD, US
[72] SARDONINI, MICHAEL, US
[72] SCOTT, EDWARD, US
[71] AURORA FLIGHT SCIENCES CORPORATION, US
[85] 2019-05-28
[86] 2018-01-05 (PCT/US2018/012588)
[87] (WO2018/129321)
[30] US (62/443,087) 2017-01-06

[21] **3,045,302**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 45/06 (2006.01) A61K 48/00 (2006.01) C07K 14/52 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR CANCER THERAPY**
[54] **PROCEDES ET COMPOSITIONS POUR UNE THERAPIE ANTICANCEREUSE**
[72] KOZBOR, DANUTA, US
[71] HEALTH RESEARCH, INC., US
[85] 2019-05-28
[86] 2017-11-29 (PCT/US2017/063649)
[87] (WO2018/102375)
[30] US (62/427,735) 2016-11-29

[21] **3,045,303**
[13] A1
[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/5365 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **7-PHENYLETHYLAMINO-4H-PYRIMIDO[4,5-D][1,3]OXAZIN-2-ONE COMPOUNDS AS MUTANT IDH1 AND IDH2 INHIBITORS**
[54] **COMPOSES DE 7-PHENYLETHYLAMINO-4H-PYRIMIDO[4,5-D][1,3]OXAZIN-2-ONE EN TANT QU'INHIBITEURS D'IDH1 ET D'IDH2 MUTANTS**
[72] BAUER, RENATO ALEJANDRO, US
[72] BOULET, SERGE LOUIS, US
[72] BURKHOLDER, TIMOTHY PAUL, US
[72] GILMOUR, RAYMOND, US
[72] HAHN, PATRIC JAMES, US
[72] RANKOVIC, ZORAN, US
[71] ELI LILLY AND COMPANY, US
[85] 2019-05-28
[86] 2017-12-08 (PCT/US2017/065246)
[87] (WO2018/111707)
[30] US (62/435,283) 2016-12-16

[21] **3,045,305**
[13] A1
[51] **Int.Cl. B62D 5/04 (2006.01) B62D 1/00 (2006.01)**
[25] EN
[54] **INTEGRATED AUTO-STEER SYSTEM FOR VEHICLE**
[54] **SYSTEME DE DIRECTION AUTOMATIQUE INTEGRE POUR VEHICULE**
[72] TAN, JIM, US
[72] JOUGHIN, ALAN ROBERT, US
[72] EICHNER, JEAN-MARIE, US
[72] SAPILEWSKI, GLEN, US
[72] RAMM, ANDREAS F., US
[72] KAL, HUSAM, US
[71] AGJUNCTION LLC, US
[85] 2019-05-28
[86] 2018-01-24 (PCT/US2018/015003)
[87] (WO2018/140465)
[30] US (62/450,491) 2017-01-25

[21] **3,045,306**
[13] A1
[51] **Int.Cl. C07D 307/92 (2006.01) C07C 251/16 (2006.01)**
[25] EN
[54] **NAPHTHOFURAN DERIVATIVES, PREPARATION, AND METHODS OF USE THEREOF**
[54] **DERIVES DE NAPHTHOFURANE, PREPARATION ET PROCEDES D'UTILISATION ASSOCIES**
[72] ARUMUGASAMY, JEEVANANDAM, US
[72] LI, WEI, US
[71] BOSTON BIOMEDICAL, INC., US
[85] 2019-05-28
[86] 2017-11-29 (PCT/US2017/063734)
[87] (WO2018/102427)
[30] US (62/427,441) 2016-11-29

[21] **3,045,307**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 31/00 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A TNF INHIBITOR**
[54] **TRAITEMENT D'UNE MALADIE DU TRACTUS GASTRO-INTESTINAL AVEC UN INHIBITEUR DU TNF**
[72] JONES, MITCHELL LAWRENCE, US
[72] SINGH, SHARAT, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] STYLLI, HARRY, US
[71] PROGENITY INC., US
[85] 2019-05-28
[86] 2017-12-14 (PCT/US2017/066485)
[87] (WO2018/112240)
[30] US (62/434,363) 2016-12-14
[30] US (62/479,118) 2017-03-30
[30] US (62/545,240) 2017-08-14
[30] US (62/583,768) 2017-11-09

[21] **3,045,308**
[13] A1
[51] **Int.Cl. B65B 61/28 (2006.01) B65B 25/00 (2006.01)**
[25] EN
[54] **ON-DEMAND PROCESSING OF CHILLED FOOD PRODUCT**
[54] **TRAITEMENT A LA DEMANDE DE PRODUIT ALIMENTAIRE REFRIGERE**
[72] CARPENTER, GREGG, US
[72] DAHLBERG, KIRK, US
[72] SLAGLEY, DAVID, US
[72] NORTH III, THOMAS G., US
[72] HOWELL, THOMAS P., US
[71] THE COCA-COLA COMPANY, US
[85] 2019-05-28
[86] 2017-11-29 (PCT/US2017/063748)
[87] (WO2018/102434)
[30] US (62/428,519) 2016-11-30

[21] **3,045,309**
[13] A1
[51] **Int.Cl. A01G 7/00 (2006.01) G01N 21/84 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMAGE CAPTURE IN AN ASSEMBLY LINE GROW POD**
[54] **SYSTEMES ET PROCEDES DE CAPTURE D'IMAGE DANS UNE CAPSULE DE CULTURE DE LIGNE D'ASSEMBLAGE**
[72] MILLAR, GARY BRET, US
[71] GROW SOLUTIONS TECH LLC, US
[85] 2019-05-28
[86] 2018-05-29 (PCT/US2018/034857)
[87] (WO2018/231506)
[30] US (62/519,304) 2017-06-14
[30] US (62/519,413) 2017-06-14
[30] US (15/990,094) 2018-05-25

[21] **3,045,310**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 9/00 (2006.01) A61K 38/13 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A CHEMOKINE/CHEMOKINE RECEPTOR INHIBITOR**
[54] **TRAITEMENT D'UNE MALADIE DU TRACTUS GASTRO-INTESTINAL AVEC UNE CHIMOIKINE/UN INHIBITEUR DU RECEPTEUR DE CHIMIOKINE**
[72] JONES, MITCHELL LAWRENCE, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] SINGH, SHARAT, US
[72] STYLLI, HARRY, US
[72] LUO, ALLISON, US
[71] PROGENITY INC., US
[85] 2019-05-28
[86] 2017-12-14 (PCT/US2017/066527)
[87] (WO2018/112264)
[30] US (62/434,369) 2016-12-14
[30] US (62/478,744) 2017-03-30
[30] US (62/545,129) 2017-08-14
[30] US (62/583,929) 2017-11-09

[21] **3,045,311**
[13] A1
[51] **Int.Cl. C07D 487/16 (2006.01) A61K 31/424 (2006.01) A61K 31/4985 (2006.01) A61K 31/5365 (2006.01) A61P 31/18 (2006.01) C07D 498/16 (2006.01)**
[25] EN
[54] **TETRACYCLIC HETEROCYCLE COMPOUNDS USEFUL AS HIV INTEGRASE INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES TETRACYCLIQUES UTILES EN TANT QU'INHIBITEURS DE L'INTEGRASE DU VIH**
[72] GRAHAM, THOMAS H., US
[72] YU, TAO, US
[72] ZHANG, YONGLIAN, US
[72] MCCAULEY, JOHN A., US
[71] MERCK SHARPE & DOHME CORP., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/063831)
[87] (WO2018/102485)
[30] US (62/429,470) 2016-12-02

[21] **3,045,312**
[13] A1
[51] **Int.Cl. B23Q 3/10 (2006.01) B23Q 1/00 (2006.01) B23Q 3/18 (2006.01) B25B 1/24 (2006.01) F16B 2/12 (2006.01)**
[25] EN
[54] **TOOLING BASE**
[54] **BASE D'OUTILLAGE**
[72] TAYLOR, CHRIS, US
[72] GRANGETTO, STEVE, US
[72] LANE, ADAM, US
[71] FIFTH AXIS, INC., US
[85] 2019-05-28
[86] 2018-09-09 (PCT/US2018/050128)
[87] (WO2019/083623)

[21] **3,045,313**
[13] A1
[51] **Int.Cl. A61K 31/551 (2006.01) A61K 9/20 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS OF SUVOREXANT**
[54] **FORMULATIONS PHARMACEUTIQUES DE SUVOREXANT**
[72] ANGI, REKA, MT
[72] BASA-DENES, ORSOLYA, MT
[72] OTVOS, ZSOLT, MT
[72] GLAVINAS, HRISTOS, MT
[72] FILIPCSEI, GENOVEVA, MT
[71] DRUGGABILITY TECHNOLOGIES IP HOLDCO LIMITED, MT
[85] 2019-05-28
[86] 2017-12-19 (PCT/US2017/067328)
[87] (WO2018/118929)
[30] US (62/436,195) 2016-12-19

[21] **3,045,314**
[13] A1
[51] **Int.Cl. C09K 8/524 (2006.01) C09K 8/532 (2006.01) C09K 8/54 (2006.01) C23F 11/12 (2006.01) C23F 11/14 (2006.01)**
[25] EN
[54] **COMPOSITION FOR REMEDIATING IRON SULFIDE IN OILFIELD PRODUCTION SYSTEMS**
[54] **COMPOSITION POUR ELIMINER LE SULFURE DE FER DANS DES SYSTEMES DE PRODUCTION DE CHAMP DE PETROLE**
[72] BENNETT, BRIAN MICHAEL, US
[72] SOLOMON, KIM R., US
[72] SILVERNAIL, CARTER, US
[71] ECOLAB USA INC., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/063860)
[87] (WO2018/102503)
[30] US (62/428,123) 2016-11-30

[21] **3,045,315**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) C12N 7/00 (2006.01) A61K 39/00 (2006.01) A61K 39/145 (2006.01)**
[25] EN
[54] **ATTENUATED SWINE INFLUENZA VACCINES AND METHODS OF MAKING AND USE THEREOF**
[54] **VACCINS ATTENUES CONTRE LA GRIPPE PORCINE ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**
[72] MEBATSION, TESHOME, US
[72] KIM, TAEJOONG, US
[72] DORR, PAUL MICHAEL, US
[72] LIEBSTEIN-BELLIA, MARTIN LEONARDO, US
[72] LEARD, ALTON TIMOTHY, US
[71] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/064017)
[87] (WO2018/102586)
[30] US (62/428,062) 2016-11-30

[21] **3,045,318**
[13] A1
[51] **Int.Cl. H01L 31/04 (2014.01) H01L 21/033 (2006.01) H01L 31/02 (2006.01) H01L 31/0256 (2006.01) H01L 31/0264 (2006.01) H01L 31/036 (2006.01) H01L 31/0368 (2006.01)**
[25] EN
[54] **PROCESS AND MANUFACTURE OF LOW-DIMENSIONAL MATERIALS SUPPORTING BOTH SELF-THERMALIZATION AND SELF-LOCALIZATION**
[54] **TRAITEMENT ET FABRICATION DE MATERIAUX DE FAIBLES DIMENSIONS SUPPORTANT A LA FOIS L'AUTO-THERMALISATION ET L'AUTO-LOCALISATION**
[72] CURRAN, PATRICK, US
[71] SEMINUCLEAR, INC., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/064020)
[87] (WO2018/164746)
[30] US (PCT/US2016/063933) 2016-11-29
[30] US (62/471,815) 2017-03-15
[30] US (62/591,848) 2017-11-29

[21] **3,045,320**
[13] A1
[51] **Int.Cl. C05F 17/02 (2006.01) A01K 67/033 (2006.01) B09B 3/00 (2006.01) C05F 9/02 (2006.01) C05F 11/00 (2006.01)**
[25] EN
[54] **VERMICAST PRODUCTION THROUGH CONVERSION OF BIODEGRADABLE MATTER**
[54] **PRODUCTION DE VERMICOMPOST PAR CONVERSION DE MATIERE ORGANIQUE BIODEGRADABLE**
[72] ASHBEE, JOHN K., CA
[72] CHRISTIANSEN, THOMAS, CA
[72] JARRAH, ALADIN, CA
[71] GREENSCIENCE TECHNOLOGIES INC., CA
[85] 2019-05-29
[86] 2017-11-20 (PCT/CA2017/000248)
[87] (WO2018/098555)
[30] US (15/530,057) 2016-11-30

[21] **3,045,321**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/40 (2006.01) C12P 21/08 (2006.01) G01N 33/563 (2006.01)**
[25] EN
[54] **ANTI-HRS ANTIBODIES AND COMBINATION THERAPIES FOR TREATING CANCERS**
[54] **ANTICORPS ANTI-HRS ET POLYTHERAPIES POUR LE TRAITEMENT DE CANCERS**
[72] ADAMS, RYAN ANDREW, US
[72] BURMAN, LUKE, US
[72] CHONG, YEETING, US
[72] KING, DAVID, US
[72] MENDLEIN, JOHN D., US
[72] GREENE, LESLIE NANGLE, US
[72] OGILVIE, KATHLEEN, US
[72] RAUCH, KAITLYN, US
[71] ATYR PHARMA, INC., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/064025)
[87] (WO2018/102589)
[30] US (62/428,307) 2016-11-30
[30] US (62/466,800) 2017-03-03
[30] US (62/481,918) 2017-04-05
[30] US (62/516,456) 2017-06-07
[30] US (62/566,995) 2017-10-02
[30] US (62/581,431) 2017-11-03

[21] **3,045,323**
[13] A1
[51] **Int.Cl. C12N 15/66 (2006.01)**
[25] EN
[54] **ENGINEERED B CELLS AND RELATED COMPOSITIONS AND METHODS**
[54] **CELLULES B MODIFIEES ET COMPOSITIONS ET METHODES ASSOCIEES**
[72] LEVITSKY, HYAM I., US
[71] JUNO THERAPEUTICS, INC., US
[85] 2019-05-28
[86] 2017-11-30 (PCT/US2017/064075)
[87] (WO2018/102612)
[30] US (62/429,709) 2016-12-02

[21] **3,045,324**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) G05B 19/042 (2006.01) G06N 3/02 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMIC ENERGY STORAGE SYSTEM CONTROL**
[54] **SYSTEME ET PROCEDE DE COMMANDE DE SYSTEME DE STOCKAGE D'ENERGIE DYNAMIQUE**
[72] LI, YIRAN, CA
[72] HU, PEISEN, CA
[72] SOO, DEREK LIM, CA
[72] SACHS, MATTHEW, CA
[71] PEAK POWER, INC., CA
[85] 2019-05-29
[86] 2017-11-29 (PCT/CA2017/051435)
[87] (WO2018/098575)
[30] US (62/427,199) 2016-11-29

[21] **3,045,325**
[13] A1
[51] **Int.Cl. G01N 21/71 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CHARACTERIZING AN AGGREGATE SAMPLE BY USING LASER-INDUCED BREAKDOWN SPECTROSCOPY**
[54] **PROCEDE ET SYSTEME DE CARACTERISATION D'UN ECHANTILLON AGREGE UTILISANT LA SPECTROSCOPIE SUR PLASMA INDUIT PAR LASER**
[72] HARHIRA, AISSA, CA
[72] SABSABI, MOHAMAD, CA
[72] EL HADDAD, JOSETTE, CA
[72] BLOUIN, ALAIN, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA (NRC), CA
[85] 2019-05-29
[86] 2017-11-29 (PCT/CA2017/000255)
[87] (WO2018/098558)
[30] CA (2,950,163) 2016-11-30
[30] CA (2,952,551) 2016-12-22

[21] **3,045,326**
[13] A1
[51] **Int.Cl. G06F 21/00 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING A UNIVERSAL DECENTRALIZED SOLUTION FOR VERIFICATION OF USERS WITH CROSS-VERIFICATION FEATURES**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE D'UNE SOLUTION DECENTRALISEE UNIVERSELLE DESTINEE A LA VERIFICATION D'UTILISATEURS POSSEDANT DES CARACTERISTIQUES DE VERIFICATION CROISEE**
[72] ANDRADE, MARCUS, US
[71] BLACK GOLD COIN, INC., US
[85] 2019-05-28
[86] 2017-01-25 (PCT/US2017/014938)
[87] (WO2018/080574)
[30] US (15/335,344) 2016-10-26

[21] **3,045,327**
[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 47/50 (2017.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/30 (2006.01) C12N 9/80 (2006.01)**
[25] EN
[54] **RESTORING FUNCTION OF TUMOUR ACIDIFIED T CELLS**
[54] **RESTAURATION DE LA FONCTION DE LYMPHOCYTES T ACIDIFIES TUMORAUX**
[72] WONG, WAH YAU, CA
[72] TIAN, BAOMIN, CA
[72] GASPAR, KIM, CA
[72] UGER, MARNI DIANE, CA
[72] ROHMANN, SVEN, CH
[72] CHAO, HEMAN LAP MAN, CA
[71] HELIX BIOPHARMA CORP., CA
[85] 2019-05-29
[86] 2017-09-22 (PCT/CA2017/051116)
[87] (WO2018/053639)
[30] US (62/399,378) 2016-09-24
[30] US (62/554,059) 2017-09-05

[21] **3,045,328**
[13] A1
[51] **Int.Cl. G02B 6/12 (2006.01) F21V 8/00 (2006.01)**
[25] EN
[54] **MULTIVIEW BACKLIGHTING EMPLOYING PLASMONIC MULTIBEAM ELEMENTS**
[54] **RETROECLAIRAGE A VUES MULTIPLES UTILISANT DES ELEMENTS DE PLASMONIQUE A FAISCEAUX MULTIPLES**
[72] FATTAL, DAVID A., US
[72] AIETA, FRANCESCO, US
[71] LEIA INC., US
[85] 2019-05-28
[86] 2017-01-30 (PCT/US2017/015685)
[87] (WO2018/140063)

[21] **3,045,329**
[13] A1
[51] **Int.Cl. B22D 17/30 (2006.01) B22D 17/08 (2006.01) B22D 17/22 (2006.01)**
[25] EN
[54] **CONTAMINANT-PURGING COLD CHAMBER DIE CASTING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE COULEE SOUS PRESSION A CHAMBRE FROIDE DE PURGE DE CONTAMINANTS**
[72] VINET, ALAIN, CA
[71] VINET MICRO-TECHNOLOGIES INC., CA
[85] 2019-05-29
[86] 2017-10-18 (PCT/CA2017/051237)
[87] (WO2018/119509)
[30] US (62/440,043) 2016-12-29
[30] US (15/707,054) 2017-09-18

[21] **3,045,330**
[13] A1
[51] **Int.Cl. H02K 9/00 (2006.01) B60K 11/02 (2006.01) F01P 5/10 (2006.01) F04C 2/10 (2006.01)**
[25] EN
[54] **ELECTRIC MACHINE PROVIDED WITH AN ENCLOSED COOLING ASSEMBLY PAIRED TO AN OPEN COOLING ASSEMBLY**
[54] **MACHINE ELECTRIQUE EQUIPEE D'UN ENSEMBLE DE REFROIDISSEMENT FERME APPARIE A UN ENSEMBLE DE REFROIDISSEMENT OUVERT**
[72] LATULIPE, ERIC, CA
[72] PHILIBERT, YANNICK, CA
[72] DEXTRAZE, JEAN-PHILIPPE, CA
[72] HOULE, MARTIN, CA
[72] DESBIENS, JEAN-PHILIPPE, CA
[72] LEPAGE, MATHIEU, CA
[72] DUBE, FRANCOIS, CA
[71] TM4 INC., CA
[85] 2019-05-29
[86] 2017-11-27 (PCT/CA2017/051421)
[87] (WO2018/098567)
[30] US (62/427,480) 2016-11-29

[21] **3,045,331**
[13] A1
[51] **Int.Cl. A61K 35/18 (2015.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATED TO CELL SYSTEMS FOR PENETRATING SOLID TUMORS**
[54] **COMPOSITIONS ET METHODES SE RAPPORTANT A DES SYSTEMES CELLULAIRES DESTINES A PENETRER DANS DES TUMEURS SOLIDES**
[72] DEANS, ROBERT, J., US
[72] ELLOUL, SIVAN, US
[72] DOWDEN, NATHAN, US
[72] KAHVEJIAN, AVAK, US
[72] MATA-FINK, JORDI, US
[71] RUBIUS THERAPEUTICS, INC., US
[85] 2019-05-28
[86] 2017-12-01 (PCT/US2017/064299)
[87] (WO2018/102740)
[30] US (62/429,275) 2016-12-02

[21] **3,045,332**
[13] A1
[51] **Int.Cl. F16K 31/68 (2006.01) F01M 1/16 (2006.01) F01P 7/16 (2006.01) F16K 11/04 (2006.01)**
[25] EN
[54] **FIRST-FILL THERMOSTATIC VALVE ELEMENT**
[54] **ELEMENT DE SOUPAPE THERMOSTATIQUE DE PREMIER REMPLISSAGE**
[72] DHILLON, RANVIR SINGH, CA
[71] BEND ALL AUTOMOTIVE ULC, CA
[85] 2019-05-29
[86] 2017-11-29 (PCT/CA2017/051434)
[87] (WO2018/098574)
[30] GB (1620246.7) 2016-11-29

[21] **3,045,333**
[13] A1
[51] **Int.Cl. G06T 7/10 (2017.01) G06T 1/20 (2006.01) G06T 1/40 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **AUTOMATED DETECTION AND REPOSITIONING OF MICRO-OBJECTS IN MICROFLUIDIC DEVICES**
[54] **DETECTION AUTOMATIQUE ET REPOSITIONNEMENT DE MICRO-OBJETS DANS DES DISPOSITIFS MICROFLUIDIQUES**
[72] KIM, HANSOHL E., US
[72] TENNEY, JOHN A., US
[72] SLOCUM, JOSHUA F., US
[71] BERKELEY LIGHTS, INC., US
[85] 2019-05-28
[86] 2017-12-01 (PCT/US2017/064309)
[87] (WO2018/102748)
[30] US (62/429,071) 2016-12-01
[30] US (62/579,897) 2017-11-01

[21] **3,045,334**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) G01J 3/44 (2006.01) G01N 1/40 (2006.01) G01N 21/64 (2006.01) G02B 21/06 (2006.01) G02B 21/36 (2006.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS AND METHODS FOR IMAGING MICRO-OBJECTS**
[54] **APPAREILS, SYSTEMES ET METHODES POUR L'IMAGERIE DE MICRO-OBJETS**
[72] LUNDQUIST, PAUL M., US
[72] LEBEL, PAUL M., US
[72] JESS, PHILLIP RONALD THOMAS, US
[71] BERKELEY LIGHTS, INC., US
[85] 2019-05-28
[86] 2017-12-01 (PCT/US2017/064308)
[87] (WO2018/102747)
[30] US (62/429,066) 2016-12-01

[21] **3,045,335**
[13] A1
[51] **Int.Cl. C12N 15/12 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) A61P 25/14 (2006.01) A61P 25/28 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/55 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **CRISPR-BASED TREATMENT OF FRIEDREICH ATAXIA**
[54] **TRAITEMENT BASE SUR CRISPR DE L'ATAXIE DE FRIEDREICH**
[72] TREMBLAY, JACQUES P., CA
[72] OUELLET, DOMINIQUE L., CA
[71] UNIVERSITE LAVAL, CA
[85] 2019-05-29
[86] 2017-12-01 (PCT/CA2017/051448)
[87] (WO2018/098587)
[30] US (62/428,809) 2016-12-01

[21] **3,045,336**
[13] A1
[51] **Int.Cl. E21B 33/035 (2006.01) E21B 7/12 (2006.01) E21B 29/12 (2006.01) E21B 33/06 (2006.01) E21B 33/064 (2006.01) E21B 43/01 (2006.01)**
[25] EN
[54] **EXPLOSIVE DISCONNECT**
[54] **DECONNEXION EXPLOSIVE**
[72] GALLAGHER, BOBBY JAMES, US
[72] ANGSTMANN, STEVEN ANTHONY, US
[72] GALLAGHER, BILLY JACK, AU
[71] KINETIC PRESSURE CONTROL, LTD., US
[85] 2019-05-28
[86] 2017-10-23 (PCT/US2017/057826)
[87] (WO2018/106347)
[30] US (62/431,455) 2016-12-08

[21] **3,045,338**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C12N 15/867 (2006.01)**
[25] EN
[54] **PRODUCTION OF ENGINEERED CELLS FOR ADOPTIVE CELL THERAPY**
[54] **PRODUCTION DE CELLULES MODIFIEES POUR UNE THERAPIE CELLULAIRE ADOPTIVE**
[72] BEAUCHESNE, PASCAL, US
[72] TAREEN, SEMIH U., US
[71] JUNO THERAPEUTICS, INC., US
[85] 2019-05-28
[86] 2017-12-05 (PCT/US2017/064778)
[87] (WO2018/106732)
[30] US (62/430,349) 2016-12-05

[21] **3,045,344**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01) H04W 12/06 (2009.01) G06Q 20/10 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MESSAGE RECIPIENT VERIFICATION**
[54] **SYSTEME ET PROCEDE DE VERIFICATION DE DESTINATAIRE DE MESSAGE**
[72] LAU, ALEX TAK KWUN, CA
[72] ORTIZ, EDISON U., US
[72] GUPTA, AKHIL, CA
[72] SHARMA, MOHIT, CA
[72] MANUEL, LUCAS JOSEPH, CA
[72] SU, TIAN JOU TENDY, CA
[71] ROYAL BANK OF CANADA, CA
[85] 2019-05-29
[86] 2017-12-01 (PCT/CA2017/051451)
[87] (WO2018/098590)
[30] US (62/428,659) 2016-12-01
[30] US (62/546,107) 2017-08-16

[21] **3,045,345**
[13] A1
[51] **Int.Cl. H01M 8/08 (2016.01) C01G 23/00 (2006.01) C07F 7/28 (2006.01) H01M 8/18 (2006.01)**
[25] EN
[54] **COORDINATIVELY UNSATURATED TITANIUM CATECHOLATE COMPLEXES AND PROCESSES ASSOCIATED THEREWITH**
[54] **COMPLEXES DE CATECHOLATE DE TITANE A INSATURATION COORDINATIVE ET PROCEDES ASSOCIES A CEUX-CI**
[72] MILLARD, MATTHEW, US
[72] MORRIS-COHEN, ADAM, US
[72] FRISBEE, ROGER, US
[71] LOCKHEED MARTIN ENERGY, LLC, US
[85] 2019-05-28
[86] 2016-12-29 (PCT/US2016/069190)
[87] (WO2018/111312)
[30] US (15/379,418) 2016-12-14

[21] **3,045,346**
[13] A1
[51] **Int.Cl. B01J 35/00 (2006.01) B01J 23/42 (2006.01) B01J 23/44 (2006.01) B01J 23/46 (2006.01) B01J 23/50 (2006.01) B01J 23/52 (2006.01) B01J 31/06 (2006.01) B01J 31/28 (2006.01)**
[25] EN
[54] **A SOLUTION-STABLE ISOLATED NOBLE METAL ATOMS MATERIAL**
[54] **MATERIAU COMPRENANT DES ATOMES ISOLES DE METAL PRECIEUX STABLES EN SOLUTION**
[72] ZHANG, ZONGCHAO, CN
[72] LIU, KAIRUI, CN
[72] MAO, JINGBO, CN
[71] DALIAN INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES, CN
[85] 2019-05-29
[86] 2016-11-24 (PCT/CN2016/000652)
[87] (WO2018/085958)
[30] CN (201611004958.3) 2016-11-11

[21] **3,045,347**
[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **METHOD AND DEVICE FOR COMBATING SALMON LICE AND OTHER ECTOPARASITES IN FISH**
[54] **PROCEDE ET DISPOSITIF DE LUTTE CONTRE LES POUX DE MER ET AUTRES ECTOPARASITES DES POISSONS**
[72] BECKER, GUIDO, DE
[71] BECKER, GUIDO, DE
[85] 2019-05-29
[86] 2017-11-24 (PCT/DE2017/000409)
[87] (WO2018/099504)
[30] DE (DE 20 2016 007 407.6) 2016-11-30
[30] DE (DE 10 2016 014 424.6) 2016-11-30
[30] DE (DE 10 2017 000 208.8) 2017-01-05
[30] DE (DE 20 2017 000 159.4) 2017-01-05
[30] DE (DE 10 2017 000 549.4) 2017-01-17
[30] DE (DE 20 2017 000 372.4) 2017-01-17
[30] DE (DE 10 2017 000 809.4) 2017-01-25
[30] DE (DE 20 2017 000 488.7) 2017-01-25

[21] **3,045,348**
[13] A1
[51] **Int.Cl. B01J 35/00 (2006.01) B01J 23/42 (2006.01) B01J 23/44 (2006.01) B01J 23/46 (2006.01) B01J 23/50 (2006.01) B01J 23/52 (2006.01) B01J 31/06 (2006.01) B01J 31/28 (2006.01)**
[25] EN
[54] **A METHOD TO PREPARE ISOLATED NOBLE METAL ATOMS IN SOLUTION AND APPLICATIONS THEREOF**
[54] **PROCEDE DE PREPARATION D'ATOMES ISOLES DE METAL PRECIEUX EN SOLUTION, ET SES APPLICATIONS**
[72] ZHANG, ZONGCHAO, CN
[72] LIU, KAIRUI, CN
[72] MAO, JINGBO, CN
[71] DALIAN INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES, CN
[85] 2019-05-29
[86] 2016-11-24 (PCT/CN2016/000653)
[87] (WO2018/085959)
[30] CN (201611042175.4) 2016-11-11

[21] **3,045,349**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/12 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR COMMUNICATION BASED ON SHORT TRANSMISSION TIME INTERVALS IN A WIRELESS COMMUNICATION SYSTEM**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION BASES SUR DES INTERVALLES DE TEMPS DE TRANSMISSION COURTS DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] JIANG, CHUANGXIN, CN
[72] GAO, YUKAI, CN
[72] WANG, GANG, CN
[71] NEC CORPORATION, JP
[85] 2019-05-29
[86] 2016-01-29 (PCT/CN2016/072845)
[87] (WO2017/128312)

[21] **3,045,350**
[13] A1
[51] **Int.Cl. C01B 33/02 (2006.01) C01B 33/03 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING POLYCRYSTALLINE SILICON**
[54] **PROCEDE DE PRODUCTION DE SILICIUM POLYCRISTALLIN**
[72] HERTLEIN, HARALD, DE
[72] WECKESSER, DIRK, DE
[71] WACKER CHEMIE AG, DE
[85] 2019-05-29
[86] 2016-12-14 (PCT/EP2016/080900)
[87] (WO2018/108258)

[21] **3,045,351**
[13] A1
[51] **Int.Cl. H04W 24/04 (2009.01) H04W 88/08 (2009.01)**
[25] EN
[54] **INTEGRATED ACCESS SYSTEM**
[54] **SYSTEME D'ACCES INTEGRE**
[72] FU, WEIXIANG, CN
[72] WU, WANGJUN, CN
[72] WU, XINGGUO, CN
[72] ZHANG, DAN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-05-29
[86] 2016-11-30 (PCT/CN2016/108047)
[87] (WO2018/098696)

[21] **3,045,354**
[13] A1
[51] **Int.Cl. H02P 29/028 (2016.01) B64D 27/24 (2006.01) H02H 3/20 (2006.01) H02H 7/00 (2006.01)**
[25] EN
[54] **AIRCRAFT, AND OVER-VOLTAGE PROTECTION METHOD AND DEVICE FOR ELECTRONIC GOVERNOR THEREOF**
[54] **AERONEF, ET PROCEDE ET DISPOSITIF DE PROTECTION CONTRE LES SURTENSIONS POUR SON REGULATEUR ELECTRONIQUE**
[72] YU, JIANGTAO, CN
[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN
[85] 2019-05-29
[86] 2017-11-28 (PCT/CN2017/113395)
[87] (WO2018/099377)
[30] CN (201611093576.2) 2016-12-01

[21] **3,045,360**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEUSE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081061)
[87] (WO2018/100105)
[30] EP (16201425.2) 2016-11-30

[21] **3,045,361**
[13] A1
[51] **Int.Cl. F02M 63/00 (2006.01) F02D 41/22 (2006.01) F02M 55/00 (2006.01) F02M 63/02 (2006.01) F02M 65/00 (2006.01)**
[25] EN
[54] **FUEL SUPPLY SYSTEM AND FUEL DISTRIBUTOR BLOCK**
[54] **SYSTEME D'ALIMENTATION EN CARBURANT ET BLOC REPARTITEUR DE CARBURANT**
[72] BOZKURT, UMIT, DE
[72] MONZERT, CHRISTIAN, DE
[71] MAN ENERGY SOLUTIONS SE, DE
[85] 2019-05-29
[86] 2017-09-14 (PCT/EP2017/073164)
[87] (WO2018/099621)
[30] DE (10 2016 123 055.3) 2016-11-30

[21] **3,045,365**
[13] A1
[51] **Int.Cl. C07F 9/54 (2006.01) A61K 31/662 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TREATMENT OF SENESCENCE-RELATED DISORDERS**
[54] **COMPOSES DESTINES AU TRAITEMENT DE DESORDRES LIES A LA SENESCENCE**
[72] HUBACKOVA, SONA, CZ
[72] WERNER, LUKAS, CZ
[72] STURSA, JAN, CZ
[72] NEUZIL, JIRI, CZ
[71] SPRINGTIDE VENTURES S.R.O., CZ
[71] SMART BRAIN S.R.O., CZ
[71] BIOTECHNOLOGICKY USTAV AV CR, V.V.I., CZ
[71] MITOTAX S.R.O., CZ
[85] 2019-05-29
[86] 2017-11-15 (PCT/EP2017/079362)
[87] (WO2018/099723)
[30] EP (16201594.5) 2016-12-01

[21] **3,045,367**
[13] A1
[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2019.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **VAP POLYPEPTIDE AND USE THEREOF IN PREPARATION OF DRUG FOR TARGETED DIAGNOSIS AND TREATMENT OF TUMOUR**
[54] **POLYPEPTIDE VAP ET SON UTILISATION DANS LA PREPARATION D'UN MEDICAMENT DESTINE AU DIAGNOSTIC ET AU TRAITEMENT CIBLES D'UNE TUMEUR**
[72] LU, WEIYUE, CN
[72] RAN, DANNI, CN
[72] MAO, JIANI, CN
[72] XIE, CAO, CN
[71] FUDAN UNIVERSITY, CN
[85] 2019-05-29
[86] 2017-12-06 (PCT/CN2017/114796)
[87] (WO2018/103660)
[30] CN (201611115191.1) 2016-12-07

[21] **3,045,368**
[13] A1
[51] **Int.Cl. B67D 1/08 (2006.01) F28F 13/00 (2006.01) F25D 31/00 (2006.01) F28F 3/12 (2006.01) F28F 21/06 (2006.01)**
[25] EN
[54] **DISPENSING APPARATUS PROVIDED WITH A COOLING UNIT**
[54] **APPAREIL DE DISTRIBUTION POURVU D'UNE UNITE DE REFROIDISSEMENT**
[72] PEIRSMAN, DANIEL, BE
[72] DIRIX, LIEVEN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-29 (PCT/EP2017/080778)
[87] (WO2018/099947)
[30] EP (16201501.0) 2016-11-30

[21] **3,045,371**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61K 31/5377 (2006.01) A61K 45/06 (2006.01) A61P 31/16 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **INHIBITORS OF INFLUENZA VIRUS REPLICATION AND USES THEREOF**
[54] **INHIBITEURS DE REPLICATION DU VIRUS DE LA GRIPPE ET UTILISATIONS ASSOCIEES**
[72] TANG, CHANGHUA, CN
[72] REN, QINGYUN, CN
[72] YIN, JUNJUN, CN
[72] YI, KAI, CN
[72] LEI, YIBO, CN
[72] WANG, YEJUN, CN
[72] ZHANG, YINGJUN, CN
[71] SUNSHINE LAKE PHARMA CO., LTD., CN
[71] NORTH & SOUTH BROTHER PHARMACY INVESTMENT COMPANY LIMITED, CN
[85] 2019-05-29
[86] 2017-12-14 (PCT/CN2017/116154)
[87] (WO2018/108125)
[30] CN (201611158754.5) 2016-12-15

[21] **3,045,373**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEUSE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081081)
[87] (WO2018/100116)
[30] EP (16201431.0) 2016-11-30

[21] **3,045,374**
[13] A1
[51] **Int.Cl. F21V 29/508 (2015.01) F21V 29/67 (2015.01)**
[25] EN
[54] **AIR EXHAUSTING MECHANISM FOR MOBILE ILLUMINATING LIGHT TOWER**
[54] **MECANISME D'EVACUATION D'AIR POUR PHARE D'ECLAIRAGE MOBILE**
[72] LI, QIANG, CN
[72] YU, XIA, CN
[72] LU, DEZHONG, CN
[72] CONG, HAIYING, CN
[71] ATLAS COPCO (WUXI) COMPRESSOR CO., LTD., CN
[85] 2019-05-29
[86] 2017-12-21 (PCT/CN2017/117660)
[87] (WO2018/113720)
[30] CN (201621423806.2) 2016-12-22

[21] **3,045,377**
[13] A1
[51] **Int.Cl. C07K 14/575 (2006.01) A61K 38/26 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **NEW COMPOUNDS AS PEPTIDIC TRIGONAL GLP1/GLUCAGON/GIP RECEPTOR AGONISTS**
[54] **NOUVEAUX COMPOSES EN TANT QU'AGONISTES PEPTIDIQUES TRIGONAUX DU RECEPTEUR GLP1/GLUCAGON/GIP**
[72] BOSSART, MARTIN, DE
[72] EVERS, ANDREAS, DE
[72] HAACK, TORSTEN, DE
[72] KADEREIT, DIETER, DE
[72] LORENZ, KATRIN, DE
[72] WAGNER, MICHAEL, DE
[72] PFEIFFER-MAREK, STEFANIA, DE
[72] LORENZ, MARTIN, DE
[71] SANOFI, FR
[85] 2019-05-29
[86] 2017-12-01 (PCT/EP2017/081125)
[87] (WO2018/100134)
[30] EP (16306604.6) 2016-12-02

[21] **3,045,379**
[13] A1
[51] **Int.Cl. A01N 35/02 (2006.01) A01M 1/10 (2006.01) A01N 37/06 (2006.01) A01P 19/00 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR ATTRACTING BED BUGS**
[54] **COMPOSITION ET METHODE DESTINEES A ATTIRER LES PUNAISES DE LIT**
[72] KNUDSEN, JETTE, SE
[72] BACKMARK, MAGNUS, SE
[71] NATTARO LABS AB, SE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081026)
[87] (WO2018/114273)
[30] EP (16205486.0) 2016-12-20

[21] **3,045,380**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEIFIEE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/080997)
[87] (WO2018/100071)
[30] EP (16201431.0) 2016-11-30

[21] **3,045,381**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEUSE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081066)
[87] (WO2018/100107)
[30] EP (16201426.0) 2016-11-30

[21] **3,045,382**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEUSE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081072)
[87] (WO2018/100110)
[30] EP (16201427.8) 2016-11-30

[21] **3,045,383**
[13] A1
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCTION AND DISPENSING CARBONATED BEER FROM BEER CONCENTRATE**
[54] **PROCEDE DE PRODUCTION ET DE DISTRIBUTION DE BIERE GAZEIFIEE A PARTIR D'UN CONCENTRE DE BIERE**
[72] PEIRSMAN, DANIEL, BE
[72] VANDEKERCKHOVE, STIJN, BE
[71] ANHEUSER-BUSCH INBEV S.A., BE
[85] 2019-05-29
[86] 2017-11-30 (PCT/EP2017/081077)
[87] (WO2018/100114)
[30] EP (16201428.6) 2016-11-30

[21] **3,045,384**
[13] A1
[51] **Int.Cl. A01N 59/26 (2006.01) A01P 3/00 (2006.01) C01F 1/00 (2006.01) C05B 11/04 (2006.01) C05B 17/00 (2006.01)**
[25] EN
[54] **MIXTURES CONTAINING SECONDARY CALCIUM AND MAGNESIUM PHOSPHONATE AND THEIR USE AS FUNGICIDE OR FERTILIZER**
[54] **MELANGES CONTENANT DU PHOSPHONATE SECONDAIRE DE CALCIUM ET DE MAGNESIUM ET LEUR UTILISATION COMME FONGICIDE OU ENGRAIS**
[72] MICKLEY, CORNELIA, DE
[72] KOHLE, HARALD, DE
[71] PRIMINGTEC UG (HAFTUNGSBESCHRANKT), DE
[85] 2019-05-29
[86] 2017-12-11 (PCT/EP2017/082245)
[87] (WO2018/108822)
[30] EP (16203561.2) 2016-12-12

[21] **3,045,385**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **A CD33-, CD16- AND CD123-SPECIFIC SINGLE CHAIN TRIPLEBODY**
[54] **TRIPLECORPS A CHAINE UNIQUE SPECIFIQUE A CD33, CD16 ET CD123**
[72] FEY, GEORG H., DE
[72] BRACIAK, TODD, US
[72] ROSKOPF, CLAUDIA CHRISTINA, DE
[72] SCHUBERT, INGO, DE
[72] HOPFNER, KARL-PETER, DE
[72] FENN, NADJA, DE
[72] WILDENHEIN, SARAH, DE
[72] JACOB, UWE, DE
[71] FRIEDRICH-ALEXANDER-UNIVERSITAT ERLANGEN-NURNBERG, DE
[85] 2019-05-29
[86] 2017-12-01 (PCT/EP2017/081150)
[87] (WO2018/100139)
[30] EP (16202026.7) 2016-12-02

[21] **3,045,386**
[13] A1
[51] **Int.Cl. A61K 35/15 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ENGINEERED NATURAL KILLER CELLS AND USES THEREOF**
[54] **CELLULES TUEUSES NATURELLES MODIFIEES ET LEURS UTILISATIONS**
[72] O'DWYER, MICHAEL EAMON PETER, IE
[71] ONKIMMUNE LIMITED, IE
[85] 2019-05-29
[86] 2017-12-11 (PCT/EP2017/082292)
[87] (WO2018/104562)
[30] US (62/432,302) 2016-12-09

[21] **3,045,387**
[13] A1
[51] **Int.Cl. C07K 14/435 (2006.01) A01N 1/00 (2006.01) A23L 3/00 (2006.01) A61K 38/00 (2006.01) C12N 9/36 (2006.01) C12N 9/52 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **NOVEL ENDOLYSIN**
[54] **NOUVELLE ENDOLYSINE**
[72] MENDES DE OLIVEIRA, HUGO ALEXANDRE, PT
[72] VALENTE DE RODRIGUES AZEREDO, JOANA CECILIA, PT
[71] UNIVERSIDADE DO MINHO, PT
[85] 2019-05-29
[86] 2017-12-18 (PCT/EP2017/083326)
[87] (WO2018/109229)
[30] EP (16204770.8) 2016-12-16

[21] **3,045,388**
[13] A1
[51] **Int.Cl. H01M 8/0258 (2016.01) H01M 8/021 (2016.01) H01M 8/0267 (2016.01) H01M 8/1018 (2016.01)**
[25] EN
[54] **SEPARATOR PLATE FOR AN ELECTROCHEMICAL SYSTEM**
[54] **PLAQUE DE SEPARATION POUR SYSTEME ELECTROCHIMIQUE**
[72] SCHERER, JOACHIM, DE
[72] KUNZ, CLAUDIA, DE
[72] STOHR, THOMAS, DE
[71] REINZ-DICHTUNGS-GMBH, DE
[85] 2019-05-29
[86] 2017-12-18 (PCT/EP2017/083345)
[87] (WO2018/114819)
[30] DE (20 2016 107 302.2) 2016-12-22

[21] **3,045,390**
[13] A1
[51] **Int.Cl. C07K 14/52 (2006.01)**
[25] EN
[54] **HMGB1 MUTANTS**
[54] **MUTANTS DE HMGB1**
[72] GDYNIA, GEORG, DE
[71] RUPRECHT-KARLS-UNIVERSITAT HEIDELBERG, DE
[85] 2019-05-29
[86] 2017-03-06 (PCT/EP2017/055216)
[87] (WO2018/108327)
[30] EP (PCT/EP2016/080671) 2016-12-12

[21] **3,045,391**
[13] A1
[51] **Int.Cl. G06K 19/06 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTION AND RECOGNITION OF LONG-RANGE HIGH-DENSITY VISUAL MARKERS**
[54] **PROCEDE DE DETECTION ET DE RECONNAISSANCE DE MARQUEURS VISUELS A LARGE PORTEE ET HAUTE DENSITE**
[72] SAEZ MARTINEZ, JUAN MANUEL, ES
[72] ESCOLANO RUIZ, FRANCISCO, ES
[72] LOZANO ORTEGA, MIGUEL ANGEL, ES
[72] PITA LOZANO, JAVIER, ES
[71] UNIVERSIDAD DE ALICANTE, ES
[85] 2019-05-17
[86] 2017-03-03 (PCT/ES2017/070122)
[87] (WO2018/115542)
[30] ES (P201631625) 2016-12-20

[21] **3,045,401**
[13] A1
[51] **Int.Cl. A61M 15/00 (2006.01) A61B 5/00 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **INHALATION DEVICE WITH INTEGRATED ELECTRONICS MODULE**
[54] **DISPOSITIF D'INHALATION AVEC MODULE ELECTRONIQUE INTEGRE**
[72] YANG, DONG, IE
[72] MOORHOUSE, DYLAN A., IE
[71] NORTON (WATERFORD) LIMITED, IE
[85] 2019-05-29
[86] 2017-12-05 (PCT/EP2017/081452)
[87] (WO2018/104268)
[30] US (62/430,576) 2016-12-06

[21] **3,045,402**
[13] A1
[51] **Int.Cl. A01N 25/28 (2006.01) A01N 25/04 (2006.01) A01N 25/10 (2006.01) A01N 25/30 (2006.01) A01N 37/34 (2006.01) A01N 43/40 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01N 53/00 (2006.01) A01P 3/00 (2006.01) A01P 7/04 (2006.01) A61K 8/11 (2006.01) A61K 9/48 (2006.01)**
[25] EN
[54] **STABILIZATION OF PARTICLES COATED WITH NON-AMPHOTERIC, QUATERNIZABLE AND WATER-SOLUBLE POLYMERS USING A DISPERSING COMPONENT**
[54] **STABILISATION DE PARTICULES REVETUES DE POLYMERES NON AMPHOTERES, QUATERNISABLES ET HYDROSOLUBLES EN UTILISANT UN COMPOSANT DISPERSANT**
[72] SEELMANN-EGGEBERT, HANS-PETER, DE
[72] BENTELE, JOACHIM, DE
[72] POULTON, SIMON, DE
[71] BASF SE, DE
[85] 2019-05-29
[86] 2017-12-21 (PCT/EP2017/084061)
[87] (WO2018/115266)
[30] EP (16002735.5) 2016-12-23

[21] **3,045,403**
[13] A1
[51] **Int.Cl. B01D 67/00 (2006.01) B01D 69/06 (2006.01) B01D 71/30 (2006.01) C22B 3/20 (2006.01)**
[25] EN
[54] **SELECTIVE EXTRACTION FILM FOR MINING APPLICATION**
[54] **FILM D'EXTRACTION SELECTIVE POUR APPLICATION D'EXPLOITATION MINIERE**
[72] LIM, YOKE LIM, SG
[72] WIDJOJO, NATALIA, SG
[72] MACOUN, RICHARD GRANT, AU
[72] EMELIYANOVA, NATALIA, DE
[72] BAUS, ULF, DE
[71] BASF SE, DE
[85] 2019-05-29
[86] 2017-12-21 (PCT/EP2017/084063)
[87] (WO2018/115268)
[30] SG (10201610826W) 2016-12-23
[30] EP (17157793.5) 2017-02-24

[21] **3,045,404**
[13] A1
[51] **Int.Cl. H02K 21/24 (2006.01) H02K 1/18 (2006.01) H02K 3/47 (2006.01) H02K 7/08 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **IMPROVEMENTS TO ROTARY GENERATORS**
[54] **PERFECTIONNEMENTS APPORTES A DES GENERATEURS ROTATIFS**
[72] KELLY, HUGH-PETER GRANVILLE, GB
[71] GREENSPUR RENEWABLES LIMITED, GB
[85] 2019-05-29
[86] 2017-12-01 (PCT/GB2017/053637)
[87] (WO2018/100396)
[30] GB (1620520.5) 2016-12-02

[21] **3,045,405**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01) A61B 90/20 (2016.01) A61B 90/98 (2016.01) A61F 9/008 (2006.01) G02B 21/00 (2006.01) G06K 7/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGING PATIENT DATA DURING OPHTHALMIC SURGERY**
[54] **SYSTEME ET PROCEDE DE GESTION DE DONNEES DE PATIENT PENDANT UNE CHIRURGIE OPHTALMIQUE**
[72] TALEB, MICHEL, DE
[71] NOVARTIS AG, CH
[85] 2019-05-29
[86] 2017-01-19 (PCT/IB2017/050271)
[87] (WO2018/134642)

[21] **3,045,406**
[13] A1
[51] **Int.Cl. G08B 13/06 (2006.01) E05B 13/00 (2006.01) E05B 45/10 (2006.01) E05B 47/00 (2006.01) E05B 63/14 (2006.01) E06B 5/11 (2006.01) G07C 9/00 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **SECURITY LOCK MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE SERRURE DE SECURITE**
[72] EK, TOMI, FI
[71] OVIKU OY, FI
[85] 2019-05-29
[86] 2017-02-20 (PCT/FI2017/050112)
[87] (WO2017/153632)
[30] FI (20165191) 2016-03-07

[21] **3,045,408**
[13] A1
[51] **Int.Cl. G01B 11/06 (2006.01) B22D 37/00 (2006.01) B22D 43/00 (2006.01) C21B 3/04 (2006.01) F27D 21/00 (2006.01) F27D 21/02 (2006.01) G01F 17/00 (2006.01) G01N 33/20 (2019.01)**
[25] EN
[54] **SLAG VOLUME EVALUATION METHOD FOR MOLTEN METAL SURFACE**
[54] **PROCEDE D'EVALUATION DU VOLUME DE SCORIES SUR UNE SURFACE DE METAL FONDU**
[72] KUSUNOKI, TOMOYUKI, JP
[72] MIYAZAKI, TAKAHIRO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2019-05-23
[86] 2017-12-06 (PCT/JP2017/043809)
[87] (WO2018/105652)
[30] JP (2016-236936) 2016-12-06

[21] **3,045,409**
[13] A1
[51] **Int.Cl. E21B 25/00 (2006.01)**
[25] EN
[54] **CORING APPARATUS**
[54] **APPAREIL DE CAROTTAGE**
[72] WEST, GREGORY DONALD, NZ
[72] SCHICKER, OWEN, NZ
[71] FLEXIDRILL LIMITED, NZ
[85] 2019-05-29
[86] 2017-11-23 (PCT/IB2017/057350)
[87] (WO2018/104818)
[30] NZ (727078) 2016-12-05

[21] **3,045,410**
[13] A1
[51] **Int.Cl. H02S 20/25 (2014.01) H02S 40/34 (2014.01)**
[25] EN
[54] **ELECTRICAL CONNECTION DEVICE FOR A PHOTOVOLTAIC SYSTEM**
[54]
[72] WOUTERS, PAUL, BE
[72] FOURDRINIER, LIONEL, BE
[72] XIRAKIS, EFTYCHIOS, BE
[72] VIGNAL, RENAUD, FR
[72] TORMA, ANDREA, CH
[71] ARCELORMITTAL, LU
[85] 2019-05-28
[86] 2017-11-30 (PCT/IB2017/001475)
[87] (WO2018/100425)
[30] IB (PCT/IB2016/057222) 2016-11-30

[21] **3,045,411**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01)**
[25] EN
[54] **WELLBORE PUMPS IN SERIES, INCLUDING DEVICE TO SEPARATE GAS FROM PRODUCED RESERVOIR FLUIDS**
[54] **POMPES DE PUITS DE FORAGE EN SERIE, COMPRENANT UN DISPOSITIF DESTINE A SEPARER UN GAZ DE FLUIDES PROVENANT D'UN RESERVOIR**
[72] HANSEN, HENNING, ES
[71] HANSEN DOWNHOLE PUMP SOLUTIONS AS, NO
[85] 2019-05-29
[86] 2017-11-29 (PCT/IB2017/057503)
[87] (WO2018/122647)
[30] US (62/440,060) 2016-12-29

[21] **3,045,412**
[13] A1
[51] **Int.Cl. A47C 17/86 (2006.01) B25H 3/02 (2006.01) B64D 11/06 (2006.01) E05B 53/00 (2006.01) E05B 63/14 (2006.01)**
[25] EN
[54] **STORAGE CONTAINER AND BED PROVIDED WITH A STORAGE CONTAINER**
[54] **RECIPIENT DE STOCKAGE ET LIT EQUIPE D'UN RECIPIENT DE STOCKAGE**
[72] TREMBLAY, MICHEL, CA
[72] LADD, GRADYN, CA
[71] BOMBARDIER INC., CA
[85] 2019-05-29
[86] 2017-11-07 (PCT/IB2017/056969)
[87] (WO2018/100451)
[30] US (62/428,148) 2016-11-30

[21] **3,045,413**
[13] A1
[51] **Int.Cl. A23G 4/10 (2006.01) A23L 29/30 (2016.01) A23G 4/06 (2006.01)**
[25] FR
[54] **METHOD FOR PRODUCING A CHEWING GUM COMPOSITION WITH NO-BAKE CHEWING GUM**
[54] **PROCEDE DE FABRICATION D'UNE COMPOSITION DE CHEWING GUM AVEC PATES A MACHER SANS CUISSON**
[72] BUSOLIN, ANDRE, FR
[71] ROQUETTE FRERES, FR
[85] 2019-05-29
[86] 2017-11-30 (PCT/FR2017/053289)
[87] (WO2018/100291)
[30] FR (1661808) 2016-12-01

[21] **3,045,414**
[13] A1
[51] **Int.Cl. F17C 11/00 (2006.01)**
[25] FR
[54] **HYDROGEN STORAGE TANK COMPRISING A PLURALITY OF SEALS**
[54] **RESERVOIR DE STOCKAGE D'HYDROGENE COMPORTANT UNE PLURALITE DE JOINTS D'ETANCHEITE**
[72] GILLIA, OLIVIER, FR
[72] CHAISE, ALBIN, FR
[72] ELIE, MANON, FR
[72] PONTHIEU, MARINE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2019-05-29
[86] 2017-12-05 (PCT/FR2017/053381)
[87] (WO2018/104644)
[30] FR (16 61982) 2016-12-06

[21] **3,045,415**
[13] A1
[51] **Int.Cl. G01C 21/34 (2006.01)**
[25] EN
[54] **ROUTE GUIDANCE METHOD AND ROUTE GUIDANCE DEVICE**
[54] **PROCEDE DE GUIDAGE ROUTIER ET DISPOSITIF DE GUIDAGE ROUTIER**
[72] OKUYAMA, TAKESHI, JP
[71] NISSAN MOTOR CO., LTD., JP
[85] 2019-05-29
[86] 2016-11-30 (PCT/JP2016/085499)
[87] (WO2018/100658)

[21] **3,045,416**
[13] A1
[51] **Int.Cl. E04B 1/26 (2006.01) E04B 1/00 (2006.01) E04B 1/10 (2006.01) E04B 5/32 (2006.01) E04B 5/48 (2006.01) E04C 3/28 (2006.01)**
[25] EN
[54] **SYSTEM FOR FIXING TO THE GROUND WALLS OF BUILDINGS**
[54] **SYSTEME A FIXER AUX MURS DE FONDATION DE BATIMENTS**
[72] DI MARINO, LUIGI, IT
[71] DI MARINO, LUIGI, IT
[85] 2019-05-29
[86] 2017-12-05 (PCT/IB2017/057632)
[87] (WO2018/104847)
[30] IT (102016000123688) 2016-12-06

[21] **3,045,417**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01) A61B 17/32 (2006.01)**
[25] EN
[54] **SURGICAL HANDPIECE WITH REVERSE FLOW PRIMING**
[54] **PIECE A MAIN CHIRURGICALE A AMORCAGE D'ECOULEMENT INVERSE**
[72] CHON, JAMES Y., US
[72] MAURER, JR., ROBERT STEPHEN, US
[72] YALAMANCHILI, SATISH, US
[71] NOVARTIS AG, CH
[85] 2019-05-29
[86] 2018-01-08 (PCT/IB2018/050108)
[87] (WO2018/134696)
[30] US (62/447,648) 2017-01-18

[21] **3,045,418**
[13] A1
[51] **Int.Cl. A61K 31/444 (2006.01) A61K 9/20 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61P 7/02 (2006.01)**
[25] EN
[54] **ORALLY DISINTEGRATING TABLET INCLUDING DIAMINE DERIVATIVE**
[54] **COMPRIME ORODISPERSIBLE CONTENANT UN DERIVE DE DIAMINE**
[72] KIKKAWA, YOSHITO, JP
[72] KATO, TAKAFUMI, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2019-05-29
[86] 2017-11-30 (PCT/JP2017/042930)
[87] (WO2018/101373)
[30] JP (2016-234259) 2016-12-01

[21] **3,045,420**
[13] A1
[51] **Int.Cl. B01J 23/72 (2006.01) C01B 32/50 (2017.01) B01J 23/00 (2006.01) B01J 23/34 (2006.01) B01J 23/745 (2006.01) B01J 23/75 (2006.01) B01J 23/755 (2006.01) B01J 23/78 (2006.01) B01J 23/83 (2006.01) B01J 23/889 (2006.01) B01J 35/02 (2006.01) B01J 35/10 (2006.01) B01J 37/00 (2006.01) B01J 37/02 (2006.01) F23C 10/01 (2006.01) F23C 13/08 (2006.01) B01J 35/00 (2006.01) B01J 35/08 (2006.01) F23C 10/00 (2006.01)**
[25] FR
[54] **MACROPOROUS OXYGEN CARRIER SOLID WITH A REFRACTORY MATRIX, METHOD FOR THE PREPARATION THEREOF, AND USE THEREOF IN A CHEMICAL-LOOPING OXIDATION-REDUCTION METHOD**
[54] **SOLIDE PORTEUR D'OXYGENE MACROPOREUX A MATRICE CERAMIQUE D'OXIDES, SON PROCEDE DE PREPARATION ET SON UTILISATION POUR UN PROCEDE D'OXYDO-REDUCTION EN BOUCLE CHIMIQUE**
[72] LAMBERT, ARNOLD, FR
[72] MICHAUD, MATHIEU, FR
[72] MARTI, DELPHINE, FR
[72] COMTE, ELODIE, FR
[71] IFP ENERGIES NOUVELLES, FR
[71] TOTAL RAFFINAGE CHIMIE, FR
[85] 2019-05-29
[86] 2017-12-21 (PCT/EP2017/084208)
[87] (WO2018/115344)
[30] FR (1663301) 2016-12-23

---

[21] **3,045,421**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING INTERMITTENTLY-FIXED OPTICAL FIBER**
[54] **PROCEDE DE FABRICATION DE NOYAU DE BANDE FIXE PAR INTERMITTENCE**
[72] SEKINE, SHIZUKA, JP
[72] ISAJI, MIZUKI, JP
[72] TOMIKAWA, KOUJI, JP
[71] FUJIKURA LTD., JP
[85] 2019-05-29
[86] 2017-12-22 (PCT/JP2017/046146)
[87] (WO2018/123871)
[30] JP (2016-254763) 2016-12-28

---

[21] **3,045,422**
[13] A1
[51] **Int.Cl. F28D 9/00 (2006.01) F28D 21/00 (2006.01) F28F 3/04 (2006.01)**
[25] EN
[54] **RECUPERATOR**
[54] **RECUPERATEUR**
[72] VAN KASTEREN, MARINUS HENRICUS JOHANNES, NL
[71] RECAIR HOLDING B.V., NL
[85] 2019-05-29
[86] 2017-11-27 (PCT/NL2017/050783)
[87] (WO2018/106102)
[30] NL (2017947) 2016-12-07

---

[21] **3,045,424**
[13] A1
[51] **Int.Cl. C09K 8/487 (2006.01) C09K 8/506 (2006.01) C09K 8/516 (2006.01)**
[25] EN
[54] **NANOPARTICLE-BASED SHEAR-THICKENING MATERIALS**
[54] **MATERIAUX D'EPAISSISSEMENT PAR CISAILLEMENT A BASE DE NANOPARTICULES**
[72] AL-OLAYAN, ABEER MOHAMMAD SALEH, SA
[72] ALEXANDER-KATZ, ALFREDO, US
[72] COX, JASON R., US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2019-05-08
[86] 2017-11-14 (PCT/US2017/061588)
[87] (WO2018/093789)
[30] US (62/422,250) 2016-11-15

---

[21] **3,045,425**
[13] A1
[51] **Int.Cl. E21B 47/06 (2012.01) E21B 47/04 (2012.01) E21B 49/10 (2006.01)**
[25] EN
[54] **A PROBE ARRANGEMENT FOR PRESSURE MEASUREMENT OF A WATER PHASE INSIDE A HYDROCARBON RESERVOIR**
[54] **AGENCEMENT DE SONDE DESTINE A LA MESURE DE PRESSION D'UNE PHASE AQUEUSE DANS UN RESERVOIR D'HYDROCARBURES**
[72] ROLFSVAG, TROND ARNE, NO
[71] HYDROPHILIC AS, NO
[85] 2019-05-29
[86] 2017-11-29 (PCT/NO2017/050308)
[87] (WO2018/101838)
[30] NO (20161910) 2016-11-30

---

[21] **3,045,426**
[13] A1
[51] **Int.Cl. B23K 9/32 (2006.01) B23K 9/16 (2006.01)**
[25] EN
[54] **WELDING PURGE DAM WITH APERTURED PURGE PLATES**
[54] **BARRAGE DE PURGE DE SOUDAGE A PLAQUES DE PURGE A OUVERTURES**
[72] HACIKYAN, MICHAEL, US
[71] HACIKYAN, MICHAEL, US
[85] 2019-05-29
[86] 2017-10-20 (PCT/US2017/057682)
[87] (WO2018/102045)
[30] US (15/366,690) 2016-12-01

---

[21] **3,045,427**
[13] A1
[51] **Int.Cl. E21B 43/263 (2006.01) C09K 8/62 (2006.01) E21B 43/17 (2006.01)**
[25] EN
[54] **FRACTURING TREATMENTS IN SUBTERRANEAN FORMATIONS USING INORGANIC CEMENTS AND ELECTRICALLY CONTROLLED PROPELLANTS**
[54] **TRAITEMENTS DE FRACTURATION DANS DES FORMATIONS SOUTERRAINES METTANT EN OEUVRE DES CIMENTS INORGANIQUES ET DES PROPULSEURS A COMMANCE ELECTRIQUE**
[72] NGUYEN, PHILIP D., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-05-29
[86] 2017-01-23 (PCT/US2017/014574)
[87] (WO2018/136100)

[21] **3,045,428**
[13] A1
[51] **Int.Cl. H02J 3/14 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING AN ELECTRICAL DISTRIBUTION NETWORK**
[54] **PROCEDE DE COMMANDE D'UN RESEAU DE DISTRIBUTION ELECTRIQUE**
[72] BROMBACH, JOHANNES, DE
[72] BLAAK, ISABEL, DE
[72] SCHUBERT, KATHARINA, DE
[71] WOBBEN PROPERTIES GMBH, DE
[85] 2019-05-29
[86] 2018-01-02 (PCT/EP2018/050048)
[87] (WO2018/122405)
[30] DE (10 2016 125 947.0) 2016-12-30

[21] **3,045,429**
[13] A1
[51] **Int.Cl. G06K 19/067 (2006.01) G06Q 10/08 (2012.01) G06K 7/10 (2006.01) H01Q 1/12 (2006.01) H01Q 1/38 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING LABEL POSITIONS**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE POSITIONS D'ETIQUETTE**
[72] TAYLOR, ROBERT JAMES, US
[72] JONES, MATTHEW ALLEN, US
[72] VASGAARD, AARON JAMES, US
[72] JONES, NICHOLAUS ADAM, US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-29
[86] 2017-10-26 (PCT/US2017/058544)
[87] (WO2018/102058)
[30] US (62/427,537) 2016-11-29

[21] **3,045,430**
[13] A1
[51] **Int.Cl. B61L 25/02 (2006.01) B61L 27/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING TRACK LOCATION AND/OR DIRECTION OF TRAVEL**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION D'EMPLACEMENT DE VOIE ET/OU DE DIRECTION DE DEPLACEMENT**
[72] OSWALD, JAMES A., US
[72] KERNWEIN, JEFFREY D., US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[85] 2019-05-29
[86] 2017-02-20 (PCT/US2017/018570)
[87] (WO2018/118104)
[30] US (15/382,922) 2016-12-19

[21] **3,045,432**
[13] A1
[51] **Int.Cl. B60R 1/00 (2006.01) G06T 15/20 (2011.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ADJUSTING A VIRTUAL CAMERA'S ORIENTATION WHEN A VEHICLE IS MAKING A TURN**
[54] **PROCEDE ET SYSTEME POUR AJUSTER L'ORIENTATION D'UNE CAMERA VIRTUELLE LORSQU'UN VEHICULE EFFECTUE UN VIRAGE**
[72] PATEL, NIRMAL, US
[71] WAYMO LLC, US
[85] 2019-05-29
[86] 2017-11-17 (PCT/US2017/062295)
[87] (WO2018/102161)
[30] US (15/364,914) 2016-11-30

[21] **3,045,435**
[13] A1
[51] **Int.Cl. G08G 1/09 (2006.01) H04W 4/02 (2018.01) H04M 1/725 (2006.01)**
[25] EN
[54] **PEDESTRIAN PROTECTING SYSTEM AND METHOD FOR OPERATING THE SAME**
[54] **SYSTEME DE PROTECTION DE PIETON ET PROCEDE DE FONCTIONNEMENT ASSOCIE**
[72] KIM, YOUN-SOON, KR
[72] CHOI, HYUN-SEOK, KR
[72] SUAL, DONG-YUAL, KR
[71] KIM, YOUN-SOON, KR
[71] CHOI, HYUN-SEOK, KR
[85] 2019-05-29
[86] 2017-11-20 (PCT/KR2017/013184)
[87] (WO2018/101664)
[30] KR (10-2016-0161698) 2016-11-30

[21] **3,045,437**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) B01D 21/00 (2006.01) B07B 15/00 (2006.01) B09B 3/00 (2006.01) C22B 21/00 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR POLISHING AND RECOVERING ALUMINUM FROM A WASTE MATERIAL**
[54] **PROCEDES ET SYSTEMES DE POLISSAGE ET DE RECUPERATION D'ALUMINIUM A PARTIR D'UN DECHET**
[72] VALERIO, THOMAS A., US
[71] VALERIO, THOMAS A., US
[85] 2019-05-29
[86] 2017-11-29 (PCT/US2017/063812)
[87] (WO2018/102472)
[30] US (62/427,793) 2016-11-29
[30] US (62/506,329) 2017-05-15

[21] **3,045,438**
[13] A1
[51] **Int.Cl. E21B 41/00 (2006.01) G06F 17/50 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD, AND APPARATUS FOR OPTIMIZED TOOLFACE CONTROL IN DIRECTIONAL DRILLING OF SUBTERRANEAN FORMATIONS**
[54] **SYSTEME, PROCEDE ET APPAREIL DE COMMANDE DE FACE DE COUPE OPTIMISEE DANS LE FORAGE DIRECTIONNEL DE FORMATIONS SOUTERRAINES**
[72] SPENCER, REED W., US
[71] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2019-05-29
[86] 2017-11-21 (PCT/US2017/062745)
[87] (WO2018/102194)
[30] US (62/427,321) 2016-11-29
[30] US (15/629,378) 2017-06-21

[21] **3,045,439**
[13] A1
[51] **Int.Cl. G05B 19/418 (2006.01) G05B 23/02 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR THE INDUSTRIAL INTERNET OF THINGS**
[54] **PROCEDES ET SYSTEMES DESTINES A L'INTERNET INDUSTRIEL DES OBJETS**
[72] CELLA, CHARLES HOWARD, US
[72] DUFFY, GERALD WILLIAM, JR., US
[72] MCGUCKIN, JEFFREY P., US
[71] STRONG FORCE IOT PORTFOLIO 2016, LLC, US
[85] 2019-05-29
[86] 2017-05-09 (PCT/US2017/031721)
[87] (WO2017/196821)
[30] US (62/333,589) 2016-05-09
[30] US (62/350,672) 2016-06-15
[30] US (62/412,843) 2016-10-26
[30] US (62/427,141) 2016-11-28

[21] **3,045,440**
[13] A1
[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/6592 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **BROAD ORTHOGONAL DISTRIBUTION METALLOCENE POLYETHYLENES FOR FILMS**
[54] **POLYETHYLENES METALLOCENES A LARGE DISTRIBUTION ORTHOGONALE POUR FILMS**
[72] HOLTCAMP, MATTHEW W., US
[72] LUE, CHING-TAI, US
[72] SILVA, ADRIANA S., US
[72] LI, DONGMING, US
[72] FISCUS, DAVID M., US
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2019-05-29
[86] 2017-11-07 (PCT/US2017/060433)
[87] (WO2018/106388)
[30] US (62/430,105) 2016-12-05
[30] EP (17152326.9) 2017-01-20

[21] **3,045,441**
[13] A1
[51] **Int.Cl. H01S 3/063 (2006.01) H01S 3/067 (2006.01) H01S 3/08 (2006.01) H01S 3/23 (2006.01)**
[25] EN
[54] **DUAL JUNCTION FIBER-COUPLED LASER DIODE AND RELATED METHODS**
[54] **DIODE LASER A COUPLAGE PAR FIBRES A DOUBLE JONCTION ET PROCEDES ASSOCIES**
[72] CRAWFORD, DEVIN EARL, US
[72] THIAGARAJAN, PRABHU, US
[72] MCELHINNEY, MARK, US
[71] LASERTEL, INC., US
[85] 2019-05-29
[86] 2017-10-18 (PCT/US2017/057209)
[87] (WO2018/102039)
[30] US (15/363,874) 2016-11-29

[21] **3,045,442**
[13] A1
[51] **Int.Cl. C12N 15/85 (2006.01) C07K 14/725 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/12 (2006.01) C12N 15/63 (2006.01) C12Q 1/68 (2018.01) C40B 50/06 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR CLONING FUNCTIONAL T CELL RECEPTORS FROM SINGLE T CELLS**
[54] **METHODES ET MATERIELS DE CLONAGE DE RECEPTEURS DE LYMPHOCYTES T FONCTIONNELS A PARTIR DE LYMPHOCYTES T UNIQUES**
[72] SHLOMCHIK, MARK, US
[72] PANOUSIS, CONSTANTINOS GEORGE, US
[72] ROWE, ALEXANDER MCINTYRE, US
[72] TURQUETI NEVES, ADRIANA, DE
[72] SCHITTLER NEVES, EDUARDO, DE
[71] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[71] SHLOMCHIK, MARK, US
[71] PANOUSIS, CONSTANTINOS GEORGE, US
[71] ROWE, ALEXANDER MCINTYRE, US
[85] 2019-05-29
[86] 2017-11-29 (PCT/US2017/063813)
[87] (WO2018/102473)
[30] US (62/427,335) 2016-11-29

[21] **3,045,443**
[13] A1
[51] **Int.Cl. G02F 1/163 (2006.01) E06B 9/24 (2006.01) H01B 9/00 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION NETWORKS FOR ELECTROCHROMIC DEVICES**
[54] **RESEAUX DE DISTRIBUTION D'ENERGIE DESTINES A DES DISPOSITIFS ELECTROCHROMIQUES**
[72] VIGANO, JOSE, US
[72] BROWN, STEPHEN CLARK, US
[72] SHRIVASTAVA, DHAIRYA, US
[72] KANESHIRO, KEVIN KAZUO, US
[71] VIEW, INC., US
[85] 2019-05-29
[86] 2017-11-10 (PCT/US2017/061054)
[87] (WO2018/102103)
[30] US (15/365,685) 2016-11-30

[21] **3,045,445**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01)**
[25] EN
[54] **APPLICATOR INSTRUMENTS HAVING DRIVE SYSTEMS WITH FLEXIBLE MEMBERS FOR DISPENSING SURGICAL FASTENERS**
[54] **INSTRUMENTS APPLICATEURS AYANT DES SYSTEMES D'ENTRAINEMENT A ELEMENTS FLEXIBLES POUR DELIVRER DES AGRAFES CHIRURGICALES**
[72] GUO, JIANXIN, US
[72] NORDMEYER, MICHAEL, US
[72] CARDINALE, MICHAEL, US
[72] COHN, SIMON, US
[72] KENYON, MARK D., US
[72] SOULS, DOUGLAS, US
[72] FERREIRA, DANIAL PAUL, US
[71] ETHICON, INC., US
[85] 2019-05-29
[86] 2017-11-13 (PCT/US2017/061273)
[87] (WO2018/106406)
[30] US (62/431,355) 2016-12-07
[30] US (15/493,898) 2017-04-21

[21] **3,045,447**
[13] A1
[51] **Int.Cl. A23L 5/30 (2016.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTINUOUS MICROWAVE-ASSISTED EXTRACTION OF BIOACTIVE AGENTS FROM BIOMASS**
[54] **SYSTEME ET PROCEDE D'EXTRACTION CONTINUE ASSISTEE PAR MICRO-ONDES D'AGENTS BIOACTIFS A PARTIR D'UNE BIOMASSE**
[72] DRUGA, MICHAEL, US
[72] VARGOCHIK, AMANDA, US
[72] SIMUNOVIC, JOSIP, US
[71] SINNOVATEK, INC., US
[71] NORTH CAROINA STATE UNIVERSITY, US
[85] 2019-05-29
[86] 2017-11-27 (PCT/US2017/063257)
[87] (WO2018/106463)
[30] US (62/430,086) 2016-12-05

[21] **3,045,449**
[13] A1
[51] **Int.Cl. B64D 43/00 (2006.01) B64C 39/02 (2006.01)**
[25] EN
[54] **AIRCRAFT FLIGHT PLAN SYSTEMS**
[54] **SYSTEMES DE PLAN DE VOL D'AERONEF**
[72] MOZER, REESE ALEXANDER, US
[71] AMERICAN ROBOTICS, US
[85] 2019-05-29
[86] 2017-11-28 (PCT/US2017/063541)
[87] (WO2018/102318)
[30] US (62/427,612) 2016-11-29

[21] **3,045,450**
[13] A1
[51] **Int.Cl. H02J 9/06 (2006.01) G06F 1/30 (2006.01)**
[25] EN
[54] **POWER SOURCE SELECTION**
[54] **SELECTION DE SOURCE D'ENERGIE**
[72] COLEMAN, DARYL A., US
[71] COMMSCOPE TECHNOLOGIES LLC, US
[85] 2019-05-29
[86] 2017-11-30 (PCT/US2017/063873)
[87] (WO2018/118370)
[30] US (62/438,365) 2016-12-22

[21] **3,045,451**
[13] A1
[51] **Int.Cl. E04G 11/24 (2006.01) E04G 11/28 (2006.01)**
[25] EN
[54] **CLIMBING DEVICE FOR LOWERING A CLIMBING RAIL, AND METHOD FOR LOWERING A CLIMBING RAIL**
[54] **DISPOSITIF D'ESCALADE POUR DESCDENDRE UN RAIL D'ESCALADE ET PROCEDE DE DESCENTE D'UN RAIL D'ESCALADE**
[72] SCHLETT, FELIX, DE
[72] KOLB, TOBIAS, DE
[71] PERI GMBH, DE
[85] 2019-05-29
[86] 2018-02-12 (PCT/EP2018/053394)
[87] (WO2018/146294)
[30] DE (10 2017 202 264.7) 2017-02-13

[21] **3,045,452**
[13] A1
[51] **Int.Cl. G01N 1/22 (2006.01) B01D 19/00 (2006.01) G01N 1/40 (2006.01) G01N 7/10 (2006.01)**
[25] FR
[54] **DEVICE AND METHOD FOR EXTRACTING AT LEAST ONE GAS DISSOLVED IN A LIQUID**
[54] **DISPOSITIF ET PROCEDE D'EXTRACTION D'AU MOINS UN GAZ DISSOUT DANS UN LIQUIDE**
[72] TRIEST, JACK, FR
[72] CHAPPELLAZ, JEROME, FR
[72] GRILLI, ROBERTO, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2019-05-29
[86] 2018-01-03 (PCT/EP2018/050141)
[87] (WO2018/127516)
[30] FR (17 50063) 2017-01-04

[21] **3,045,453**
[13] A1
[51] **Int.Cl. F16L 55/172 (2006.01) F16L 55/18 (2006.01)**
[25] EN
[54] **ENCAPSULATION SLEEVE GASKET ASSEMBLY WITH REMOVABLE INNER LAYER**
[54] **ENSEMBLE JOINT D'ETANCHEITE DE MANCHON D'ENCAPSULATION A COUCHE INTERNE AMOVIBLE**
[72] PIONTEK, DARYL M., US
[72] FONTES, RICHARD, US
[71] TOTAL PIPING SOLUTIONS, INC., US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064289)
[87] (WO2018/102730)
[30] US (62/429,611) 2016-12-02

[21] **3,045,454**
[13] A1
[51] **Int.Cl. A61B 17/88 (2006.01) A61B 17/86 (2006.01)**
[25] EN
[54] **ORTHOPEDIC BREAK-OFF SCREWS, TOOLS FOR INSERTING SUCH SCREWS, AND RELATED SYSTEMS AND METHODS**
[54] **VIS DE SEPARATION ORTHOPEDIQUES, OUTILS D'INSERTION DESDITES VIS AINSI QUE SYSTEMES ET PROCEDES ASSOCIES**
[72] DALY, ANTHONY, US
[72] LAVORITANO, SCOTT, US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2019-05-29
[86] 2017-11-30 (PCT/US2017/063908)
[87] (WO2018/106507)
[30] US (15/370,409) 2016-12-06

[21] **3,045,455**
[13] A1
[51] **Int.Cl. A61K 31/4355 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **METHODS OF ADMINISTERING ANTI-FIBROTIC THERAPY**
[54] **METHODES D'ADMINISTRATION D'UNE THERAPIE ANTIFIBROTIQUE**
[72] PAN, LIN, US
[72] CHEUNG, DOROTHY SZE-WING, US
[72] HARRIS, JEFFREY MARK, US
[72] STROMBOM, INDIANA, US
[71] GENENTECH, INC., US
[85] 2019-05-29
[86] 2017-11-29 (PCT/US2017/063549)
[87] (WO2018/102323)
[30] US (62/428,163) 2016-11-30
[30] US (62/432,425) 2016-12-09

[21] **3,045,456**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01)**
[25] EN
[54] **APPLICATOR INSTRUMENTS HAVING INSERTABLE, CHANGEABLE CARTRIDGES FOR DISPENSING SURGICAL FASTENERS**
[54] **INSTRUMENTS APPLICATEURS A CARTOUCHES POUVANT ETRE INSEREES ET CHANGEES POUR LA DISTRIBUTION D'AGRAFES CHIRURGICALES**
[72] COHN, SIMON, US
[72] NORDMEYER, MICHAEL, US
[72] CARDINALE, MICHAEL, US
[72] GUO, JIANXIN, US
[72] KENYON, MARK D., US
[72] SOULS, DOUGLAS, US
[72] FERREIRA, DANIAL PAUL, US
[72] SCHNEIDER, JARED, US
[71] ETHICON, INC., US
[85] 2019-05-29
[86] 2017-11-13 (PCT/US2017/061275)
[87] (WO2018/106408)
[30] US (62/431,355) 2016-12-07
[30] US (15/493,929) 2017-04-21

[21] **3,045,457**
[13] A1
[51] **Int.Cl. G01N 33/487 (2006.01) B65D 35/56 (2006.01) B65D 47/36 (2006.01)**
[25] EN
[54] **AUTOMATED POINT-OF-CARE DEVICES FOR COMPLEX SAMPLE PROCESSING AND METHODS OF USE THEREOF**
[54] **DISPOSITIFS DE POINT DE SOINS AUTOMATISES POUR LE TRAITEMENT D'ECHANTILLONS COMPLEXES ET LEURS PROCEDES D'UTILISATION**
[72] PAIS, ANDREA, US
[72] PAIS, ROHAN, US
[71] NOVEL MICRODEVICES, LLC, US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064359)
[87] (WO2018/102783)
[30] US (62/428,976) 2016-12-01

[21] **3,045,458**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/445 (2006.01) A61K 31/4535 (2006.01)**
[25] EN
[54] **FRACTURE TARGETED BONE REGENERATION THROUGH PARATHYROID HORMONE RECEPTOR STIMULATION**
[54] **REGENERATION OSSEUSE CIBLEE SUR UNE FRACTURE PAR STIMULATION DU RECEPTEUR D'HORMONE PARATHYROIDE**
[72] LOW, PHILIP S., US
[72] LOW, STEWART ANDREW, US
[72] NIELSEN, JEFFREY, US
[71] PURDUE RESEARCH FOUNDATION, US
[71] LOW, PHILIP S., US
[71] LOW, STEWART ANDREW, US
[71] NIELSEN, JEFFREY, US
[85] 2019-05-29
[86] 2017-11-30 (PCT/US2017/064081)
[87] (WO2018/102616)
[30] US (62/428,492) 2016-11-30
[30] US (62/553,313) 2017-09-01

[21] **3,045,459**
[13] A1
[51] **Int.Cl. A41D 13/06 (2006.01) A41D 13/015 (2006.01)**
[25] EN
[54] **PLAYER PROTECTION DEVICE WITH CHANGEABLE DESIGN PLATES**
[54] **DISPOSITIF DE PROTECTION DE JOUEUR AVEC PLAQUES A MOTIFS REMPLACABLES**
[72] COLVIN, TYLER EUGENE, US
[71] COLVIN, TYLER EUGENE, US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064125)
[87] (WO2018/102637)
[30] US (62/429,318) 2016-12-02
[30] US (62/456,795) 2017-02-09

[21] **3,045,460**
[13] A1
[51] **Int.Cl. H01G 11/36 (2013.01) H01G 11/86 (2013.01)**
[25] EN
[54] **COMPOSITE ELECTRODE**
[54] **ELECTRODE COMPOSITE**
[72] BRAMBILLA, NICOLO MICHELE, US
[72] MARTINI, FABRIZIO, US
[72] RICH, DANIEL, US
[71] FASTCAP SYSTEMS CORPORATION, US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064152)
[87] (WO2018/102652)
[30] US (62/429,727) 2016-12-02

[21] **3,045,461**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/7088 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **METHODS FOR TREATMENT OF POLYCYSTIC KIDNEY DISEASE**
[54] **PROCEDES DE TRAITEMENT DE LA MALADIE POLYKYSTIQUE DES REINS**
[72] ALLERSON, CHARLES R., US
[72] PATEL, VISHAL D., US
[72] CHAU, B. NELSON, US
[72] ANDROSAVICH, JOHN R., US
[71] REGULUS THERAPEUTICS INC., US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064432)
[87] (WO2018/106568)
[30] US (62/430,164) 2016-12-05

[21] **3,045,462**
[13] A1
[51] **Int.Cl. F16H 21/40 (2006.01) F16H 21/52 (2006.01) F16H 27/08 (2006.01) F16H 29/20 (2006.01)**
[25] EN
[54] **USER CONTROLLER WITH USER PRESENCE DETECTION AND RELATED SYSTEMS AND METHODS**
[54] **DISPOSITIF DE COMMANDE D'UTILISATEUR A DETECTION DE PRESENCE D'UTILISATEUR ET SYSTEMES ET PROCEDES ASSOCIES**
[72] FARRITOR, SHANE, US
[72] WOOD, NATHAN, US
[72] DUMPERT, JASON, US
[71] VIRTUAL INCISION CORPORATION, US
[85] 2019-05-29
[86] 2017-11-29 (PCT/US2017/063739)
[87] (WO2018/102430)
[30] US (62/427,357) 2016-11-29

[21] **3,045,463**
[13] A1
[51] **Int.Cl. C07C 39/06 (2006.01) H01M 10/052 (2010.01) C07C 39/373 (2006.01) C07C 321/24 (2006.01) H01M 4/02 (2006.01) H01M 4/60 (2006.01)**
[25] EN
[54] **BATTERY BASED ON ORGANOSULFUR SPECIES**
[54] **BATTERIE BASEE SUR DES ESPECES ORGANOSULFUREES**
[72] SMITH, GARY S., US
[72] WANG, LIJUAN, US
[72] FORTMAN, GEORGE C., US
[71] ARKEMA, INC., US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064185)
[87] (WO2018/102667)
[30] US (15/367,379) 2016-12-02

[21] **3,045,464**
[13] A1
[51] **Int.Cl. A61K 38/36 (2006.01) A61K 38/39 (2006.01) A61L 24/10 (2006.01) A61L 27/58 (2006.01) C12M 3/00 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR USING FIBRIN SUPPORTS FOR RETINAL PIGMENT EPITHELIUM TRANSPLANTATION**
[54] **PROCEDES ET MATERIAUX PERMETTANT D'UTILISER DES SUPPORTS DE FIBRINE POUR UNE TRANSPLANTATION D'EPITHELIUM PIGMENTAIRE RETINIEN**
[72] MARMORSTEIN, ALAN D., US
[72] IEZZI, RAYMOND, US
[72] GANDHI, JAREL K., US
[72] PULIDO, JOSE S., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2019-05-29
[86] 2017-11-13 (PCT/US2017/061300)
[87] (WO2018/106414)
[30] US (62/431,259) 2016-12-07

[21] **3,045,465**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **PRESERVATION OF IMMUNE RESPONSE DURING CHEMOTHERAPY REGIMENS**
[54] **PRESERVATION DE LA REPONSE IMMUNITAIRE LORS DE REGIMES CHIMIOTHERAPEUTIQUES**
[72] SORRENTINO, JESSICA A., US
[72] LAI, ANNE Y., US
[72] STRUM, JAY C., US
[72] ROBERTS, PATRICK JOSEPH, US
[71] G1 THERAPEUTICS, INC., US
[85] 2019-05-29
[86] 2017-12-05 (PCT/US2017/064775)
[87] (WO2018/106729)
[30] US (62/430,302) 2016-12-05
[30] US (62/479,605) 2017-03-31

[21] **3,045,466**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 51/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **RADIOLABELED ANTI-PD-L1 ANTIBODIES FOR IMMUNO-PET IMAGING**
[54] **ANTICORPS ANTI-PD-L1 RADIOMARQUES POUR IMAGERIE IMMUNO-PET**
[72] KELLY, MARCUS, US
[72] MA, DANGSHE, US
[72] OLSON, WILLIAM, US
[72] THURSTON, GAVIN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064215)
[87] (WO2018/102682)
[30] US (62/428,672) 2016-12-01
[30] US (62/457,267) 2017-02-10
[30] US (62/569,773) 2017-10-09

[21] **3,045,467**
[13] A1
[51] **Int.Cl. C10G 50/00 (2006.01) C07C 2/12 (2006.01) C10G 3/00 (2006.01)**
[25] EN
[54] **PROCESS AND SYSTEM FOR LOW PRESSURE OLEFIN CONVERSION TO A DISTILLATE BOILING RANGE PRODUCT**
[54] **PROCEDE ET SYSTEME DE CONVERSION D'OLEFINES A BASSE PRESSION EN UN PRODUIT SITUE DANS LA PLAGE D'EBULLITION DES DISTILLATS**
[72] ILIAS, SAMIA, US
[72] LOVELESS, BRETT T., US
[72] O'NEILL, BRANDON J., US
[72] MCCARTHY, STEPHEN J., US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064453)
[87] (WO2018/118395)
[30] US (62/437,118) 2016-12-21

[21] **3,045,468**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **PROTECTION OF FLEXIBLE MEMBERS**
[54] **PROTECTION D'ELEMENTS FLEXIBLES**
[72] SEEBERG, BJORN ERIK, NO
[72] NOMME, CHRISTIAN EMIL, NO
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-29
[86] 2017-12-01 (PCT/US2017/064210)
[87] (WO2018/102680)
[30] US (62/428,925) 2016-12-01

[21] **3,045,470**
[13] A1
[51] **Int.Cl. G07F 11/16 (2006.01) G07F 11/10 (2006.01) G07F 11/28 (2006.01) G07F 11/30 (2006.01) G07F 11/38 (2006.01) G07F 11/42 (2006.01)**
[25] EN
[54] **LEAN VENDING MACHINE**
[54] **DISTRIBUTEUR AUTOMATIQUE ALLEGE**
[72] JAFA, EMAD, US
[72] LI, XUEJUN, US
[72] BUTNARU, OVIDIU, RO
[72] IOV, CLAUDIU, RO
[72] MIHAILA, MARIUS, RO
[72] SANDOR, JOZSEF, RO
[72] SMITKO, ANDREI, RO
[71] PEPSICO, INC., US
[85] 2019-05-29
[86] 2017-11-17 (PCT/US2017/062215)
[87] (WO2018/111493)
[30] US (15/382,042) 2016-12-16

[21] **3,045,471**
[13] A1
[51] **Int.Cl. B41F 35/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRINTING ROLL CLEANING**
[54] **APPAREIL ET PROCEDE DE NETTOYAGE DE CYLINDRE D'IMPRESSION**
[72] CRUZ, LEMUS ERICO, US
[71] PAPER CONVERTING MACHINE COMPANY, US
[85] 2019-05-29
[86] 2017-12-05 (PCT/US2017/064623)
[87] (WO2018/111613)
[30] US (15/375,599) 2016-12-12

[21] **3,045,472**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A SMAD7 INHIBITOR**
[54] **TRAITEMENT D'UNE MALADIE DU TRACTUS GASTRO-INTESTINAL AVEC UN INHIBITEUR DE SMAD7**
[72] JONES, MITCHELL LAWRENCE, US
[72] SINGH, SHARAT, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] STYLLI, HARRY, US
[71] PROGENITY INC., US
[85] 2019-05-29
[86] 2017-12-14 (PCT/US2017/066478)
[87] (WO2018/112235)
[30] US (62/434,371) 2016-12-14
[30] US (62/478,846) 2017-03-30
[30] US (62/545,311) 2017-08-14
[30] US (62/583,823) 2017-11-09

[21] **3,045,473**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **SEISMIC ACQUISITION GEOMETRY FULL-WAVEFORM INVERSION**
[54] **INVERSION DE FORME D'ONDES COMPLETES DE GEOMETRIE D'ACQUISITION SISMIQUE**
[72] AHMED, IMTIAZ, US
[71] BP CORPORATION NORTH AMERICA, INC., US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064503)
[87] (WO2018/102813)
[30] US (62/429,569) 2016-12-02

[21] **3,045,474**
[13] A1
[51] **Int.Cl. A61K 38/26 (2006.01) C07K 14/575 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **NEW COMPOUNDS AS PEPTIDIC GLP1/GLUCAGON/GIP RECEPTOR AGONISTS**
[54] **NOUVEAUX COMPOSES UTILISES EN TANT QU'AGONISTES PEPTIDIQUES DU RECEPTEUR DE GLP1/GLUCAGON/GIP**
[72] BOSSART, MARTIN, DE
[72] EVERS, ANDREAS, DE
[72] HAACK, TORSTEN, DE
[72] LORENZ, KATRIN, DE
[72] KADEREIT, DIETER, DE
[72] WAGNER, MICHAEL, DE
[72] PFEIFFER-MAREK, STEFANIA, DE
[72] LORENZ, MARTIN, DE
[71] SANOFI, FR
[85] 2019-05-29
[86] 2017-12-01 (PCT/EP2017/081126)
[87] (WO2018/100135)
[30] EP (16306605.3) 2016-12-02

[21] **3,045,475**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 9/00 (2006.01) A61K 38/13 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH AN IL-12/IL-23 INHIBITOR RELEASED USING AN INGESTIBLE DEVICE**
[54] **TRAITEMENT D'UNE MALADIE DU TRACTUS GASTRO-INTESTINAL AVEC UN INHIBITEUR DES INTERLEUKINES IL-12/IL-23 LIBERE A L'AIDE D'UN DISPOSITIF INGERABLE**
[72] JONES, MITCHELL LAWRENCE, US
[72] SINGH, SHARAT, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] STYLLI, HARRY, US
[71] PROGENITY INC., US
[85] 2019-05-29
[86] 2017-12-14 (PCT/US2017/066474)
[87] (WO2018/112232)
[30] US (62/434,348) 2016-12-14
[30] US (62/478,744) 2017-03-30
[30] US (62/545,188) 2017-08-14
[30] US (62/583,797) 2017-11-09

[21] **3,045,476**
[13] A1
[51] **Int.Cl. A63F 1/12 (2006.01)**
[25] EN
[54] **CARD SHUFFLER**
[54] **BATTEUR DE CARTES**
[72] SINES, TRAVIS L., US
[72] SCHMIDT, LEON, US
[72] WEYRAUCH, BRUCE, US
[72] DENNEY, MICHAEL, US
[72] KESSLER, JAMES, US
[72] MALTHANER, PHILIP, US
[71] STEALTH CDS, LLC, US
[85] 2019-05-29
[86] 2017-12-14 (PCT/US2017/066537)
[87] (WO2018/112274)
[30] US (15/378,829) 2016-12-14

[21] **3,045,477**
[13] A1
[51] **Int.Cl. A61M 37/00 (2006.01) A61F 13/40 (2006.01) A61K 9/00 (2006.01) A61M 5/00 (2006.01) A61M 5/142 (2006.01) A61M 35/00 (2006.01) A61N 1/04 (2006.01) A61N 1/32 (2006.01)**
[25] EN
[54] **TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS**
[54] **DISPOSITIFS ET METHODES D'ADMINISTRATION TRANSDERMIQUE DE MEDICAMENT**
[72] SCHALLER, MICHAEL P., US
[72] JOHNSTON, ANDREW L., US
[72] RUANE, PATRICK H., US
[72] STONE, CAROLYN G., US
[72] SWARTZENBERG, JULIANNA K., US
[72] GELSTON, KEVIN W., US
[72] CLAUSON, LUKE W., US
[71] CHRONO THERAPEUTICS INC., US
[85] 2019-05-29
[86] 2017-12-05 (PCT/US2017/064765)
[87] (WO2018/106723)
[30] US (62/430,121) 2016-12-05
[30] US (62/443,526) 2017-01-06

[21] **3,045,479**
[13] A1
[51] **Int.Cl. B27K 3/02 (2006.01) B27K 5/02 (2006.01) C09D 15/00 (2006.01)**
[25] EN
[54] **COLORATION OF ACETYLATED WOOD**
[54] **COLORATION DE BOIS ACETYLE**
[72] WILLIAMS, DAVID J., GB
[71] ELECTRONICS FOR IMAGING, INC., US
[85] 2019-05-29
[86] 2017-12-07 (PCT/US2017/065126)
[87] (WO2018/106925)
[30] US (62/431,793) 2016-12-08
[30] US (15/654,473) 2017-07-19
[30] US (15/809,970) 2017-11-10

[21] **3,045,480**
[13] A1
[51] **Int.Cl. B24D 3/34 (2006.01) B24D 3/22 (2006.01) B24D 11/00 (2006.01)**
[25] EN
[54] **COATED ABRASIVES HAVING A PERFORMANCE ENHANCING COMPOSITION**
[54] **ABRASIFS REVETUS A COMPOSITION D'AMELIORATION DE PERFORMANCE**
[72] HERBERT, CHARLES G., US
[72] RICE, WILLIAM C., US
[72] WANG, JIANNA, US
[72] BARABASZ, ROBIN, US
[72] KUNG, SHIH-CHIEH, US
[71] SAINT-GOBAIN ABRASIVES, INC., US
[71] SAINT-GOBAIN ABRASIFS, FR
[85] 2019-05-29
[86] 2017-12-21 (PCT/US2017/067966)
[87] (WO2018/119275)
[30] US (62/438,625) 2016-12-23
[30] US (62/440,596) 2016-12-30

[21] **3,045,482**
[13] A1
[51] **Int.Cl. A61L 27/36 (2006.01) A61B 17/322 (2006.01) A61L 27/50 (2006.01) B26D 7/01 (2006.01) G01N 1/06 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TISSUE CRYOMILLING**
[54] **DISPOSITIFS ET PROCEDES DE CRYOBROYAGE DE TISSU**
[72] JESSOP, ISRAEL, US
[71] LIFECELL CORPORATION, US
[85] 2019-05-29
[86] 2017-12-19 (PCT/US2017/067348)
[87] (WO2018/118944)
[30] US (62/438,241) 2016-12-22

[21] **3,045,485**
[13] A1
[51] **Int.Cl. C12Q 1/00 (2006.01) G01N 27/327 (2006.01)**
[25] EN
[54] **NEAR-IR GLUCOSE SENSORS**
[54] **CAPTEURS DE GLUCOSE A INFRAROUGE PROCHE**
[72] GAMSEY, SOYA, US
[72] BERNAT, VIACHASLAU, US
[72] KUTYAVIN, ALEX, US
[72] CLARY, JACOB WILLIAM, US
[72] PRADHAN, SULOLIT, US
[71] PROFUSA, INC., US
[85] 2019-05-29
[86] 2017-12-27 (PCT/US2017/068531)
[87] (WO2018/125913)
[30] US (62/439,363) 2016-12-27
[30] US (62/439,364) 2016-12-27

[21] **3,045,486**
[13] A1
[51] **Int.Cl. G01N 35/10 (2006.01) B01D 19/00 (2006.01) B01L 3/00 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **FLOW CELL LIQUID DEGASSING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DEGAZAGE DE LIQUIDE DE CELLULE D'ECOULEMENT**
[72] DREWS, BRADLEY KENT, US
[71] ILLUMINA, INC., US
[85] 2019-05-29
[86] 2017-12-21 (PCT/US2017/067843)
[87] (WO2018/128847)
[30] US (62/442,749) 2017-01-05
[30] GB (1704768.9) 2017-03-24
[30] US (15/841,076) 2017-12-13

[21] **3,045,487**
[13] A1
[51] **Int.Cl. H05K 3/42 (2006.01) H01L 39/14 (2006.01) H05K 1/09 (2006.01) H05K 1/11 (2006.01)**
[25] EN
[54] **SUPERCONDUCTING PRINTED CIRCUIT BOARD RELATED SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL ASSOCIES A UNE CARTE DE CIRCUIT IMPRIME SUPRACONDUCTRICE**
[72] NEUFELD, RICHARD D., CA
[71] D-WAVE SYSTEMS INC., CA
[85] 2019-05-29
[86] 2017-12-07 (PCT/US2017/065152)
[87] (WO2018/106942)
[30] US (62/431,333) 2016-12-07

[21] **3,045,489**
[13] A1
[51] **Int.Cl. G06F 3/048 (2013.01) G06Q 10/08 (2012.01) G06Q 50/28 (2012.01)**
[25] EN
[54] **SHIPPING MANAGEMENT SYSTEM WITH MULTI-CARRIER SUPPORT**
[54] **SYSTEME DE GESTION D'EXPEDITION A PRISE EN CHARGE DE TRANSPORTEURS MULTIPLES**
[72] KRIEG, CARSON BENNETT, US
[72] BEBOUT, DANIEL JAMES, US
[72] BEBOUT, JENNIFER LYNN, US
[71] CONVEY, INC., US
[85] 2019-05-29
[86] 2017-12-08 (PCT/US2017/065348)
[87] (WO2018/107046)
[30] US (62/432,517) 2016-12-09

[21] **3,045,491**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 13/12 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **INTEGRIN ANTAGONISTS**
[54] **ANTAGONISTES DE L'INTEGRINE**
[72] RUMINSKI, PETER G., US
[72] GRIGGS, DAVID W., US
[72] SEIWERT, SCOTT, US
[71] INDALO THERAPEUTICS, INC., US
[71] SAINT LOUIS UNIVERSITY, US
[85] 2019-05-29
[86] 2017-12-28 (PCT/US2017/068801)
[87] (WO2018/132268)
[30] US (62/440,253) 2016-12-29
[30] US (62/471,882) 2017-03-15

[21] **3,045,492**
[13] A1
[51] **Int.Cl. C07D 498/14 (2006.01) A61K 31/553 (2006.01) A61P 17/00 (2006.01) A61P 19/00 (2006.01)**
[25] EN
[54] **SULFONAMIDE COMPOUNDS HAVING TNAP INHIBITORY ACTIVITY**
[54] **COMPOSES DE SULFONAMIDE AYANT UNE ACTIVITE INHIBITRICE DE TNAP**
[72] MIYAZAKI, SHOJIRO, JP
[72] INUI, MASAHARU, JP
[72] KUROSAKI, YASUNOBU, JP
[72] YAMAMOTO, YUKO, JP
[72] IZUMI, MASANORI, JP
[72] SOMA, KAORI, JP
[72] PINKERTON, ANTHONY, US
[72] KISHIDA, MASAMICHI, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[71] SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE, US
[85] 2019-05-29
[86] 2017-12-22 (PCT/US2017/068314)
[87] (WO2018/119444)
[30] US (62/438,722) 2016-12-23

[21] **3,045,495**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 31/4166 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER USING ANTI-PD-L1 ANTIBODIES AND ANTIANDROGENS**
[54] **PROCEDES DE TRAITEMENT DU CANCER A L'AIDE D'ANTICORPS ANTI-PD-L1 ET D'ANTI-ANDROGENES**
[72] MARIATHASAN, SANJEEV, US
[72] SCHIFF, CHRISTINA, US
[72] NARAYANAN, SUJATA, US
[71] GENENTECH, INC., US
[85] 2019-05-29
[86] 2017-12-12 (PCT/US2017/065841)
[87] (WO2018/111890)
[30] US (62/433,158) 2016-12-12

[21] **3,045,500**
[13] A1
[51] **Int.Cl. C11D 1/14 (2006.01) C11D 1/29 (2006.01) C11D 1/37 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **DETERGENT COMPOSITIONS HAVING SURFACTANT SYSTEMS**
[54] **COMPOSITIONS DETERGENTES DOTEES DE SYSTEMES TENSIOACTIFS**
[72] DELANEY, SARAH ANN, US
[72] STENGER, PATRICK CHRISTOPHER, US
[72] HALL, MEG ELIZABETH, US
[72] THOMAS, CHEYNE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-05-29
[86] 2018-01-11 (PCT/US2018/013290)
[87] (WO2018/132553)
[30] US (15/403,277) 2017-01-11

[21] **3,045,501**
[13] A1
[51] **Int.Cl. G01S 19/27 (2010.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING EXTENDED SATELLITE EPHEMERIS DATA**
[54] **SYSTEME ET PROCEDE SERVANT A GENERER DES DONNEES D'EPHEMERIDES DE SATELLITES DU TYPE ETENDU**
[72] GRANT, ALEXANDER JAMES, AU
[72] MCKILLIAM, ROBERT GEORGE, AU
[71] MYRIOTA PTY LTD, AU
[85] 2019-05-30
[86] 2017-12-21 (PCT/AU2017/000286)
[87] (WO2018/112502)
[30] AU (2016905314) 2016-12-22

[21] **3,045,502**
[13] A1
[51] **Int.Cl. H04W 4/00 (2018.01) H04W 36/00 (2009.01) H04W 36/02 (2009.01) H04W 88/06 (2009.01)**
[25] EN
[54] **CONTINUOUS COMMUNICATION FOR PRIORITIZED USER DEVICE APPLICATIONS**
[54] **COMMUNICATION CONTINUE POUR APPLICATIONS DE DISPOSITIF UTILISATEUR PRIORISEES**
[72] MURPHY, SEAN PATRICK, US
[71] T-MOBILE USA, INC., US
[85] 2019-05-29
[86] 2017-12-13 (PCT/US2017/066186)
[87] (WO2018/112087)
[30] US (15/378,042) 2016-12-14

[21] **3,045,504**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **DIVING WAVE ILLUMINATION USING MIGRATION GATHERS**
[54] **ECLAIRAGE PAR ONDE PLONGEANTE EN UTILISANT DES POINTS DE COLLECTE DE MIGRATION**
[72] AHMED, IMTIAZ, US
[71] BP CORPORATION NORTH AMERICA, INC., US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064506)
[87] (WO2018/102814)
[30] US (62/429,541) 2016-12-02

[21] **3,045,505**
[13] A1
[51] **Int.Cl. A01G 31/00 (2018.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) A01N 25/26 (2006.01) A61K 35/74 (2015.01) C02F 3/32 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND RELATED METHODS FOR AGRICULTURE**
[54] **COMPOSITIONS POUR L'AGRICULTURE ET PROCEDES ASSOCIES**
[72] ARMEN, ZACHARY GARO, US
[72] FRIEDLANDER, JONATHAN, US
[72] CEZAR, CHRISTINE, US
[72] MARTIN, BARRY ANDREW, US
[72] AVENDANO AMADO, MAIER STEVE, US
[72] MARTINEZ, IGNACIO, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US
[85] 2019-05-29
[86] 2018-01-24 (PCT/US2018/015025)
[87] (WO2018/140479)
[30] US (62/450,017) 2017-01-24
[30] US (62/583,736) 2017-11-09

[21] **3,045,507**
[13] A1
[51] **Int.Cl. C09K 15/08 (2006.01) A61K 8/22 (2006.01) A61K 8/38 (2006.01) C01B 15/10 (2006.01)**
[25] EN
[54] **EFFICIENT CURATIVE FOR FREE RADICALLY-CROSSLINKABLE POLYMERS**
[54] **AGENT DE DURCISSEMENT EFFICACE POUR POLYMERES RETICULABLES PAR VOIE RADICALAIRE**
[72] PALYS, LEONARD H., US
[72] DESPOTOPOULOU, MARINA, US
[72] DLUZNESKI, PETER R., US
[71] ARKEMA INC., US
[85] 2019-05-29
[86] 2017-12-14 (PCT/US2017/066398)
[87] (WO2018/118641)
[30] US (62/436,507) 2016-12-20

[21] **3,045,508**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/44 (2006.01)**
[25] EN
[54] **METHODS FOR MODULATION OF CAR-T CELLS**
[54] **PROCEDES DE MODULATION DE LYMPHOCYTES T MODIFIES PAR CAR**
[72] ALBERTSON, TINA, US
[71] JUNO THERAPEUTICS, INC., US
[85] 2019-05-28
[86] 2017-12-01 (PCT/US2017/064363)
[87] (WO2018/102786)
[30] US (62/429,740) 2016-12-03
[30] US (62/444,784) 2017-01-10
[30] US (62/492,950) 2017-05-01
[30] US (62/514,777) 2017-06-02
[30] US (62/515,512) 2017-06-05
[30] US (62/549,391) 2017-08-23
[30] US (62/580,414) 2017-11-01

[21] **3,045,509**
[13] A1
[51] **Int.Cl. H01M 8/18 (2006.01)**
[25] EN
[54] **FLOW BATTERIES INCORPORATING A NITROXIDE COMPOUND WITHIN AN AQUEOUS ELECTROLYTE SOLUTION**
[54] **BATTERIES REDOX INCORPORANT UN COMPOSE NITROXYDE A L'INTERIEUR D'UNE SOLUTION ELECTROLYTIQUE AQUEUSE**
[72] NORMAN, ZACHARIAH M., US
[72] MILLARD, MATTHEW, US
[72] NELSON, EMILY GRACE, US
[72] HUMBARGER, SCOTT THOMAS, US
[71] LOCKHEED MARTIN ADVANCED ENERGY STORAGE, LLC, US
[85] 2019-05-29
[86] 2017-12-15 (PCT/US2017/066792)
[87] (WO2018/112396)
[30] US (62/435,376) 2016-12-16

[21] **3,045,510**
[13] A1
[51] **Int.Cl. H04B 7/04 (2017.01)**
[25] EN
[54] **DETERMINING PROXIMITY OF TRANSMITTER ANTENNAS TO A HUMAN BODY FOR LIMITING TRANSMITTER OUTPUT POWER**
[54] **DETERMINATION DE LA PROXIMITE D'ANTENNES D'EMETTEUR A UN CORPS HUMAIN POUR LIMITER LA PUISSANCE DE SORTIE D'EMETTEUR**
[72] SEYED, SHURHABEEL ZAMIR, US
[72] SHEE, KOON KEONG, US
[72] ALY, ALY, US
[71] MAGIC LEAP, INC., US
[85] 2019-05-29
[86] 2017-12-15 (PCT/US2017/066855)
[87] (WO2018/112430)
[30] US (62/435,383) 2016-12-16

[21] **3,045,512**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **DISTRIBUTED AUDIO CAPTURING TECHNIQUES FOR VIRTUAL REALITY (VR), AUGMENTED REALITY (AR), AND MIXED REALITY (MR) SYSTEMS**
[54] **TECHNIQUES DE CAPTURE AUDIO REPARTIE POUR DES SYSTEMES DE REALITE VIRTUELLE (VR), DE REALITE AUGMENTEE (AR) ET DE REALITE MIXTE (RM)**
[72] SANGER, GEORGE A., US
[72] SCHMIDT, BRIAN LLOYD, US
[72] TAJIK, ANASTASIA ANDREYEVNA, US
[72] O'GARA, TERRY MICHAEL, US
[72] SCHUMWAY, DAVID MATTHEW, US
[72] HOWARTH, ALAN, US
[71] MAGIC LEAP, INC., US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064540)
[87] (WO2018/106605)
[30] US (62/430,268) 2016-12-05

[21] **3,045,513**
[13] A1
[51] **Int.Cl. B65D 19/38 (2006.01) B65D 19/00 (2006.01)**
[25] EN
[54] **PALLET SUPPORT BLOCK AND A PALLET CONSTRUCTED WITH PALLET SUPPORT BLOCKS**
[54] **BLOC DE SUPPORT DE PALETTE ET PALETTE CONSTRUITE AVEC DES BLOCS DE SUPPORT DE PALETTE**
[72] BERWIN, KEVIN JOSEPH, US
[72] BERWIN, MICHAEL JOHN, US
[72] BERWIN, TIMOTHY JOSEPH, US
[72] DEPPEN, TIMOTHY OLIVER, US
[71] PALLETS.COM LLC, US
[71] BERWIN, KEVIN JOSEPH, US
[71] BERWIN, MICHAEL JOHN, US
[71] BERWIN, TIMOTHY JOSEPH, US
[71] DEPPEN, TIMOTHY OLIVER, US
[85] 2019-05-29
[86] 2017-11-17 (PCT/US2017/062167)
[87] (WO2018/102149)
[30] US (15/363,657) 2016-11-29

[21] **3,045,514**
[13] A1
[51] **Int.Cl. G01T 1/202 (2006.01) G01T 3/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR MEASURING RADIATION**
[54] **APPAREIL PERMETTANT DE MESURER UN RAYONNEMENT**
[72] ORAVA, RISTO, FI
[71] SENSINITE OY, FI
[85] 2019-05-30
[86] 2017-12-14 (PCT/FI2017/050889)
[87] (WO2018/109276)
[30] GB (1621498.3) 2016-12-16

[21] **3,045,515**
[13] A1
[51] **Int.Cl. G10L 19/04 (2013.01) G10L 19/00 (2013.01) H03M 7/30 (2006.01)**
[25] EN
[54] **A SIGNAL ENCODER, DECODER AND METHODS USING PREDICTOR MODELS**
[54] **CODEUR, DECODEUR DE SIGNAUX, ET PROCEDES UTILISANT DES MODELES DE PREDICTION**
[72] FANNES, GEERT, BE
[72] VAN DAELE, BERT, BE
[71] AURO TECHNOLOGIES NV, BE
[85] 2019-05-30
[86] 2016-07-15 (PCT/EP2016/066981)
[87] (WO2017/118495)
[30] EP (15003698.6) 2016-01-03

[21] **3,045,516**
[13] A1
[51] **Int.Cl. B65D 81/20 (2006.01) B65D 8/00 (2006.01) B65D 51/28 (2006.01) B65D 85/72 (2006.01)**
[25] EN
[54] **CO2 GENERATOR SYSTEM FOR CARBONATED BEVERAGE CONTAINERS**
[54] **SYSTEME GENERATEUR DE CO2 POUR CONTENANTS DE BOISSON GAZEUSE**
[72] BRACE, JOHN, US
[72] AHMAD, FARHAN, US
[72] SOHN, SEUNGMAN, US
[71] AMCOR RIGID PLASTICS USA, LLC, US
[85] 2019-05-29
[86] 2017-12-06 (PCT/US2017/064877)
[87] (WO2018/106786)
[30] US (62/430,659) 2016-12-06

[21] **3,045,517**
[13] A1
[51] **Int.Cl. C07D 403/10 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61P 29/00 (2006.01) C07D 239/49 (2006.01)**
[25] EN
[54] **PYRIMIDINE COMPOUNDS CONTAINING ACIDIC GROUPS**
[54] **COMPOSES DE PYRIMIDINE CONTENANT DES GROUPES ACIDES**
[72] WU, TOM YAO-HSIANG, US
[71] APROS THERAPEUTICS, INC., US
[85] 2019-05-29
[86] 2017-12-04 (PCT/US2017/064541)
[87] (WO2018/106606)
[30] US (62/430,183) 2016-12-05
[30] US (62/532,230) 2017-07-13

[21] **3,045,518**
[13] A1
[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **ARRANGEMENT COMPRISING AN ABUTMENT POST AND AN APPURTENANT CAP, AS WELL AS A TOOL FOR APPLICATION OF THE CAP**
[54] **SYSTEME COMPRENANT UN TENON RADICULAIRE A PILIER PROTHETIQUE ET UN CAPUCHON ASSOCIE, AINSI QU'UN OUTIL SERVANT A L'APPLICATION DU CAPUCHON**
[72] FREIWALD, FLORIAN, DE
[72] MAACK, ANDRE, DE
[72] DEGIDI, MARCO, IT
[71] DENTSPLY IMPLANTS MANUFACTURING GMBH, DE
[85] 2019-05-30
[86] 2017-11-28 (PCT/EP2017/001382)
[87] (WO2018/099594)
[30] DE (10 2016 123 285.8) 2016-12-01

[21] **3,045,519**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 50/06 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MANAGING AND PREDICTING UTILITY CONSUMPTION**
[54] **PROCEDES ET SYSTEMES DE GESTION ET DE PREDICTION DE CONSOMMATION DE SERVICES PUBLICS**
[72] YU, JIA YUAN, CA
[72] MERAI, MEHDI, CA
[71] VALORBEC SOCIETE EN COMMANDITE, CA
[85] 2019-05-30
[86] 2017-12-04 (PCT/CA2017/000259)
[87] (WO2018/098562)
[30] US (62/429,261) 2016-12-02

[21] **3,045,520**
[13] A1
[51] **Int.Cl. E01C 19/05 (2006.01) E01C 19/10 (2006.01)**
[25] EN
[54] **PLANT FOR THE PRODUCTION AND DISTRIBUTION OF BITUMINOUS CONGLOMERATES**
[54] **INSTALLATION POUR LA PRODUCTION ET LA DISTRIBUTION DE CONGLOMERATS BITUMINEUX**
[72] PIRAZZINI, ANDREA, IT
[72] TOMBA, SIMONA, IT
[72] BERTONI, ENRICO, IT
[71] MARINI S.P.A., IT
[85] 2019-05-30
[86] 2017-12-06 (PCT/EP2017/001408)
[87] (WO2018/103885)
[30] IT (102016000124444) 2016-12-07

[21] **3,045,522**
[13] A1
[51] **Int.Cl. B65G 1/137 (2006.01) B07C 5/34 (2006.01) B60P 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING FOR THE PROCESSING OF OBJECTS IN VEHICLES**
[54] **SYSTEMES ET PROCEDES POUR PERMETTRE LE TRAITEMENT D'OBJETS DANS DES VEHICULES**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[71] BERKSHIRE GREY, INC., US
[85] 2019-05-29
[86] 2017-12-06 (PCT/US2017/064903)
[87] (WO2018/106800)
[30] US (62/430,664) 2016-12-06

[21] **3,045,525**
[13] A1
[51] **Int.Cl. E01C 19/05 (2006.01) E01C 19/10 (2006.01)**
[25] EN
[54] **PLANT FOR THE PRODUCTION AND DISTRIBUTION OF BITUMINOUS CONGLOMERATES**
[54] **INSTALLATION DE PRODUCTION ET DE DISTRIBUTION DE CONGLOMERATS BITUMINEUX**
[72] PIRAZZINI, ANDREA, IT
[72] TOMBA, SIMONA, IT
[72] BERTONI, ENRICO, IT
[71] MARINI S.P.A., IT
[85] 2019-05-30
[86] 2017-12-06 (PCT/EP2017/001409)
[87] (WO2018/103886)
[30] IT (102016000124444) 2016-12-07

[21] **3,045,527**
[13] A1
[51] **Int.Cl. D21H 27/00 (2006.01) D21H 17/07 (2006.01) D21H 17/14 (2006.01) D21H 17/24 (2006.01) D21H 17/25 (2006.01) D21H 17/28 (2006.01) D21H 17/30 (2006.01) D21H 17/32 (2006.01) D21H 21/22 (2006.01)**
[25] EN
[54] **WET STRENGTH, FIBRE-CONTAINING SUBSTRATE WITH ADJUSTABLE WET STRENGTH AND MOISTURE STRENGTH, AND METHOD FOR PRODUCING SAME**
[54] **SUBSTRAT FIBREUX RESISTANT A L'HUMIDITE PRESENTANT UNE RESISTANCE VARIABLE A L'HUMIDITE ET A L'ETAT MOUILLE ET SON PROCEDE DE FABRICATION**
[72] ECKL, JOSEF, DE
[72] SENGER, HANS, DE
[72] BECK, HERBERT, DE
[71] CHEM&P GMBH & CO. KG, DE
[85] 2019-05-30
[86] 2017-11-16 (PCT/EP2017/079386)
[87] (WO2018/099724)
[30] EP (16201550.7) 2016-11-30

[21] **3,045,528**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) C12N 9/90 (2006.01) C12P 19/02 (2006.01) C12P 19/24 (2006.01)**
[25] EN
[54] **A BACILLUS SUBTILIS STRAIN, CULTURE METHOD AND USE THEREOF**
[54] **BACILLUS SUBTILIS, SON PROCEDE DE CULTURE ET APPLICATION ASSOCIEE**
[72] DOU, GUANGPENG, CN
[72] SHAO, XIANBAO, CN
[72] DU, QIAN, CN
[72] GAN, ZHAOBO, CN
[72] LI, FANGHUA, CN
[72] ZHANG, MINGZHAN, CN
[72] YANG, TENGTENG, CN
[72] LIU, SHUANGSHUANG, CN
[72] ZHUO, HONGJIAN, CN
[71] SHANDONG BAILONG CHUANGYUAN BIO-TECH CO., LTD, CN
[85] 2019-05-30
[86] 2017-11-28 (PCT/CN2017/113344)
[87] (WO2018/099366)
[30] CN (201611095535.7) 2016-12-02

[21] **3,045,529**
[13] A1
[51] **Int.Cl. B65B 9/10 (2006.01) A24B 13/00 (2006.01) B29C 65/00 (2006.01) B65B 29/00 (2006.01) B65B 51/22 (2006.01) B65B 51/26 (2006.01) B65B 51/30 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT FOR PORTION-PACKING OF AN ORAL POUCHED SNUFF PRODUCT**
[54] **PROCEDE ET AGENCEMENT D'EMBALLAGE PAR PORTIONS D'UN PRODUIT A PRISER ORAL EN SACHET**
[72] PERSSON, TONY, SE
[72] LINDBERG, JONAS, SE
[71] SWEDISH MATCH NORTH EUROPE AB, SE
[85] 2019-05-30
[86] 2017-11-27 (PCT/EP2017/080469)
[87] (WO2018/099843)
[30] EP (16201939.2) 2016-12-02
[30] EP (16203426.8) 2016-12-12

[21] **3,045,531**
[13] A1
[51] **Int.Cl. A61K 9/06 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **PERSONAL LUBRICANT PROVIDING SEQUENTIAL MULTISENSORIAL PERCEPTIONS AND ARTICLES INCORPORATING SUCH LUBRICANT**
[54] **LUBRIFIANT PERSONNEL FOURNISSANT DES PERCEPTIONS MULTISENSORIELLES SEQUENTIELLES ET ARTICLES INCORPORANT UN TEL LUBRIFIANT**
[72] CAKIRER, MELIS, US
[72] MEMIN, ELISABETH, US
[72] NAZARETH, ALBERT, US
[72] CLUVER, KIRSTEN, US
[72] WANG, CAIHUA, US
[72] KIEKE, JASON, US
[71] CHURCH & DWIGHT CO., INC., US
[85] 2019-05-29
[86] 2017-12-06 (PCT/US2017/064921)
[87] (WO2018/106811)
[30] US (62/430,688) 2016-12-06

[21] **3,045,532**
[13] A1
[51] **Int.Cl. F21V 8/00 (2006.01) A61B 5/145 (2006.01) A61B 5/00 (2006.01) F21V 33/00 (2006.01) G02F 1/1333 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND APPARATUS FOR ILLUMINATING EDGE PORTIONS OF A FACE OF AN ELECTRONIC DEVICE DISPLAY LENS**
[54] **SYSTEMES, PROCEDES ET APPAREIL D'ECLAIRAGE DE PARTIES DE BORD D'UNE FACE DE LENTILLE D'AFFICHAGE DE DISPOSITIF ELECTRONIQUE**
[72] GASS, JENNIFER L., US
[72] PRAIS, EUGENE R., US
[71] ASCENSIA DIABETES CARE HOLDINGS AG, CH
[85] 2019-05-30
[86] 2017-11-27 (PCT/EP2017/080491)
[87] (WO2018/099849)
[30] US (62/429,725) 2016-12-02

[21] **3,045,533**
[13] A1
[51] **Int.Cl. H05K 5/06 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **ILLUMINATED VIEWING SYSTEMS FOR ENCLOSURES**
[54] **SYSTEMES DE VISUALISATION ILLUMINES DESTINES A DES ENCEINTES**
[72] SCARLATA, ANDREW FRANCIS, US
[72] TAYLOR, JESSE WADE, US
[72] MANAHAN, JOSEPH MICHAEL, US
[72] JAYAWARDENA, ADIKARAMGE ASIRI, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2019-05-29
[86] 2017-12-07 (PCT/US2017/065066)
[87] (WO2018/106891)
[30] US (62/431,525) 2016-12-08

[21] **3,045,534**
[13] A1
[51] **Int.Cl. F28D 9/00 (2006.01)**
[25] EN
[54] **A PLATE HEAT EXCHANGER**
[54] **ECHANGEUR THERMIQUE A PLAQUES**
[72] ROMLUND, JENS, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2019-05-30
[86] 2017-12-01 (PCT/EP2017/081167)
[87] (WO2018/114288)
[30] SE (1651728-6) 2016-12-22

[21] **3,045,535**
[13] A1
[51] **Int.Cl. H04W 48/08 (2009.01) H04W 48/16 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD, ACCESS NETWORK DEVICE, CORE NETWORK DEVICE, AND USER EQUIPMENT**
[54] **PROCEDE DE COMMUNICATION, DISPOSITIF DE RESEAU D'ACCES, DISPOSITIF DE RESEAU CENTRAL, ET EQUIPEMENT D'UTILISATEUR**
[72] HAN, FENG, CN
[72] JIN, YINGHAO, CN
[72] LI, HONG, CN
[72] TAN, WEI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-05-30
[86] 2018-01-04 (PCT/CN2018/071271)
[87] (WO2018/127065)
[30] CN (201710010762.3) 2017-01-06

[21] **3,045,539**
[13] A1
[51] **Int.Cl. B66C 1/22 (2006.01) B65G 7/00 (2006.01) B66C 1/10 (2006.01)**
[25] EN
[54] **A CABLE SPOOL LIFTING AND INVERSION BAR AND METHODS OF UTILISATION THEREOF**
[54] **BARRE DE LEVAGE ET D'INVERSION DE BOBINE DE CABLE ET SES PROCEDES D'UTILISATION**
[72] ROOTS, LLOYD, AU
[71] LIBIP HOLDINGS PTY LTD, AU
[85] 2019-05-30
[86] 2017-12-19 (PCT/AU2017/051416)
[87] (WO2018/112523)
[30] AU (2016905286) 2016-12-21

[21] **3,045,541**
[13] A1
[51] **Int.Cl. C07D 307/46 (2006.01)**
[25] EN
[54] **HMF PRODUCTION METHOD**
[54] **PROCEDE DE PRODUCTION DE HMF**
[72] KUNZ, MARKWART, DE
[72] HAJI BEGLI, ALIREZA, DE
[72] KRONER, CHRISTINE, DE
[72] WACH, WOLFGANG, DE
[72] GRAF, ALAIN-MICHEL, DE
[72] KRAUS, WOLFGANG, DE
[71] SUDZUCKER AG, DE
[85] 2019-05-30
[86] 2017-12-01 (PCT/EP2017/081236)
[87] (WO2018/100184)
[30] DE (10 2016 224 073.0) 2016-12-02

[21] **3,045,542**
[13] A1
[51] **Int.Cl. C21D 6/00 (2006.01) C21D 1/26 (2006.01) C21D 8/02 (2006.01) C21D 8/06 (2006.01) C21D 8/10 (2006.01) C21D 9/08 (2006.01) C21D 9/46 (2006.01) C21D 9/52 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01)**
[25] EN
[54] **USE OF A DUPLEX STAINLESS STEEL OBJECT**
[54] **UTILISATION D'UN OBJET EN ACIER INOXYDABLE DUPLEX**
[72] KIVISAKK, ULF, SE
[71] SANDVIK INTELLECTUAL PROPERTY AB, SE
[85] 2019-05-30
[86] 2017-12-18 (PCT/EP2017/083410)
[87] (WO2018/114867)
[30] EP (16205946.3) 2016-12-21

[21] **3,045,543**
[13] A1
[51] **Int.Cl. F03D 7/02 (2006.01) F03D 9/22 (2016.01) F03D 9/25 (2016.01) F03D 80/60 (2016.01) F03D 7/04 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR OPERATING WIND TURBINES**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE D'EOLIENNES**
[72] DE BOER, WOLFGANG, DE
[71] WOBBEN PROPERTIES GMBH, DE
[85] 2019-05-30
[86] 2017-12-13 (PCT/EP2017/082543)
[87] (WO2018/108974)
[30] DE (10 2016 124 135.0) 2016-12-13

[21] **3,045,544**
[13] A1
[51] **Int.Cl. C10M 175/00 (2006.01)**
[25] FR
[54] **METHOD FOR PROCESSING USED OILS**
[54] **PROCEDE DE TRAITEMENT DES HUILES USAGEES**
[72] CHAMPAGNE, NICOLAS, FR
[72] BLAIN, DOMINIQUE, FR
[71] TOTAL MARKETING SERVICES, FR
[85] 2019-05-30
[86] 2017-12-15 (PCT/EP2017/083155)
[87] (WO2018/109208)
[30] FR (1662675) 2016-12-16

[21] **3,045,545**
[13] A1
[51] **Int.Cl. C08F 2/00 (2006.01) C08L 23/12 (2006.01)**
[25] EN
[54] **POLYPROPYLENE COMPOSITION WITH EXCELLENT PAINT ADHESION**
[54] **COMPOSITION DE POLYPROPYLENE PRESENTANT UNE EXCELLENTE ADHERENCE DE LA PEINTURE**
[72] KNIESEL, CLAUDIA, AT
[72] SHUTOV, PAVEL, AT
[72] KAHLEN, SUSANNE, AT
[72] MILEVA, DANIELA, AT
[72] PRADES, FLORAN, AT
[71] BOREALIS AG, AT
[85] 2019-05-29
[86] 2017-12-14 (PCT/EP2017/082743)
[87] (WO2018/109056)
[30] EP (16204510.8) 2016-12-15

[21] **3,045,546**
[13] A1
[51] **Int.Cl. H05B 33/08 (2006.01) G01J 1/44 (2006.01)**
[25] FR
[54] **METHOD AND SYSTEM FOR A FLICKER-FREE LIGHT DIMMER IN AN ELECTRICITY DISTRIBUTION NETWORK**
[54] **METHODE ET SYSTEME POUR GRADATEUR DE LUMIERE SANS SCINTILLEMENT SUR UN RESEAU DE DISTRIBUTION ELECTRIQUE**
[72] BOUCHARD, CLAUDE, CA
[72] BROUILLETTE, ALEXANDRE, CA
[72] BAYEUR, HUGO, CA
[72] GODIN, JACQUES, CA
[71] TECHNOLOGIES INTELIA INC., CA
[85] 2019-05-30
[86] 2017-11-30 (PCT/CA2017/051444)
[87] (WO2018/098583)
[30] CA (2,950,054) 2016-11-30

[21] **3,045,551**
[13] A1
[51] **Int.Cl. A61M 1/36 (2006.01) A61K 48/00 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **IMMUNOADSORPTION**
[54] **IMMUNOADSORPTION**
[72] FERREIRA, VALERIE, NL
[71] UNIQURE IP B.V., NL
[85] 2019-05-30
[86] 2017-12-15 (PCT/EP2017/083154)
[87] (WO2018/109207)
[30] EP (16204806.0) 2016-12-16

[21] **3,045,553**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01)**
[25] EN
[54] **ANTIBODY FRAMEWORKS FOR REDUCING AGGREGATION OF MULTISPECIFIC ANTIBODIES**
[54] **STRUCTURES D'ANTICORPS POUR REDUIRE L'AGREGATION D'ANTICORPS MULTISPECIFIQUES**
[72] BHATTA, PALLAVI, GB
[72] HUMPHREYS, DAVID PAUL, GB
[71] UCB BIOPHARMA SPRL, BE
[85] 2019-05-30
[86] 2017-12-18 (PCT/EP2017/083301)
[87] (WO2018/114795)
[30] GB (1621591.5) 2016-12-19

[21] **3,045,556**
[13] A1
[51] **Int.Cl. A61M 5/20 (2006.01) A61B 17/20 (2006.01) A61M 5/30 (2006.01)**
[25] EN
[54] **NEEDLELESS INJECTOR**
[54] **INJECTEUR SANS AIGUILLE**
[72] FACHINGER, VICKY, NL
[72] COX, ERIK, NL
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2019-05-30
[86] 2017-12-21 (PCT/EP2017/084031)
[87] (WO2018/115249)
[30] EP (16206086.7) 2016-12-22

[21] **3,045,563**
[13] A1
[51] **Int.Cl. A61K 39/04 (2006.01) A61K 39/02 (2006.01) A61K 39/12 (2006.01)**
[25] EN
[54] **COMBINATION VACCINE FOR SWINE**
[54] **VACCIN COMBINE POUR PORC**
[72] JANSEN, THEODORUS, NL
[72] WITVLIET, MAARTEN HENDRIK, NL
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2019-05-30
[86] 2017-12-22 (PCT/EP2017/084376)
[87] (WO2018/115435)
[30] EP (16206789.6) 2016-12-23
[30] EP (17157828.9) 2017-02-24

[21] **3,045,565**
[13] A1
[51] **Int.Cl. H02J 3/14 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A WIND FARM**
[54] **PROCEDE DE FONCTIONNEMENT D'UN PARC EOLIEN**
[72] BROMBACH, JOHANNES, DE
[72] SCHUBERT, KATHARINA, DE
[72] GIERTZ, HELGE, DE
[72] ROGGE, DAVID, DE
[71] WOBBEN PROPERTIES GMBH, DE
[85] 2019-05-30
[86] 2017-12-27 (PCT/EP2017/084631)
[87] (WO2018/122253)
[30] DE (10 2016 125 953.5) 2016-12-30

[21] **3,045,566**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 9/28 (2006.01)**
[25] EN
[54] **NOVEL TEBIPENEM PIVOXIL IMMEDIATE AND MODIFIED RELEASE ORAL DOSAGE FORMS**
[54] **NOUVELLES FORMES POSOLOGIQUES D'ADMINISTRATION PAR VOIE ORALE A LIBERATION IMMEDIATE ET MODIFIEE DE TEBIPENEME PIVOXIL**
[72] JAIN, AKASH, US
[72] LU, ENXIAN, CN
[72] LYU, SHAOQIONG, CN
[72] LI, SHOUFENG, US
[72] KEUTZER, TIMOTHY, US
[72] UTLEY, LUKE, US
[72] FRACZKIEWICZ, GRAZYNA, US
[72] MACWAN, JOYCE, US
[71] SPERO THERAPEUTICS, INC., US
[85] 2019-05-31
[86] 2017-12-15 (PCT/US2017/066729)
[87] (WO2018/112372)
[30] US (62/434,643) 2016-12-15
[30] US (62/438,071) 2016-12-22

[21] **3,045,567**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01)**
[25] EN
[54] **NOVEL AMINO-IMIDAZOPYRIDINE DERIVATIVES AS JANUS KINASE INHIBITORS AND PHARMACEUTICAL USE THEREOF**
[54] **NOUVEAUX DERIVES D'AMINO-IMIDAZOPYRIDINE EN TANT QU'INHIBITEURS DE JANUS KINASE ET LEUR UTILISATION PHARMACEUTIQUE**
[72] LARSEN, JENS, DK
[72] LARSEN, MOGENS, DK
[72] RASMUSSEN, LARS KYHN, DK
[72] RITZEN, ANDREAS, DK
[72] DUUS, TINE MARIANNE, DK
[71] LEO PHARMA A/S, DK
[85] 2019-05-30
[86] 2018-01-10 (PCT/EP2018/050548)
[87] (WO2018/130563)
[30] EP (17151020.9) 2017-01-11

[21] **3,045,570**
[13] A1
[51] **Int.Cl. G01P 5/08 (2006.01) G01F 1/64 (2006.01)**
[25] FR
[54] **DEVICE AND METHOD FOR MEASURING A GAS FLOW RATE**
[54] **DISPOSITIF ET PROCEDE DE MESURE D'UNE VITESSE D'ECOULEMENT DE GAZ**
[72] ELIAS, PAUL-QUENTIN, FR
[71] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR
[85] 2019-05-30
[86] 2017-12-01 (PCT/FR2017/053343)
[87] (WO2018/104627)
[30] FR (16 62169) 2016-12-08

[21] **3,045,579**
[13] A1
[51] **Int.Cl. G01J 5/20 (2006.01) G01J 5/02 (2006.01) G01J 5/08 (2006.01) G01J 5/26 (2006.01) H01L 27/146 (2006.01)**
[25] FR
[54] **INFRARED IMAGE SENSOR**
[54] **CAPTEUR D'IMAGE INFRAROUGE**
[72] BOUDOU, NICOLAS, FR
[72] GORECKI, ALEXIA, FR
[71] ULIS, FR
[85] 2019-05-30
[86] 2017-12-05 (PCT/FR2017/053402)
[87] (WO2018/104653)
[30] FR (1662079) 2016-12-07

[21] **3,045,580**
[13] A1
[51] **Int.Cl. G01J 5/20 (2006.01) G01J 5/02 (2006.01) G01J 5/08 (2006.01) G01J 5/26 (2006.01) H01L 27/146 (2006.01)**
[25] FR
[54] **INFRARED IMAGE SENSOR**
[54] **CAPTEUR D'IMAGE INFRAROUGE**
[72] BOUDOU, NICOLAS, FR
[72] GORECKI, ALEXIA, FR
[71] ULIS, FR
[85] 2019-05-30
[86] 2017-12-05 (PCT/FR2017/053403)
[87] (WO2018/104654)
[30] FR (1662079) 2016-12-07

[21] **3,045,583**
[13] A1
[51] **Int.Cl. E02D 17/13 (2006.01) E02F 3/20 (2006.01)**
[25] EN
[54] **BORING MACHINE PROVIDED WITH FOUR BORING BODIES**
[54] **MACHINE DE FORAGE MUNIE DE QUATRE ORGANES DE FORAGE**
[72] BERNASINSKI, REGIS, FR
[72] RODRIGUEZ, PASCAL, FR
[72] COUDRY, MICHEL, FR
[72] STEFF DE VERNINAC, BERTRAND, FR
[71] SOLETANCHE FREYSSINET, FR
[85] 2019-05-30
[86] 2017-12-13 (PCT/FR2017/053532)
[87] (WO2018/109370)
[30] FR (1662446) 2016-12-14

[21] **3,045,585**
[13] A1
[51] **Int.Cl. C23G 1/02 (2006.01) C02F 5/08 (2006.01)**
[25] EN
[54] **FLUORINATED ACID COMPOUNDS, COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSES D'ACIDE FLUORE, COMPOSITIONS ET PROCEDES D'UTILISATION**
[72] THOMSON, RODNEY, CA
[71] WIN CHEMICALS, LTD., CA
[71] VITECH INTERNATIONAL, INC., CA
[85] 2019-05-30
[86] 2017-12-01 (PCT/IB2017/001707)
[87] (WO2018/104796)
[30] US (62/428,931) 2016-12-01
[30] US (15/828,142) 2017-11-30

[21] **3,045,587**
[13] A1
[51] **Int.Cl. C22B 3/44 (2006.01) C22B 3/00 (2006.01) C22B 3/02 (2006.01) C22B 3/06 (2006.01) C22B 7/00 (2006.01) C22B 15/00 (2006.01) C22B 19/00 (2006.01) C22B 26/22 (2006.01) C22B 47/00 (2006.01)**
[25] EN
[54] **METHODS FOR CONTROLLING IRON VIA MAGNETITE FORMATION IN HYDROMETALLURGICAL PROCESSES**
[54] **PROCEDES PERMETTANT DE CONTROLER DU FER PAR FORMATION DE MAGNETITE DANS DES PROCEDES HYDROMETALLURGIQUES**
[72] CHAIKO, DAVID JOHN, US
[72] BACZEK, FRANK, US
[72] ROCKS, SARA (SALLY), US
[71] FLSMIDTH A/S, DK
[85] 2019-05-30
[86] 2017-11-30 (PCT/IB2017/057553)
[87] (WO2018/100539)
[30] US (62/428,895) 2016-12-01

[21] **3,045,588**
[13] A1
[51] **Int.Cl. E02D 5/10 (2006.01)**
[25] EN
[54] **CONCRETE SHEET PILE**
[54] **PALPLANCHE EN BETON**
[72] PEDROCCO, LUCIO, IT
[71] PEDROCCO, LUCIO, IT
[85] 2019-05-30
[86] 2017-12-07 (PCT/IB2017/057724)
[87] (WO2018/104902)
[30] IT (102016000124346) 2016-12-07

[21] **3,045,589**
[13] A1
[51] **Int.Cl. B01D 63/06 (2006.01) B01D 46/24 (2006.01) B01D 65/08 (2006.01) C04B 38/00 (2006.01)**
[25] FR
[54] **TANGENTIAL FLOW SEPARATION ELEMENT INCORPORATING FLEXUOUS CHANNELS**
[54] **ELEMENT DE SEPARATION PAR FLUX TANGENTIEL INTEGRANT DES CANAUX FLEXUEUX**
[72] LESCOCHE, PHILIPPE, FR
[72] ANQUETIL, JEROME, FR
[71] TECHNOLOGIES AVANCEES ET MEMBRANES INDUSTRIELLES, FR
[85] 2019-05-30
[86] 2017-12-13 (PCT/FR2017/053537)
[87] (WO2018/115639)
[30] FR (16 63058) 2016-12-21

[21] **3,045,590**
[13] A1
[51] **Int.Cl. B65G 47/68 (2006.01) B65B 35/54 (2006.01)**
[25] FR
[54] **METHOD AND DEVICE FOR FORMING AN ASSEMBLY OF PRODUCTS OF DIFFERENT TYPES ON A CONVEYOR**
[54] **PROCEDE ET DISPOSITIF DE CONSTITUTION D'UN ENSEMBLE DE PRODUITS DE TYPES DIFFERENTS SUR UN CONVOYEUR**
[72] GEHIN, ANTHONY, FR
[72] HUTTER, PATRICK, FR
[72] KLOTZ, FRANCK, CA
[71] GEBO PACKAGING SOLUTIONS FRANCE, FR
[85] 2019-05-30
[86] 2017-12-22 (PCT/FR2017/053842)
[87] (WO2018/122526)
[30] FR (1663415) 2016-12-27

[21] **3,045,591**
[13] A1
[51] **Int.Cl. E05F 1/12 (2006.01) E05F 3/16 (2006.01) E05F 3/20 (2006.01)**
[25] EN
[54] **HINGE FOR THE ROTATABLE MOVEMENT OF A DOOR, A SHUTTER OR THE LIKE**
[54] **CHARNIERE POUR LE MOUVEMENT ROTATIF D'UNE PORTE, D'UN VOLET OU SIMILAIRE**
[72] BACCHETTI, LUCIANO, IT
[71] IN & TEC S.R.L., IT
[85] 2019-05-30
[86] 2017-12-15 (PCT/IB2017/057988)
[87] (WO2018/109732)
[30] IT (102016000126563) 2016-12-15
[30] IT (102016000126588) 2016-12-15
[30] IT (102016000126612) 2016-12-15
[30] IT (102016000126630) 2016-12-15
[30] IT (102016000126661) 2016-12-15

[21] **3,045,592**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 43/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTIBODY DRUG CONJUGATES FOR ABLATING HEMATOPOIETIC STEM CELLS**
[54] **CONJUGUES ANTICORPS-MEDICAMENT POUR L'ABLATION DE CELLULES SOUCHES HEMATOPOIETIQUES**
[72] WEN, BEN, US
[72] BOITANO, ANTHONY E., US
[72] BURGER, MATTHEW, US
[72] CELLITTI, SUSAN E., US
[72] COOKE, MICHAEL P., US
[72] FINNER, CATRIN, DE
[72] GEIERSTANGER, BERNHARD HUBERT, US
[72] JIN, YUNHO, US
[72] LEE-HOEFLICH, SI TUEN, US
[72] PHAM, HONGNGOC THI, US
[72] SCHLEYER, SIEW HO, US
[72] TISSOT, KATHRIN, DE
[72] UNO, TETSUO, US
[71] NOVARTIS AG, CH
[85] 2019-05-30
[86] 2017-12-19 (PCT/IB2017/058159)
[87] (WO2018/116178)
[30] US (62/437,622) 2016-12-21
[30] US (62/520,854) 2017-06-16

[21] **3,045,593**
[13] A1
[51] **Int.Cl. D21H 27/10 (2006.01) D21H 11/18 (2006.01) D21H 19/10 (2006.01) D21H 19/34 (2006.01) D21H 21/16 (2006.01) D21H 23/02 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PRODUCTION OF A COATED PAPER, PAPERBAORD OR FILM AND A COATED PAPER, PAPERBOARD OR FILM**
[54] **PROCEDE DE PRODUCTION D'UN PAPIER, CARTON OU FILM REVETU, ET PAPIER, CARTON OU FILM REVETU**
[72] HEISKANEN, ISTO, FI
[72] SAUKKONEN, ESA, FI
[71] STORA ENSO OYJ, FI
[85] 2019-05-30
[86] 2017-12-21 (PCT/IB2017/058246)
[87] (WO2018/116223)
[30] SE (1651734-4) 2016-12-22

[21] **3,045,594**
[13] A1
[51] **Int.Cl. G01B 9/02 (2006.01) A61B 3/10 (2006.01)**
[25] EN
[54] **DYNAMIC MODE SWITCHING FOR MULTI-MODE OPTHALMIC OPTICAL COHERENCE TOMOGRAPHY**
[54] **COMMUTATION DE MODE DYNAMIQUE POUR TOMOGRAPHIE PAR COHERENCE OPTIQUE OPHTALMIQUE MULTIMODE**
[72] AL-QAISI, MUHAMMAD K., US
[72] HOLLAND, GUY, US
[71] NOVARTIS AG, CH
[85] 2019-05-30
[86] 2018-01-12 (PCT/IB2018/050214)
[87] (WO2018/138596)
[30] US (62/449,645) 2017-01-24
[30] US (62/474,698) 2017-03-22

[21] **3,045,595**
[13] A1
[51] **Int.Cl. A61B 3/14 (2006.01) A61B 3/117 (2006.01) A61F 9/008 (2006.01) G09B 23/30 (2006.01)**
[25] EN
[54] **CALIBRATION METHOD FOR A CAMERA-BASED MEASURING DEVICE FOR DIAGNOSIS OF A HUMAN EYE**
[54] **PROCEDE D'ETALONNAGE POUR UN DISPOSITIF DE MESURE BASE SUR CAMERA POUR LE DIAGNOSTIC D'UN OEIL HUMAIN**
[72] BUGE, DAVID, DE
[71] NOVARTIS AG, CH
[85] 2019-05-30
[86] 2018-01-02 (PCT/IB2018/050023)
[87] (WO2018/134692)
[30] DE (10 2017 000 452.8) 2017-01-18

[21] **3,045,597**
[13] A1
[51] **Int.Cl. H04N 21/236 (2011.01)**
[25] EN
[54] **BROADCAST SIGNAL TRANSMITTING/RECEIVING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'EMISSION/RECEPTION DE SIGNAL DE RADIODIFFUSION**
[72] YANG, SEUNGRYUL, KR
[72] KWAK, MINSUNG, KR
[72] KO, WOOSUK, KR
[71] LG ELECTRONICS INC., KR
[85] 2019-05-30
[86] 2017-07-06 (PCT/KR2017/007217)
[87] (WO2018/101566)
[30] US (62/429,087) 2016-12-02
[30] US (62/435,084) 2016-12-16

[21] **3,045,598**
[13] A1
[51] **Int.Cl. B01D 53/26 (2006.01) B01J 20/16 (2006.01) B01J 20/28 (2006.01) H05B 3/20 (2006.01)**
[25] EN
[54] **SELF-HEATING SHEET-LIKE MATERIAL FOR MOISTURE ABSORPTION AND DESORPTION, MOISTURE ABSORPTION AND DESORPTION BODY, AND MOISTURE ABSORPTION AND DESORPTION DEVICE USING THE SAME**
[54] **ARTICLE EN FORME DE FEUILLE AUTO-CHAUFFANT DESTINE A ETRE UTILISE POUR L'ABSORPTION/DESORPTION D'HUMIDITE, CORPS D'ABSORPTION/DESORPTION D'HUMIDITE, ET DISPOSITIF D'ABSORPTION/DESORPTION D'HUMIDITE UTILISANT LEDIT ARTICLE ET LEDIT CORPS**
[72] OKUMURA, KATSUYA, JP
[72] TSUCHIDA, MINORU, JP
[72] MURAMATSU, DAISUKE, JP
[71] TOMOEGAWA CO., LTD., JP
[85] 2019-05-30
[86] 2018-01-10 (PCT/JP2018/000297)
[87] (WO2018/131591)
[30] JP (2017-004961) 2017-01-16

[21] **3,045,599**
[13] A1
[51] **Int.Cl. C07K 7/08 (2006.01) C07K 14/005 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **CYTOPLASMIC TRANSDUCTION PEPTIDE AND INTRACELLULAR MESSENGER COMPRISING SAME**
[54] **PEPTIDE DE TRANSDUCTION CYTOPLASMIQUE ET MESSAGER INTRACELLULAIRE LE COMPRENANT**
[72] BAEK, YI YONG, KR
[72] KIM, MIN JUNG, KR
[71] AVIXGEN INC, KR
[85] 2019-05-30
[86] 2017-12-15 (PCT/KR2017/014897)
[87] (WO2018/111051)
[30] KR (10-2016-0172548) 2016-12-16
[30] KR (10-2017-0173642) 2017-12-15

[21] **3,045,600**
[13] A1
[51] **Int.Cl. G02B 25/00 (2006.01) A61B 90/00 (2016.01) G02B 25/02 (2006.01) G02B 27/01 (2006.01) H04N 5/225 (2006.01) H04N 5/232 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF ACQUISITION, REGISTRATION AND MULTIMEDIA MANAGEMENT**
[54] **SYSTEME ET PROCEDE D'ACQUISITION, D'ENREGISTREMENT ET DE GESTION MULTIMEDIA**
[72] ANTUNES, NUNO, PT
[72] MARQUES, RUBEN, PT
[72] ANTUNES, JOSE, GB
[71] ANTUNES, NUNO, PT
[85] 2019-05-30
[86] 2018-01-14 (PCT/IB2018/050226)
[87] (WO2018/130995)
[30] PT (109855) 2017-01-13
[30] GB (1702664.2) 2017-02-19

[21] **3,045,601**
[13] A1
[51] **Int.Cl. C22C 38/04 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/58 (2006.01)**
[25] EN
[54] **HIGH-STRENGTH HIGH-TOUGHNESS THICK STEEL SHEET AND MANUFACTURING METHOD THEREFOR**
[54] **TOLE D'ACIER EPAISSE A TENACITE ELEVEE ET HAUTE RESISTANCE ET SON PROCEDE DE FABRICATION**
[72] KANG, MO-CHANG, KR
[72] JANG, DEA-YOUNG, KR
[71] POSCO, KR
[85] 2019-05-30
[86] 2017-12-21 (PCT/KR2017/015272)
[87] (WO2018/117700)
[30] KR (10-2016-0176514) 2016-12-22

[21] **3,045,602**
[13] A1
[51] **Int.Cl. A01J 5/013 (2006.01)**
[25] EN
[54] **MILKING SYSTEM**
[54] **SYSTEME DE TRAITE**
[72] MOSTERT, GERARD, NL
[72] STEENBERGEN, RIK, NL
[72] VAN HALSEMA, FRANS EMO DIDERIK, NL
[71] LELY PATENT N.V., NL
[85] 2019-05-30
[86] 2017-11-27 (PCT/NL2017/050779)
[87] (WO2018/111093)
[30] NL (2017995) 2016-12-14

[21] **3,045,603**
[13] A1
[51] **Int.Cl. G01D 5/32 (2006.01) E02D 1/08 (2006.01) G01B 11/16 (2006.01) G01L 11/02 (2006.01)**
[25] EN
[54] **EMBANKMENT MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE DIGUE**
[72] KARABACAK, DEVREZ MEHMET, NL
[72] MEULBLOK, BASTIAAN, NL
[72] KNOPPERS, GERMAN ENRIQUE, NL
[71] FUGRO TECHNOLOGY B.V., NL
[85] 2019-05-30
[86] 2017-12-01 (PCT/NL2017/050802)
[87] (WO2018/101828)
[30] NL (2017916) 2016-12-02

[21] **3,045,605**
[13] A1
[51] **Int.Cl. A61B 17/115 (2006.01) A61B 17/11 (2006.01)**
[25] EN
[54] **INSTRUMENT FOR PERFORMING ANASTOMOSIS**
[54] **INSTRUMENT POUR REALISER UNE ANASTOMOSE**
[72] HAVENGA, KLAAS, NL
[72] BOESJES, OLF, NL
[72] NIEUWENHUIS, JAN, NL
[71] IMPLICAN B.V., NL
[71] RIJKSUNIVERSITEIT GRONINGEN, NL
[71] ACADEMISCH ZIEKENHUIS GRONINGEN, NL
[85] 2019-05-30
[86] 2017-12-04 (PCT/NL2017/050810)
[87] (WO2018/101832)
[30] NL (2017917) 2016-12-02

[21] **3,045,606**
[13] A1
[51] **Int.Cl. A61B 3/10 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR OPTICAL COHERENCE TOMOGRAPHY SCANNING**
[54] **PROCEDE ET APPAREIL DE BALAYAGE DE TOMOGRAPHIE PAR COHERENCE OPTIQUE**
[72] ARTSYUKHOVICH, ALEXANDER N., US
[72] ASLAN, Z. ARAS, US
[72] REN, HUGANG, US
[72] ZHOU, CHENGXIN, US
[72] YU, LINGFENG, US
[71] NOVARTIS AG, CH
[85] 2019-05-30
[86] 2018-01-18 (PCT/IB2018/050327)
[87] (WO2018/134770)
[30] US (62/448,086) 2017-01-19

[21] **3,045,607**
[13] A1
[51] **Int.Cl. B22C 9/02 (2006.01) B29C 64/124 (2017.01) B29C 64/129 (2017.01) B29C 64/135 (2017.01) B22C 9/10 (2006.01) B22C 13/08 (2006.01) B22C 13/12 (2006.01) B22C 21/14 (2006.01) B22D 29/00 (2006.01) B28B 1/00 (2006.01) G03F 7/00 (2006.01) G03F 7/20 (2006.01)**
[25] EN
[54] **MULTI-PIECE INTEGRATED CORE-SHELL STRUCTURE FOR MAKING CAST COMPONENT**
[54] **STRUCTURE NOYAU-COQUE INTEGREE A PIECES MULTIPLES POUR LA FABRICATION D'UN ELEMENT COULE**
[72] DEINES, JAMES HERBERT, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] MCCARREN, MICHAEL JOHN, US
[72] YANG, XI, US
[72] PETERSON, BRIAN PATRICK, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-16 (PCT/US2017/056715)
[87] (WO2018/111397)
[30] US (15/377,796) 2016-12-13

[21] **3,045,608**
[13] A1
[51] **Int.Cl. G01V 5/04 (2006.01) E21B 47/01 (2012.01) E21B 47/04 (2012.01) E21B 49/00 (2006.01) G01N 23/083 (2018.01)**
[25] EN
[54] **SENSOR FOR A DOWNHOLE TOOL**
[54] **CAPTEUR POUR UN OUTIL DE FOND DE TROU**
[72] LAASTAD, HARALD ODD, NO
[71] EQUINOR ENERGY AS, NO
[85] 2019-05-30
[86] 2017-11-30 (PCT/NO2017/050312)
[87] (WO2018/101842)
[30] GB (1620514.8) 2016-12-02

[21] **3,045,609**
[13] A1
[51] **Int.Cl. A23C 3/02 (2006.01) A01K 5/00 (2006.01) A01K 9/00 (2006.01) A23L 3/00 (2006.01) B65D 75/30 (2006.01) B65D 75/58 (2006.01)**
[25] EN
[54] **STORAGE BAG WITH JOINED CENTER PORTION**
[54] **SAC DE STOCKAGE AVEC PARTIE CENTRALE ASSEMBLEE**
[72] DUMM, RICHARD H., US
[71] DAIRY TECH, INC., US
[85] 2019-05-30
[86] 2017-08-01 (PCT/US2017/044817)
[87] (WO2018/125291)
[30] US (62/440,557) 2016-12-30
[30] US (15/652,544) 2017-07-18

[21] **3,045,610**
[13] A1
[51] **Int.Cl. E21B 34/02 (2006.01)**
[25] EN
[54] **VALVE DEVICE AND METHOD**
[54] **DISPOSITIF DE TYPE CLAPET ET PROCEDE ASSOCIE**
[72] HARESTAD, KRISTIAN, NO
[71] PETROLEUM TECHNOLOGY COMPANY AS, NO
[85] 2019-05-30
[86] 2017-12-04 (PCT/NO2017/050313)
[87] (WO2018/106119)
[30] NO (20161936) 2016-12-05

[21] **3,045,611**
[13] A1
[51] **Int.Cl. G06Q 20/20 (2012.01) H04W 12/00 (2009.01) H04L 9/00 (2006.01)**
[25] EN
[54] **MOBILE PAYMENT SYSTEM**
[54] **SYSTEME DE PAIEMENT MOBILE**
[72] LIU, HONG, US
[72] NARSIPUR, KESHAV, US
[71] AMERICAN EXPRESS TRAVEL RELATED SERVICES COMPANY, INC., US
[85] 2019-05-30
[86] 2017-10-19 (PCT/US2017/057438)
[87] (WO2018/102044)
[30] US (15/365,598) 2016-11-30

[21] **3,045,612**
[13] A1
[51] **Int.Cl. B22C 9/02 (2006.01) B29C 64/124 (2017.01) B29C 64/129 (2017.01) B29C 64/135 (2017.01) B22C 9/10 (2006.01) B22C 13/08 (2006.01) B22C 13/12 (2006.01) B22D 29/00 (2006.01) B28B 1/00 (2006.01) G03F 7/00 (2006.01) G03F 7/20 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE WITH PRINTED TUBES FOR MAKING CAST COMPONENT**
[54] **STRUCTURE DE NOYAU-CARAPACE DE COULEE INTEGREE AVEC TUBES IMPRIMES POUR REALISER UN ELEMENT COULE**
[72] MCCARREN, MICHAEL JOHN, US
[72] DEINES, JAMES HERBERT, US
[72] YANG, XI, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-23 (PCT/US2017/057831)
[87] (WO2018/111404)
[30] US (15/377,673) 2016-12-13

[21] **3,045,613**
[13] A1
[51] **Int.Cl. B22C 9/02 (2006.01) B29C 64/124 (2017.01) B29C 64/129 (2017.01) B29C 64/135 (2017.01) B22C 9/10 (2006.01) B22C 13/08 (2006.01) B22C 13/12 (2006.01) B22D 29/00 (2006.01) B28B 1/00 (2006.01) G03F 7/00 (2006.01) G03F 7/20 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE FOR MAKING CAST COMPONENTS HAVING THIN ROOT COMPONENTS**
[54] **STRUCTURE INTEGREE NOYAU-ENVELOPPE DE COULEE POUR LA FABRICATION DE COMPOSANTS COULES AYANT DES COMPOSANTS RACINE MINCES**
[72] GARAY, GREGORY TERRENCE, US
[72] YANG, XI, US
[72] DEINES, JAMES HERBERT, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-23 (PCT/US2017/057874)
[87] (WO2018/111405)
[30] US (15/377,766) 2016-12-13

[21] **3,045,614**
[13] A1
[51] **Int.Cl. B22C 9/06 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B29C 64/118 (2017.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE FOR MAKING CAST COMPONENT WITH COOLING HOLES IN INACCESSIBLE LOCATIONS**
[54] **STRUCTURE NOYAU-ENVELOPPE DE COULEE INTEGREE POUR FABRIQUER UN COMPOSANT COULE AVEC DES TROUS DE REFROIDISSEMENT DANS DES EMPLACEMENTS INACCESSIBLES**
[72] GARAY, GREGORY TERRENCE, US
[72] YANG, XI, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-11-06 (PCT/US2017/060158)
[87] (WO2018/111437)
[30] US (15/377,783) 2016-12-13

[21] **3,045,616**
[13] A1
[51] **Int.Cl. B22D 29/00 (2006.01) B29C 64/124 (2017.01) B22C 9/02 (2006.01) B22C 9/10 (2006.01) B22C 9/24 (2006.01) B22C 13/08 (2006.01) B22D 27/04 (2006.01) B22D 29/04 (2006.01) B28B 1/00 (2006.01) F01D 5/16 (2006.01) G03F 7/00 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE FOR MAKING CAST COMPONENT WITH NON-LINEAR HOLES**
[54] **STRUCTURE DE MOULAGE A NOYAU-COQUE INTEGRES PERMETTANT DE FABRIQUER UN COMPOSANT COULE POURVU DE TROUS NON LINEAIRES**
[72] GARAY, GREGORY TERRENCE, US
[72] YANG, XI, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-24 (PCT/US2017/057944)
[87] (WO2018/111407)
[30] US (15/377,787) 2016-12-13

[21] **3,045,618**
[13] A1
[51] **Int.Cl. B22C 9/24 (2006.01) B22C 9/04 (2006.01) B22C 9/08 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE AND FILTER FOR MAKING CAST COMPONENT**
[54] **STRUCTURE C□UR-ECORCE DE COULEE INTEGREE ET FILTRE POUR LA FABRICATION D'UN COMPOSANT COULE**
[72] YANG, XI, US
[72] DEINES, JAMES HERBERT, US
[72] MCCARREN, MICHAEL JOHN, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] PETERSON, BRIAN PATRICK, US
[72] GARAY, GREGORY TERRENCE, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-11-06 (PCT/US2017/060165)
[87] (WO2018/111438)
[30] US (15/377,759) 2016-12-13

[21] **3,045,620**
[13] A1
[51] **Int.Cl. B22D 29/00 (2006.01) B29C 64/124 (2017.01) B22C 9/02 (2006.01) B22C 9/10 (2006.01) B22C 9/24 (2006.01) B22C 13/08 (2006.01) B22D 27/04 (2006.01) B28B 1/00 (2006.01) F01D 5/16 (2006.01) G03F 7/00 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE WITH FLOATING TIP PLENUM**
[54] **STRUCTURE NOYAU-ENVELOPPE DE COULEE INTEGREE AVEC CHAMBRE DE POINTE FLOTTANTE**
[72] DEINES, JAMES HERBERT, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] MCCARREN, MICHAEL JOHN, US
[72] GARAY, GREGORY TERRENCE, US
[72] KONITZER, DOUGLAS GERARD, US
[72] MARUSKO, MARK WILLARD, US
[72] YANG, XI, US
[72] PETERSON, BRIAN PATRICK, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-24 (PCT/US2017/057945)
[87] (WO2018/111408)
[30] US (15/377,711) 2016-12-13

[21] **3,045,621**
[13] A1
[51] **Int.Cl. B22C 9/02 (2006.01) B22C 9/10 (2006.01) B22C 9/22 (2006.01)**
[25] EN
[54] **MULTI-PIECE INTEGRATED CORE-SHELL STRUCTURE WITH STANDOFF AND/OR BUMPER FOR MAKING CAST COMPONENT**
[54] **STRUCTURE NOYAU-COQUE INTEGREE MULTI-PIECE AVEC ENTRETOISE ET/OU PARE-CHOCS POUR LA FABRICATION D'UN COMPOSANT COULE**
[72] DEINES, JAMES HERBERT, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] MCCARREN, MICHAEL JOHN, US
[72] YANG, XI, US
[72] PETERSON, BRIAN PATRICK, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-11-06 (PCT/US2017/060178)
[87] (WO2018/111439)
[30] US (15/377,746) 2016-12-13

[21] **3,045,622**
[13] A1
[51] **Int.Cl. C09K 8/03 (2006.01) C09K 8/36 (2006.01) C09K 8/528 (2006.01) E21B 37/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR USE IN DRILLING FLUIDS**
[54] **COMPOSITIONS DESTINEES A ETRE UTILISEES DANS DES FLUIDES DE FORAGE**
[72] RAY, CARL RANDALL, US
[72] RICHARD, DUSTIN J., US
[71] PRINCE ENERGY LLC, US
[85] 2019-05-30
[86] 2016-11-30 (PCT/US2016/064170)
[87] (WO2018/101929)

[21] **3,045,623**
[13] A1
[51] **Int.Cl. B22C 7/02 (2006.01) B22C 9/04 (2006.01)**
[25] EN
[54] **INTEGRATED CASTING CORE-SHELL STRUCTURE**
[54] **STRUCTURE DE NOYAU-ENVELOPPE DE COULEE INTEGREE**
[72] DEINES, JAMES HERBERT, US
[72] PRZESLAWSKI, BRIAN DAVID, US
[72] MCCARREN, MICHAEL JOHN, US
[72] KONITZER, DOUGLAS GERARD, US
[72] MARUSKO, MARK WILLARD, US
[72] YANG, XI, US
[71] GENERAL ELECTRIC COMPANY, US
[85] 2019-05-30
[86] 2017-10-26 (PCT/US2017/058549)
[87] (WO2018/111415)
[30] US (15/377,728) 2016-12-13

[21] **3,045,624**
[13] A1
[51] **Int.Cl. A61F 2/40 (2006.01) A61B 34/20 (2016.01) A61F 2/46 (2006.01)**
[25] EN
[54] **SHOULDER ARTHROPLASTY TRIAL ASSEMBLY COMPRISING SENSORS**
[54] **ENSEMBLE D'ESSAI D'ARTHROPLASTIE DE L'EPAULE COMPRENANT DES CAPTEURS**
[72] JOHANNABER, KENNETH D., US
[72] MINCK, JOHN, JR., US
[72] HARIRI, RIDA, US
[72] DALBEY, DEREK, US
[71] ZIMMER, INC., US
[85] 2019-05-30
[86] 2017-11-01 (PCT/US2017/059565)
[87] (WO2018/111429)
[30] US (62/434,210) 2016-12-14

[21] **3,045,626**
[13] A1
[51] **Int.Cl. C12N 15/869 (2006.01) A61K 39/12 (2006.01) A61K 39/39 (2006.01) C07K 14/005 (2006.01) C07K 14/535 (2006.01)**
[25] EN
[54] **BOVINE HERPESVIRUS TYPE 1 (BOHV-1) VECTOR AGAINST BOVINE RESPIRATORY DISEASE COMPLEX**
[54] **VECTEUR DE L'HERPESVIRUS BOVIN DE TYPE 1 (BOHV-1) CONTRE LE COMPLEXE RESPIRATOIRE BOVIN**
[72] CHOWDHURY, SHAFIQUL I., US
[71] CHOWDHURY, SHAFIQUL I., US
[85] 2019-05-30
[86] 2016-12-02 (PCT/US2016/064775)
[87] (WO2017/096267)
[30] US (62/262,450) 2015-12-03

[21] **3,045,627**
[13] A1
[51] **Int.Cl. C12N 5/02 (2006.01) C12N 5/071 (2010.01) C12N 5/074 (2010.01) C12N 5/0789 (2010.01)**
[25] EN
[54] **IN VITRO GASTROINTESTINAL MODEL COMPRISING LAMINA PROPRIA-DERIVED CELLS**
[54] **MODELE GASTRO-INTESTINAL IN VITRO COMPRENANT DES CELLULES DERIVEES DE LAMINA PROPRIA**
[72] KERNS, S. JORDAN, US
[72] OBRIGEWITCH, JENIFER, US
[72] SALMON, MICHAEL, US
[72] KASENDRA, MAGDALENA, US
[71] EMULATE, INC., US
[85] 2019-05-30
[86] 2017-11-21 (PCT/US2017/062840)
[87] (WO2018/102202)
[30] US (62/429,436) 2016-12-02

[21] **3,045,628**
[13] A1
[51] **Int.Cl. G10L 15/22 (2006.01) G10L 25/21 (2013.01) G10L 25/84 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISTINGUISHING VALID VOICE COMMANDS FROM FALSE VOICE COMMANDS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE DISTINGUER DES INSTRUCTIONS VOCALES VALIDES D'INSTRUCTIONS VOCALES FAUSSES DANS UNE APPLICATION DE GUIDAGE MULTIMEDIA INTERACTIVE**
[72] LIN, EDISON, US
[72] YOUNG, ROWENA, US
[72] PALMATEER, LAUREN, US
[71] ROVI GUIDES, INC., US
[85] 2019-05-30
[86] 2016-12-19 (PCT/US2016/067499)
[87] (WO2018/118002)

[21] **3,045,630**
[13] A1
[51] **Int.Cl. B32B 27/32 (2006.01) B32B 5/02 (2006.01) B32B 5/24 (2006.01) B32B 9/04 (2006.01) B32B 37/04 (2006.01) B32B 37/12 (2006.01)**
[25] EN
[54] **INTERNAL LINING FOR PIPE SURFACES AND METHOD OF LINING PIPES**
[54] **REVETEMENT INTERNE DESTINE A DES SURFACES DE TUYAU ET PROCEDE DE REVETEMENT DE TUYAUX**
[72] WEISENBERG, KENT, US
[71] SIPP TECHNOLOGIES, LLC, US
[85] 2019-05-30
[86] 2017-11-28 (PCT/US2017/063353)
[87] (WO2018/102269)
[30] US (62/427,880) 2016-11-30
[30] US (15/589,002) 2017-05-08

[21] **3,045,631**
[13] A1
[51] **Int.Cl. C10G 50/00 (2006.01) C07C 2/76 (2006.01) C07C 407/00 (2006.01) C10L 1/06 (2006.01)**
[25] EN
[54] **A PROCESS FOR MAKING HIGH OCTANE GASOLINE**
[54] **PROCEDE PERMETTANT DE FABRIQUER DE L'ESSENCE A INDICE D'OCTANE ELEVE**
[72] WANG, KUN, US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-30
[86] 2017-11-28 (PCT/US2017/063381)
[87] (WO2018/118346)
[30] US (15/388,030) 2016-12-22

[21] **3,045,633**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/06 (2006.01) E21B 33/127 (2006.01)**
[25] EN
[54] **PACKER/PLUG SLIP AND CAGE WITH TRAVEL STOP**
[54] **DISPOSITIF DE RETENUE DE GARNITURE D'ETANCHEITE/OBTURATEUR ET CAGE DOTEE D'UNE BUTEE DE DEPLACEMENT**
[72] MURPHY, THOMAS, GB
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-05-30
[86] 2017-02-10 (PCT/US2017/017305)
[87] (WO2018/147859)

[21] **3,045,636**
[13] A1
[51] **Int.Cl. C10G 65/00 (2006.01) C10G 67/00 (2006.01) C10G 67/04 (2006.01)**
[25] EN
[54] **BLOCK PROCESSING WITH BULK CATALYSTS FOR BASE STOCK PRODUCTION FROM DEASPHALTED OIL**
[54] **TRAITEMENT DE BLOC AVEC DES CATALYSEURS EN MASSE POUR LA PRODUCTION D'HUILE DE BASE A PARTIR D'HUILE DESASPHALTEE**
[72] FRUCHEY, KENDALL S., US
[72] CARROLL, MICHAEL B., US
[72] HILBERT, TIMOTHY L., US
[72] GREEN, SARA K., US
[72] LEVIN, DORON, US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-30
[86] 2017-06-23 (PCT/US2017/039012)
[87] (WO2018/125282)
[30] US (62/439,943) 2016-12-29

[21] **3,045,638**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01) A61F 2/00 (2006.01) A61F 2/02 (2006.01) A61F 2/04 (2013.01) A61F 2/06 (2013.01) A61F 2/24 (2006.01) A61F 2/82 (2013.01)**
[25] EN
[54] **STENT WITH ONE-WAY SOCK VALVE**
[54] **STENT MUNI D'UNE VALVE ANTI-REFLUX EN FORME DE MANCHE**
[72] NATH, IYUNNI VENKATA SESHA SAYI, US
[71] SAINATH INTELLECTUAL PROPERTIES, LLC, US
[85] 2019-05-30
[86] 2017-07-27 (PCT/US2017/044139)
[87] (WO2018/022862)
[30] US (62/367,496) 2016-07-27

[21] **3,045,640**
[13] A1
[51] **Int.Cl. B01J 35/00 (2006.01) B82Y 25/00 (2011.01) B82Y 30/00 (2011.01) B01J 37/025 (2006.01) C12N 9/02 (2006.01) C12N 11/14 (2006.01)**
[25] EN
[54] **MAGNETICALLY IMMOBILIZED METABOLIC ENZYMES AND COFACTOR SYSTEMS**
[54] **ENZYMES METABOLIQUES IMMOBILISEES MAGNETIQUEMENT ET SYSTEMES DE COFACTEUR**
[72] CORGIE, STEPHANE, US
[72] CHUN, MATTHEW, US
[72] BROOKS, RANI TALAL, US
[71] ZYMTRONIX CATALYTIC SYSTEMS, INC., US
[85] 2019-05-30
[86] 2017-11-28 (PCT/US2017/063542)
[87] (WO2018/102319)
[30] US (62/429,765) 2016-12-03

[21] **3,045,641**
[13] A1
[51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **IDENTIFYING AND MANAGING EQUIPMENT WITHIN AN OPERATIONAL ENVIRONMENT**
[54] **IDENTIFICATION ET GESTION D'UN EQUIPEMENT DANS UN ENVIRONNEMENT FONCTIONNEL**
[72] HARNESK, ANDREAS, SE
[71] PACKSIZE LLC, US
[85] 2019-05-30
[86] 2017-11-30 (PCT/US2017/063988)
[87] (WO2018/102569)
[30] US (62/428,853) 2016-12-01
[30] US (15/825,461) 2017-11-29

[21] **3,045,642**
[13] A1
[51] **Int.Cl. B62D 7/20 (2006.01) B62D 7/00 (2006.01)**
[25] EN
[54] **CENTER LINKAGE APPARATUS**
[54] **APPAREIL DE LIAISON CENTRALE**
[72] CHIRREY, WILLIAM (DECEASED), ZZ
[72] DOLAN, PAUL, US
[72] UGURKAN, ALTAN, TR
[72] BAKER, JAMES ALLEN, US
[71] STEMCO PRODUCTS, INC., US
[85] 2019-05-30
[86] 2017-11-30 (PCT/US2017/063877)
[87] (WO2018/102511)
[30] US (62/429,530) 2016-12-02
[30] US (62/577,320) 2017-10-26

[21] **3,045,643**
[13] A1
[51] **Int.Cl. B65G 43/00 (2006.01) G06K 7/10 (2006.01)**
[25] EN
[54] **BALANCING LOAD AMONG OPERATIONAL SYSTEM ZONES**
[54] **EQUILIBRAGE DE CHARGE ENTRE ZONES OPERATIONNELLES DE SYSTEME**
[72] HARNESK, ANDREAS, SE
[71] PACKSIZE LLC, US
[85] 2019-05-30
[86] 2017-11-30 (PCT/US2017/064006)
[87] (WO2018/102581)
[30] US (62/428,872) 2016-12-01
[30] US (15/825,463) 2017-11-29

[21] **3,045,645**
[13] A1
[51] **Int.Cl. F03D 3/00 (2006.01) F03D 9/32 (2016.01) F03D 13/20 (2016.01) B63H 13/00 (2006.01) F03D 9/00 (2016.01)**
[25] EN
[54] **MASTLESS WIND TURBINE FOR POWER GENERATION**
[54] **EOLIENNE SANS MAT POUR LA PRODUCTION D'ENERGIE**
[72] HENCH, STEVEN C., US
[71] HENCH, STEVEN C., US
[85] 2019-05-30
[86] 2017-11-30 (PCT/US2017/063987)
[87] (WO2018/102568)
[30] US (15/368,303) 2016-12-02

[21] **3,045,648**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **CONTAINER AND OPENING ARRANGEMENT FOR BEVERAGE PRODUCTION**
[54] **RECIPIENT ET DISPOSITIF D'OUVERTURE POUR LA PRODUCTION DE BOISSON**
[72] CAFARO, ENRICO RAFFAELE, US
[72] SACK, MICHAEL, US
[72] RICE, IAN SCOTT, US
[71] BEDFORD SYSTEMS LLC, US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064343)
[87] (WO2018/102771)
[30] US (62/428,900) 2016-12-01

[21] **3,045,649**
[13] A1
[51] **Int.Cl. F42B 12/38 (2006.01)**
[25] EN
[54] **SELF-GLOWING MATERIALS, TRACER AMMUNITION, AND ILLUMINATION DEVICES**
[54] **MATERIAUX AUTO-INCANDESCENTS, MUNITION TRACEUSE ET DISPOSITIFS D'ECLAIRAGE**
[72] REUTHER, JAMES J., US
[72] SHAWCROSS, PAUL E., US
[72] CUCKSEY, CHAD M., US
[72] LOESER, RONALD L., US
[72] LEACH, JOHN R., US
[72] PAUGH, JASON E., US
[72] TACKETT, EMMET MARK, US
[72] GOMBARCIK, JAMES D., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064360)
[87] (WO2018/102784)
[30] US (62/428,654) 2016-12-01
[30] US (15/366,269) 2016-12-01
[30] US (15/366,323) 2016-12-01

[21] **3,045,650**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ENHANCING GENE EXPRESSION**
[54] **COMPOSITIONS ET METHODES D'ACTIVATION D'EXPRESSION GENIQUE**
[72] KAMRUD, KURT IVER, US
[72] WIN, MAUNG NYAN, US
[72] WANG, NATHANIEL STEPHEN, US
[72] DEHART, JASON, US
[71] SYNTHETIC GENOMICS, INC., US
[85] 2019-05-30
[86] 2017-12-04 (PCT/US2017/064561)
[87] (WO2018/106615)
[30] US (62/430,250) 2016-12-05
[30] US (62/486,361) 2017-04-17
[30] US (62/587,954) 2017-11-17

[21] **3,045,651**
[13] A1
[51] **Int.Cl. A61M 25/01 (2006.01) A61M 5/14 (2006.01) A61M 5/42 (2006.01) A61M 25/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **ARCHFLO MIDLINE CATHETER**
[54] **CATHETER MI-LONG ARCHFLO**
[72] PALKO, MICHAEL, US
[72] ANSTETT, MICHAEL, US
[72] ROWAN, ROSE, US
[72] TIMKO, JOHN, US
[71] MEDICAL COMPONENTS, INC., US
[85] 2019-05-30
[86] 2017-12-08 (PCT/US2017/065259)
[87] (WO2018/118459)
[30] US (62/435,887) 2016-12-19

[21] **3,045,653**
[13] A1
[51] **Int.Cl. B03B 5/38 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SEPARATING MATERIALS USING STRATIFICATION**
[54] **APPAREIL ET PROCEDE POUR SEPARER DES MATERIAUX PAR STRATIFICATION**
[72] VALERIO, THOMAS A., US
[71] VALERIO, THOMAS A., US
[85] 2019-05-30
[86] 2017-11-30 (PCT/US2017/064082)
[87] (WO2018/102617)
[30] US (62/428,520) 2016-11-30

[21] **3,045,655**
[13] A1
[51] **Int.Cl. B64C 39/02 (2006.01) A01D 34/835 (2006.01) A47L 1/02 (2006.01) A47L 11/00 (2006.01) B44D 3/00 (2006.01) B60P 3/11 (2006.01) B64F 1/00 (2006.01)**
[25] EN
[54] **AUTONOMOUS DRONE AND TOOL SELECTION AND DELIVERY**
[54] **SELECTION ET LIVRAISON AUTONOMES DE DRONES ET D'OUTILS**
[72] O'BRIEN, JOHN J., US
[72] WINKLE, DAVID C., US
[72] ATCHLEY, MICHAEL D., US
[72] ANTEL, NICHOLAS RAY, US
[72] HIGH, DONALD R., US
[72] MCHALE, BRIAN G., GB
[72] MATTINGLY, TODD D., US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064131)
[87] (WO2018/102641)
[30] US (62/428,619) 2016-12-01

[21] **3,045,657**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **PRODUCT IDENTIFICATION AND TRACKING**
[54] **IDENTIFICATION ET SUIVI DE PRODUIT**
[72] JONES, NICHOLAUS A., US
[72] JONES, MATTHEW A., US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064136)
[87] (WO2018/102643)
[30] US (62/429,319) 2016-12-02

[21] **3,045,658**
[13] A1
[51] **Int.Cl. C09K 8/54 (2006.01)**
[25] EN
[54] **THIOL-FORMYL HEMIACETAL CORROSION INHIBITORS**
[54] **INHIBITEURS DE CORROSION A BASE D'HEMIACETAL THIOL-FORMYLE**
[72] LAURENT, BOYD ANTHONY, US
[72] ANANTANENI, PRAKASA RAO, US
[72] HARRINGTON, RYAN MATTHEW, US
[72] DE, SUBHASIS, US
[71] ECOLAB USA INC., US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064282)
[87] (WO2018/102724)
[30] US (62/429,507) 2016-12-02

[21] **3,045,659**
[13] A1
[51] **Int.Cl. A61G 7/075 (2006.01) A61G 7/057 (2006.01) A61G 13/12 (2006.01)**
[25] EN
[54] **CUSHIONED SUPPORT SYSTEM FOR HEEL ULCER PREVENTION**
[54] **SYSTEME DE SUPPORT AMORTI POUR LA PREVENTION DE L'ULCERE DU TALON**
[72] PONSI, LARRY, US
[72] HOLLABAUGH, CURTIS L., US
[72] FLETCHER, HESTER C., US
[72] GOLDEN, CRAIG S., US
[71] SAGE PRODUCTS, LLC, US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064300)
[87] (WO2018/102741)
[30] US (62/429,429) 2016-12-02
[30] US (62/525,516) 2017-06-27

[21] **3,045,660**
[13] A1
[51] **Int.Cl. A61K 38/48 (2006.01) A61K 38/37 (2006.01) A61P 7/04 (2006.01)**
[25] EN
[54] **METHODS OF TREATING HEMOPHILIC ARTHROPATHY USING CHIMERIC CLOTTING FACTORS**
[54] **METHODES DE TRAITEMENT DE L'ARTHROPATHIE HEMOPHILIQUE A L'AIDE DE FACTEURS DE COAGULATION CHIMERIQUES**
[72] DUMONT, JENNIFER, US
[72] JAIN, NISHA, US
[72] GLAZEBROOK, DESILU, US
[71] BIOVERATIV THERAPEUTICS INC., US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064302)
[87] (WO2018/102743)
[30] US (62/429,509) 2016-12-02
[30] US (62/529,896) 2017-07-07
[30] US (62/550,488) 2017-08-25
[30] US (62/558,793) 2017-09-14

[21] **3,045,661**
[13] A1
[51] **Int.Cl. B65F 1/06 (2006.01)**
[25] EN
[54] **SYSTEM AND APPARATUS FOR WASTE DISPOSAL AND CHANGING INFANT-TODDLER BEHAVIOR**
[54] **SYSTEME ET APPAREIL DESTINE A JETER DES ORDURES, ET CHANGEMENT DU COMPORTEMENT D'UN NOURRISSON/TOUT-PETIT**
[72] MCCONNELL, THOMAS E., US
[71] MCCONNELL, THOMAS E., US
[85] 2019-05-30
[86] 2017-12-11 (PCT/US2017/065650)
[87] (WO2018/107179)
[30] US (15/374,996) 2016-12-09

[21] **3,045,662**
[13] A1
[51] **Int.Cl. G01R 31/02 (2006.01) G01R 19/00 (2006.01) G01R 31/00 (2006.01) G01R 31/28 (2006.01)**
[25] EN
[54] **WAVEFORM SEPARATOR APPARATUS AND METHOD FOR DETECTING LEAKAGE CURRENT IN HIGH VOLTAGE DIRECT CURRENT POWER SYSTEMS**
[54] **APPAREIL DE SEPARATEUR DE FORME D'ONDE ET PROCEDE DE DETECTION DE COURANT DE FUITE DANS DES SYSTEMES D'ALIMENTATION EN COURANT CONTINU A HAUTE TENSION**
[72] BILIC, ZORAN, CM
[72] BALL, DAVID JAMES, US
[71] QUANTA ASSOCIATES, L.P., US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064304)
[87] (WO2018/102744)
[30] US (62/429,459) 2016-12-02
[30] CA (2950506) 2016-12-02

[21] **3,045,663**
[13] A1
[51] **Int.Cl. G02F 1/1333 (2006.01) G02F 1/1334 (2006.01) G02F 1/1343 (2006.01) G02F 1/1347 (2006.01) G06F 3/038 (2013.01)**
[25] EN
[54] **DIFFRACTIVE DEVICES BASED ON CHOLESTERIC LIQUID CRYSTAL**
[54] **DISPOSITIFS DE DIFFRACTION BASES SUR DU CRISTAL LIQUIDE CHOLESTERIQUE**
[72] OH, CHULWOO, US
[71] MAGIC LEAP, INC., US
[85] 2019-05-30
[86] 2017-12-07 (PCT/US2017/065182)
[87] (WO2018/106963)
[30] US (62/431,745) 2016-12-08
[30] US (62/431,752) 2016-12-08

[21] **3,045,664**
[13] A1
[51] **Int.Cl. G06T 19/00 (2011.01)**
[25] EN
[54] **VIRTUAL USER INPUT CONTROLS IN A MIXED REALITY ENVIRONMENT**
[54] **COMMANDES D'ENTREE D'UTILISATEUR VIRTUEL DANS UN ENVIRONNEMENT DE REALITE MIXTE**
[72] KAEHLER, ADRIAN, US
[72] CROSTON, JOHN ADAM, US
[71] MAGIC LEAP, INC., US
[85] 2019-05-30
[86] 2017-12-01 (PCT/US2017/064311)
[87] (WO2018/106542)
[30] US (62/430,279) 2016-12-05
[30] US (62/430,308) 2016-12-05

[21] **3,045,665**
[13] A1
[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/28 (2015.01) A61K 38/17 (2006.01)**
[25] EN
[54] **CHIMERIC TRANSCRIPTION FACTOR VARIANTS WITH AUGMENTED SENSITIVITY TO DRUG LIGAND INDUCTION OF TRANSGENE EXPRESSION IN MAMMALIAN CELLS**
[54] **VARIANTS DU FACTEUR DE TRANSCRIPTION CHIMERIQUE AYANT UNE SENSIBILITE ACCRUE A L'INDUCTION DE LIGAND DE MEDICAMENT D'EXPRESSION TRANSGENIQUE DANS DES CELLULES DE MAMMIFERE**
[72] JENSEN, MICHAEL C., US
[72] OOI, TRACY, US
[72] WEI, JIA, US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2019-05-30
[86] 2017-12-11 (PCT/US2017/065597)
[87] (WO2018/111763)
[30] US (62/433,183) 2016-12-12

[21] **3,045,666**
[13] A1
[51] **Int.Cl. A61K 31/00 (2006.01) A61K 9/00 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **TREATMENT OF A DISEASE OF THE GASTROINTESTINAL TRACT WITH A JAK INHIBITOR AND DEVICES**
[54] **TRAITEMENT D'UNE MALADIE DU TRACTUS GASTRO-INTESTINAL AVEC UN INHIBITEUR DE JAK ET DISPOSITIFS ASSOCIES**
[72] JONES, MITCHELL LAWRENCE, US
[72] SINGH, SHARAT, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] STYLLI, HARRY, US
[71] PROGENITY INC., US
[85] 2019-05-30
[86] 2017-12-14 (PCT/US2017/066492)
[87] (WO2018/112245)
[30] US (62/434,374) 2016-12-14
[30] US (62/478,919) 2017-03-30
[30] US (62/545,380) 2017-08-14
[30] US (62/583,832) 2017-11-09

[21] **3,045,667**
[13] A1
[51] **Int.Cl. C12N 15/62 (2006.01) C12N 9/12 (2006.01)**
[25] EN
[54] **METHODS OF EXOGENOUS DRUG ACTIVATION OF CHEMICAL-INDUCED SIGNALING COMPLEXES EXPRESSED IN ENGINEERED CELLS IN VITRO AND IN VIVO**
[54] **METHODES D'ACTIVATION DE MEDICAMENT EXOGENE DE COMPLEXES DE SIGNALISATION INDUITS PAR AGENTS CHIMIQUES EXPRIMES DANS DES CELLULES MODIFIEES IN VITRO ET IN VIVO**
[72] SCHARENBERG, ANDREW M., US
[71] SEATTLE CHILDREN'S HOSPITAL (DBA SEATTLE CHILDREN'S RESEARCH INSTITUTE), US
[85] 2019-05-30
[86] 2017-12-12 (PCT/US2017/065746)
[87] (WO2018/111834)
[30] US (62/433,540) 2016-12-13

[21] **3,045,670**
[13] A1
[51] **Int.Cl. G05B 19/00 (2006.01)**
[25] EN
[54] **CONTROLLING ACCESS TO A LOCKED SPACE USING CRYPTOGRAPHIC KEYS STORED ON A BLOCKCHAIN**
[54] **CONTROLE D'ACCES A UN ESPACE VERROUILLE AU MOYEN DE CLES CRYPTOGRAPHIQUES STOCKEES SUR UNE CHAINE DE BLOCS**
[72] HIGH, DONALD R., US
[72] WILKINSON, BRUCE WALTER, US
[72] MATTINGLY, TODD, US
[72] O'BRIEN, V JOHN J., US
[72] CANTRELL, ROBERT, US
[72] MCHALE, BRIAN GERARD, GB
[72] JURICH, JOSEPH, JR., US
[71] WALMART APOLLO, LLC, US
[85] 2019-05-30
[86] 2017-12-13 (PCT/US2017/066110)
[87] (WO2018/112038)
[30] US (62/433,962) 2016-12-14

[21] **3,045,671**
[13] A1
[51] **Int.Cl. F01N 3/20 (2006.01) F16L 53/00 (2018.01) H05B 3/00 (2006.01)**
[25] EN
[54] **ELECTRIC IMMERSION HEATER FOR DIESEL EXHAUST FLUID RESERVOIR**
[54] **DISPOSITIF DE CHAUFFAGE PAR IMMERSION ELECTRIQUE POUR RESERVOIR DE FLUIDE D'ECHAPPEMENT DE MOTEUR DIESEL**
[72] SAUPE, TIM, US
[72] HOLT, BRIAN, US
[71] GATES CORPORATION, US
[85] 2019-05-30
[86] 2017-12-14 (PCT/US2017/066318)
[87] (WO2018/112150)
[30] US (15/381,711) 2016-12-16

[21] **3,045,673**
[13] A1
[51] **Int.Cl. C10G 21/27 (2006.01) C10G 21/00 (2006.01) C10G 67/04 (2006.01)**
[25] EN
[54] **SOLVENT EXTRACTION FOR CORRECTION OF COLOR AND AROMATICS DISTRIBUTION OF HEAVY NEUTRAL BASE STOCKS**
[54] **EXTRACTION AU SOLVANT DESTINEE A LA CORRECTION DE COULEUR ET DISTRIBUTION DE COMPOSES AROMATIQUES D'HUILES DE BASE NEUTRES LOURDES**
[72] OWENS, TRACIE L., US
[72] FRUCHEY, KENDALL S., US
[72] CARROLL, MICHAEL B., US
[72] HENDERSON, CAMDEN N., US
[72] YEH, LISA I-CHING, US
[72] HILBERT, TIMOTHY L., US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-30
[86] 2017-12-15 (PCT/US2017/066638)
[87] (WO2018/125610)
[30] US (62/439,937) 2016-12-29

[21] **3,045,676**
[13] A1
[51] **Int.Cl. G05D 1/02 (2006.01) G05D 1/00 (2006.01)**
[25] EN
[54] **ROBOTIC CLEANING DEVICE WITH OPERATING SPEED VARIATION BASED ON ENVIRONMENT**
[54] **DISPOSITIF DE NETTOYAGE ROBOTIQUE A VARIATION DE VITESSE DE FONCTIONNEMENT EN FONCTION D'UN ENVIRONNEMENT**
[72] GAGNE, AURLE, US
[72] SCARIM, PHILIP, US
[72] KNUTH, DAVID M., JR., US
[72] HENNESSY, PHILIP J., US
[72] BAVUSO, ANTHONY T., US
[72] BALAS, STEPHEN J., US
[71] DIVERSEY, INC., US
[85] 2019-05-30
[86] 2017-12-08 (PCT/US2017/065296)
[87] (WO2018/107024)
[30] US (62/432,116) 2016-12-09
[30] US (62/595,317) 2017-12-06

[21] **3,045,679**
[13] A1
[51] **Int.Cl. H01L 41/083 (2006.01) B06B 1/06 (2006.01) G01F 1/66 (2006.01) H01L 41/18 (2006.01)**
[25] EN
[54] **THICKNESS-PLANAR MODE TRANSDUCERS AND RELATED DEVICES**
[54] **TRANSDUCTEURS DE MODE PLANS DANS LE SENS DE L'EPAISSEUR ET DISPOSITIFS ASSOCIES**
[72] BUCKLAND, JUSTIN RORKE, GB
[71] SENSUS USA, INC., US
[85] 2019-05-30
[86] 2017-12-07 (PCT/US2017/065026)
[87] (WO2018/106869)
[30] US (15/374,129) 2016-12-09

[21] **3,045,685**
[13] A1
[51] **Int.Cl. E01C 7/18 (2006.01) E01C 7/35 (2006.01) E01C 19/23 (2006.01)**
[25] EN
[54] **AGE RESISTANT COATINGS AND METHODS FOR TREATING ROADWAY SUBSTRATES**
[54] **REVETEMENTS RESISTANT AU VIEILLISSEMENT ET PROCEDES DE TRAITEMENT DE SUBSTRATS DE CHAUSSEE**
[72] BLACKLIDGE, ROY BRITTANY, US
[72] ALLEN, ROBERT GROVER, US
[72] CUEVAS, HENRY, US
[72] THEEDA, SWATHI, US
[71] BLACKLIDGE EMULSIONS INC., US
[85] 2019-05-30
[86] 2017-12-18 (PCT/US2017/067142)
[87] (WO2018/118821)
[30] US (62/436,306) 2016-12-19

[21] **3,045,688**
[13] A1
[51] **Int.Cl. C08F 110/02 (2006.01) C08F 4/18 (2006.01) C08F 4/24 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING A CATALYST**
[54] **PROCEDES DE PREPARATION D'UN CATALYSEUR**
[72] MCDANIEL, MAX, US
[72] SCHWERDTFEGER, ERIC, US
[72] PRAETORIUS, JEREMY, US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2019-05-30
[86] 2017-12-20 (PCT/US2017/067485)
[87] (WO2018/125690)
[30] US (62/440,188) 2016-12-29

[21] **3,045,690**
[13] A1
[51] **Int.Cl. E21B 47/01 (2012.01) E21B 49/00 (2006.01) G01V 5/00 (2006.01) G01V 5/06 (2006.01) G01V 5/12 (2006.01)**
[25] EN
[54] **LOGGING-WHILE-DRILLING SPECTRAL AND AZIMUTHAL GAMMA RAY APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES A RAYONS GAMMA SPECTRAL ET AZIMUTAL DE DIAGRAPHIE EN COURS DE FORAGE**
[72] MICKAEL, MEDHAT, US
[71] SCIENTIFIC DRILLING INTERNATIONAL, INC., US
[85] 2019-05-30
[86] 2017-12-27 (PCT/US2017/068536)
[87] (WO2018/125918)
[30] US (62/439,919) 2016-12-29

[21] **3,045,695**
[13] A1
[51] **Int.Cl. C08G 18/48 (2006.01) C08G 18/10 (2006.01) C08G 18/32 (2006.01) C08G 18/42 (2006.01) C08G 18/66 (2006.01) C08G 18/75 (2006.01)**
[25] EN
[54] **POLYURETHANE PREPOLYMERS INCORPORATING NONLINEAR SHORT CHAIN DIOLS AND/OR SOFT DIISOCYANATES COMPOSITIONS, AND USES THEREOF**
[54] **PREPOLYMERES DE POLYURETHANE INCORPORANT DES DIOLS A CHAINE COURTE NON LINEAIRES ET/OU DES COMPOSITIONS DE DIISOCYANATES SOUPLES, ET LEURS UTILISATIONS**
[72] BOGHOSSIAN, RAZMIK, US
[72] SMITH, JAMES, US
[71] PRC-DESOTO INTERNATIONAL, INC., US
[85] 2019-05-30
[86] 2017-12-20 (PCT/US2017/067562)
[87] (WO2018/119056)
[30] US (15/384,346) 2016-12-20

[21] **3,045,696**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **BINDING POLYPEPTIDES AND METHODS OF MAKING THE SAME**
[54] **POLYPEPTIDES DE LIAISON ET LEURS PROCEDES DE PRODUCTION**
[72] SHRIVER, ZACHARY, US
[72] BABCOCK, GREGORY, US
[72] ROBINSON, LUKE, US
[71] VISTERRA, INC., US
[85] 2019-05-30
[86] 2017-12-22 (PCT/US2017/068204)
[87] (WO2018/119402)
[30] US (62/438,712) 2016-12-23

[21] **3,045,697**
[13] A1
[51] **Int.Cl. A61N 1/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SELECTING MRI-COMPATIBLE STIMULATION PARAMETERS**
[54] **SYSTEMES ET PROCEDES DE SELECTION DE PARAMETRES DE STIMULATION COMPATIBLES IRM**
[72] SHAH, CHIRAG, US
[71] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[85] 2019-05-30
[86] 2017-12-29 (PCT/US2017/069118)
[87] (WO2018/128949)
[30] US (62/441,944) 2017-01-03

[21] **3,045,698**
[13] A1
[51] **Int.Cl. C11D 1/14 (2006.01) C11D 11/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING BRANCHED SULFONATED SURFACTANTS**
[54] **COMPOSITIONS COMPRENANT DES TENSIOACTIFS SULFONES RAMIFIES**
[72] STENGER, PATRICK CHRISTOPHER, US
[72] VINSON, PHILLIP KYLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-05-30
[86] 2018-01-12 (PCT/US2018/013432)
[87] (WO2018/132626)
[30] US (62/445,846) 2017-01-13

[21] **3,045,699**
[13] A1
[51] **Int.Cl. G05D 1/02 (2006.01)**
[25] EN
[54] **INDUSTRIAL CART AND SYSTEM WITH MEANS FOR COMMUNICATING WITH AN INDUSTRIAL CART**
[54] **CHARIOT DE MANUTENTION ET SYSTEME POURVUS DE MOYENS DE COMMUNICATION AVEC UN CHARIOT DE MANUTENTION**
[72] MILLAR, GARY BRET, US
[71] GROW SOLUTIONS TECH LLC, US
[85] 2019-05-30
[86] 2018-04-02 (PCT/US2018/025684)
[87] (WO2018/231324)
[30] US (62/519,304) 2017-06-14
[30] US (62/519,326) 2017-06-14
[30] US (62/519,316) 2017-06-14
[30] US (15/937,108) 2018-03-27

[21] **3,045,700**
[13] A1
[51] **Int.Cl. A61K 38/19 (2006.01) A61K 38/22 (2006.01) A61K 39/395 (2006.01) A61P 1/14 (2006.01) A61P 3/04 (2006.01)**
[25] EN
[54] **TREATMENT OF OBESITY AND EATING DISORDERS**
[54] **TRAITEMENT DE L'OBESITE ET DES TROUBLES ALIMENTAIRES**
[72] BREIT, SAMUEL NORBERT, AU
[71] ST VINCENT'S HOSPITAL SYDNEY LIMITED, AU
[85] 2019-05-31
[86] 2017-12-06 (PCT/AU2017/000262)
[87] (WO2018/102854)
[30] AU (2016905018) 2016-12-06

[21] **3,045,701**
[13] A1
[51] **Int.Cl. B26B 21/00 (2006.01) A61H 99/00 (2006.01) B26B 19/00 (2006.01)**
[25] EN
[54] **METHOD OF STIMULATING HAIR GROWTH**
[54] **PROCEDE DE STIMULATION DE LA CROISSANCE CAPILLAIRE**
[72] NICHOLLS, DEBORAH, AU
[71] BOUNTIFULAIR PTY LTD., AU
[85] 2019-05-31
[86] 2017-12-04 (PCT/AU2017/051330)
[87] (WO2018/098535)
[30] AU (2016266077) 2016-12-02

[21] **3,045,702**
[13] A1
[51] **Int.Cl. C07B 47/00 (2006.01) C07F 9/113 (2006.01) C07F 9/12 (2006.01) C07J 1/00 (2006.01)**
[25] EN
[54] **PROCESS**
[54] **PROCEDE**
[72] GEYTENBEEK, STEPHEN, AU
[72] STIRLING, ANDREW, AU
[72] GAVIN, PAUL DAVID, AU
[71] PHOSPHAGENICS LIMITED, AU
[85] 2019-05-31
[86] 2017-12-13 (PCT/AU2017/051381)
[87] (WO2018/112512)
[30] AU (2016905298) 2016-12-21

[21] **3,045,703**
[13] A1
[51] **Int.Cl. C07D 209/48 (2006.01) A61K 31/454 (2006.01) A61P 1/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **PIPERIDINE-2,6-DIONE DERIVATIVES AND ULCERATIVE COLITIS TREATING**
[54] **DERIVE DE PIPERIDINE-2,6-DIONE ET TRAITEMENT DE LA COLITE ULCEREUSE**
[72] ZHANG, HESHENG, CN
[72] ZENG, GUANGHUAI, CN
[71] TIANJIN HEMAY BIO-TECH CO., LTD, CN
[85] 2019-05-23
[86] 2017-11-23 (PCT/CN2017/112668)
[87] (WO2018/095377)
[30] CN (201611041317.5) 2016-11-24

[21] **3,045,704**
[13] A1
[51] **Int.Cl. B01D 63/06 (2006.01) B01D 71/02 (2006.01)**
[25] EN
[54] **MEMBRANE TUBE**
[54] **TUBE A MEMBRANE**
[72] HAYDN, MARKUS, AT
[72] RUTTINGER, MATTHIAS, AT
[72] KOGL, MARKUS, AT
[71] PLANSEE SE, AT
[85] 2019-05-31
[86] 2017-11-09 (PCT/AT2017/000075)
[87] (WO2018/102837)
[30] AT (GM 302/2016) 2016-12-09

[21] **3,045,705**
[13] A1
[51] **Int.Cl. A47J 27/08 (2006.01) A47J 27/09 (2006.01)**
[25] EN
[54] **A SPLIT-TYPE ELECTRIC PRESSURE COOKER**
[54] **AUTOCUISEUR ELECTRIQUE DE TYPE PARTAGE**
[72] PENG, FENG, CN
[72] YANG, XINGGUO, CN
[72] MO, RONGKANG, CN
[71] FOSHAN SHUNDE MIDEA ELECTRICAL HEATING APPLIANCES MANUFACTURING CO., LTD., CN
[85] 2019-05-31
[86] 2017-11-01 (PCT/CN2017/108939)
[87] (WO2018/099233)
[30] CN (201611110267.1) 2016-12-02
[30] CN (201621316295.4) 2016-12-02

[21] **3,045,706**
[13] A1
[51] **Int.Cl. E21B 47/06 (2012.01) E21B 47/12 (2012.01)**
[25] EN
[54] **SENSOR**
[54] **CAPTEUR**
[72] SINGH, RAJINDER, GB
[72] HOPKINS, MICHAEL WILLIAM, GB
[71] QINETIQ LIMITED, GB
[85] 2019-05-31
[86] 2016-12-01 (PCT/EP2016/079491)
[87] (WO2017/093430)
[30] GB (1521282.2) 2015-12-02

[21] **3,045,715**
[13] A1
[51] **Int.Cl. H02M 1/00 (2007.10) H02J 3/00 (2006.01) H02M 7/44 (2006.01) H05K 5/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **POWER CONVERSION SYSTEMS AND DEVICES, METHODS OF FORMING POWER CONVERSION SYSTEMS AND DEVICES, AND METHODS OF USING AND MONITORING POWER CONVERSION SYSTEMS AND DEVICES**
[54] **SYSTEMES ET DISPOSITIFS DE CONVERSION D'ENERGIE, PROCEDES DE FORMATION DE SYSTEMES ET DE DISPOSITIFS DE CONVERSION D'ENERGIE, ET PROCEDES D'UTILISATION ET DE SURVEILLANCE DE SYSTEMES ET DE DISPOSITIFS DE CONVERSION D'ENERGIE**
[72] SCHLOO, JONATHAN, CA
[71] SCHLOO, JONATHAN, CA
[85] 2019-05-31
[86] 2016-12-05 (PCT/CA2016/000301)
[87] (WO2017/091886)
[30] US (62/262,606) 2015-12-03
[30] US (62/429,598) 2016-12-02

[21] **3,045,716**
[13] A1
[51] **Int.Cl. C08F 212/12 (2006.01) C08F 220/06 (2006.01) D21C 9/08 (2006.01) D21H 21/02 (2006.01) C08F 212/08 (2006.01) D21H 17/43 (2006.01)**
[25] EN
[54] **COPOLYMER, AQUEOUS SOLUTION COMPRISING THE COPOLYMER AND METHOD FOR REDUCING NEGATIVE EFFECTS OF NATURAL PITCH AND ADHESIVE CONTAMINANTS IN BOTH PULPING AND PAPERMAKING OPERATIONS**
[54] **COPOLYMERE, SOLUTION AQUEUSE COMPRENANT LE COPOLYMERE ET PROCEDE PERMETTANT DE REDUIRE LES EFFETS NEGATIFS DU BRAI NATUREL ET DES CONTAMINANTS ADHESIFS DANS LES OPERATIONS DE REDUCTION EN PATE ET DE FABRICATION DE PAPIER**
[72] COWMAN, JOHN, GB
[72] DEKOCK, PAUL, GB
[72] CORPET, DAMIEN JULIEN, FR
[71] ARCHROMA IP GMBH, CH
[85] 2019-05-30
[86] 2018-01-30 (PCT/EP2018/052260)
[87] (WO2018/141740)
[30] EP (17154043.8) 2017-01-31

[21] **3,045,717**
[13] A1
[51] **Int.Cl. A61B 17/34 (2006.01) A61B 17/32 (2006.01)**
[25] EN
[54] **AN IMPLANT NEEDLE**
[54] **AIGUILLE D'IMPLANT**
[72] FREY, STEPHAN-MICHAEL, DE
[72] KUBE, OLIVER, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2019-05-30
[86] 2018-03-12 (PCT/EP2018/056059)
[87] (WO2018/166963)
[30] EP (17160727.8) 2017-03-14

[21] **3,045,718**
[13] A1
[51] **Int.Cl. C25B 1/04 (2006.01) C25B 9/06 (2006.01) C25B 11/04 (2006.01) C25B 15/02 (2006.01) C01B 3/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PRODUCING HYDROGEN HAVING REVERSIBLE ELECTRODES**
[54] **PROCEDE ET APPAREIL DE PRODUCTION D'HYDROGENE AYANT DES ELECTRODES REVERSIBLES**
[72] BURTCH, CHRISTOPHER J., CA
[71] BURTCH, CHRISTOPHER J., CA
[85] 2019-05-31
[86] 2017-12-13 (PCT/CA2017/000267)
[87] (WO2018/107265)
[30] US (15/379,964) 2016-12-15

[21] **3,045,719**
[13] A1
[51] **Int.Cl. C01F 11/46 (2006.01) C01C 1/24 (2006.01) C01F 11/18 (2006.01)**
[25] EN
[54] **RELEASING IMPURITIES FROM A CALCIUM-BASED MINERAL**
[54] **LIBERATION D'IMPURETES A PARTIR D'UN MINERAL A BASE DE CALCIUM**
[72] MIRZA, WAQAS, GB
[72] FLORENCE, STEPHEN, GB
[72] THAXTER, IAN, GB
[72] SEVIER, DAVID, GB
[71] CARBON CYCLE LIMITED, GB
[85] 2019-05-30
[86] 2017-12-08 (PCT/GB2017/053697)
[87] (WO2018/104749)
[30] GB (1621017.1) 2016-12-09
[30] GB (1714927.9) 2017-09-15

[21] **3,045,720**
[13] A1
[51] **Int.Cl. G01N 21/65 (2006.01)**
[25] EN
[54] **OPTICAL IMAGING OF MINERAL SPECIES USING HYPERSPECTRAL MODULATION TRANSFER TECHNIQUES**
[54] **IMAGERIE OPTIQUE D'ESPECES MINERALES A L'AIDE DE TECHNIQUES DE TRANSFERT DE MODULATION HYPERSPECTRALE**
[72] STOLOW, ALBERT, CA
[72] MERCIER, PATRICK H. J., CA
[72] RIDSDALE, ANDREW, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2019-05-31
[86] 2017-11-23 (PCT/CA2017/051399)
[87] (WO2018/098565)
[30] US (62/429,388) 2016-12-02

[21] **3,045,721**
[13] A1
[51] **Int.Cl. A01K 47/06 (2006.01)**
[25] EN
[54] **INOCULATION SYSTEMS FOR BEE HIVES AND RELATED METHODS**
[54] **SYSTEMES D'INOCULATION POUR RUCHES D'ABEILLES ET PROCEDES ASSOCIES**
[72] MOELLER, ROBERT, CA
[72] DICKS, PETER, CA
[72] COLLINSON, MICHAEL, CA
[71] BEE VECTORING TECHNOLOGY INC., CA
[85] 2019-05-31
[86] 2017-12-01 (PCT/CA2017/051450)
[87] (WO2018/098589)
[30] US (62/429,357) 2016-12-02

[21] **3,045,722**
[13] A1
[51] **Int.Cl. C12N 9/02 (2006.01) A23L 27/30 (2016.01)**
[25] EN
[54] **KAURENOIC ACID HYDROXYLASES**
[54] **HYDROXYLASES D'ACIDE KAURENOIQUE**
[72] VAN LEEUWEN, JOHANNES GUSTAAF ERNST, NL
[72] ZWARTJENS, PRISCILLA, NL
[72] BOER, VIKTOR MARIUS, NL
[71] DSM IP ASSETS B.V., NL
[85] 2019-05-31
[86] 2017-12-04 (PCT/EP2017/081390)
[87] (WO2018/104238)
[30] EP (16202945.8) 2016-12-08

[21] **3,045,723**
[13] A1
[51] **Int.Cl. A63H 33/00 (2006.01)**
[25] EN
[54] **ARTICLE MOVEABLE BETWEEN TWO POSITIONS AND A METHOD OF COMBINING TWO OR MORE OF THE SAME**
[54] **ARTICLE MOBILE ENTRE DEUX POSITIONS ET PROCEDE DE COMBINAISON D'AU MOINS DEUX D'ENTRE EUX**
[72] MOORE, STEVEN, GB
[72] WHITEHEAD, BRIAN, GB
[72] ROWE, TIM, GB
[72] MORRIS, OLIVER, GB
[71] BOTI GLOBAL LIMITED, CN
[85] 2019-05-30
[86] 2016-12-22 (PCT/IB2016/001805)
[87] (WO2017/109565)
[30] GB (1522884.4) 2015-12-24

[21] **3,045,724**
[13] A1
[51] **Int.Cl. E21B 17/042 (2006.01) E21B 19/16 (2006.01) F16L 15/04 (2006.01) F16L 15/06 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONNECTING WELL EQUIPMENT**
[54] **PROCEDE ET APPAREIL POUR LE RACCORDEMENT D'EQUIPEMENT DE PUITS**
[72] BRUNSKILL, DOUG, CA
[72] WERRIES, MICHAEL JOHN, CA
[72] GETZLAF, NICK, CA
[71] NCS MULTISTAGE INC., CA
[85] 2019-05-31
[86] 2017-12-01 (PCT/CA2017/051454)
[87] (WO2018/098593)
[30] US (62/429,538) 2016-12-02

[21] **3,045,726**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **IMPROVED SERUM ALBUMIN BINDING IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS**
[54] **DOMAINES VARIABLES UNIQUES D'IMMUNOGLOBULINE SE LIANT A L'ALBUMINE SERIQUE AMELIOREE**
[72] STAELENS, STEPHANIE, BE
[72] STEFFENSEN, SOREN, BE
[72] MORIZZO, ERIKA, BE
[72] PONSAERT, RAF, BE
[72] OTTEVAERE, INGRID, BE
[72] CERDOBBEL, AN, BE
[71] ABLYNX NV, BE
[85] 2019-05-31
[86] 2017-12-07 (PCT/EP2017/081818)
[87] (WO2018/104444)
[30] US (62/430,972) 2016-12-07

[21] **3,045,727**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **IOL WITH REDUCED PUPILLARY REFLECTIONS**
[54] **LENTILLE INTRAOCULAIRE A REFLEXIONS PUPILLAIRES REDUITES**
[72] STATE, MIHAI, NL
[72] ROSEN, ROBERT, NL
[71] AMO GRONINGEN B.V., NL
[85] 2019-05-30
[86] 2017-11-30 (PCT/IB2017/001588)
[87] (WO2018/100429)
[30] US (62/428,438) 2016-11-30

[21] **3,045,728**
[13] A1
[51] **Int.Cl. E04B 9/32 (2006.01) E04B 9/04 (2006.01) E04B 9/28 (2006.01)**
[25] FR
[54] **LIGHT-EMITTING ACOUSTIC CEILING PANEL**
[54] **PANNEAU DE PLAFOND ACOUSTIQUE ET ECLAIRANT**
[72] LALUET, JEAN-YVES, FR
[72] CHIGOT, PIERRE, SE
[71] SAINT-GOBAIN ECOPHON AB, SE
[85] 2019-05-31
[86] 2017-12-08 (PCT/EP2017/082051)
[87] (WO2018/104525)
[30] FR (16/01748) 2016-12-08

[21] **3,045,734**
[13] A1
[51] **Int.Cl. B01J 29/70 (2006.01) C07C 5/13 (2006.01) C10G 45/58 (2006.01) C10G 45/60 (2006.01) C10G 45/64 (2006.01) C10G 65/12 (2006.01)**
[25] EN
[54] **CATALYST SYSTEM FOR DEWAXING**
[54] **SYSTEME DE CATALYSEUR POUR DEPARAFFINAGE**
[72] JONGKIND, HERMANUS, NL
[72] RIGUTTO, MARCELLO STEFANO, NL
[71] SHELL INTERNATIONALE RESEARCH MAATCSHAPPIJ B.V., NL
[85] 2019-05-31
[86] 2017-12-13 (PCT/EP2017/082643)
[87] (WO2018/109015)
[30] EP (16204786.4) 2016-12-16

[21] **3,045,737**
[13] A1
[51] **Int.Cl. A61M 3/02 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **MOTORIZED CATHETER SYSTEM WITH IMPROVED INFLATION CONTROL**
[54] **SYSTEME DE CATHETER MOTORISE A COMMANDE DE GONFLAGE AMELIOREE**
[72] ELIASSON, GORAN, SE
[72] SCHMID, ANDREA, SE
[72] WELLENSTAM, KJELL, SE
[71] DENTSPLY IH AB, SE
[85] 2019-05-31
[86] 2017-12-15 (PCT/EP2017/083053)
[87] (WO2018/114682)
[30] EP (16206373.9) 2016-12-22

[21] **3,045,738**
[13] A1
[51] **Int.Cl. C08F 220/06 (2006.01) B32B 27/30 (2006.01) C08F 2/30 (2006.01) C08F 20/06 (2006.01) C08J 5/18 (2006.01) C11D 3/37 (2006.01)**
[25] EN
[54] **WASHING AND CLEANING MULTI-LAYER FILMS, METHOD FOR THE PRODUCTION AND USE THEREOF**
[54] **FILMS MULTICOUCHE A ACTION DETERGENTE ET NETTOYANTE, PROCEDE DE PRODUCTION DESDITS FILMS ET UTILISATION CORRESPONDANTE**
[72] FUCHS, YANNICK, DE
[72] DETERING, JUERGEN, DE
[72] MEISE, MARKUS, DE
[72] SCHMIDT-HANSBERG, BENJAMIN, DE
[72] ESPER, CLAUDIA, DE
[72] NEUMANN, JESSICA, DE
[71] BASF SE, DE
[85] 2019-05-31
[86] 2017-12-15 (PCT/EP2017/083133)
[87] (WO2018/109201)
[30] EP (16204781.5) 2016-12-16
[30] EP (17189669.9) 2017-09-06

[21] **3,045,746**
[13] A1
[51] **Int.Cl. F16N 1/00 (2006.01) C10M 103/06 (2006.01) C10M 135/00 (2006.01) C23C 14/00 (2006.01) C23C 14/06 (2006.01) C23C 30/00 (2006.01) F16J 15/16 (2006.01) F16N 17/02 (2006.01)**
[25] FR
[54] **FRICTION PIECE, MECHANICAL SYSTEM COMPRISING SUCH A FRICTION PIECE AND METHOD OF IMPLEMENTATION**
[54] **PIECE DE FROTTEMENT, SYSTEME MECANIQUE COMPRENANT UNE TELLE PIECE DE FROTTEMENT, ET PROCEDE DE MISE EN OEUVRE**
[72] HEAU, CHRISTOPHE, FR
[72] MAURIN-PERRIER, PHILIPPE, FR
[71] H.E.F., FR
[85] 2019-05-31
[86] 2017-12-04 (PCT/FR2017/053377)
[87] (WO2018/104641)
[30] FR (1662033) 2016-12-07

[21] **3,045,747**
[13] A1
[51] **Int.Cl. A01K 1/02 (2006.01)**
[25] EN
[54] **INFLATABLE TRANSPORT BOX**
[54] **CAISSE DE TRANSPORT GONFLABLE**
[72] PRADE, ERNSTFRIED, DE
[72] WEINBERGER, DANIEL, DE
[71] PRADE, ERNSTFRIED, DE
[85] 2019-05-31
[86] 2017-12-21 (PCT/EP2017/084254)
[87] (WO2018/122127)
[30] DE (10 2016 015 642.2) 2016-12-30

[21] **3,045,748**
[13] A1
[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/4436 (2006.01) A61P 35/00 (2006.01) C07D 495/14 (2006.01)**
[25] EN
[54] **THIENOISOQUINOLINES AND THEIR DERIVATIVES FOR THE TREATMENT OF CANCER**
[54] **THIENOISOQUINOLEINES ET LEURS DERIVES POUR LE TRAITEMENT DU CANCER**
[72] FORGIONE, PASQUALE, CA
[72] PIEKNY, ALISA JULIENNE, CA
[72] JAUNKY, DILAN BOODHAI, CA
[72] CHEN, FEI, CA
[72] LIU, JIANG TIAN, CA
[71] VALORBEC, SOCIETE EN COMMANDLTE, CA
[85] 2019-05-31
[86] 2017-12-06 (PCT/CA2017/051473)
[87] (WO2018/102920)
[30] US (62/430,387) 2016-12-06

[21] **3,045,749**
[13] A1
[51] **Int.Cl. G01S 15/89 (2006.01) G01S 7/523 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ULTRASOUND BEAMFORMING USING COHERENTLY COMPOUNDED FRESNEL FOCUSING**
[54] **SYSTEMES ET PROCEDES DE FORMATION DE FAISCEAU D'ULTRASONS UTILISANT UNE FOCALISATION DE FRESNEL A COMPOSITION COHERENTE**
[72] BROWN, JEREMY, CA
[72] SAMSON, CHRISTOPHER, CA
[72] LATHAM, KATHERINE, CA
[71] DALHOUSIE UNIVERSITY, CA
[85] 2019-05-31
[86] 2017-12-15 (PCT/CA2017/051524)
[87] (WO2018/107299)
[30] US (62/434,763) 2016-12-15

[21] **3,045,751**
[13] A1
[51] **Int.Cl. A61B 17/94 (2006.01) A61B 17/00 (2006.01) A61B 17/29 (2006.01) A61B 17/295 (2006.01)**
[25] EN
[54] **FLEXIBLE ARTICULATE SURGICAL TOOL**
[54] **OUTIL CHIRURGICAL SOUPLE ARTICULE**
[72] EASTWOOD, KYLE W., CA
[72] FRANCIS, PETER, CA
[72] LOOI, THOMAS, CA
[72] NAGUIB, HANI E., CA
[72] DRAKE, JAMES M., CA
[71] THE HOSPITAL FOR SICK CHILDREN, CA
[85] 2019-05-31
[86] 2017-12-18 (PCT/CA2017/051532)
[87] (WO2018/107300)
[30] US (62/435,439) 2016-12-16

[21] **3,045,753**
[13] A1
[51] **Int.Cl. G08B 21/24 (2006.01)**
[25] EN
[54] **METHOD FOR THE DISINFECTION AND THE QUALITY CONTROL OF THE DISINFECTION OF THE HANDS OF A USER AND APPARATUS FOR CARRYING OUT THE METHOD**
[54] **PROCEDE DE DESINFECTION ET DE CONTROLE QUALITE DE LA DESINFECTION DES MAINS D'UN UTILISATEUR ET APPAREIL POUR METTRE EN □UVRE LE PROCEDE**
[72] HAIDEGGER, TAMAS PETER, HU
[72] SZEREMY, PETER, HU
[72] LEHOTSKY, AKOS, HU
[72] MAJOR, GERGELY, HU
[72] TAKACS, BENCE, HU
[72] RONA, PETER, HU
[71] HANDINSCAN ZRT., HU
[85] 2019-05-31
[86] 2017-12-13 (PCT/HU2017/050055)
[87] (WO2018/109507)
[30] HU (P1600669) 2016-12-14

[21] **3,045,754**
[13] A1
[51] **Int.Cl. E01D 15/24 (2006.01) B65G 69/28 (2006.01) E02B 3/26 (2006.01)**
[25] EN
[54] **FERRY SLIP**
[54] **CALE DE FERRY**
[72] LONGVA, JAN ARNE, NO
[71] JALO CONSULTING AS, NO
[85] 2019-05-31
[86] 2017-11-16 (PCT/NO2017/050295)
[87] (WO2018/101836)
[30] NO (20161923) 2016-12-02

[21] **3,045,755**
[13] A1
[51] **Int.Cl. E21B 47/13 (2012.01) H04B 13/02 (2006.01) G01S 5/00 (2006.01) G01S 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DATA TELEMETRY AMONG ADJACENT BOREHOLES**
[54] **SYSTEME ET PROCEDE DE TELEMETRIE DE DONNEES ENTRE DES TROUS DE FORAGE ADJACENTS**
[72] LOGAN, AARON W., CA
[72] WEST, KURTIS K. L., CA
[72] WACKETT, JASON B., CA
[72] MARTIN, VINCENT RAYMOND, CA
[72] YOUSEFI KOOPAEI, MAHDI, CA
[71] EVOLUTION ENGINEERING INC., CA
[85] 2019-05-31
[86] 2017-12-22 (PCT/CA2017/051606)
[87] (WO2018/119520)
[30] US (62/440,618) 2016-12-30

[21] **3,045,756**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01)**
[25] EN
[54] **HIV BINDING AGENTS**
[54] **AGENTS DE LIAISON AU VIH**
[72] PANTALEO, GIUSEPPE, CH
[72] LANZAVECCHIA, ANTONIO, CH
[71] CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS, CH
[71] INSTITUTE FOR RESEARCH IN BIOMEDICINE, CH
[85] 2019-05-31
[86] 2016-12-05 (PCT/IB2016/057367)
[87] (WO2017/093985)
[30] US (62/263,618) 2015-12-05

[21] **3,045,758**
[13] A1
[51] **Int.Cl. A61M 16/10 (2006.01) A61M 13/00 (2006.01)**
[25] EN
[54] **FILTER ASSEMBLY**
[54] **ENSEMBLE FILTRE**
[72] BOYES, RICHARD JOHN, NZ
[72] FISCHER, CHRISTIAN FRANCIS, NZ
[72] GHALIB, ALI GHALIB ABDUL RAHMAN, NZ
[72] CHAN, JESSICA KRISTEN, NZ
[72] BAUMANN, MONIKA, NZ
[72] IP, BERNARD TSZ LUN, NZ
[71] FISHER AND PAYKEL HEALTHCARE LIMITED, NZ
[85] 2019-05-31
[86] 2017-12-08 (PCT/NZ2017/050159)
[87] (WO2018/106127)
[30] US (62/432,422) 2016-12-09

[21] **3,045,760**
[13] A1
[51] **Int.Cl. E04H 12/18 (2006.01) A01M 31/02 (2006.01) E04H 1/12 (2006.01)**
[25] EN
[54] **PORTABLE MULTI-FUNCTIONAL SYSTEM AND REALIZATION METHOD THEREOF**
[54] **SYSTEME MULTIFONCTIONNEL PORTABLE ET SON PROCEDE DE REALISATION**
[72] TAFURO, SALVATORE, IT
[72] TAFURO, COSIMO, IT
[71] R.I. S.P.A. MODULAR BUILDING SYSTEM, IT
[85] 2019-05-31
[86] 2017-09-18 (PCT/IB2017/001248)
[87] (WO2018/109542)
[30] IT (102016000127442) 2016-12-16

[21] **3,045,761**
[13] A1
[51] **Int.Cl. B64C 39/00 (2006.01)**
[25] EN
[54] **AIRCRAFT WITH VERTICAL TAKEOFF AND LANDING AND ITS OPERATING PROCESS**
[54] **AERONEF A DECOLLAGE ET ATTERRISSAGE VERTICAUX ET SON PROCEDE DE FONCTIONNEMENT**
[72] RAZVAN, SABIE, RO
[71] RAZVAN, SABIE, RO
[71] IOSIF, TAPOSU, RO
[85] 2019-05-31
[86] 2016-12-16 (PCT/RO2016/000026)
[87] (WO2017/105266)
[30] RO (a 2015 01021) 2015-12-18

[21] **3,045,763**
[13] A1
[51] **Int.Cl. H03F 1/02 (2006.01) H03F 1/32 (2006.01) H03F 3/24 (2006.01)**
[25] EN
[54] **POLAR MODULATION USING PRODUCT MODE**
[54] **MODULATION POLAIRE UTILISANT UN MODE DE PRODUIT**
[72] KIRKPATRICK, DOUGLAS A., US
[72] MCCUNE, EARL W., JR., US
[71] ERIDAN COMMUNICATIONS, INC., US
[85] 2019-05-31
[86] 2016-09-08 (PCT/US2016/050645)
[87] (WO2017/095492)
[30] US (14/958,418) 2015-12-03

[21] **3,045,764**
[13] A1
[51] **Int.Cl. A23L 33/21 (2016.01) A61K 35/741 (2015.01) A61K 35/742 (2015.01) A23L 33/125 (2016.01) A23L 33/135 (2016.01) A23G 3/36 (2006.01) A23G 3/42 (2006.01) A61K 9/00 (2006.01) A61K 31/702 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **ISOMALTO-OLIGOSACCHARIDE PREBIOTIC FORMULATIONS**
[54] **FORMULATIONS PREBIOTIQUES D'ISOMALTO-OLIGOSACCHARIDES**
[72] DOHERTY, JOHN, CA
[71] JAMIESON LABORATORIES LTD., CA
[85] 2019-05-31
[86] 2018-01-02 (PCT/CA2018/000001)
[87] (WO2018/126310)
[30] US (62/442,408) 2017-01-04
[30] US (62/562,358) 2017-09-22

[21] **3,045,765**
[13] A1
[51] **Int.Cl. C21D 8/04 (2006.01) C21D 9/46 (2006.01) C21D 9/48 (2006.01) F27B 9/24 (2006.01) F27B 9/36 (2006.01)**
[25] EN
[54] **A MANUFACTURING PROCESS OF HOT PRESS FORMED ALUMINIZED STEEL PARTS**
[54] **PROCEDE DE FABRICATION DE PIECES EN ACIER ALUMINIE FORMEES PAR PRESSAGE A CHAUD**
[72] BLAISE, ALEXANDRE, FR
[71] ARCELORMITTAL, LU
[85] 2019-05-31
[86] 2017-12-08 (PCT/IB2017/001531)
[87] (WO2018/115951)
[30] IB (PCT/IB2016/001774) 2016-12-19

[21] **3,045,766**
[13] A1
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/002 (2006.01) A63B 21/068 (2006.01) A63B 21/16 (2006.01)**
[25] EN
[54] **DATA-COLLECTING EXERCISE DEVICE**
[54] **DISPOSITIF D'EXERCICE A COLLECTE DE DONNEES**
[72] SANDS, NICHOLAS P., US
[72] ANDREWS, JUSTIN, US
[72] JACOBSEN, KRISTA S., US
[72] HARDEN, DAN, US
[72] DERBY, COLE, US
[72] JENSEN, BRITT, US
[71] DISRUPTIVE FORCE LLC, US
[85] 2019-05-31
[86] 2016-12-01 (PCT/US2016/064333)
[87] (WO2017/095990)
[30] US (62/262,343) 2015-12-02

[21] **3,045,767**
[13] A1
[51] **Int.Cl. D21H 27/10 (2006.01) B65D 65/40 (2006.01) B65D 65/42 (2006.01) D21H 19/82 (2006.01) D21H 21/16 (2006.01) D21H 21/52 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING A PACKAGING MATERIAL AND A PACKAGING MATERIAL MADE BY THE METHOD**
[54] **PROCEDE DE FABRICATION DE MATERIAU D'EMBALLAGE ET MATERIAU D'EMBALLAGE FABRIQUE PAR LE PROCEDE**
[72] BACKFOLK, KAJ, FI
[72] BONNERUP, CHRIS, SE
[71] STORA ENSO OYJ, FI
[85] 2019-05-31
[86] 2017-12-18 (PCT/IB2017/058047)
[87] (WO2018/116118)
[30] SE (1651732-8) 2016-12-22

[21] **3,045,769**
[13] A1
[51] **Int.Cl. A61F 5/56 (2006.01)**
[25] EN
[54] **DENTAL APPLIANCE TO REDUCE SNORING**
[54] **APPAREIL DENTAIRE POUR REDUIRE LES RONFLEMENTS**
[72] CARRILLO GONZALEZ, ROBERTO J., MX
[72] CARRILLO FUENTEVILLA, ROBERTO, MX
[71] CARRILLO GONZALEZ, ROBERTO J., MX
[71] CARRILLO FUENTEVILLA, ROBERTO, MX
[85] 2019-05-31
[86] 2017-12-11 (PCT/IB2017/001650)
[87] (WO2018/104792)
[30] US (62/432,555) 2016-12-09

[21] **3,045,770**
[13] A1
[51] **Int.Cl. G01P 15/093 (2006.01) G01H 9/00 (2006.01) G01H 11/08 (2006.01) G01L 1/18 (2006.01) G01L 1/24 (2006.01) G01P 15/09 (2006.01) G01P 15/12 (2006.01) G01V 1/18 (2006.01)**
[25] EN
[54] **TRANSDUCER STRUCTURE, TRANSDUCER COMPRISING SUCH TRANSDUCER STRUCTURE, AND SENSOR COMPRISING SAID TRANSDUCER**
[54] **STRUCTURE DE TRANSDUCTEUR, TRANSDUCTEUR COMPRENANT UNE TELLE STRUCTURE DE TRANSDUCTEUR, ET CAPTEUR COMPRENANT LEDIT TRANSDUCTEUR**
[72] BROCK, MARTIN, EDWARD, GB
[72] LAMB, GORDON, GB
[72] MURRAY FRY, THOMAS, GB
[72] KALOGEROPOULOS, XENOFON, GB
[72] ROSSER, CHRISTOPHER, JAMES, GB
[71] PIETRO FIORENTINI S.P.A., IT
[85] 2019-05-31
[86] 2017-12-21 (PCT/IB2017/058251)
[87] (WO2018/116226)
[30] IT (102016000129935) 2016-12-22

[21] **3,045,773**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/06 (2006.01) E21B 33/127 (2006.01)**
[25] EN
[54] **PACKER SEALING ELEMENT WITH NON-SWELLING LAYER**
[54] **ELEMENT D'ETANCHEITE DE GARNITURE D'ETANCHEITE AVEC COUCHE NON GONFLANTE**
[72] JAKKULA, PREM SAGAR, NO
[72] GJELSTAD, GEIR, US
[72] GARDNER, VAUGHN HENRIE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-05-31
[86] 2017-02-07 (PCT/US2017/016848)
[87] (WO2018/147833)

[21] **3,045,774**
[13] A1
[51] **Int.Cl. B63H 5/10 (2006.01) B63H 23/02 (2006.01) B63H 23/08 (2006.01) B63H 23/32 (2006.01) B63H 23/36 (2006.01)**
[25] EN
[54] **STRUT MOUNTED GEAR BOX FOR COUNTER ROTATING PROPELLERS**
[54] **BOITE DE VITESSES MONTEE AVEC ENTRETOISE POUR HELICES CONTRAROTATIVES**
[72] STOLPER, PETER R., US
[71] STOLPER, PETER R., US
[85] 2019-05-31
[86] 2017-06-22 (PCT/US2017/038692)
[87] (WO2018/106288)
[30] US (62/431,217) 2016-12-07

[21] **3,045,776**
[13] A1
[51] **Int.Cl. H01L 51/50 (2006.01) H01L 51/00 (2006.01) H01L 51/42 (2006.01)**
[25] EN
[54] **HOLE TRANSPORTING MATERIAL AND PHOTOVOLTAIC DEVICE THAT USES IT**
[54] **MATERIAU DE TRANSPORT DE TROUS ET DISPOSITIF PHOTOVOLTAIQUE L'UTILISANT**
[72] PO', RICCARDO, IT
[72] COMINETTI, ALESSANDRA, IT
[71] ENI S.P.A., IT
[85] 2019-05-31
[86] 2017-12-22 (PCT/IB2017/058330)
[87] (WO2018/122707)
[30] IT (102016000131259) 2016-12-27

[21] **3,045,779**
[13] A1
[51] **Int.Cl. C10G 65/00 (2006.01) C10G 67/00 (2006.01) C10G 67/04 (2006.01)**
[25] EN
[54] **BLOCK PROCESSING FOR BASE STOCK PRODUCTION FROM DEASPHALTED OIL**
[54] **TRAITEMENT DE BLOC POUR LA PRODUCTION D'HUILE DE BASE A PARTIR D'HUILE DESASPHALTEE**
[72] FRUCHEY, KENDALL S., US
[72] CARROLL, MICHAEL B., US
[72] HILBERT, TIMOTHY L., US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-31
[86] 2017-06-23 (PCT/US2017/039006)
[87] (WO2018/125281)
[30] US (62/439,943) 2016-12-29

[21] **3,045,780**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01) A61B 34/00 (2016.01) G06F 3/01 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHOD FOR AUGMENTED REALITY OPHTHALMIC SURGICAL MICROSCOPE PROJECTION**
[54] **SYSTEMES ET PROCEDE DE PROJECTION DE MICROSCOPE CHIRURGICAL OPHTALMIQUE A REALITE AUGMENTEE**
[72] OVCHINNIKOV, MIKHAIL, US
[72] KOONTZ, JOHN, US
[72] DOS SANTOS, CESARIO, US
[72] HOPPER, ANDREW STEVEN, US
[71] NOVARTIS AG, CH
[85] 2019-05-31
[86] 2018-01-24 (PCT/IB2018/050432)
[87] (WO2018/138653)
[30] US (62/452,077) 2017-01-30

[21] **3,045,781**
[13] A1
[51] **Int.Cl. C10M 101/02 (2006.01)**
[25] EN
[54] **BASE STOCKS AND LUBRICANT COMPOSITIONS CONTAINING SAME**
[54] **HUILES DE BASE ET COMPOSITIONS LUBRIFIANTES LES CONTENANT**
[72] YEH, LISA I-CHING, US
[72] SHUKLA, YOGI V., US
[72] WATKINS-CURRY, PILANDA, US
[72] HENDERSON, CAMDEN N., US
[72] FRUCHEY, KENDALL S., US
[72] CARROLL, MICHAEL B., US
[72] DIEBOLD, ADRIENNE R., US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2019-05-31
[86] 2017-06-23 (PCT/US2017/039027)
[87] (WO2018/125284)
[30] US (62/439,943) 2016-12-29

[21] **3,045,783**
[13] A1
[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/21 (2006.01) A61K 8/27 (2006.01) A61K 8/42 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS**
[54] **COMPOSITIONS DE SOINS BUCCAUX**
[72] REGE, AARTI, US
[72] RINAUDI MARRON, LUCIANA, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2019-05-31
[86] 2017-08-23 (PCT/US2017/048158)
[87] (WO2018/118145)
[30] US (62/437,104) 2016-12-21

[21] **3,045,784**
[13] A1
[51] **Int.Cl. A01H 5/00 (2018.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01)**
[25] EN
[54] **MODULATION OF TRANSGENE EXPRESSION IN PLANTS**
[54] **MODULATION DE L'EXPRESSION DE TRANSGENES DANS DES PLANTES**
[72] KUMAR, SANDEEP, US
[72] GERMAN, MARCELO ARIEL, US
[72] WANG, POHAO, US
[72] GLANCY, TODD P., US
[72] SRIRAM, SHREEDHARAN, US
[72] YERKES, CARLA N., US
[72] BOWLING, ANDREW J., US
[72] PENCE, HEATHER, US
[72] ROBINSON, ANDREW E., US
[71] DOW AGROSCIENCES LCC, US
[85] 2019-05-31
[86] 2017-09-15 (PCT/US2017/051691)
[87] (WO2018/089099)
[30] US (62/406,560) 2016-10-11

[21] **3,045,785**
[13] A1
[51] **Int.Cl. G01N 29/14 (2006.01) G01N 29/04 (2006.01) G01N 29/24 (2006.01) G01N 29/30 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO VERIFY OPERATION OF ACOUSTIC EMISSION SENSORS**
[54] **PROCEDES ET APPAREIL POUR VERIFIER LE FONCTIONNEMENT DE CAPTEURS D'EMISSION ACOUSTIQUE**
[72] NORDSTROM, RICHARD ALLEN, US
[72] DAHME, BRET ANTHONY, US
[72] JELKEN, SHANNON E., US
[71] FISHER CONTROLS INTERNATIONAL LLC, US
[85] 2019-05-31
[86] 2017-10-24 (PCT/US2017/057956)
[87] (WO2018/118204)
[30] US (15/387,341) 2016-12-21

[21] **3,045,786**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL CABLE AND SHEATH REMOVING METHOD**
[54] **CABLE OPTIQUE ET PROCEDE DE RETRAIT DE PEAU EXTERNE**
[72] SATO, SHINNOSUKE, JP
[72] ISAJI, MIZUKI, JP
[72] TOMIKAWA, KOUJI, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2019-05-31
[86] 2017-11-15 (PCT/JP2017/041103)
[87] (WO2018/101041)
[30] JP (2016-233839) 2016-12-01

[21] **3,045,787**
[13] A1
[51] **Int.Cl. E21B 3/02 (2006.01) E21B 15/00 (2006.01) E21B 19/00 (2006.01) F02D 19/06 (2006.01) F02D 19/10 (2006.01) F02D 29/06 (2006.01) H02J 1/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR SUPPLYING POWER FROM THE MAIN POWERHOUSE TO A DRILL FLOOR POWERHOUSE**
[54] **SYSTEME D'ALIMENTATION EN ENERGIE DE LA CENTRALE ELECTRIQUE PRINCIPALE A UNE CENTRALE ELECTRIQUE DE PLANCHER DE FORAGE**
[72] WILLIAMS, KEVIN R., US
[71] WILLIAMS, KEVIN R., US
[85] 2019-05-31
[86] 2017-10-25 (PCT/US2017/058311)
[87] (WO2018/118209)
[30] US (15/386,855) 2016-12-21

[21] **3,045,788**
[13] A1
[51] **Int.Cl. G01R 33/02 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL MAGNETIC FIELD DETECTION ELEMENT AND THREE-DIMENSIONAL MAGNETIC FIELD DETECTION DEVICE**
[54] **ELEMENT DE DETECTION DE CHAMP MAGNETIQUE TRIDIMENSIONNEL ET DISPOSITIF DE DETECTION DE CHAMP MAGNETIQUE TRIDIMENSIONNEL**
[72] HONKURA, YOSHINOBU, JP
[71] ASAHI INTECC CO., LTD., JP
[85] 2019-05-31
[86] 2017-12-14 (PCT/JP2017/044968)
[87] (WO2018/110665)
[30] JP (2016-242816) 2016-12-15

[21] **3,045,789**
[13] A1
[51] **Int.Cl. A61B 17/068 (2006.01)**
[25] EN
[54] **APPLICATOR INSTRUMENTS HAVING SURGICAL FASTENER INSERTION TOOLS FOR DISPENSING SURGICAL FASTENERS**
[54] **INSTRUMENTS DE TYPE APPLICATEURS DOTES D'OUTILS D'INSERTION D'AGRAFES CHIRURGICALES POUR DISTRIBUER DES AGRAFES CHIRURGICALES**
[72] KENYON, MARK D., US
[72] NORDMEYER, MICHAEL, US
[72] CARDINALE, MICHAEL, US
[72] COHN, SIMON, US
[72] GUO, JIANXIN, US
[72] SOULS, DOUGLAS, US
[72] FERREIRA, DANIAL PAUL, US
[71] ETHICON, INC., US
[85] 2019-05-31
[86] 2017-11-13 (PCT/US2017/061282)
[87] (WO2018/106410)
[30] US (62/431,355) 2016-12-07
[30] US (15/493,981) 2017-04-21

[21] **3,045,790**
[13] A1
[51] **Int.Cl. C07K 14/435 (2006.01) A61K 38/17 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **PEPTIDE MODULATOR OF PURINERGIC RECEPTORS**
[54] **MODULATEUR PEPTIDIQUE DE RECEPTEURS PURINERGIQUES**
[72] VASSILEVSKI, ALEXANDER ALEXANDROVICH, RU
[72] OPARIN, PETER BORISOVICH, RU
[72] KOROLKOVA, YULIYA VLADIMIROVNA, RU
[72] MOSHAROVA, IRINA VLADIMIROVNA, RU
[72] SAVCHENKO, GANNA ANATOLIEVNA, UA
[72] BOYCHUK, YAROSLAV ANATOLIEVICH, UA
[72] KRISHTAL, OLEG ALEXANDROVICH, UA
[71] "FUTURE ANALGESICS" LIMITED, RU
[85] 2019-05-31
[86] 2017-05-31 (PCT/RU2017/000279)
[87] (WO2018/106142)
[30] RU (2016147736) 2016-12-06

[21] **3,045,791**
[13] A1
[51] **Int.Cl. A61B 17/064 (2006.01) A61B 17/068 (2006.01)**
[25] EN
[54] **SURGICAL FASTENERS FOR MESH AND TISSUE FIXATION**
[54] **AGRAFES CHIRURGICALES DE FIXATION DE MAILLES ET DE TISSUS**
[72] GUO, JIANXIN, US
[72] COHN, SIMON, US
[72] CARDINALE, MICHAEL, US
[72] SOULS, DOUGLAS, US
[72] AUGUSTIN, JEPHTE, US
[71] ETHICON, INC., US
[85] 2019-05-31
[86] 2017-11-13 (PCT/US2017/061286)
[87] (WO2018/106412)
[30] US (15/372,241) 2016-12-07

[21] **3,045,792**
[13] A1
[51] **Int.Cl. E04B 1/38 (2006.01) E04B 1/348 (2006.01) E04B 1/61 (2006.01) E04B 1/19 (2006.01)**
[25] EN
[54] **CONNECTION SYSTEM AND METHOD FOR PREFABRICATED VOLUMETRIC CONSTRUCTION MODULES**
[54] **SYSTEME ET PROCEDE DE LIAISON POUR MODULES DE CONSTRUCTION VOLUMETRIQUES PREFABRIQUES**
[72] POH, QI PIN, SG
[72] KANG, CHOON BOON, SG
[72] SEOW, SENG WEI, SG
[71] MRCB INNOVATIONS SDN. BHD., MY
[85] 2019-05-31
[86] 2017-12-04 (PCT/SG2017/050594)
[87] (WO2018/101891)
[30] SG (10201610152Q) 2016-12-02
[30] SG (10201707728X) 2017-09-19

[21] **3,045,793**
[13] A1
[51] **Int.Cl. H04B 10/116 (2013.01)**
[25] EN
[54] **CHANNEL MANAGEMENT TO PROVIDE NARROWCAST DATA SERVICES USING VISIBLE LIGHT COMMUNICATION**
[54] **GESTION DE CANAL PERMETTANT DE FOURNIR DES SERVICES DE DONNEES A DIFFUSION RESTREINTE A L'AIDE D'UNE COMMUNICATION PAR LUMIERE VISIBLE**
[72] BEAS BUJANOS, JOAQUIN, US
[72] DOMINGUEZ JIMENEZ, CARLOS, MX
[72] LUIS LOPEZ, JOSE, US
[71] ARRIS ENTERPRISES LLC, US
[85] 2019-05-31
[86] 2017-11-16 (PCT/US2017/061999)
[87] (WO2018/102144)
[30] US (15/367,168) 2016-12-01

[21] **3,045,794**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/198 (2006.01) A61K 33/18 (2006.01) A61K 47/02 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **LEVOTHYROXINE LIQUID FORMULATIONS**
[54] **FORMULATIONS LIQUIDES DE LEVOTHYROXINE**
[72] USAYAPANT, ARUNYA, US
[72] IBRAHIM, BASMA M., US
[71] FRESENIUS KABI USA, LLC, US
[85] 2019-05-31
[86] 2017-11-16 (PCT/US2017/062019)
[87] (WO2018/102145)
[30] US (15/366,864) 2016-12-01

[21] **3,045,795**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 9/00 (2006.01) A61K 9/70 (2006.01)**
[25] EN
[54] **FAST-ACTING PLANT-BASED MEDICINAL COMPOUNDS AND NUTRITIONAL SUPPLEMENTS**
[54] **COMPOSES MEDICINAUX A BASE DE PLANTES A ACTION RAPIDE, ET SUPPLEMENTS NUTRITIONNELS**
[72] LEONE-BAY, ANDREA, US
[72] WESNER, GREGORY, US
[71] RECEPTOR HOLDINGS, INC., US
[85] 2019-05-31
[86] 2017-10-06 (PCT/US2017/055547)
[87] (WO2018/102029)
[30] US (62/429,544) 2016-12-02

[21] **3,045,796**
[13] A1
[51] **Int.Cl. C12M 3/00 (2006.01) C12M 1/34 (2006.01) C12M 3/04 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **IN VITRO EPITHELIAL MODELS COMPRISING LAMINA PROPRIA-DERIVED CELLS**
[54] **MODELES EPITHELIAUX IN VITRO COMPRENANT DES CELLULES DERIVEES DE LAMINA PROPRIA**
[72] LEVNER, DANIEL, US
[72] KERNS, S. JORDAN, US
[72] BARRILE, RICCARDO, US
[72] HAMILTON, GERALDINE, US
[72] KARALIS, CATHERINE, US
[72] LUCCHESI, CAROLINA, US
[72] VARONE, ANTONIO, US
[72] VILLENAVE, REMI, US
[72] LEVNER, DANIEL, US
[71] EMULATE, INC., US
[85] 2019-05-31
[86] 2017-11-21 (PCT/US2017/062817)
[87] (WO2018/102201)
[30] US (62/429,487) 2016-12-02

[21] **3,045,797**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 38/38 (2006.01) A61K 38/40 (2006.01) A61K 39/395 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **FUSION PROTEINS FOR SELECTIVELY DEPLETING ANTIGEN-SPECIFIC ANTIBODIES**
[54] **PROTEINES DE FUSION POUR L'APPAUVRISSANT SELECTIVE D'ANTICORPS SPECIFIQUES D'UN ANTIGENE**
[72] OBER, ELIZABETH SALLY WARD, US
[72] DEVANABOYINA, VENKATA SIVA CHARAN, US
[72] OBER, RAIMUND JOHANNES, US
[71] THE TEXAS A&M UNIVERSITY SYSTEM, US
[85] 2019-05-31
[86] 2017-12-01 (PCT/US2017/064186)
[87] (WO2018/102668)
[30] US (62/429,367) 2016-12-02

[21] **3,045,798**
[13] A1
[51] **Int.Cl. H04N 21/431 (2011.01) H04N 21/485 (2011.01) H04N 21/488 (2011.01) H04N 5/445 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CAPTION MODIFICATION**
[54] **SYSTEME ET PROCEDE DE MODIFICATION DE SOUS-TITRES**
[72] KAHN, MICHAEL R., US
[71] ARRIS ENTERPRISES LLC, US
[85] 2019-05-31
[86] 2017-11-17 (PCT/US2017/062169)
[87] (WO2018/102150)
[30] US (15/366,043) 2016-12-01

[21] **3,045,799**
[13] A1
[51] **Int.Cl. A23K 10/38 (2016.01) A23K 50/10 (2016.01)**
[25] EN
[54] **SILAGE PRODUCED FROM A CORN HYBRID COMPRISING BROWN MIDRIB AND FLOURY TRAITS, AND ANIMAL FEED COMPOSITIONS COMPRISING SAME**
[54] **ENSILAGE PRODUIT A PARTIR D'UN HYBRIDE DE MAIS COMPRENANT DES CARACTERISTIQUES DE NERVURE MEDIANE BRUNE ET DE TEXTURE FARINEUSE, ET COMPOSITIONS D'ALIMENT POUR ANIMAUX LE COMPRENANT**
[72] PLEHN, STEVE, US
[72] ANDERSON, JOHN, US
[71] AGRIGENETICS, INC., US
[85] 2019-05-31
[86] 2017-12-01 (PCT/US2017/064198)
[87] (WO2018/102674)
[30] US (62/429,217) 2016-12-02

[21] **3,045,800**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 13/00 (2006.01) A61F 13/02 (2006.01) A61F 13/06 (2006.01)**
[25] EN
[54] **MUSCLE OR JOINT SUPPORT ARTICLE**
[54] **ARTICLE DE SUPPORT DE MUSCLE OU D'ARTICULATION**
[72] EMSLANDER, DIANE L., US
[72] JULIAN, DOMINIC J., US
[72] EMSLANDER, JEFFREY O., US
[72] YOUNG, JACOB D., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2019-05-31
[86] 2017-11-28 (PCT/US2017/063358)
[87] (WO2018/102272)
[30] US (62/429,355) 2016-12-02
[30] US (62/579,268) 2017-10-31

[21] **3,045,802**
[13] A1
[51] **Int.Cl. H01L 31/0272 (2006.01) H01L 27/14 (2006.01) H01L 27/146 (2006.01) H01L 31/0376 (2006.01) H01L 31/115 (2006.01)**
[25] EN
[54] **FABRICATION METHOD FOR FUSED MULTI-LAYER AMORPHOUS SELENIUM SENSOR**
[54] **PROCEDE DE FABRICATION D'UN CAPTEUR DE SELENIUM AMORPHE MULTICOUCHE FUSIONNE**
[72] SCHEUERMANN, JAMES, US
[72] ZHAO, WEI, US
[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2019-05-31
[86] 2017-11-30 (PCT/US2017/063857)
[87] (WO2018/102500)
[30] US (62/429,101) 2016-12-02

[21] **3,045,807**
[13] A1
[51] **Int.Cl. C07C 247/16 (2006.01) H01M 4/13 (2010.01) C07C 247/18 (2006.01)**
[25] EN
[54] **ENERGY PROVIDING DEVICES AND APPLICATIONS THEREOF**
[54] **DISPOSITIFS DE FOURNITURE D'ENERGIE ET APPLICATION DE CEUX-CI**
[72] MCVERRY, BRIAN T., US
[72] JORDAN, ROBERT S., US
[72] KANER, RICHARD B., US
[72] RAO, ETHAN, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2019-05-31
[86] 2017-11-30 (PCT/US2017/063887)
[87] (WO2018/102517)
[30] US (62/428,899) 2016-12-01
[30] US (62/588,613) 2017-11-20

[21] **3,045,811**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/569 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **TUMOR ANTIGENICITY PROCESSING AND PRESENTATION**
[54] **PRESENTATION ET TRAITEMENT DE L'ANTIGENICITE TUMORALE**
[72] NGUYEN, ANDREW, US
[72] SANBORN, JOHN ZACHARY, US
[72] VASKE, CHARLES JOSEPH, US
[72] RABIZADEH, SHAHROOZ, US
[72] NIAZI, KAYVAN, US
[72] SOON-SHIONG, PATRICK, US
[72] BENZ, STEPHEN CHARLES, US
[71] NANTOMICS, LLC, US
[71] NANT HOLDINGS IP, LLC, US
[85] 2019-05-31
[86] 2017-11-30 (PCT/US2017/064078)
[87] (WO2018/102613)
[30] US (62/428,945) 2016-12-01

[21] **3,045,814**
[13] A1
[51] **Int.Cl. A24F 47/00 (2006.01)**
[25] EN
[54] **VAPORIZER WITH CARTRIDGE**
[54] **VAPORISATEUR AVEC CARTOUCHE**
[72] VERLEUR, JAN ANDRIES, US
[72] RECIO, DAN, US
[72] LIU, ZHIYUAN, US
[72] VERLEUR, HANS, US
[71] VMR PRODUCTS LLC, US
[85] 2019-05-31
[86] 2017-12-01 (PCT/US2017/064240)
[87] (WO2018/102701)
[30] US (62/429,371) 2016-12-02
[30] US (62/468,143) 2017-03-07

[21] **3,045,815**
[13] A1
[51] **Int.Cl. A24F 47/00 (2006.01)**
[25] EN
[54] **COMBINATION VAPORIZER**
[54] **VAPORISATEUR COMBINE**
[72] VERLEUR, JAN ANDRIES, US
[72] RECIO, DAN, US
[72] LIU, ZHIYUAN, US
[72] VERLEUS, HANS, US
[71] VMR PRODUCTS LLC, US
[85] 2019-05-31
[86] 2017-12-01 (PCT/US2017/064244)
[87] (WO2018/102703)
[30] US (62/429,348) 2016-12-02
[30] US (62/465,419) 2017-03-01

[21] **3,045,816**
[13] A1
[51] **Int.Cl. C07D 487/10 (2006.01)**
[25] EN
[54] **OGA INHIBITOR COMPOUNDS**
[54] **COMPOSES INHIBITEURS D'OGA**
[72] BARTOLOME-NEBREDA, JOSE MANUEL, ES
[72] TRABANCO-SUAREZ, ANDRES AVELINO, ES
[72] MARTINEZ VITURRO, CARLOS MANUEL, ES
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2019-05-31
[86] 2018-02-06 (PCT/EP2018/052901)
[87] (WO2018/141984)
[30] EP (17154751.6) 2017-02-06

[21] **3,045,847**
[13] A1
[51] **Int.Cl. G10L 19/008 (2013.01)**
[25] EN
[54] **DOWNMIXER AND METHOD FOR DOWNMIXING AT LEAST TWO CHANNELS AND MULTICHANNEL ENCODER AND MULTICHANNEL DECODER**
[54] **MELANGEUR-REDUCTEUR ET PROCEDE POUR LE MELANGE REDUCTEUR D'AU MOINS DEUX VOIES, CODEUR MULTIVOIE ET DECODEUR MULTIVOIE**
[72] BORSS, CHRISTIAN, DE
[72] EDLER, BERND, DE
[72] FUCHS, GUILLAUME, DE
[72] BUTHE, JAN, DE
[72] DISCH, SASCHA, DE
[72] GHIDO, FLORIN, DE
[72] BAYER, STEFAN, DE
[72] MULTRUS, MARKUS, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2019-04-26
[86] 2017-10-30 (PCT/EP2017/077820)
[87] (WO2018/086946)
[30] EP (16197813.5) 2016-11-08

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **2,966,638**
[13] A1
[51] **Int.Cl. B65D 33/06 (2006.01) B65B 25/04 (2006.01) B65D 30/10 (2006.01) B65D 33/01 (2006.01) B65D 33/08 (2006.01) B65D 85/34 (2006.01)**
[25] EN
[54] **PRODUCE POUCH**
[54] **POCHETTE DE PRODUIT**
[72] WILLIAMS, MARK, US
[71] SEV-REND CORPORATION, US
[22] 2017-05-10
[41] 2018-11-10

---

[21] **2,981,667**
[13] A1
[51] **Int.Cl. G06F 16/25 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTEGRATING DATA**
[54] **SYSTEME ET PROCEDE POUR INTEGRER DES DONNEES**
[72] ECKER, JEFFREY AARON, CA
[72] GLEESON, BRYAN MICHAEL, CA
[72] MCPHEE, ADAM DOUGLAS, CA
[72] WAKIM, MATTA, CA
[72] ODOBETSKIY, KYRYLL, CA
[72] LEE, JOHN JONG-SUK, CA
[72] JETHWA, RAKESH THOMAS, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2017-10-05
[41] 2019-04-05

---

[21] **2,982,062**
[13] A1
[51] **Int.Cl. G06F 16/383 (2019.01) G06F 21/31 (2013.01) G06F 21/60 (2013.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CONTEXT-SPECIFIC DATA SET DERIVATION FROM UNSTRUCTURED DATA IN DATA STORAGE DEVICES**
[54] **METHODES ET SYSTEMES DE DERIVATION D'ENSEMBLE DE DONNEES CONTEXTUELLES A PARTIR DE DONNEES NON STRUCTUREES DANS LES DISPOSITIFS DE STOCKAGE DE DONNEES**
[72] WEEKS, RUSS, CA
[72] GEORGIOU, TRISTEN, CA
[72] TO, TIM, CA
[72] ROEHRL, JOSEF, CA
[71] PHEMI SYSTEMS CORPORATION, CA
[22] 2017-10-10
[41] 2019-04-10

---

[21] **2,984,744**
[13] A1
[51] **Int.Cl. G06F 16/90 (2019.01) G06F 16/903 (2019.01)**
[25] EN
[54] **DATA SEPARATION AND WRITE REDIRECTION IN MULTI-TENANCY DATABASE SYSTEMS**
[54] **SEPARATION DE DONNEES ET REDIRECTION D'ECRITURE DANS LES SYSTEMES DE BASE DE DONNEES A PLUSIEURS OCCUPANTS**
[72] AUER, ULRICH, DE
[72] BIRN, IMMO-GERT, DE
[72] HAUCK, RALF-JUERGEN, DE
[72] SCHLARB, UWE, DE
[72] STORK, CHRISTIAN, DE
[72] WALTER, WELF, DE
[72] ZIEGLER, TORSTEN, DE
[72] DRIESEN, VOLKER, DE
[71] SAP SE, DE
[22] 2017-11-03
[41] 2019-04-26
[30] US (15/794,305) 2017-10-26

---

[21] **2,985,225**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 3/0486 (2013.01) G06F 17/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DESIGNING AND EDITING COMPUTERIZED ELECTRONIC DATA-ENTRY FORMS**
[54] **SYSTEME ET METHODE DE CONCEPTION ET EDITION DE FORMULAIRES DE SAISIE DE DONNEES ELECTRONIQUES INFORMATISES**
[72] HARE, BEN, CA
[72] MUKHI, SAURABH, CA
[72] ROGERS, ANDY, CA
[72] WONG, ALFRED, CA
[71] THINK RESEARCH CORPORATION, CA
[22] 2017-11-10
[41] 2019-05-10

---

[21] **2,986,320**
[13] A1
[51] **Int.Cl. G06F 16/383 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CONTEXT-SPECIFIC DATA SET DERIVATION FROM UNSTRUCTURED DATA IN DATA STORAGE DEVICES**
[54] **METHODES ET SYSTEMES DE DERIVATION D'ENSEMBLE DE DONNEES CONTEXTUELLES A PARTIR DE DONNEES NON STRUCTUREES DANS LES DISPOSITIFS DE STOCKAGE DE DONNEES**
[72] WEEKS, RUSS, CA
[72] GEORGIOU, TRISTEN, CA
[72] TO, TIM, CA
[72] ROEHRL, JOSEF, CA
[71] PHEMI SYSTEMS CORPORATION, CA
[22] 2017-11-21
[41] 2019-05-21

[21] **2,987,960**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 16/955 (2019.01) G06K 19/07 (2006.01)**
[25] EN
[54] **GIFT-TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE CADEAU**
[72] SCHIMKE, SCOTT A., US
[72] GARBOS, JENNIFER R., US
[71] HALLMARK CARDS, INCORPORATED, US
[22] 2017-12-07
[41] 2019-04-24
[30] US (15/791,576) 2017-10-24

---

[21] **3,023,417**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01) G06T 7/30 (2017.01) G02B 27/01 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND TOOLS FOR SPATIALLY-REGISTERING VIRTUAL CONTENT WITH PHYSICAL ENVIRONMENT IN AUGMENTED REALITY PLATFORMS**
[54] **SYSTEMES, METHODES ET OUTILS D'ENREGISTREMENT SPATIAL DE CONTENU VIRTUEL ET D'ENVIRONNEMENT PHYSIQUE DANS LES PLATEFORMES DE REALITE AUGMENTEE**
[72] DAVIES, PAUL ROBERT, US
[72] LEE, DAVID, US
[72] EVANS, GABRIEL JOSEPH, US
[71] THE BOEING COMPANY, US
[22] 2018-11-07
[41] 2019-05-09
[30] US (15/808074) 2017-11-09

---

[21] **3,036,954**
[13] A1
[51] **Int.Cl. A61F 7/10 (2006.01) A61F 13/00 (2006.01)**
[25] EN
[54] **REUSABLE PACK FOR PROMOTING REST, ICING, COMPRESSION, AND ELEVATION OF INJURED FINGER**
[54] **EMBALLAGE REUTILISABLE DESTINE A PROMOUVOIR LE REPOS, LE REFROIDISSEMENT, LA COMPRESSION ET L'ELEVATION D'UN DOIGT BLESSE**
[72] YADAV, PAAKHI K.S., CA
[71] YADAV, PAAKHI K.S., CA
[22] 2019-03-18
[41] 2019-05-23

---

[21] **3,043,417**
[13] A1
[51] **Int.Cl. E02F 5/10 (2006.01) B63B 21/66 (2006.01) B63B 27/00 (2006.01) B63B 35/00 (2006.01) B63C 11/52 (2006.01) E02F 5/12 (2006.01) E02F 5/14 (2006.01) E02F 5/28 (2006.01) F16L 1/12 (2006.01) H02G 1/10 (2006.01)**
[25] EN
[54] **A SEABED PLOW CAPABLE OF OVER-THE-STERN RELEASE AND RETRIEVAL IN ANY OF BOULDER CLEARING, TRENCHING AND BACKFILL CONFIGURATIONS**
[54] **CHARRUE POUR FOND MARIN APTE A ETRE MISE A L'EAU ET RECUPEREE PAR-DESSUS LA POUPE POUR DES OPERATIONS D'EVACUATION D'EBOULIS, DE CREUSEMENT DE TRANCHEES ET DE REMBLAYAGE**
[72] WILSON, MICHAEL W. N., GB
[71] ECOSSE SUBSEA SYSTEMS LIMITED, GB
[22] 2013-04-16
[41] 2014-06-05
[62] 2,892,034
[30] US (13/691,076) 2012-11-30

---

[21] **3,043,420**
[13] A1
[51] **Int.Cl. E02F 5/28 (2006.01) B63B 21/66 (2006.01) B63B 27/00 (2006.01) B63B 35/00 (2006.01) B63C 11/52 (2006.01) E02F 5/10 (2006.01) F16L 1/12 (2006.01) H02G 1/10 (2006.01)**
[25] EN
[54] **A SEABED PLOW CAPABLE OF OVER-THE-STERN RELEASE AND RETRIEVAL IN ANY OF BOULDER CLEARING, TRENCHING AND BACKFILL CONFIGURATIONS**
[54] **CHARRUE POUR FOND MARIN APTE A ETRE MISE A L'EAU ET RECUPEREE PAR-DESSUS LA POUPE POUR DES OPERATIONS D'EVACUATION D'EBOULIS, DE CREUSEMENT DE TRANCHEES ET DE REMBLAYAGE**
[72] WILSON, MICHAEL W. N., GB
[71] ECOSSE SUBSEA SYSTEMS LIMITED, GB
[22] 2013-04-16
[41] 2014-06-05
[62] 2,892,034
[30] US (13/691,076) 2012-11-30

---

[21] **3,043,573**
[13] A1
[51] **Int.Cl. C01B 32/15 (2017.01) C01B 32/158 (2017.01) C01B 32/168 (2017.01) C01B 32/182 (2017.01) C01B 32/194 (2017.01) B01J 21/18 (2006.01)**
[25] EN
[54] **FUNCTIONALIZED GRAPHITIC MATERIALS**
[54] **MATERIAUX GRAPHITIQUES FONCTIONNALISES**
[72] VIRTANEN, JORMA, US
[71] TESLA NANOCOATINGS, INC., US
[22] 2013-04-30
[41] 2014-08-28
[62] 2,901,726
[30] US (61/850,562) 2013-02-20

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,044,088**
[13] A1
[51] **Int.Cl. F03D 1/06 (2006.01) F03D 80/00 (2016.01)**
[25] EN
[54] **SERRATED TRAILING EDGE PANEL FOR A WIND TURBINE BLADE**
[54] **PANNEAU DE BORD DE FUITE DENTELE POUR PALE D'EOLIENNE**
[72] HOEG, JESPER, DK
[72] ANSHOLM RASMUSSEN, KIM, DK
[72] KILDEGAARD, CASPER, DK
[72] LEHMANN MADSEN, KRISTIAN, DK
[71] LM WP PATENT HOLDING A/S, DK
[22] 2017-02-07
[41] 2017-08-17
[62] 3,013,961
[30] EP (16155507.3) 2016-02-12

---

[21] **3,044,156**
[13] A1
[51] **Int.Cl. G06F 9/06 (2006.01) G06F 11/30 (2006.01)**
[25] EN
[54] **ADAPTIVE SERVICE TIMEOUTS**
[54] **DEPASSEMENTS DE DELAI DE SERVICE ADAPTATIFS**
[72] KRAEV, KALOYAN K., US
[71] AMAZON TECHNOLOGIES, INC., US
[22] 2013-09-17
[41] 2014-03-27
[62] 2,881,153
[30] US (13/622094) 2012-09-18

---

[21] **3,044,171**
[13] A1
[51] **Int.Cl. H01M 10/6563 (2014.01) H01M 10/613 (2014.01) H01M 10/625 (2014.01) H01M 10/6551 (2014.01) B60L 50/64 (2019.01) B60L 58/26 (2019.01) B60R 16/02 (2006.01) H01M 2/02 (2006.01) H02J 7/00 (2006.01) H05K 5/02 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **BATTERY ARRAY SAFETY COVER FOR AN ENERGY STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR VEHICULE ELECTRIQUE HYBRIDE**
[72] MASKEW, BRIAN J., US
[72] BENNETT, SCOTT K., US
[72] BAXTER, LEONARD F., II, US
[71] ALLISON TRANSMISSION, INC., US
[22] 2013-06-13
[41] 2013-12-19
[62] 2,876,695
[30] US (61/659215) 2012-06-13

---

[21] **3,044,172**
[13] A1
[51] **Int.Cl. G01K 1/16 (2006.01) H01M 10/613 (2014.01) H01M 10/625 (2014.01) H01M 10/6551 (2014.01) H01M 10/6563 (2014.01) B60L 50/64 (2019.01) B60L 58/26 (2019.01) G01K 1/14 (2006.01) H01M 2/02 (2006.01) H02J 7/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **COMPLIANT TIPPED THERMISTOR AND MOUNT FOR AN ENERGY STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR VEHICULE ELECTRIQUE HYBRIDE**
[72] MASKEW, BRIAN J., US
[72] BENNETT, SCOTT K., US
[72] BAXTER, LEONARD F., II, US
[71] ALLISON TRANSMISSION, INC., US
[22] 2013-06-13
[41] 2013-12-19
[62] 2,876,695
[30] US (61/659215) 2012-06-13

---

[21] **3,044,173**
[13] A1
[51] **Int.Cl. B60L 58/26 (2019.01) B60K 1/04 (2019.01) B60W 10/26 (2006.01)**
[25] EN
[54] **PINNED CELL ARRAY FOR AN ENERGY STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR VEHICULE ELECTRIQUE HYBRIDE**
[72] DELRYMPLE, DEREK A., US
[72] REYBURN, STEVEN T., US
[72] FORD, DEAN M., US
[72] JOHNSON, CLYDE H., US
[72] HOPKINS, RUSSELL B., US
[72] LAWRENCE, ROBERT A., US
[72] MILLER, BRUCE E., US
[71] ALLISON TRANSMISSION, INC., US
[22] 2013-06-13
[41] 2013-12-19
[62] 2,876,695
[30] US (61/659215) 2012-06-13

---

[21] **3,044,181**
[13] A1
[51] **Int.Cl. G06F 17/27 (2006.01) G06Q 30/02 (2012.01) G06F 16/903 (2019.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR SEARCHING OF CONTENT USING SEMANTIC SYNTHESIS**
[54] **PROCEDES ET APPAREIL DE RECHERCHE DE CONTENU A L'AIDE D'UNE SYNTHESE SE ANTIQUE**
[72] KHAN, NAIM, CA
[72] SWEENEY, PETER, CA
[72] GOOD, ROBERT, CA
[71] PRIMAL FUSION INC., CA
[22] 2011-06-22
[41] 2011-12-29
[62] 2,802,909

[21] **3,044,200**
[13] A1
[51] **Int.Cl. E01B 31/13 (2006.01) B23C 3/00 (2006.01) B23C 5/06 (2006.01) B23C 5/20 (2006.01)**
[25] EN
[54] **RAIL RE-PROFILING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE REPROFILAGE DE RAILS**
[72] HUGHES, DONALD R., US
[72] GREENLEAF, WILLIAM P., US
[72] GRABOWSKI, CHARLES D., US
[71] GREENLEAF TECHNOLOGY CORPORATION, US
[22] 2014-03-14
[41] 2014-09-25
[62] 2,905,065
[30] US (13/841,036) 2013-03-15

---

[21] **3,044,209**
[13] A1
[51] **Int.Cl. B60L 58/26 (2019.01) B60L 50/64 (2019.01) B60K 1/04 (2019.01) B60W 10/26 (2006.01) H02J 7/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **PLUG-IN BUSSED ELECTRICAL CENTER FOR AN ENERGY STORAGE MODULE**
[54]
[72] MASKEW, BRIAN J., US
[72] MORROW, BRIAN C., US
[72] GASAWAY, TIMOTHY A., US
[71] ALLISON TRANSMISSION, INC., US
[22] 2013-06-13
[41] 2013-12-19
[62] 2,876,695
[30] US (61/659215) 2012-06-13

---

[21] **3,044,212**
[13] A1
[51] **Int.Cl. B60L 58/26 (2019.01) B60L 50/64 (2019.01) B60K 1/04 (2019.01) B60W 10/26 (2006.01) H02J 7/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **ENERGY STORAGE SYSTEM FOR HYBRID ELECTRIC VEHICLE**
[54] **SYSTEME DE STOCKAGE D'ENERGIE POUR VEHICULE ELECTRIQUE HYBRIDE**
[72] BAILEY, FELICE E., US
[72] BASS, EDWARD, US
[72] BAXTER, LEONARD F., II, US
[72] BENNETT, SCOTT K., US
[72] BIEHL, KURT, US
[72] BLETSIS, RICHARD, US
[72] DELRYMPLE, DEREK A., US
[72] FORD, DEAN M., US
[72] GASAWAY, TIMOTHY A., US
[72] HOPKINS, RUSSELL B., US
[71] ALLISON TRANSMISSION, INC., US
[22] 2013-06-13
[41] 2013-12-19
[62] 2,876,695
[30] US (61/659,215) 2012-06-13

---

[21] **3,044,230**
[13] A1
[51] **Int.Cl. B62D 37/02 (2006.01) B62D 35/00 (2006.01)**
[25] EN
[54] **DRAG REDUCING DEVICE**
[54] **DISPOSITIF REDUISANT LA TRAINEE**
[72] MILLER, HUNTER, US
[72] TUERK, JAMES R., US
[72] VOGEL, JOHN, US
[71] AERO INDUSTRIES, INC., US
[22] 2017-10-05
[41] 2018-04-05
[62] 2,981,672
[30] US (62/404,289) 2016-10-05

---

[21] **3,044,262**
[13] A1
[51] **Int.Cl. C12N 15/12 (2006.01) C12Q 1/6813 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6886 (2018.01) C07K 14/47 (2006.01) C12N 15/11 (2006.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01)**
[25] EN
[54] **ABERRANT MITOCHONDRIAL DNA, ASSOCIATED FUSION TRANSCRIPTS AND HYBRIDIZATION PROBES THEREFOR**
[54] **ADN MITOCHONDRIAL ABERRANT, PRODUITS DE TRANSCRIPTION DE FUSION ASSOCIES ET SONDES D'HYBRIDATION POUR CELUI-CI**
[72] PARR, RYAN, US
[72] REGULY, BRIAN, US
[72] DAKUBO, GABRIEL, US
[72] CREED, JENNIFER, US
[72] ROBINSON, KERRY, US
[71] MDNA LIFE SCIENCES INC., US
[22] 2009-03-27
[41] 2009-10-01
[62] 2,719,718
[30] US (61/040,616) 2008-03-28

---

[21] **3,044,306**
[13] A1
[51] **Int.Cl. A61B 5/05 (2006.01)**
[25] EN
[54] **DIAGNOSTIC SYSTEM FOR DETECTION OF FLUID CHANGES**
[54] **SYSTEME DE DIAGNOSTIC POUR DETECTER DES CHANGEMENTS DANS UN FLUIDE**
[72] WYETH, RICHARD, US
[72] LEVINSON, MITCHELL, US
[71] CEREBROTECH MEDICAL SYSTEMS, INC., US
[22] 2013-01-18
[41] 2013-07-25
[62] 2,863,449
[30] US (61/588516) 2012-01-19

[21] **3,044,318**
[13] A1
[51] **Int.Cl. H05B 37/02 (2006.01)**
[25] EN
[54] **LOAD CONTROL DEVICE FOR CONTROLLING A DRIVER FOR A LIGHTING LOAD**
[54] **DISPOSITIF DE COMMANDE DE CHARGE POUR COMMANDER UN PILOTE D'UNE CHARGE D'ECLAIRAGE**
[72] STEINER, JAMES P., US
[72] COOPER, DANIEL G., US
[72] BEDELL, RYAN S., US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2015-07-29
[41] 2016-02-04
[62] 2,957,137
[30] US (62/059,180) 2014-10-03
[30] US (62/032,183) 2014-08-01

[21] **3,044,405**
[13] A1
[51] **Int.Cl. C12P 5/00 (2006.01) C12N 1/16 (2006.01) C12N 1/19 (2006.01) C12P 1/00 (2006.01) C12P 1/02 (2006.01) C12P 5/02 (2006.01) C12P 7/04 (2006.01) C12P 23/00 (2006.01)**
[25] EN
[54] **PRODUCTION OF ISOPRENOIDS**
[54] **PRODUCTION D'ISOPRENOIDES**
[72] LENIHAN, JACOB R., US
[72] REGENTIN, RIKA, US
[72] TSURUTA, HIROKO, US
[71] AMYRIS, INC., US
[22] 2008-09-19
[41] 2009-04-02
[62] 2,700,211
[30] US (60/994,790) 2007-09-20
[30] US (61/049,350) 2008-04-30

[21] **3,044,433**
[13] A1
[51] **Int.Cl. C12N 15/53 (2006.01) C12N 15/113 (2010.01) A01H 6/64 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 15/82 (2006.01) C12P 17/18 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **PLANT CYTOCHROME P450**
[54] **CYTOCHROME P450 VEGETAL**
[72] WINZER, THILO, GB
[72] WALKER, TRACY CAROL, GB
[72] GRAHAM, IAN ALEXANDER, GB
[71] SUN PHARMACEUTICAL INDUSTRIES (AUSTRALIA) PTY LTD, AU
[22] 2011-07-18
[41] 2012-01-26
[62] 2,803,137
[30] GB (1012262.0) 2010-07-22
[30] GB (1021707.3) 2010-12-22

[21] **3,044,439**
[13] A1
[51] **Int.Cl. C12N 15/53 (2006.01) C12N 15/113 (2010.01) A01H 6/64 (2018.01) C12Q 1/6813 (2018.01) A01H 5/00 (2018.01) C12N 1/19 (2006.01) C12N 5/10 (2006.01) C12N 9/02 (2006.01) C12N 15/80 (2006.01) C12N 15/82 (2006.01) C12P 17/18 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **PLANT CYTOCHROME P450**
[54] **CYTOCHROME P450 VEGETAL**
[72] WINZER, THILO, GB
[72] WALKER, TRACY CAROL, GB
[72] GRAHAM, IAN ALEXANDER, GB
[71] SUN PHARMACEUTICAL INDUSTRIES (AUSTRALIA) PTY LTD, AU
[22] 2011-07-18
[41] 2012-01-26
[62] 2,803,137
[30] GB (1012262.0) 2010-07-22
[30] GB (1021707.3) 2010-12-22

[21] **3,044,451**
[13] A1
[51] **Int.Cl. B64D 39/02 (2006.01) F41B 11/80 (2013.01) B64C 29/00 (2006.01) B64F 1/04 (2006.01)**
[25] EN
[54] **SYSTEM FOR DETACHABLY COUPLING AN UNMANNED AERIAL VEHICLE WITHIN A LAUNCH TUBE**
[54] **SYSTEME POUR COUPLER AMOVIBLE UN VEHICULE AERIEN SANS EQUIPAGE A L'INTERIEUR D'UN TUBE DE LANCEMENT**
[72] ANDRYUKOV, OLEKSANDR, US
[71] AEROVIRONMENT, INC., US
[22] 2013-06-07
[41] 2014-03-06
[62] 2,878,615
[30] US (61/656,949) 2012-06-07

[21] **3,044,458**
[13] A1
[51] **Int.Cl. A47B 57/00 (2006.01) A47B 45/00 (2006.01) A47B 96/06 (2006.01) A47B 96/14 (2006.01)**
[25] EN
[54] **SUPPORT APPARATUS**
[54] **APPAREIL DE SOUTIEN**
[72] CROWLEY, WILLIAM J., US
[71] QUICK-SLING, LLC, US
[22] 2012-10-16
[41] 2013-04-17
[62] 2,792,770
[30] US (13/274,763) 2011-10-17

[21] **3,044,568**
[13] A1
[51] **Int.Cl. A63B 59/70 (2015.01) B29C 70/34 (2006.01)**
[25] EN
[54] **CO-MOLDED, FOCUSED WEIGHTED, DIMPLE ARRAYED HOCKEY STICKS AND OTHER COMPOSITE STRUCTURES**
[54] **CROSSES DE HOCKEY A GROUPEMENTS DE BOSSES A POIDS CENTRE CO-MOULEES ET AUTRES STRUCTURES COMPOSITES**
[72] ALLEN, PATRICK, CA
[72] GOLDSMITH, EDWARD, US
[72] IE, CITRA, US
[72] SNOW, MICHAEL, US
[72] MOUNTAIN, MICHAEL, US
[71] BAUER HOCKEY LTD., CA
[22] 2011-07-15
[41] 2012-01-26
[62] 2,806,169
[30] US (61/367,332) 2010-07-23

[21] **3,044,581**
[13] A1
[51] **Int.Cl. D21F 1/32 (2006.01)**
[25] EN
[54] **A PROCESS FOR CLEANING A TRANSPORT BELT FOR MANUFACTURING A PAPER WEB**
[54] **TRAITEMENT DE NETTOYAGE D'UNE COURROIE DE TRANSPORT SERVANT A LA FABRICATION D'UNE BANDE DE PAPIER**
[72] HUNTER, MARK S., US
[72] BAUMGARTNER, DEAN J., US
[72] RAINES, DAVID DREW, US
[72] KENNEDY, THEODORE D., US
[72] VELDHUIZEN, DAVID S., US
[72] BUSCH, GLENN W., US
[72] EDBAUER, MITCHELL S., US
[71] GPCP IP HOLDINGS LLC, US
[22] 2013-03-21
[41] 2013-10-17
[62] 2,863,397
[30] US (61/622,622) 2012-04-11
[30] US (13/799,721) 2013-03-13

[21] **3,044,585**
[13] A1
[51] **Int.Cl. H02P 27/04 (2016.01) H02P 5/74 (2006.01)**
[25] EN
[54] **VARIABLE FREQUENCY DRIVE MOTOR CONTROL**
[54] **COMMANDE DE MOTEUR D'ENTRAINEMENT A FREQUENCE VARIABLE**
[72] RATTAN, WARREN NEIL, US
[72] NEAL, CHARLES EDWARD, III, US
[72] FUNKHOUSER, JAMES DOUGLAS, US
[72] WILLIAMS, DEREK, US
[72] CLINE, GARY LEE, US
[72] ABEL, DEREK JAMES, US
[72] BACHMAN, TROY DALE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2015-09-02
[41] 2017-03-09
[62] 2,994,546

[21] **3,044,652**
[13] A1
[51] **Int.Cl. G01F 15/00 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01) B29C 45/00 (2006.01) H01R 13/24 (2006.01) H05K 1/18 (2006.01)**
[25] EN
[54] **FLOW SENSOR SYSTEM INCLUDING SPRING CONTACTS**
[54] **SYSTEME CAPTEUR DE FLUX CONTENANT DES CONTACTS A RESSORT**
[72] DEKALB, SHAWN WAYNE, US
[72] RAPTIS, MARK, US
[71] CRISI MEDICAL SYSTEMS, INC., US
[22] 2016-08-25
[41] 2017-03-09
[62] 2,995,009
[30] US (62/211,116) 2015-08-28

[21] **3,044,748**
[13] A1
[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/151 (2006.01) A61J 1/05 (2006.01)**
[25] EN
[54] **BLOOD SAMPLE MANAGEMENT USING OPEN CELL FOAM**
[54] **GESTION D'ECHANTILLON DE SANG A L'AIDE DE PLASTIQUE A ALVEOLES OUVERTS**
[72] IVOSEVIC, MILAN, US
[72] WILKINSON, BRADLEY M., US
[72] NEWBY, C. MARK, US
[72] BOKKA SRINIVASA RAO, KISHORE K., US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2015-09-22
[41] 2016-04-21
[62] 2,960,313
[30] US (62/063,536) 2014-10-14
[30] US (62/207,618) 2015-08-20

[21] **3,044,757**
[13] A1
[51] **Int.Cl. G05B 19/042 (2006.01) F24F 11/52 (2018.01) G05D 23/19 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **USER-FRIENDLY, NETWORK CONNECTED LEARNING THERMOSTAT AND RELATED SYSTEMS AND METHODS**
[54] **THERMOSTAT A APPRENTISSAGE CONVIVIAL RELIE AU RESEAU, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] FADELL, ANTHONY, US
[72] ROGERS, MATTHEW, US
[72] SATTERTHWAITE, EDWIN, US
[72] SMITH, IAN, US
[72] WARREN, DANIEL, US
[72] PALMER, JOSEPH, US
[72] HONJO, SHIGEFUMI, US
[72] ERICKSON, GRANT, US
[72] DUTRA, JONATHON, US
[72] FIENNES, HUGO, US
[71] GOOGLE LLC, US
[22] 2012-03-22
[41] 2013-04-25
[62] 2,853,033
[30] US (61/627,996) 2011-10-21

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,044,778**
[13] A1
[51] **Int.Cl. A61M 16/20 (2006.01) A61M 16/00 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **SYSTEM, APPARATUS AND METHODS FOR SUPPLYING GASES**
[54] **SYSTEME, APPAREIL ET PROCEDES D'APPROVISIONNEMENT EN GAZ**
[72] ARROWSMITH, MARK JOHN, NZ
[72] KURIGER, DONALD ROY, NZ
[72] RAPOPORT, DAVID M., US
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2011-12-02
[41] 2012-06-07
[62] 2,819,647
[30] US (61/419,421) 2010-12-03

[21] **3,044,795**
[13] A1
[51] **Int.Cl. C07K 14/665 (2006.01) C07K 7/06 (2006.01) C07K 14/575 (2006.01) C07K 14/72 (2006.01)**
[25] EN
[54] **MELANOCORTIN RECEPTOR LIGANDS**
[54] **LIGANDS DES RECEPTEURS DE LA MELANOCORTINE**
[72] DONG, ZHENG XIN, US
[72] MOREAU, JACQUES-PIERRE, US
[71] IPSEN PHARMA S.A.S., FR
[22] 2006-07-10
[41] 2007-01-18
[62] 2,793,119
[30] US (60/697,779) 2005-07-08
[30] US (60/748,850) 2005-12-09

[21] **3,044,827**
[13] A1
[51] **Int.Cl. A61M 5/158 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **INSERTION MECHANISM FOR A DRUG DELIVERY PUMP**
[54] **MECANISME D'INSERTION POUR UNE POMPE D'ADMINISTRATION DE MEDICAMENTS**
[72] O'CONNOR, SEAN M., US
[72] DECKER, ROBERT, US
[72] SHETTY, GAUTAM N., US
[72] DESTEFANO, MARK A., US
[72] HANSON, IAN B., US
[71] UNITRACT SYRINGE PTY LTD, AU
[22] 2012-08-30
[41] 2013-03-07
[62] 2,845,379
[30] US (61/530,774) 2011-09-02

[21] **3,044,828**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) C12Q 1/00 (2006.01) C12Q 1/34 (2006.01)**
[25] EN
[54] **TEMPERATURE ADJUSTED ANALYTE DETERMINATION FOR BIOSENSOR SYSTEMS**
[54] **DETERMINATION D'ANALYTE AJUSTEE A UNE TEMPERATURE POUR DES SYSTEMES BIOCAPTEURS**
[72] WU, HUAN-PING, US
[72] NELSON, CHRISTINE D., US
[71] ASCENSIA DIABETES CARE HOLDINGS AG, CH
[22] 2007-02-23
[41] 2007-09-07
[62] 2,643,163
[30] US (60/776,986) 2006-02-27

[21] **3,044,829**
[13] A1
[51] **Int.Cl. B65D 33/16 (2006.01) B65D 33/00 (2006.01) B65D 33/24 (2006.01) B65D 33/25 (2006.01) B65D 88/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ENCLOSING**
[54] **PROCEDE ET APPAREIL D'ENFERMEMENT**
[72] CAHOON, JEFFREY, US
[72] METIVIER, DENISE, US
[71] UNITED SOURCES SOUGHT, INC., US
[22] 2016-10-26
[41] 2017-05-04
[62] 3,003,328
[30] US (14/924,267) 2015-10-27
[30] US (15/222,291) 2016-07-28

[21] **3,044,873**
[13] A1
[51] **Int.Cl. G06Q 30/08 (2012.01) G06Q 40/04 (2012.01) G06Q 50/06 (2012.01)**
[25] EN
[54] **FORWARD-LOOKING TRANSACTIVE PRICING SCHEMES FOR USE IN A MARKET-BASED RESOURCE ALLOCATION SYSTEM**
[54] **SCHEMAS TRANSACTIFS PROSPECTIFS D'ETABLISSEMENT DE PRIX A UTILISER DANS UN SYSTEME D'ALLOCATION DE RESSOURCES REPOSANT SUR LE MARCHE**
[72] CHASSIN, DAVID P., US
[72] FULLER, JASON C., US
[72] PRATT, ROBERT G., US
[72] KUMAR, NIRUPAMA PRAKASH, US
[72] FISHER, ANDREW R., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[22] 2012-04-20
[41] 2012-11-01
[62] 2,834,085
[30] US (13/096682) 2011-04-28

[21] **3,044,893**
[13] A1
[51] **Int.Cl. A63G 3/02 (2006.01) A63G 31/00 (2006.01)**
[25] EN
[54] **WATER RIDE FLOTATION DEVICE DISPENSER**
[54] **DISTRIBUTEUR DE DISPOSITIF DE FLOTTAISON POUR PROMENADE AQUATIQUE**
[72] SCHWARTZ, JUSTIN MICHAEL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[22] 2016-10-18
[41] 2017-04-27
[62] 3,002,734
[30] US (14/920,654) 2015-10-22

[21] **3,044,964**
[13] A1
[51] **Int.Cl. G01S 5/18 (2006.01) B63G 8/39 (2006.01) G01S 15/89 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SYNTHETIC APERTURE SONAR**
[54] **SYSTEMES ET PROCEDES POUR UN SONAR A SYNTHESE D'OUVERTURE**
[72] RIKOSKI, RICHARD J., US
[71] HADAL, INC., US
[22] 2012-05-07
[41] 2012-11-15
[62] 2,835,239
[30] US (61/483549) 2011-05-06

[21] **3,044,967**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61B 5/08 (2006.01) A61F 5/56 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **AUTOTITRATING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'AUTOTITRAGE**
[72] GRADON, LEWIS GEORGE, NZ
[72] WHITING, DAVID ROBIN, NZ
[72] GERRED, ANDREW GORDON, NZ
[72] SMITH, GREGORY MARTYN, NZ
[72] ANDERSON, FIONA ELIZABETH, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[22] 2005-08-06
[41] 2006-02-09
[62] 2,914,743
[30] US (60/599,356) 2004-08-06

[21] **3,044,970**
[13] A1
[51] **Int.Cl. G01S 15/89 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SYNTHETIC APERTURE SONAR**
[54] **SYSTEMES ET PROCEDES POUR UN SONAR A SYNTHESE D'OUVERTURE**
[72] RIKOSKI, RICHARD J., US
[71] HADAL, INC., US
[22] 2012-05-07
[41] 2012-11-15
[62] 2,835,239
[30] US (61/483549) 2011-05-06

[21] **3,044,980**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/115 (2010.01) A61K 47/51 (2017.01) A61K 31/713 (2006.01) C12N 15/11 (2006.01) C12N 15/87 (2006.01) C07H 21/00 (2006.01)**
[25] EN
[54] **SITE-SPECIFIC DELIVERY OF NUCLEIC ACIDS BY COMBINING TARGETING LIGANDS WITH ENDOSOMOLYTIC COMPONENTS**
[54] **DELIVRANCE SPECIFIQUE A UN SITE D'ACIDES NUCLEIQUES EN COMBINANT DES LIGANDS DE CIBLAGE AVEC DES COMPOSANTS ENDOSOMOLYTIQUES**
[72] MANOHARAN, MUTHIAH, US
[72] RAJEEV, KALLANTHOTTATHIL G., US
[72] BUTLER, DAVID, US
[72] JAYARAMAN, MUTHUSAMY, US
[72] NARAYANANNAIR, JAYAPRAKASH K., US
[72] MATSUDA, SHIGEO, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[22] 2009-04-10
[41] 2009-10-15
[62] 2,721,183
[30] US (61/044,186) 2008-04-11

[21] **3,044,983**
[13] A1
[51] **Int.Cl. G10L 19/09 (2013.01)**
[25] EN
[54] **AUDIO CODING DEVICE, AUDIO CODING METHOD, AUDIO CODING PROGRAM, AUDIO DECODING DEVICE, AUDIO DECODING METHOD, AND AUDIO DECODING PROGRAM**
[54] **DISPOSITIF DE CODAGE AUDIO, PROCEDE DE CODAGE AUDIO, PROGRAMME DE CODAGE AUDIO, DISPOSITIF DE DECODAGE AUDIO, PROCEDE DE DECODAGE AUDIO ET PROGRAMME DE DECODAGE AUDIO**
[72] TSUTSUMI, KIMITAKA, JP
[72] KIKUIRA, KEI, JP
[72] YAMAGUICHI, ATSUSHI, JP
[71] NTT DOCOMO, INC., JP
[22] 2013-11-12
[41] 2014-05-22
[62] 2,886,140
[30] JP (2012-251646) 2012-11-15

[21] **3,044,992**
[13] A1
[51] **Int.Cl. G01R 23/12 (2006.01)**
[25] EN
[54] **FREQUENCY DETERMINATION CIRCUIT AND METHOD**
[54] **CIRCUIT ET PROCEDE DE DETERMINATION DE FREQUENCE**
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[72] HAMDANE, WALID, CA
[71] NANOWAVE TECHNOLOGIES INC., CA
[22] 2013-07-08
[41] 2014-01-23
[62] 2,879,226
[30] US (13/549,708) 2012-07-16

[21] **3,044,997**
[13] A1
[51] **Int.Cl. A45D 29/00 (2006.01) A45D 29/11 (2006.01) A45D 34/04 (2006.01) A45D 44/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR APPLYING COATING TO NAILS**
[54] **APPAREIL D'APPLICATION D'UNE COUCHE SUR LES ONGLES**
[72] PETERSON, JANET, US
[72] PETERSON, PETER, US
[72] SCHULZ, CASEY KUTE, US
[72] BOGGAVARAPU, DEEPAK, US
[72] WALIA, HERPREET SINGH, US
[71] PREEMADONNA INC., US
[22] 2015-04-27
[41] 2016-01-28
[62] 2,955,640
[30] US (62/028,233) 2014-07-23
[30] US (14/468,239) 2014-08-25

Index of Canadian Patents Issued

June 25, 2019

Index des brevets canadiens délivrés

25 juin 2019

Index des brevets canadiens délivrés
25 juin 2019

Index of Canadian Patents Issued
June 25, 2019

Index des brevets canadiens délivrés
25 juin 2019

Index des brevets canadiens délivrés
25 juin 2019

Index of Canadian Patents Issued
June 25, 2019

Index of Canadian Patents Issued
June 25, 2019

Index of Canadian Applications Open to Public Inspection

June 9, 2019 to June 15, 2019

Index des demandes canadiennes mises à la disponibilité du public

9 juin 2019 au 15 juin 2019

Index des demandes canadiennes mises à la disponibilité du public
9 juin 2019 au 15 juin 2019

Index of Canadian Applications Open to Public Inspection
June 9, 2019 to June 15, 2019

Index des demandes canadiennes mises à la disponibilité du public
9 juin 2019 au 15 juin 2019

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection