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La Gazette

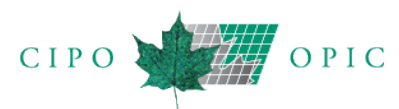
du Bureau des brevets



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Canada



THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

- [11] - Number of Patent document
- [13] - Kind-of-document code
- [21] - Number assigned to the Application
- [22] - Date of Filing Application or
- [22] - Date of filing of related divisional application
- [25] - Language in which the published application was originally filed
- [30] - Data relating to priority under the Paris Convention

- [41] - Open to Public Inspection Date
- [45] - Date of Issue
- [48] - Correction Date (Re-Issued, Re-Examined)
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

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

Dates

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

Chiffres de code

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

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

- [11] - Numéro du brevet
- [13] - Désignation du type de document
- [21] - Numéro attribué à la demande
- [22] - Date du dépôt de la demande ou
- [22] - Date du dépôt de la demande divisionnaire apparentée
- [25] - Langue dans laquelle la demande publiée a été initialement déposée
- [30] - Données relatives à la priorité selon la Convention de Paris

- [41] - Date de mise à la disponibilité du public
- [45] - Date de délivrance
- [48] - Date de correction (Redélivrance, Réexamen)
- [51] - Classification internationale
- [52] - Classification nationale
- [54] - Titre de l'invention
- [60] - Apparenté par divulgation supplémentaire
- [62] - Apparenté par division
- [64] - Apparenté par redélivrance
- [71] - Nom(s) du (des) demandeur(s)
- [72] - Nom(s) de(s) l'inventeur(s)
- [73] - Nom(s) du (des) titulaire(s)
- [85] - Date d'entrée en phase nationale
- [86] - Données du dépôt international selon le PCT
- [87] - Données de publication internationale selon le PCT

2. Country Code

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

2. Code des pays

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

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

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

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

6. Licensing of Patents

Voluntary Licences

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

Compulsory Licences

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

7. Patents Available for Licence or Sale

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

8. List of Patents Available for Licence or Sale

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

None

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Octroi de licences en vertu des brevets

Licences librement accordées

Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires

Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

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

10. Language of Published Documents

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

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	\$300
2. International Filing Fee	\$1961*
For each additional sheet over 30	\$22
3. International Search Fee	\$1600

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

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

9. Demandes mises à la disponibilité du public

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

10. Langue du document publié

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

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	300 \$
2. Taxe de dépôt internationale	1961 \$*
Pour chaque feuille au delà de 30	22 \$
3. Taxe de recherche internationale	1600 \$

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

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

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

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

4. Late payment fee

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

4. Taxe pour paiement tardif

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

Preliminary Examination

Examen préliminaire

5. Handling fee (Rule 57.2(a)) \$295

5. Taxe de traitement (Règle 57.2a) 295 \$

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

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

* International fees will be reduced by:

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

* Les frais seront réduits de:

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

12. PCT Notices

12. Avis PCT

Patent Cooperation Treaty (PCT)

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

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

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

or by "E-mail" (publications.mail@wipo.int) or visit their Web site (www.wipo.int).

ou par courriel (publications.mail@wipo.int) ou visiter leur site Web (www.wipo.int).

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

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

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

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

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

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

14. Correspondence Procedures

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

Web Link for MOPOP:

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

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

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

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

Publication date: May 10, 2017

Amendment date: June 17, 2019

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2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
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14. Procédures de correspondance

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

Lien Web pour le RPBB :

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

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

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

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

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

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4. Renseignements généraux
5. Prorogation des délais
6. Procédures en cas de fermeture imprévue des bureaux de l'OPIC

Avis

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

- Innovation, Science and Economic Development
Canada
Canada Place
9700 Jasper Avenue, Suite 725
Edmonton AB T5J 4C3
Tel.: 780-495-4782
Toll-free: 1-800-461-2646

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

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

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

l'exception des jours fériés

- Innovation, Sciences et Développement économique
Canada
Canada Place
9700, avenue Jasper, pièce 725
Edmonton (Alberta) T5J 4C3
Tél. : 780-495-4782
Sans frais : 1-800-461-2646

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

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

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

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

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

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

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

1.2. Services Courrier recommandé^{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

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

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

2. Electronic Correspondence

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

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

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

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

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

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

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^{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. Correspondance électronique

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

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

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

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

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

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open for business.

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

Notices

Patents

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

2.2 Online

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

Patents

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

Trademarks

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

Brevets

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

2.2 En ligne

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

Brevets

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

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

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

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

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

Marques de commerce

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

Avis

accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

Copyright

:

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

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

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

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

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

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

Droits d'auteur

Notices

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

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

Industrial Designs

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

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

Integrated Circuit Topographies

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

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

2.3 Electronic medium

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

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

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

Dessins industriels

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

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

Topographies de circuits intégrés

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

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

Trademarks

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

Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Marques de commerce

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

Dessins industriels

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

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

Notices

4. General Information

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

5. Time Period Extensions

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

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

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

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

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

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

4. Renseignements généraux

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé^{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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

Notices

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

8. Intellectual property acts, rules and regulations

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

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

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

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

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

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

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

Marques de commerce

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

Avis

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of July 12, 2022 contains applications open to public inspection from June 26, 2022 to July 2, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 12 juillet 2022 contient les demandes disponibles au public pour consultation pour la période du 26 juin 2022 au 2 juillet 2022.

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2584524**
Issued: 2012-02-07
Present Owner: ENDORECHERCHE, INC

Title: **SEX STEROID PRECURSORS ALONE OR IN COMBINATION WITH A SELECTIVE ESTROGEN RECEPTOR MODULATOR AND/OR WITH ESTROGEN AND/OR A TYPE 5 CGMP PHOSPHODIESTERASE INHIBITOR FOR THE PREVENTION AND TREATMENT OF VAGINAL DRYNESS AND SEXUAL DYSFUNCTION IN POSTMENOPAUSAL WOMEN**

Subject to the terms of this document, ENDORECHERCHE, INC, as the owner of Canadian Patent No. 2,584,524, entitled "SEX STEROID PRECURSORS ALONE OR IN COMBINATION WITH A SELECTIVE ESTROGEN RECEPTOR MODULATOR AND/OR WITH ESTROGEN AND/OR A TYPE 5 CGMP PHOSPHODIESTERASE INHIBITOR FOR THE PREVENTION AND TREATMENT OF VAGINAL DRYNESS AND SEXUAL DYSFUNCTION IN POSTMENOPAUSAL WOMEN" (inventors Berger, Louise; El-Alfy, Mohamed; Labrie, Fernand) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,584,524 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,584,524 is made without any prejudice to the rights of ENDORECHERCHE, INC in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,584,524 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,584,524.

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

SIGNED at Quebec, Quebec, Canada this 5th day of April 2022

[signature]

Name: M^{re} Benoit Dancause,
Title: Notary Public

16. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2584524**
Delivré : 2012-02-07
Titulaire actuel : ENDORECHERCHE, INC

Titre : **PRÉCURSEURS DE STÉROÏDE SEXUEL, SEULS OU COMBINÉS À UN MODULATEUR DE RÉCEPTEUR D'ŒSTROGÈNE SÉLECTIF ET/OU À DES ŒSTROGÈNES ET/OU À UN INHIBITEUR DE PHOSPHODIESTÉRISE DE TYPE 5 CGMP, POUR PRÉVENIR ET TRAITER LA SÉCHERESSE VAGINALE ET LES DYSFONCTIONNEMENTS SEXUELS CHEZ LA FEMME POSTMÉNOPAUSÉE**

Par la présente et sous réserve des dispositions du présent document, ENDORECHERCHE, INC, à titre de propriétaire du brevet canadien no 2,584,524, intitulé «PRÉCURSEURS DE STÉROÏDE SEXUEL, SEULS OU COMBINÉS À UN MODULATEUR DE RÉCEPTEUR D'ŒSTROGÈNE SÉLECTIF ET/OU À DES ŒSTROGÈNES ET/OU À UN INHIBITEUR DE PHOSPHODIESTÉRISE DE TYPE 5 CGMP, POUR PRÉVENIR ET TRAITER LA SÉCHERESSE VAGINALE ET LES DYSFONCTIONNEMENTS SEXUELS CHEZ LA FEMME POSTMÉNOPAUSÉE» (inventeurs Berger, Louise; El-Alfy, Mohamed; Labrie, Fernand) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,584,524 pour toute la durée du brevet.

La présente cession du brevet canadien no 2,584,524 se fait sans préjudice des droits ENDORECHERCHE, INC sur l'ensemble des brevets et des demandes de brevet en instance. La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,584,524 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,584,524.

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

SIGNÉ à Québec, au Québec, au Canada, ce 5^e jour du mois d'avril 2022

[signature]

Nom : M^e Benoit Dancause,
Titre : Notaire

17. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2696127**
Issued: 2017-06-06
Present Owner: ENDORECHERCHE, INC

Title: **DHEA COMPOSITIONS FOR TREATING
MENOPAUSE**

Subject to the terms of this document, ENDORECHERCHE, INC, as the owner of Canadian Patent No. 2,696,127, entitled "DHEA COMPOSITIONS FOR TREATING MENOPAUSE" (inventor Labrie, Fernand) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,696,127 for the entirety of the term of the Patent. The present dedication of the Canadian Patent No. 2,696,127 is made without any prejudice to the rights of ENDORECHERCHE, INC in and to any other patent or pending patent applications. The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,696,127 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,696,127. The patentee, ENDORECHERCHE, INC, also requests that this dedication be registered and recorded in all relevant places in the Patent Office, to provide notice of its dedication to the public, including its attachment to any printed copies of the Canadian patent which may hereinafter be distributed to the public.

SIGNED at Quebec, Quebec, Canada this 5th day of April 2022

[signature]
Name: Mtre Benoit Dancause,
Title: Notary Public

17. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2696127**
Delivré : 2017-06-06
Titulaire actuel : ENDORECHERCHE, INC

Titre: **COMPOSITIONS DE DHEA POUR TRAITER LA
MÉNOPAUSE**

Par la présente et sous réserve des dispositions du présent document, ENDORECHERCHE, INC, à titre de propriétaire du brevet canadien no 2,696,127, intitulé «COMPOSITIONS DE DHEA POUR TRAITER LA MÉNOPAUSE» (inventeur Labrie, Fernand) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,696,127 pour toute la durée du brevet. La présente cession du brevet canadien no 2,696,127 se fait sans préjudice des droits ENDORECHERCHE, INC sur l'ensemble des brevets et des demandes de brevet en instance. La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,696,127 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,696,127. Le breveté, ENDORECHERCHE, INC demande également que la présente cession soit enregistrée et inscrite dans tous les lieux et registres pertinents du Bureau des brevets, afin qu'un avis public soit donné de la cession du brevet, en englobant tout lien avec des copies papier du brevet canadien qui pourraient être transmises au public après cette date.

SIGNÉ à Québec, au Québec, au Canada, ce 5^e jour du mois d'avril 2022

[signature]
Nom : M^e Benoit Dancause,
Titre : Notaire

18. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. 2749235
Issued: 2014-08-12
Present Owner: ENDORECHERCHE, INC

Title: SEX STEROID PRECURSORS ALONE OR IN COMBINATION WITH A SELECTIVE ESTROGEN RECEPTOR MODULATOR AND/OR WITH ESTROGEN AND/OR A TYPE 5 CGMP PHOSPHODIESTERASE INHIBITOR FOR THE PREVENTION AND TREATMENT OF VAGINAL DRYNESS AND SEXUAL DYSFUNCTION IN POSTMENOPAUSAL WOMEN

Subject to the terms of this document, ENDORECHERCHE, INC, as the owner of Canadian Patent No. 2,749,235, entitled "SEX STEROID PRECURSORS ALONE OR IN COMBINATION WITH A SELECTIVE ESTROGEN RECEPTOR MODULATOR AND/OR WITH ESTROGEN AND/OR A TYPE 5 CGMP PHOSPHODIESTERASE INHIBITOR FOR THE PREVENTION AND TREATMENT OF VAGINAL DRYNESS AND SEXUAL DYSFUNCTION IN POSTMENOPAUSAL WOMEN" (inventor Berger, Louise; El-Alfy, Mohamed; Labrie, Fernand) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,749,235 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,749,235 is made without any prejudice to the rights of ENDORECHERCHE, INC in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,749,235 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,749,235.

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

SIGNED at Quebec, Quebec, Canada this 5th day of April 2022

[signature]

Name: Mtre Benoit Dancause,
Title: Notary Public

18. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: 2749235
Delivré : 2014-08-12
Titulaire actuel : ENDORECHERCHE, INC

Titre: PRÉCURSEURS DE STÉROÏDE SEXUEL, SEULS OU COMBINÉS À UN MODULATEUR DE RÉCEPTEUR D'ŒSTROGÈNE SÉLECTIF ET/OU À DES ŒSTROGÈNES ET/OU À UN INHIBITEUR DE PHOSPHODIESTÉRASE DE TYPE 5 CGMP, POUR PRÉVENIR ET TRAITER LA SÉCHERESSE VAGINALE ET LES DYSFONCTIONNEMENTS SEXUELS CHEZ LA FEMME POSTMÉNOPAUSÉE

Par la présente et sous réserve des dispositions du présent document, ENDORECHERCHE, INC, à titre de propriétaire du brevet canadien no 2,749,235, intitulé «PRÉCURSEURS DE STÉROÏDE SEXUEL, SEULS OU COMBINÉS À UN MODULATEUR DE RÉCEPTEUR D'ŒSTROGÈNE SÉLECTIF ET/OU À DES ŒSTROGÈNES ET/OU À UN INHIBITEUR DE PHOSPHODIESTÉRASE DE TYPE 5 CGMP, POUR PRÉVENIR ET TRAITER LA SÉCHERESSE VAGINALE ET LES DYSFONCTIONNEMENTS SEXUELS CHEZ LA FEMME POSTMÉNOPAUSÉE» (inventeur Berger, Louise; El-Alfy, Mohamed; Labrie, Fernand) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,749,235 pour toute la durée du brevet.

La présente cession du brevet canadien no 2,749,235 se fait sans préjudice des droits ENDORECHERCHE, INC sur l'ensemble des brevets et des demandes de brevet en instance. La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,749,235 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,749,235.

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

SIGNÉ à Québec, au Québec, au Canada, ce 5^e jour du mois d'avril 2022

[signature]

Nom : M^e Benoit Dancause,
Titre : Notaire

19. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent No. **2820566**
Issued: 2016-09-13
Present Owner: ENDORECHERCHE, INC.

Title: **DHEA COMPOSITIONS FOR TREATING
MENOPAUSE**

Subject to the terms of this document, ENDORECHERCHE, INC, as the owner of Canadian Patent No. 2,820,566 entitled "DHEA COMPOSITIONS FOR TREATING MENOPAUSE" (inventor Labrie, Fernand) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,820,566 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,820,566 is made without any prejudice to the rights of ENDORECHERCHE, INC in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,820,566 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,820,566.

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

SIGNED at Quebec, Quebec, Canada this 5th day of April 2022

[signature]

Name: Mtre Benoit Dancause
Title: Notary Public

19. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien no: **2820566**
Delivré : 2016-09-13
Titulaire actuel : ENDORECHERCHE, INC.

Titre: **COMPOSITIONS DE DHEA POUR TRAITER LA
MÉNOPAUSE**

Par la présente et sous réserve des dispositions du présent document, ENDORECHERCHE, INC, à titre de propriétaire du brevet canadien no 2,820,566, intitulé «COMPOSITIONS DE DHEA POUR TRAITER LA MÉNOPAUSE» (inventeur Labrie, Fernand) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,820,566 pour toute la durée du brevet.

La présente cession du brevet canadien no 2,820,566 se fait sans préjudice des droits ENDORECHERCHE, INC sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,820,566 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,820,566.

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

SIGNÉ à Québec, au Québec, au Canada, ce 5^e jour du mois d'avril 2022

[signature]

Nom : M^e Benoit Dancause
Titre : Notaire

Canadian Patents Issued

July 12, 2022

Brevets canadiens délivrés

12 juillet 2022

[11] **2,632,528**
[13] C

[51] **Int.Cl. C07K 1/34 (2006.01) A61K 38/43 (2006.01) A61P 25/00 (2006.01) C07K 1/36 (2006.01) C12N 9/00 (2006.01)**

[25] EN

[54] **A PROCESS FOR CONCENTRATION OF A POLYPEPTIDE**

[54] **PROCEDE DE CONCENTRATION D'UN POLYPEPTIDE**

[72] NILSSON, STEFAN, SE

[73] TAKEDA PHARMACEUTICALS COMPANY LIMITED, JP

[85] 2008-05-30

[86] 2007-04-04 (PCT/DK2007/000177)

[87] (WO2007/112757)

[30] DK (PA 2006 00488) 2006-04-04

[30] DK (PA 2006 00922) 2006-07-05

[11] **2,635,560**
[13] C

[51] **Int.Cl. C07K 14/08 (2006.01) A61K 39/21 (2006.01) C07K 16/10 (2006.01) C12N 7/00 (2006.01) C12N 15/40 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **CHICKEN VIRUS VACCINE AND DIAGNOSTIC**

[54] **VACCIN A BASE DE VIRUS DE POULET ET DIAGNOSTIC**

[72] TODD, DANIEL, GB

[72] ADAIR, BRIAN, GB

[72] WYLIE, MILDRED, GB

[72] BALL, NERIS, GB

[73] THE QUEEN'S UNIVERSITY OF BELFAST, GB

[85] 2008-07-04

[86] 2007-01-04 (PCT/GB2007/050005)

[87] (WO2007/077464)

[30] GB (0600081.4) 2006-01-04

[11] **2,710,061**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 38/00 (2006.01) C07K 7/00 (2006.01)**

[25] EN

[54] **RHOC-BASED IMMUNOTHERAPY**

[54] **IMMUNOTHERAPIE BASEE SUR LA RHOC**

[72] ANDERSEN, MADSD HALD, DK

[72] STRATEN, PER THOR, DK

[73] RHOVAC APS, DK

[85] 2010-06-18

[86] 2008-12-18 (PCT/DK2008/050324)

[87] (WO2009/076966)

[30] DK (PA 2007 01844) 2007-12-19

[11] **2,731,212**
[13] C

[51] **Int.Cl. G01N 27/26 (2006.01) A01J 5/00 (2006.01) G01N 33/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF DETECTING DISEASE IN MAMMAL**

[54] **SYSTEME ET PROCEDE DE DETECTION D'UNE MALADIE CHEZ UN MAMMIFERE**

[72] HOEY, MICHAEL, US

[73] AGRICULTURAL SOLUTIONS, INC., US

[85] 2011-01-18

[86] 2009-07-20 (PCT/US2009/004192)

[87] (WO2010/008606)

[30] US (61/135,296) 2008-07-18

[11] **2,733,865**
[13] C

[51] **Int.Cl. B01J 35/00 (2006.01) B01J 23/46 (2006.01) C01G 55/00 (2006.01)**

[25] EN

[54] **CATALYTIC HYDROGEL**

[54] **HYDROGEL CATALYTIQUE**

[72] NAYLOR, DONALD ROBERT, CA

[72] HUFF, SEAN PATRICK, CA

[73] NEAH POWER SYSTEMS, INC., US

[86] (2733865)

[87] (2733865)

[22] 2011-03-04

[11] **2,736,245**
[13] C

[51] **Int.Cl. A61K 31/454 (2006.01) A61K 31/137 (2006.01) A61K 31/138 (2006.01) A61K 31/439 (2006.01) A61K 31/4525 (2006.01) A61K 49/00 (2006.01) A61P 25/00 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **METHODS FOR THE ADMINISTRATION OF ILOPERIDONE**

[54] **METHODES D'ADMINISTRATION D'ILOPERIDONE**

[72] WOLFGANG, CURT, US

[72] POLYMEROPOULOS, MIHAEL, US

[72] LAVEDAN, CHRISTIAN, US

[72] VOLPI, SIMONA, US

[73] VANDA PHARMACEUTICALS, INC., US

[85] 2011-03-04

[86] 2009-09-10 (PCT/US2009/056517)

[87] (WO2010/030783)

[30] US (12/208,027) 2008-09-10

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[11] **2,745,329**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 5/071 (2010.01) A61K 31/7088 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 31/713 (2006.01) C12N 15/00 (2006.01) C12N 15/12 (2006.01) C12N 15/85 (2006.01) C07K 14/505 (2006.01)**

[25] EN

[54] **TREATMENT OF ERYTHROPOIETIN (EPO) RELATED DISEASES BY INHIBITION OF NATURAL ANTISENSE TRANSCRIPT TO EPO**

[54] **TRAITEMENT DE MALADIES LIEES A L'ERYTHROPOIETINE (EPO) PAR INHIBITION D'UN TRANSCRIT ANTISENS NATUREL DE L'EPO**

[72] COLLARD, JOSEPH, US
[72] KHORKOVA SHERMAN, OLGA, US
[73] CURNA, INC., US
[85] 2011-05-31
[86] 2009-12-03 (PCT/US2009/066659)
[87] (WO2010/065792)
[30] US (61/119,961) 2008-12-04

[11] **2,749,766**
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01) A61M 60/122 (2021.01) A61M 60/888 (2021.01) A61M 1/34 (2006.01)**

[25] EN

[54] **BLOOD CLOT REMOVAL DEVICE, SYSTEM, AND METHOD**

[54] **DISPOSITIF, SYSTEME ET PROCEDE D'ELIMINATION DE CAILLOTS SANGUINS**

[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[85] 2011-07-14
[86] 2009-01-28 (PCT/SE2009/000038)
[87] (WO2009/096853)
[30] US (61/006,711) 2008-01-28

[11] **2,752,370**
[13] C

[51] **Int.Cl. G06T 7/00 (2017.01) A61B 5/00 (2006.01) A61B 5/055 (2006.01) G06T 5/00 (2006.01)**

[25] EN

[54] **SEGMENTATION OF STRUCTURES FOR STATE DETERMINATION**

[54] **SEGMENTATION DE STRUCTURES POUR LA DETERMINATION D'ETAT**

[72] COLLINS, LOUIS, CA
[72] HERRERA, JOSE VICENTE MANJON, ES
[72] COUPE, PIERRICK, FR
[73] MCGILL UNIVERSITY, CA
[73] UNIVERSITAT POLITECNICA DE VALENCIA, ES
[86] (2752370)
[87] (2752370)
[22] 2011-09-16

[11] **2,776,424**
[13] C

[51] **Int.Cl. A61F 5/00 (2006.01) A61F 2/04 (2013.01)**

[25] EN

[54] **APPARATUS FOR TREATING OBESITY**

[54] **APPAREIL DE TRAITEMENT DE L'OBESITE**

[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[85] 2012-04-02
[86] 2009-10-12 (PCT/SE2009/000452)
[87] (WO2010/042015)
[30] SE (0802138-8) 2008-10-10
[30] SE (PCT/SE2009/000047) 2009-01-29
[30] US (61/228,633) 2009-07-27

[11] **2,791,694**
[13] C

[51] **Int.Cl. G01V 1/32 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR PERFORMING AZIMUTHAL SIMULTANEOUS ELASTIC INVERSION**

[54] **PROCEDES ET SYSTEMES POUR REALISER UNE INVERSION ELASTIQUE SIMULTANEE AZIMUTALE**

[72] ROURE, BENJAMIN, CA
[72] DOWNTON, JON, CA
[73] CGGVERITAS SERVICES (U.S.) INC., US
[85] 2012-08-30
[86] 2011-03-11 (PCT/US2011/028096)
[87] (WO2011/112932)
[30] US (61/340,096) 2010-03-12
[30] US (61/313,394) 2010-03-12

[11] **2,792,118**
[13] C

[51] **Int.Cl. C07K 14/14 (2006.01) A61K 39/15 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **BLUETONGUE VIRUS RECOMBINANT VACCINES AND USES THEREOF**

[54] **VACCINS RECOMBINANTS CONTRE LE VIRUS DE LA LANGUE BLEUE ET LEURS UTILISATIONS**

[72] AUDONNET, JEAN-CHRISTOPHE, FR
[72] COX, KEVIN, US
[72] GUO, XUAN, US
[73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US
[85] 2012-09-05
[86] 2011-03-11 (PCT/US2011/028131)
[87] (WO2011/112955)
[30] US (61/313,164) 2010-03-12
[30] US (61/366,363) 2010-07-21

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[11] **2,800,253**
[13] C

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 9/08 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01)**

[25] EN

[54] **AQUEOUS FORMULATIONS FOR COATING MICRONEEDLE ARRAYS**

[54] **FORMULATIONS AQUEUSES POUR L'ENROBAGE DE PUCES A INJECTIONS**

[72] DETERMAN, AMY S., US
[72] JOHNSON, PETER R., US
[72] MOSEMAN, JOAN T., US
[72] WOLDT, RYAN T., US
[72] HANSEN, KRISTEN J., US
[73] KINDEVA DRUG DELIVERY L.P., US

[85] 2012-11-21
[86] 2011-05-26 (PCT/US2011/038029)
[87] (WO2011/150144)
[30] US (61/349,317) 2010-05-28

[11] **2,803,015**
[13] C

[51] **Int.Cl. A61F 2/30 (2006.01)**

[25] EN

[54] **BONE IMPLANT INTERFACE SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE D'INTERFACE D'IMPLANT OSSEUX**

[72] HUNT, JESSEE, US
[73] 4-WEB, INC., US
[85] 2012-12-17
[86] 2011-06-13 (PCT/US2011/040117)
[87] (WO2011/159587)
[30] US (12/818,508) 2010-06-18

[11] **2,811,644**
[13] C

[51] **Int.Cl. C07K 16/30 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **ANTIBODY DRUG CONJUGATES (ADC) THAT BIND TO 191P4D12 PROTEINS**

[54] **CONJUGUES ANTICORPS-MEDICAMENTS (ADC) SE LIANT AUX PROTEINES 191P4D12**

[72] SATPAEV, DAULET, US
[72] MORRISON, ROBERT KENDALL, US

[72] MORRISON, KAREN JANE MEYRICK, US

[72] GUDAS, JEAN, US
[72] JAKOBOVITS, AYA, US
[72] TORGOV, MICHAEL, US
[72] AN, ZILI, US
[73] AGENSYS, INC., US
[73] SEAGEN INC., US

[85] 2013-03-18
[86] 2011-09-29 (PCT/US2011/054054)
[87] (WO2012/047724)
[30] US (61/387,933) 2010-09-29

[11] **2,817,910**
[13] C

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 33/06 (2006.01) A61P 3/14 (2006.01)**

[25] FR

[54] **COMPOUND FOR TREATING HYPOCALCAEMIA IN RUMINANTS**

[54] **COMPOSITION POUR LE TRAITEMENT DE L'HYPOCALCEMIE CHEZ LES RUMINANTS**

[72] LE JEAN, GILLES, FR
[73] HY-NUTRITION, FR

[86] (2817910)
[87] (2817910)
[22] 2013-06-07
[30] FR (12 55 941) 2012-06-22

[11] **2,818,890**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) G16B 25/10 (2019.01) G16B 50/00 (2019.01) C40B 30/04 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PROGNOSIS AND TREATMENT OF DISEASES USING PORTFOLIO OF GENES**

[54] **METHODE ET SYSTEME POUR LE PRONOSTIC ET LE TRAITEMENT DE MALADIES A L'AIDE D'UN PORTEFEUILLE DE GENES**

[72] KANDULA, MAHESH, IN
[73] KRISANI BIOSCIENCES (P) LTD, IN

[85] 2013-05-23
[86] 2011-06-21 (PCT/IN2011/000417)
[87] (WO2012/070056)
[30] IN (3524/CHE/2010) 2010-11-23
[30] US (61/429,857) 2011-01-05

[11] **2,819,956**
[13] C

[51] **Int.Cl. H04N 17/00 (2006.01) G06T 7/80 (2017.01)**

[25] EN

[54] **HIGH ACCURACY CAMERA MODELLING AND CALIBRATION METHOD**

[54] **METHODE DE MODELISATION ET D'ETALONNAGE DE CAMERA HAUTE PRECISION**

[72] MARTIN, GUY, CA
[73] MARTIN, GUY, CA

[86] (2819956)
[87] (2819956)
[22] 2013-07-02

[11] **2,823,819**
[13] C

[51] **Int.Cl. F16L 11/06 (2006.01) B29C 48/90 (2019.01) B29C 71/00 (2006.01) C08J 5/00 (2006.01)**

[25] EN

[54] **PIPE**

[54] **TUBE**

[72] WOOD, ALAN, GB
[72] SANDNER, HORST, DE
[73] VICTREX MANUFACTURING LIMITED, GB

[85] 2013-07-04
[86] 2012-02-07 (PCT/GB2012/050267)
[87] (WO2012/107753)
[30] GB (1102388.4) 2011-02-10

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[11] **2,825,550**
[13] C

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01) A61N 1/08 (2006.01)**
[25] EN
[54] **NEUROSTIMULATOR**
[54] **NEUROSTIMULATEUR**
[72] BURDICK, JOEL W., US
[72] TAI, YU-CHONG, US
[72] NABER, JOHN F., US
[72] KEYNTON, ROBERT S., US
[72] EDGERTON, VICTOR REGGIE, US
[72] ROY, ROLAND R., US
[72] GERASIMENKO, YURY, US
[72] HARKEMA, SUSAN J., US
[72] HODES, JONATHAN, US
[72] ANGELI, CLAUDIA A., US
[72] NANDRA, MANDHEEREJ S., US
[72] DESAUTELS, THOMAS ANTHONY, US
[72] UPCHURCH, STEVEN L., US
[72] JACKSON, DOUGLAS J., US
[73] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
[73] UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC., US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2013-07-23
[86] 2012-03-26 (PCT/US2012/030624)
[87] (WO2012/129574)
[30] US (61/467,107) 2011-03-24

[11] **2,830,016**
[13] C

[51] **Int.Cl. B63B 7/04 (2020.01) B63B 34/23 (2020.01) B63C 13/00 (2006.01)**
[25] EN
[54] **VEHICLE SYSTEM**
[54] **SYSTEME DE VEHICULE**
[72] DELORME, ALLAN R., CA
[72] DUSTERHOFT, JONATHAN M., CA
[73] DELORME, ALLAN R., CA
[73] DUSTERHOFT, JONATHAN M., CA
[86] (2830016)
[87] (2830016)
[22] 2013-10-17
[30] US (14/051,997) 2013-10-11

[11] **2,837,729**
[13] C

[51] **Int.Cl. C01G 25/00 (2006.01) C01G 25/02 (2006.01) C07C 211/03 (2006.01) C23C 2/04 (2006.01) C23C 30/00 (2006.01)**
[25] EN
[54] **ZIRCONIUM-BASED COATING COMPOSITIONS AND PROCESSES**
[54] **COMPOSITIONS DE REVETEMENT A BASE DE ZIRCONIUM ET PROCEDES ASSOCIES**
[72] SIEBERT, ELIZABETH J., US
[72] GOODREAU, BRUCE H., US
[73] HENKEL AG & CO. KGAA, DE
[85] 2013-11-28
[86] 2012-06-22 (PCT/US2012/043743)
[87] (WO2012/178003)
[30] US (61/500,319) 2011-06-23

[11] **2,840,619**
[13] C

[51] **Int.Cl. H03K 17/96 (2006.01) G06F 1/16 (2006.01) G06F 3/041 (2006.01)**
[25] EN
[54] **PROTECTION FOR TOUCHPAD.**
[54] **DISPOSITIF DE PROTECTION D'UN PAVE TACTILE.**
[72] SCHANG, BERNARD, FR
[72] QUENET, ALEXANDRE, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[86] (2840619)
[87] (2840619)
[22] 2014-01-22
[30] FR (1350750) 2013-01-29

[11] **2,842,564**
[13] C

[51] **Int.Cl. A43B 3/12 (2006.01) A43B 9/00 (2006.01)**
[25] EN
[54] **FOOTWEAR**
[54] **CHAUSSURE**
[72] MUNRO, BRADLEY A., AU
[72] JENNINGS, AARON B., AU
[73] 29 PS PTY LTD, AU
[86] (2842564)
[87] (2842564)
[22] 2014-02-10

[11] **2,843,996**
[13] C

[51] **Int.Cl. A61K 31/202 (2006.01) A61P 17/00 (2006.01) A61P 17/16 (2006.01)**
[25] EN
[54] **USE OF PUFAS FOR TREATING SKIN INFLAMMATION**
[54] **UTILISATION DE PUFAS POUR TRAITER UNE INFLAMMATION CUTANEE**
[72] KELLIHER, ADAM, GB
[72] MORRISON, ANGUS, GB
[72] KNOWLES, PHIL, GB
[73] DS BIOPHARMA LIMITED, IE
[86] (2843996)
[87] (2843996)
[22] 2010-04-29
[62] 2,760,629
[30] GB (0907413.9) 2009-04-29
[30] US (61/177,811) 2009-05-13

[11] **2,846,998**
[13] C

[51] **Int.Cl. G06F 3/14 (2006.01) G16Z 99/00 (2019.01) G02B 27/01 (2006.01) G06F 3/01 (2006.01) G09G 5/377 (2006.01) H04N 7/18 (2006.01) H04N 21/84 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INDICATING A PRESENCE OF SUPPLEMENTAL INFORMATION IN AUGMENTED REALITY**
[54] **SYSTEME ET PROCEDE POUR INDIQUER LA PRESENCE D'INFORMATIONS SUPPLEMENTAIRES DANS LA REALITE AUGMENTEE**
[72] PASQUERO, JEROME, CA
[72] BOS, JEFFREY CHARLES, CA
[73] BLACKBERRY LIMITED, CA
[86] (2846998)
[87] (2846998)
[22] 2014-03-14
[30] EP (13159632.2) 2013-03-15

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[11] **2,848,043**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) A61L 27/54 (2006.01) C12M 3/00 (2006.01) C12N 5/00 (2006.01) C12Q 1/02 (2006.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **ENGINEERED TISSUES FOR IN VITRO RESEARCH USES, ARRAYS THEREOF, AND METHODS OF MAKING THE SAME**

[54] **TISSUS ARTIFICIELS POUR DES UTILISATIONS EN RECHERCHE IN VITRO, PUCES DE CES TISSUS ET PROCEDES DE FABRICATION CORRESPONDANTS**

[72] MURPHY, KEITH, US
[72] KHATIWALA, CHIRAG, US
[72] DORFMAN, SCOTT, US
[72] SHEPHERD, BENJAMIN, US
[72] PRESNELL, SHARON, US
[72] ROBBINS, JUSTIN, US
[73] ORGANOVO, INC., US
[85] 2014-03-06
[86] 2012-09-12 (PCT/US2012/054923)
[87] (WO2013/040078)
[30] US (61/533,757) 2011-09-12
[30] US (61/533,753) 2011-09-12
[30] US (61/533,761) 2011-09-12

[11] **2,850,292**
[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR NERVE MODULATION USING NONCONTACTING ELECTRODES**

[54] **SYSTEME ET METHODE DE MODULATION NERVEUSE FAISANT INTERVENIR DES ELECTRODES SANS CONTACT**

[72] MASHIACH, ADI, BE
[73] NYXOAH SA, BE
[85] 2014-03-27
[86] 2012-09-28 (PCT/IB2012/002913)
[87] (WO2013/061164)
[30] US (61/541,651) 2011-09-30
[30] US (61/657,424) 2012-06-08

[11] **2,850,734**
[13] C

[51] **Int.Cl. A63B 21/062 (2006.01)**

[25] EN

[54] **EXERCISE APPARATUS**

[54] **APPAREIL D'EXERCICE**

[72] HABING, THEODORE G., US
[72] LABORDE, JEFF, US
[73] HABLAMER, LLC, US
[86] (2850734)
[87] (2850734)
[22] 2014-04-30
[30] US (13/915,478) 2013-06-11

[11] **2,851,443**
[13] C

[51] **Int.Cl. A61B 5/103 (2006.01) A63B 22/02 (2006.01)**

[25] EN

[54] **VIRTUAL REALITY FOR MOVEMENT DISORDER DIAGNOSIS AND/OR TREATMENT**

[54] **REALITE VIRTUELLE POUR LE DIAGNOSTIC ET/OU LE TRAITEMENT DE TROUBLES DU MOUVEMENT**

[72] MIRELMAN, ANAT, IL
[72] HAUSDORFF, JEFFREY M., IL
[72] GILADI, NIR, IL
[73] THE MEDICAL RESEARCH, INFRASTRUCTURE AND HEALTH SERVICES FUND OF THE TEL AVIV MEDICAL CENTER, IL
[85] 2014-04-08
[86] 2012-10-09 (PCT/IB2012/055453)
[87] (WO2013/054257)
[30] US (61/545,164) 2011-10-09
[30] US (61/545,161) 2011-10-09

[11] **2,851,821**
[13] C

[51] **Int.Cl. F28C 1/00 (2006.01) F04D 19/00 (2006.01) F04D 25/06 (2006.01) F04D 27/00 (2006.01) F28F 27/00 (2006.01)**

[25] EN

[54] **DIRECT DRIVE FAN SYSTEM WITH VARIABLE PROCESS CONTROL**

[54] **SYSTEME DE VENTILATEUR A ENTRAINEMENT DIRECT PRESENTANT UNE COMMANDE DE PROCESSUS VARIABLE**

[72] ROLLINS, PATRICK, US
[72] LUCAS, GEORGE, US
[72] COSTELLO, JOSEPH, US
[73] PRIME DATUM, INC., US
[85] 2014-04-10
[86] 2012-10-21 (PCT/US2012/061244)
[87] (WO2013/059764)
[30] US (61/549,872) 2011-10-21

[11] **2,852,222**
[13] C

[51] **Int.Cl. G01B 21/30 (2006.01) C25C 1/12 (2006.01) C25C 7/02 (2006.01) G01B 11/24 (2006.01) G01B 11/30 (2006.01) G01B 21/08 (2006.01) G01B 21/20 (2006.01) G01G 17/00 (2006.01)**

[25] EN

[54] **METHOD AND ARRANGEMENT FOR PREPARING ANODES CAST FOR A PROCESS FOR ELECTROREFINING OF METALS FOR AN ELECTROREFINING STEP**

[54] **METHODE ET DISPOSITION POUR LA PREPARATION DE MOULE D'ANODES EN VUE D'UN TRAITEMENT D'ELECTROAFFINAGE DE METAUX POUR UNE ETAPE DE MICROAFFINAGE**

[72] LARINKARI, MARTTI, FI
[73] OUTOTEC (FINLAND) OY, FI
[86] (2852222)
[87] (2852222)
[22] 2014-05-23
[30] FI (20135688) 2013-06-24

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[11] **2,853,326**
[13] C

- [51] **Int.Cl. C10M 133/44 (2006.01)**
[25] EN
[54] **LUBRICANTS WITH IMPROVED SEAL COMPATIBILITY**
[54] **LUBRIFIANTS PRESENTANT UNE COMPATIBILITE AVEC DES PRODUITS D'ETANCHEITE AMELIOREE**
[72] VINCI, JAMES N., US
[73] THE LUBRIZOL CORPORATION, US
[85] 2014-04-23
[86] 2012-10-22 (PCT/US2012/061271)
[87] (WO2013/062890)
[30] US (61/552,122) 2011-10-27

[11] **2,854,522**
[13] C

- [51] **Int.Cl. C02F 3/00 (2006.01) B09B 3/00 (2022.01) C02F 1/00 (2006.01) C02F 11/00 (2006.01) C02F 11/12 (2019.01) E03F 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR STORAGE AND TREATMENT OF REMEDIATION MATERIALS**
[54] **SYSTEMES ET PROCEDES POUR STOCKAGE ET TRAITEMENT DE MATERIELS DE DEPOLLUTION**
[72] ALBERS, CORY, CA
[72] AMELL, BERNARD, CA
[73] ALBERS, CORY, CA
[73] AMELL, BERNARD, CA
[86] (2854522)
[87] (2854522)
[22] 2014-06-18
[30] US (61/836,365) 2013-06-18

[11] **2,856,409**
[13] C

- [51] **Int.Cl. H05B 47/11 (2020.01) H05B 47/125 (2020.01)**
[25] EN
[54] **WAVELENGTH SENSING LIGHTING SYSTEM AND ASSOCIATED METHODS**
[54] **SYSTEME D'ECLAIRAGE A DETECTION DE LONGUEUR D'ONDE ET PROCEDES ASSOCIES**
[72] MAXIK, FREDRIC, US
[72] BARTINE, DAVID, US
[72] MEDELIUS, PEDRO, US
[72] BRETSCHNEIDER, ERIC, US
[73] ENVIRONMENTAL LIGHT TECHNOLOGIES CORP., US
[73] MAXIK, FREDRIC, US
[73] BARTINE, DAVID, US
[73] MEDELIUS, PEDRO, US
[73] BRETSCHNEIDER, ERIC, US
[85] 2014-05-20
[86] 2012-11-21 (PCT/US2012/066203)
[87] (WO2013/081930)
[30] US (13/300,930) 2011-11-21

[11] **2,856,866**
[13] C

- [51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **ADMINISTRATION OF ALPHA4BETA7 HETERO-DIMER-SPECIFIC ANTIBODY**
[54] **ADMINISTRATION D'UN ANTICORPS SPECIFIQUE HETERODIMERE ANTI-ALPHA-4-BETA-7**
[72] BORIE, DOMINIQUE, US
[72] HSU, HAILING, US
[72] PAN, WEI-JIAN, US
[72] REES, WILLIAM, US
[72] SULLIVAN, BARBARA, US
[73] AMGEN INC., US
[85] 2014-05-23
[86] 2012-11-21 (PCT/US2012/066345)
[87] (WO2013/078375)
[30] US (61/563,430) 2011-11-23
[30] US (61/599,221) 2012-02-15

[11] **2,857,773**
[13] C

- [51] **Int.Cl. H04W 76/14 (2018.01) H04W 74/08 (2009.01) H04B 7/12 (2006.01)**
[25] EN
[54] **METHOD FOR IMPROVING THE HF BAND LINK ESTABLISHMENT USING A BROADBAND CAPABILITY**
[54] **PROCEDE POUR AMELIORER L'ETABLISSEMENT D'UNE LIAISON DE BANDE HF AU MOYEN D'UNE CAPACITE A LARGE BANDE**
[72] LAMY-BERGOT, CATHERINE, FR
[73] THALES, FR
[86] (2857773)
[87] (2857773)
[22] 2014-07-24
[30] FR (1301791) 2013-07-25

[11] **2,858,229**
[13] C

- [51] **Int.Cl. H04W 72/08 (2009.01) H04W 72/12 (2009.01)**
[25] EN
[54] **COORDINATING ALLOCATION OF RESOURCES FOR USE BY SMALL CELLS**
[54] **COORDINATION DE L'ALLOCATION DES RESSOURCES POUR UTILISATION PAR DE PETITES CELLULES**
[72] BONTU, CHANDRA SEKHAR, CA
[72] CAI, ZHIJUN, US
[72] SONG, YI, US
[72] FREEMAN, DAVID NIGEL, GB
[73] BLACKBERRY LIMITED, CA
[86] (2858229)
[87] (2858229)
[22] 2014-07-30
[30] US (13/968,642) 2013-08-16

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[11] **2,858,488**
[13] C

[51] **Int.Cl. G06F 16/903 (2019.01)**
[25] EN
[54] **SEARCHING MULTIPLE DATA SOURCES**
[54] **RECHERCHE DANS DE MULTIPLES SOURCES DE DONNEES**
[72] BERKOWITZ, ED, US
[72] HALLOWELL, ZACHARY E., US
[73] OPENLANE CANADA INC., CA
[86] (2858488)
[87] (2858488)
[22] 2014-08-06
[30] US (13/963405) 2013-08-09

[11] **2,860,312**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6886 (2018.01) A61P 35/00 (2006.01) C12M 1/34 (2006.01) C12Q 1/04 (2006.01) C40B 30/04 (2006.01) A61K 31/704 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR ASSESSING LOSS OF HETEROZYGOSITY**
[54] **PROCEDES ET MATERIAUX POUR EVALUER LA PERTE D'HETEROZYGOTIE**
[72] ABKEVICH, VICTOR, US
[72] GUTIN, ALEXANDER, US
[72] TIMMS, KIRSTEN, US
[72] LANCHBURY, JERRY, US
[73] MYRIAD GENETICS, INC., US
[85] 2014-06-23
[86] 2012-12-21 (PCT/US2012/071380)
[87] (WO2013/096843)
[30] US (61/578,713) 2011-12-21
[30] US (61/654,402) 2012-06-01

[11] **2,863,427**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) A61K 31/4045 (2006.01) A61K 31/44 (2006.01) A61K 31/4439 (2006.01) A61K 31/455 (2006.01) A61K 31/7088 (2006.01) A61P 33/00 (2006.01)**
[25] EN
[54] **USE OF PDGFR-.ALPHA. AS DIAGNOSTIC MARKER FOR PAPILLARY THYROID CANCER**
[54] **UTILISATION DE PDGFR-ALPHA EN TANT QUE MARQUEUR DE DIAGNOSTIC POUR LE CANCER DE LA THYROIDE PAPILLAIRE**
[72] MCMULLEN, TODD, CA
[72] LAI, RAYMOND, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2014-07-31
[86] 2013-02-01 (PCT/CA2013/000090)
[87] (WO2013/113102)
[30] US (61/593,414) 2012-02-01

[11] **2,865,464**
[13] C

[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANG2-BINDING MOLECULES**
[54] **MOLECULES DE LIAISON A ANG2**
[72] BORGES, ERIC, DE
[72] GSCHWIND, ANDREAS, DE
[72] OTT, RENE GEORG, DE
[72] BUYSE, MARIE-ANGE, BE
[72] BOUCNEAU, JOACHIM, BE
[72] MERCHIEERS, PASCAL, BE
[72] DEPLA, ERIK, BE
[72] STEVENAERT, FREDERIK, BE
[73] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2014-08-25
[86] 2013-03-27 (PCT/EP2013/056635)
[87] (WO2013/144266)
[30] EP (12162615.4) 2012-03-30

[11] **2,865,483**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) C07K 14/415 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS OF USING SAME FOR INCREASING PLANT YIELD, BIOMASS, GROWTH RATE, VIGOR, AND OIL CONTENT OF PLANTS**
[54] **POLYNUCLEOTIDES ISOLES ET POLYPEPTIDES, ET METHODES D'UTILISATION POUR AMELIORER LE RENDEMENT, LA BIOMASSE, LE TAUX DE CROISSANCE, LA VIGUEUR ET LA TENEUR EN HUILE DE PLANTESE,**
[72] MATARASSO, NOA, IL
[72] KARCHI, HAGAI, IL
[73] EVOGENE LTD., IL
[85] 2014-08-25
[86] 2013-02-27 (PCT/IL2013/050172)
[87] (WO2013/128448)
[30] US (61/604,588) 2012-02-29
[30] US (61/681,252) 2012-08-09

[11] **2,866,219**
[13] C

[51] **Int.Cl. G06Q 50/30 (2012.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING NEARBY, COMPATIBLE USERS**
[54] **SYSTEME ET PROCEDE PERMETTANT D'IDENTIFIER DES UTILISATEURS PROCHES ET COMPATIBLES**
[72] ZADEH, SHAYAN, US
[72] MEHR, ALEXANDER, US
[72] GOTLIEB, CHARLES, US
[73] ZOOSK, INC., US
[85] 2014-09-02
[86] 2012-12-05 (PCT/US2012/068035)
[87] (WO2013/086050)
[30] US (61/567,010) 2011-12-05

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[11] **2,866,907**
[13] C

[51] **Int.Cl. B01D 61/24 (2006.01) A61M 1/16 (2006.01)**
[25] EN
[54] **PERM SELECTIVE MEMBRANE FOR TREATING VASCULAR CALCIFICATION IN CHRONIC HEMODIALYSIS PATIENTS**
[54] **MEMBRANE PERMSELECTIVE POUR TRAITER LA CALCIFICATION VASCULAIRE CHEZ DES PATIENTS EN HEMODIALYSE CHRONIQUE**
[72] STORR, MARKUS, DE
[72] KRAUSE, BERND, DE
[72] SCHINDLER, RALF, DE
[72] ZICKLER, DANIEL, DE
[72] HEGNER, BJOERN, DE
[73] GAMBRO LUNDIA AB, SE
[73] CHARITE UNIVERSITATSMEDIZIN BERLIN, DE
[86] (2866907)
[87] (2866907)
[22] 2014-10-08
[30] EP (13 004 968.7) 2013-10-17

[11] **2,869,969**
[13] C

[51] **Int.Cl. H01M 10/056 (2010.01) H01M 4/02 (2006.01)**
[25] EN
[54] **BATTERY BASED ON ORGANOSULFUR SPECIES**
[54] **BATTERIE A BASE D'ESPECES ORGANOSULFUREES**
[72] SMITH, GARY S., US
[72] WANG, LIJUAN, US
[73] ARKEMA INC., US
[85] 2014-10-08
[86] 2013-04-09 (PCT/US2013/035716)
[87] (WO2013/155038)
[30] US (61/623,723) 2012-04-13

[11] **2,870,896**
[13] C

[51] **Int.Cl. A47H 13/00 (2006.01) A47H 1/04 (2006.01) A47H 1/14 (2006.01) E05D 13/00 (2006.01) E05D 15/06 (2006.01)**
[25] EN
[54] **TRACK AND CURTAIN SYSTEM**
[54] **SYSTEME DE TRINGLE ET DE RIDEAU**
[72] ZAHNER, DAVID, US
[73] ZAHNER DESIGN GROUP, LTD., US
[86] (2870896)
[87] (2870896)
[22] 2014-11-14
[30] US (14/159,820) 2014-01-21
[30] US (14/451,667) 2014-08-05

[11] **2,871,261**
[13] C

[51] **Int.Cl. E21B 43/14 (2006.01) C09K 8/592 (2006.01) E21B 43/24 (2006.01) E21B 43/241 (2006.01)**
[25] EN
[54] **MULTIPURPOSING OF MULTILATERAL INFILL WELLS FOR BYPASS HYDROCARBON RECOVERY**
[54] **UTILISATION POLYVALENTE DE Puits DE Remplissage Multilateraux Pour La Recuperation D'Hydrocarbures Par Derivation**
[72] CHHINA, HARBIR, CA
[72] WINESTOCK, ALVIN, CA
[73] CENOVUS ENERGY INC., CA
[86] (2871261)
[87] (2871261)
[22] 2014-11-14
[30] US (61/904,380) 2013-11-14

[11] **2,874,202**
[13] C

[51] **Int.Cl. B01J 16/00 (2006.01) C08H 8/00 (2010.01) B01J 19/18 (2006.01) B01J 19/32 (2006.01) B27K 3/00 (2006.01) B27K 3/10 (2006.01) B27K 3/36 (2006.01)**
[25] EN
[54] **REACTOR SYSTEM AND PROCESS FOR WOOD MODIFICATION**
[54] **PROCEDE ET SYSTEME DE REACTEUR DESTINES A LA MODIFICATION DU BOIS**
[72] POL, BERNARDUS JOZEF MARIA, NL
[72] BUSSEMAKER, PAUL, NL
[72] KAPPEN, THEODORUS GERARDUS MARINUS MARIA, NL
[72] RADEMAKERS, KARLIJN, NL
[73] TITAN WOOD LIMITED, GB
[85] 2014-11-20
[86] 2013-05-22 (PCT/IB2013/054244)
[87] (WO2013/175420)
[30] EP (12168973.1) 2012-05-22

[11] **2,875,201**
[13] C

[51] **Int.Cl. G01N 24/00 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **MULTI-PARAMETER DIABETES RISK EVALUATIONS**
[54] **EVALUATIONS A PLUSIEURS PARAMETRES DES RISQUES DE DIABETE**
[72] OTVOS, JAMES D., US
[72] SHALAUROVA, IRINA Y., US
[72] BENNETT, DENNIS W., US
[72] WOLAK-DINSMORE, JUSTYNA E., US
[72] O'CONNELL, THOMAS M., US
[72] MERCIER, KELLY, US
[73] LIPOSCIENCE, INC., US
[85] 2014-11-28
[86] 2013-06-07 (PCT/US2013/044679)
[87] (WO2013/185014)
[30] US (61/657,315) 2012-06-08
[30] US (61/711,471) 2012-10-09
[30] US (61/739,305) 2012-12-19
[30] US (13/830,784) 2013-03-14

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[11] **2,875,556**
[13] C

[51] **Int.Cl. F16B 37/04 (2006.01) F16M 1/00 (2006.01)**
[25] EN
[54] **FASTENER NUT FOR CHANNEL FRAMING**
[54] **ECROU DE FIXATION POUR ARMATURE DE PROFILE**
[72] MCCARTHY, WILLIAM E., US
[72] KNUTSON, JAMES A., US
[72] ZHANG, ZHIHUI, US
[72] KLINE, JOSEPH, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2875556)
[87] (2875556)
[22] 2014-12-22
[30] US (61/920,189) 2013-12-23
[30] US (61/971,635) 2014-03-28

[11] **2,876,743**
[13] C

[51] **Int.Cl. G01V 13/00 (2006.01)**
[25] EN
[54] **QUALITY CONTROL FOR BROADBAND SWEEPS**
[54] **CONTROLE DE LA QUALITE EN BALAYAGE A LARGE BANDE**
[72] OLLIVRIN, GILLES, FR
[73] SERCEL, FR
[86] (2876743)
[87] (2876743)
[22] 2015-01-05
[30] US (61/925,823) 2014-01-10
[30] US (14/282,480) 2014-05-20

[11] **2,877,244**
[13] C

[51] **Int.Cl. B81C 1/00 (2006.01) B82Y 30/00 (2011.01) B81B 7/04 (2006.01) C08J 7/12 (2006.01)**
[25] EN
[54] **SUPEROLEOPHOBIC SURFACES AND METHODS OF MAKING SAME**
[54] **SURFACES SUPER-OLEOPHOBES ET LEURS PROCEDES DE REALISATION**
[72] YANG, JUN, CA
[72] LI, TINGJIE, CA
[72] PALIY, MAXIM, CA
[72] WANG, XIAOLONG, CA
[72] SUHAN, NATALIE, CA
[73] THE UNIVERSITY OF WESTERN ONTARIO, CA
[73] LANXESS BUTYL PTE. LTD., SG
[85] 2014-12-18
[86] 2013-06-18 (PCT/CA2013/000583)
[87] (WO2013/188958)
[30] US (61/661,035) 2012-06-18

[11] **2,877,299**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 1/02 (2006.01)**
[25] EN
[54] **METHODS OF TREATING OR PREVENTING PERIODONTITIS AND DISEASES ASSOCIATED WITH PERIODONTITIS**
[54] **METHODES DE TRAITEMENT OU DE PREVENTION DE LA PARODONTITE ET DE MALADIES ASSOCIEES A LA PARODONTITE**
[72] HAJISHENGALLIS, GEORGE, US
[72] LAMBRIS, JOHN D., US
[73] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2014-12-18
[86] 2013-06-19 (PCT/US2013/046599)
[87] (WO2013/192319)
[30] US (61/662,022) 2012-06-20
[30] US (13/801,096) 2013-03-13

[11] **2,878,294**
[13] C

[51] **Int.Cl. G08B 17/103 (2006.01) G08B 29/18 (2006.01)**
[25] EN
[54] **APPARATUSES, SYSTEMS AND METHODS FOR SELF-TESTING OPTICAL FIRE DETECTORS**
[54] **APPAREILS, SYSTEMES ET PROCEDES POUR ESSAI AUTOMATIQUE DE DETECTEURS OPTIQUES DE FEU**
[72] BELL, KEN, US
[72] THEBERT, ROBERT, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2878294)
[87] (2878294)
[22] 2015-01-16
[30] US (14/164,409) 2014-01-27

[11] **2,878,743**
[13] C

[51] **Int.Cl. A42B 3/18 (2006.01) A42B 3/08 (2006.01) A42B 3/10 (2006.01)**
[25] EN
[54] **HELMET CHIN CURTAIN**
[54] **CACHE-MENTON POUR CASQUE**
[72] HANDFIELD, ROBERT, CA
[72] BOUCHARD-FORTIN, NICOLAS, CA
[73] KIMPEX INC., CA
[86] (2878743)
[87] (2878743)
[22] 2015-01-16
[30] US (61/928,185) 2014-01-16

[11] **2,878,745**
[13] C

[51] **Int.Cl. H04R 1/40 (2006.01) G10K 11/16 (2006.01) G10K 11/28 (2006.01)**
[25] EN
[54] **ACOUSTIC DETECTOR**
[54] **DETECTEUR ACOUSTIQUE**
[72] SAVAGE, JOHN CHARLES, GB
[72] SMITH, JONATHAN NEIL, GB
[73] THALES HOLDINGS UK PLC, GB
[86] (2878745)
[87] (2878745)
[22] 2015-01-20

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[11] **2,880,137**
[13] C

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/52 (2006.01) C02F 1/66 (2006.01) C02F 9/04 (2006.01)**

[25] EN

[54] **REMOVAL OF SELENIUM FROM COAL MINING RUNOFF WATER**

[54] **EXTRACTION DU SELENIUM DE L'EAU RESIDUELLE ISSUE DE L'EXPLOITATION CHARBONNIERE**

[72] SANTINA, PETER F., US

[73] SANTINA, PETER F., US

[86] (2880137)

[87] (2880137)

[22] 2015-01-27

[30] US (14/170,472) 2014-01-31

[11] **2,881,101**
[13] C

[51] **Int.Cl. A47C 27/06 (2006.01) A47C 23/02 (2006.01) A47C 27/07 (2006.01)**

[25] EN

[54] **MATTRESS INCLUDING FLAT SPRINGS**

[54] **MATELAS COMPORTANT DES RESSORTS PLATS**

[72] DEFRANKS, MICHAEL S., US

[72] KIRTIKAR, RAHUL, US

[72] RASOR, JULIA S., US

[73] DREAMWELL, LTD., US

[86] (2881101)

[87] (2881101)

[22] 2015-01-30

[30] US (61/934,188) 2014-01-31

[11] **2,881,178**
[13] C

[51] **Int.Cl. A44B 11/00 (2006.01) A41F 9/00 (2006.01)**

[25] EN

[54] **A BELT FASTENER SYSTEM INCLUDING A BUCKLE MECHANISM**

[54] **UN DISPOSITIF D'ATTACHE POUR CEINTURE COMPORTANT UN MECANISME DE BOUCLE**

[72] SKIPPER, DEBRA R., US

[72] GUY, BRENDA C., US

[73] SKIPPER, DEBRA R., US

[73] GUY, BRENDA C., US

[86] (2881178)

[87] (2881178)

[22] 2015-02-06

[30] US (61/951,876) 2014-03-12

[11] **2,881,654**
[13] C

[51] **Int.Cl. F21V 19/00 (2006.01) F21K 9/00 (2016.01) F21S 2/00 (2016.01) F21V 19/02 (2006.01) F21V 21/30 (2006.01)**

[25] EN

[54] **OPTO-MECHANICALLY ADJUSTABLE AND EXPANDABLE LIGHT BOARDS**

[54] **PANNEAUX LUMINEUX EXPANSIBLES ET REGLABLES OPTICO-MECANIQUEMENT**

[72] YANG, YI, US

[72] TREIBLE, DANIEL ROBERT, JR., US

[73] EATON INTELLIGENT POWER LIMITED, IE

[86] (2881654)

[87] (2881654)

[22] 2015-02-12

[30] US (14/180,140) 2014-02-13

[11] **2,882,010**
[13] C

[51] **Int.Cl. B05D 1/02 (2006.01) B05D 3/02 (2006.01)**

[25] EN

[54] **PIPE PAINTING PROCESS INCLUDING TRANSLATING, SPRAYING, AND HEATING A PIPE**

[54] **PROCEDE DE PEINTURE POUR TUYAU, Y COMPRIS CONVERTIR, PULVERISER ET CHAUFFER UN TUYAU**

[72] KRAWCZYK, ARTHUR M., CA

[73] KRAWCZYK, ARTHUR M., CA

[86] (2882010)

[87] (2882010)

[22] 2015-02-13

[30] US (14/181397) 2014-02-14

[11] **2,882,992**
[13] C

[51] **Int.Cl. B25F 5/00 (2006.01)**

[25] EN

[54] **MAGNETIC MOUNT FOR POWER TOOL**

[54] **FIXATION MAGNETIQUE POUR OUTIL ELECTRIQUE**

[72] HURST, KRISTOPHER J., CA

[73] UNIQUE CONSTRUCTION PRODUCTS INC., CA

[86] (2882992)

[87] (2882992)

[22] 2015-02-24

[30] US (61/966,364) 2014-02-24

[11] **2,884,249**
[13] C

[51] **Int.Cl. A61B 17/70 (2006.01) A61F 2/28 (2006.01) A61F 2/44 (2006.01)**

[25] EN

[54] **MEDICAL FASTENER**

[54] **ATTACHE MEDICALE**

[72] REED, GARY JACK, US

[73] RTG SCIENTIFIC, LLC, US

[85] 2015-03-05

[86] 2013-09-30 (PCT/US2013/062533)

[87] (WO2014/055385)

[30] US (13/573,736) 2012-10-03

[11] **2,884,506**
[13] C

[51] **Int.Cl. F25D 16/00 (2006.01) F24F 5/00 (2006.01) F24F 13/10 (2006.01) F25D 15/00 (2006.01) F25D 17/04 (2006.01) H05K 7/20 (2006.01)**

[25] EN

[54] **EQUIPMENT ENCLOSURE WITH MULTI-MODE TEMPERATURE CONTROL SYSTEM**

[54] **ENCEINTE POUR EQUIPEMENT AVEC SYSTEME DE COMMANDE DE TEMPERATURE MULTIMODE**

[72] JAMES, BRENT A., US

[72] JAMES, LEWIS G., US

[72] KING, ARON J., US

[73] DIVERSIFIED CONTROL, INC., US

[86] (2884506)

[87] (2884506)

[22] 2015-03-11

[30] US (62/095,590) 2014-12-22

[30] US (14/628,934) 2015-02-23

[11] **2,884,603**
[13] C

[51] **Int.Cl. B26D 1/36 (2006.01)**

[25] EN

[54] **CUTTING HEAD ASSEMBLY FOR A CENTRIFUGAL CUTTING APPARATUS AND CENTRIFUGAL APPARATUS EQUIPPED WITH SAME**

[54] **DISPOSITIF DE TETE DE COUPE POUR UN APPAREIL DE COUPE CENTRIFUGE ET APPAREIL CENTRIFUGE DOTE DUDIT DISPOSITIF**

[72] BUCKS, BRENT, US

[73] FAM, BE

[86] (2884603)

[87] (2884603)

[22] 2015-03-06

[30] EP (14/158618.0) 2014-03-10

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[11] **2,884,990**
[13] C

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/12 (2006.01) F15D 1/02 (2006.01)**
[25] EN
[54] **CASING GAS MANAGEMENT METHOD AND SYSTEM**
[54] **METHODE ET SYSTEME DE GESTION DE GAZ DE TUBAGE**
[72] BEN-ZVI, AMOS, CA
[72] LEROUX, ASHLEY, CA
[72] SWITALA, KENNETH, CA
[73] CENOVUS ENERGY INC., CA
[86] (2884990)
[87] (2884990)
[22] 2015-03-13
[30] US (61/955,731) 2014-03-19

[11] **2,885,068**
[13] C

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 10/30 (2016.01) A23K 50/10 (2016.01) A01K 5/00 (2006.01) A23C 11/06 (2006.01)**
[25] EN
[54] **HIGH PROTEIN MILK REPLACERS CONTAINING NON-MILK PROTEINS AND FEEDING METHODS AND SYSTEMS THEREOF**
[54] **PRODUITS DE REMPLACEMENT DU LAIT A TENEUR ELEVEE EN PROTEINES CONTENANT DES PROTEINES NON LAITIERES ET METHODES ET SYSTEMES D'ALIMENTATION ASSOCIES**
[72] MILLER, BILL L., US
[73] PURINA ANIMAL NUTRITION LLC, US
[86] (2885068)
[87] (2885068)
[22] 2015-03-13
[30] US (14/215,604) 2014-03-17

[11] **2,885,081**
[13] C

[51] **Int.Cl. F22B 1/00 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **STEAM GENERATION SYSTEM**
[54] **SYSTEME DE PRODUCTION DE VAPEUR**
[72] AMJADI, OMID, CA
[72] SUN, SUSAN WEI, CA
[73] CENOVUS ENERGY INC., CA
[86] (2885081)
[87] (2885081)
[22] 2015-03-17
[30] US (61/954,524) 2014-03-17

[11] **2,885,442**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01)**
[25] EN
[54] **A SYSTEM FOR PRECISION GUIDANCE OF SURGICAL PROCEDURES ON A PATIENT**
[54] **UN DISPOSITIF DE GUIDAGE DE PRECISION POUR INTERVENTIONS CHIRURGICALES SUR UN PATIENT**
[72] ROTVOLD, OYVIND, NO
[73] METRONOR AS, NO
[86] (2885442)
[87] (2885442)
[22] 2015-03-20
[30] EP (14168083.5) 2014-05-13

[11] **2,885,565**
[13] C

[51] **Int.Cl. B01D 46/10 (2006.01)**
[25] EN
[54] **FRAMED AIR FILTER WITH INTEGRATED NESTABLE JOINT**
[54] **FILTRE A AIR ENCADRE DOTE D'UN JOINT EMBOITABLE INTEGRE**
[72] FOX, ANDREW ROBERT, US
[73] 3M INNOVATIVE PROPERTIES COMPANY, US
[86] (2885565)
[87] (2885565)
[22] 2015-03-23
[30] US (61/969,595) 2014-03-24

[11] **2,885,799**
[13] C

[51] **Int.Cl. A01N 37/16 (2006.01) A01N 25/22 (2006.01) A01N 37/02 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) C02F 1/50 (2006.01)**
[25] EN
[54] **STABLE PERCARBOXYLIC ACID COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS D'ACIDE CARBOXYLIQUE STABLES ET UTILISATIONS DE CELLES-CI**
[72] LI, JUNZHONG, US
[72] MCSHERRY, DAVID, US
[72] BREWSTER, ALLISON, US
[72] STAUB, RICHARD, US
[72] DE PAULA, RENATO, US
[72] BOLDUC, JOHN WILHELM, US
[72] RYTHER, ROBERT J., US
[72] KEASLER, VICTOR V., US
[73] ECOLAB USA INC., US
[85] 2015-03-23
[86] 2013-10-04 (PCT/US2013/063512)
[87] (WO2014/055900)
[30] US (61/710,631) 2012-10-05
[30] US (61/762,777) 2013-02-08
[30] US (13/844,515) 2013-03-15

[11] **2,886,987**
[13] C

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **IL-6 ANTAGONISTS AND USES THEREOF**
[54] **ANTAGONISTES DE L'IL-6 ET LEURS UTILISATIONS**
[72] SCHMIDT, MICHAEL M., US
[72] ERBE, DAVID V., US
[72] BARNES, THOMAS M., US
[72] FURFINE, ERIC STEVEN, US
[72] TISDALE, ALISON, US
[73] SESEN BIO, INC., US
[85] 2015-03-31
[86] 2013-11-08 (PCT/US2013/069279)
[87] (WO2014/074905)
[30] US (61/723,972) 2012-11-08
[30] US (61/831,699) 2013-06-06

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[11] **2,887,051**

[13] C

- [51] **Int.Cl. H04L 12/16 (2006.01)**
[25] EN
[54] **PUBLICATION AND INTERACTIVE DISCUSSION ENGINE DRIVEN BY USER-SPECIFIED TOPIC**
[54] **MOTEUR DE DISCUSSION INTERACTIVE ET DE PUBLICATION, COMMANDE PAR UN SUJET SPECIFIE PAR UN UTILISATEUR**
[72] CORSELL, PETER, US
[72] OH, RICHARD, CA
[72] OH, ROBERT, CA
[73] CORSELL, PETER, US
[73] STAGWELL TECHNOLOGIES, INC., US
[85] 2015-04-07
[86] 2013-10-04 (PCT/US2013/063536)
[87] (WO2014/055918)
[30] US (61/709,747) 2012-10-04
[30] US (13/837,470) 2013-03-15

[11] **2,887,079**

[13] C

- [51] **Int.Cl. H01R 13/18 (2006.01) H01R 13/639 (2006.01) H01R 25/16 (2006.01) H02B 1/04 (2006.01) H02B 1/20 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION SYSTEM AND CONTACT RETENTION ASSEMBLY THEREFOR**
[54] **SYSTEME DE DISTRIBUTION D'ELECTRICITE ET MECANISME DE RETENUE DE CONTACT ASSOCIE**
[72] RANTA, MICHAEL JOHN, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2887079)
[87] (2887079)
[22] 2015-04-01
[30] US (14/295,490) 2014-06-04

[11] **2,887,414**

[13] C

- [51] **Int.Cl. B60G 21/055 (2006.01)**
[25] EN
[54] **TWO-STAGE SWAY BAR BARRE STABILISATRICE A DEUX ETAPES**
[72] MIYAMOTO, JASON M., US
[72] ANGUES, SEAN J., US
[72] BENNETT, JASON L., US
[73] TAP WORLDWIDE, LLC, US
[86] (2887414)
[87] (2887414)
[22] 2015-04-07
[30] US (61/977528) 2014-04-09

[11] **2,888,851**

[13] C

- [51] **Int.Cl. B64C 7/00 (2006.01) B64D 1/16 (2006.01) B64D 11/00 (2006.01) B64D 15/00 (2006.01)**
[25] FR
[54] **DRAINMAST AND ASSOCIATED PROCESS**
[54] **MAT DE DRAINAGE ET PROCEDE ASSOCIE**
[72] WIELGOSZ, EUGENE, FR
[73] DASSAULT AVIATION, FR
[86] (2888851)
[87] (2888851)
[22] 2015-04-22
[30] FR (14 01 095) 2014-05-15

[11] **2,889,002**

[13] C

- [51] **Int.Cl. C08K 5/06 (2006.01) C08G 65/40 (2006.01) C08J 3/24 (2006.01) C08K 5/053 (2006.01) C08L 71/10 (2006.01) B82Y 30/00 (2011.01)**
[25] EN
[54] **CROSS-LINKED ORGANIC POLYMER COMPOSITIONS AND METHODS FOR CONTROLLING CROSS-LINKING REACTION RATE AND OF MODIFYING SAME TO ENHANCE PROCESSABILITY**
[54] **COMPOSITIONS DE POLYMERES ORGANIQUE RETICULE ET PROCEDES PERMETTANT DE REGLER LA VITESSE DE REACTION DE RETICULATION ET DE MODIFICATION DE CELLE-CI POUR ACCROITRE L'APTITUDE A LA TRANSFORMATION**
[72] DRAKE, KERRY A., US
[72] NORDQUIST, ANDREW F., US
[72] DAS, SUDIPTO, US
[72] BURGOYNE, WILLIAM F., JR., US
[72] SONG, LE, US
[72] WILLIAMS, SHAWN P., US
[72] BOLAND, RODGER K., US
[73] DELSPER LP, US
[85] 2015-04-21
[86] 2013-10-21 (PCT/US2013/065977)
[87] (WO2014/066268)
[30] US (61/716,800) 2012-10-22
[30] US (61/833,351) 2013-06-10

[11] **2,889,573**

[13] C

- [51] **Int.Cl. B64D 47/00 (2006.01) A62C 3/08 (2006.01) B64D 25/00 (2006.01) G08B 17/12 (2006.01) G08B 29/04 (2006.01)**
[25] EN
[54] **OVERHEAT SENSOR SYSTEM**
[54] **MECANISME DETECTEUR DE SURCHAUFFE**
[72] KERN, MARK T., US
[72] BELL, KEN, US
[72] ROGERS, AARON STANLEY, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2889573)
[87] (2889573)
[22] 2015-03-16
[30] US (14/285,304) 2014-05-22

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[11] **2,889,844**
[13] C

[51] **Int.Cl. E03C 1/05 (2006.01) E03C 1/04 (2006.01)**
[25] EN
[54] **MODULAR SENSOR ACTIVATED FAUCET**
[54] **ROBINET MODULAIRE ACTIVE PAR CAPTEUR**
[72] SCHOOLCRAFT, JOHN KEVIN, US
[72] SAUNDERS, CRAIG, US
[72] STEPHENS, PAUL, US
[72] TILK, JASON, US
[72] VELET, ALEX, US
[72] LIEBAL, MICHAEL, US
[72] CHENARD, SEAN M., US
[72] LEVINER, ROY, III, US
[73] ZURN INDUSTRIES, LLC, US
[85] 2015-04-28
[86] 2013-10-30 (PCT/US2013/067555)
[87] (WO2014/070918)
[30] US (61/720,902) 2012-10-31

[11] **2,890,385**
[13] C

[51] **Int.Cl. A61K 39/40 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **METHODS OF TREATING S. AUREUS-ASSOCIATED DISEASES**
[54] **METHODES DE TRAITEMENT DE MALADIES ASSOCIEES A S. AUREUS**
[72] SELLMAN, BRET, US
[72] TKACZYK, CHRISTINE, US
[72] HAMILTON, MELISSA, US
[72] HUA, LEI, US
[73] MEDIMMUNE, LLC, US
[85] 2015-05-05
[86] 2013-11-05 (PCT/US2013/068385)
[87] (WO2014/074470)
[30] US (61/723,128) 2012-11-06

[11] **2,890,534**
[13] C

[51] **Int.Cl. A01D 89/00 (2006.01)**
[25] EN
[54] **DEVICE FOR HARVESTING LONG AGRICULTURAL PRODUCTS AND AGRICULTURAL SELF-PROPELLED UNIT FOR HARVESTING AGRICULTURAL PRODUCTS COMPRISING THE DEVICE**
[54] **DISPOSITIF DE RECOLTE DE PRODUITS AGRICOLES LONGS ET ACCESSOIRE AGRICOLE AUTOPROPULSE DESTINE A LA RECOLTE DE PRODUITS AGRICOLES COMPORTANT LEDIT DISPOSITIF**
[72] UBALDI, RAFFAELE, IT
[73] ROC S.R.L., IT
[86] (2890534)
[87] (2890534)
[22] 2015-05-07
[30] IT (BO2014A000272) 2014-08-05

[11] **2,890,708**
[13] C

[51] **Int.Cl. B24B 5/36 (2006.01) B23P 15/02 (2006.01) F01D 9/04 (2006.01) F01D 11/08 (2006.01)**
[25] EN
[54] **METHOD OF MACHINING A SHROUD AND GRINDING WHEEL THEREFOR**
[54] **METHODE D'USINAGE D'UN CARENAGE ET ROUE DE MEULAGE ASSOCIEE**
[72] CAMPOMANES, MARC, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2890708)
[87] (2890708)
[22] 2015-05-06
[30] US (14/270,891) 2014-05-06

[11] **2,890,813**
[13] C

[51] **Int.Cl. C12M 1/00 (2006.01)**
[25] EN
[54] **DISCONTINUOUS FED BATCH PROCESSING WITH THE USE OF ALTERNATING BIOREACTORS**
[54] **TRAITEMENT PAR LOTS A ALIMENTATION DISCONTINUE AU MOYEN DE BIOREACTEURS ALTERNATIFS**
[72] TIJSTERMAN, JACOB ARTHUR, NL
[73] BIOSANA PTY LTD., AU
[85] 2015-05-08
[86] 2013-11-08 (PCT/NL2013/050805)
[87] (WO2014/073967)
[30] NL (PCT/NL2012/050798) 2012-11-09

[11] **2,891,160**
[13] C

[51] **Int.Cl. A61G 17/04 (2006.01)**
[25] EN
[54] **DECORATIVE HARDWARE FOR STATIONARY BAR CASKETS**
[54] **QUINCAILLERIE DECORATIVE POUR CERCUEILS A BARRE STATIONNAIRE**
[72] WRAY, GREGORY W., US
[73] BATESVILLE SERVICES, INC., US
[86] (2891160)
[87] (2891160)
[22] 2015-05-13
[30] US (61/992,591) 2014-05-13

[11] **2,891,951**
[13] C

[51] **Int.Cl. H05B 45/37 (2020.01) H05B 45/40 (2020.01)**
[25] EN
[54] **DRIVER FOR LED LIGHTING AND METHOD OF DRIVING LED LIGHTING**
[54] **PILOTE POUR ECLAIRAGE A DEL ET PROCEDE PERMETTANT DE PILOTER UN ECLAIRAGE A DEL**
[72] HUI, RON SHU YUEN, CN
[73] VERSITECH LIMITED, CN
[85] 2015-05-20
[86] 2012-11-21 (PCT/CN2012/084953)
[87] (WO2014/078994)

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[11] **2,892,291**
[13] C

[51] **Int.Cl. E04C 2/36 (2006.01)**
[25] EN
[54] **PANEL SYSTEM FOR BUILDING STRUCTURES**
[54] **SYSTEME DE PANNEAUX DESTINE A DES STRUCTURES DE BATIMENT**
[72] COHEN, ADAM, US
[73] COHEN, ADAM, US
[86] (2892291)
[87] (2892291)
[22] 2015-05-20

[11] **2,892,300**
[13] C

[51] **Int.Cl. F16M 11/26 (2006.01) E06B 7/28 (2006.01) F16M 13/02 (2006.01)**
[25] EN
[54] **ADJUSTABLE SUPPORT**
[54] **SUPPORT REGLABLE**
[72] RUCKMAN, MARC, US
[73] RUCKMAN, MARC, US
[86] (2892300)
[87] (2892300)
[22] 2015-05-22
[30] US (14/329,266) 2014-07-11

[11] **2,893,229**
[13] C

[51] **Int.Cl. F16D 67/00 (2006.01) B64C 13/24 (2006.01) F16D 7/00 (2006.01) F16H 35/10 (2006.01) F16H 61/22 (2006.01)**
[25] EN
[54] **TORQUE LIMITATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE LIMITATION DE COUPLE**
[72] DAVIES, STEPHEN, GB
[73] GOODRICH ACTUATION SYSTEMS LIMITED, GB
[86] (2893229)
[87] (2893229)
[22] 2015-06-01
[30] EP (14275141.1) 2014-06-23

[11] **2,893,451**
[13] C

[51] **Int.Cl. C04B 28/14 (2006.01)**
[25] FR
[54] **COMPOSITION FOR GYPSUM BOARDS AND OBTAINED PRODUCTS**
[54] **COMPOSITION POUR PLAQUES DE PLATRE ET PRODUITS OBTENUS**
[72] BOUTEILLER, BERNARD, FR
[72] PETIGNY, SYLVAIN, FR
[72] BOUSSANT-ROUX, YVES, FR
[73] SAINT-GOBAIN PLACO, FR
[85] 2015-06-02
[86] 2013-12-18 (PCT/FR2013/053157)
[87] (WO2014/096698)
[30] FR (1262531) 2012-12-21

[11] **2,894,030**
[13] C

[51] **Int.Cl. E02B 3/04 (2006.01) E02D 29/02 (2006.01)**
[25] EN
[54] **MULTI-PART REUSABLE RETAINING WALL AND LEVEE BAG**
[54] **PAROI DE SOUTÈNEMENT REUTILISABLE MULTIPIECE ET SAC POUR DIGUE**
[72] ADAMS, BEAU G., US
[73] ADAMS, BEAU G., US
[86] (2894030)
[87] (2894030)
[22] 2015-06-05
[30] US (62/008,835) 2014-06-06

[11] **2,894,096**
[13] C

[51] **Int.Cl. B65D 88/12 (2006.01) B65D 90/10 (2006.01)**
[25] EN
[54] **STORAGE TANK**
[54] **RESERVOIR DE STOCKAGE**
[72] VAUGHN, TERRY, US
[73] DAST TANKS, LLC, US
[86] (2894096)
[87] (2894096)
[22] 2015-06-12
[30] US (14/304,381) 2014-06-13

[11] **2,894,741**
[13] C

[51] **Int.Cl. C07F 15/00 (2006.01) B01J 31/22 (2006.01)**
[25] FR
[54] **RUTHENIUM COMPLEXES COMPRISING AN ASYMMETRICAL UNSATURATED N-HETEROCYCLIC DIAMINOCARBENE**
[54] **COMPLEXES DE RUTHENIUM COMPRENANT UN DIAMINOCARBENE N-HETEROCYCLIQUE INSATURE DISSYMETRIQUE**
[72] MAUDUIT, MARC, FR
[72] ROUEN, MATHIEU, FR
[73] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE RENNES, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS, FR
[85] 2015-06-11
[86] 2013-12-11 (PCT/FR2013/053037)
[87] (WO2014/091157)
[30] FR (1261971) 2012-12-12

[11] **2,894,908**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/395 (2006.01) C07K 1/00 (2006.01) C07K 1/18 (2006.01) C07K 14/195 (2006.01) C07K 14/21 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING IMMUNOCONJUGATES**
[54] **PROCEDES DE PRODUCTION D'IMMUNOCONJUGUES**
[72] HUNTER, ALAN, US
[72] LINKE, THOMAS, US
[72] PABST, TIM, US
[72] WENDELER, MICHAELA, US
[72] WANG, XIANGYANG, US
[72] THOMPSON, CHRIS, US
[72] XI, GUOLING, US
[72] FULTON, ANDREW, US
[73] MEDIMMUNE, LLC, US
[85] 2015-06-11
[86] 2013-12-19 (PCT/US2013/076625)
[87] (WO2014/100443)
[30] US (61/740,111) 2012-12-20

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[11] **2,896,066**
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01)**

[25] EN
[54] **HUMAN ANTI-TAU ANTIBODIES**
[54] **ANTICORPS ANTI-TAU HUMAINS**
[72] WEINREB, PAUL H., US
[72] CHEN, FENG, CH
[72] GARBER, ELLEN A., US
[72] GRIMM, JAN, CH
[72] MONTRASIO, FABIO, CH
[73] BIOGEN MA INC., US
[73] BIOGEN INTERNATIONAL NEUROSCIENCE GMBH, CH
[85] 2015-06-19
[86] 2013-12-20 (PCT/US2013/076952)
[87] (WO2014/100600)
[30] US (61/745,410) 2012-12-21

[11] **2,896,217**
[13] C

[51] **Int.Cl. F24C 15/00 (2006.01) F23G 5/46 (2006.01) F24C 13/00 (2006.01)**

[25] EN
[54] **ENERGY RECOVERY SYSTEM**
[54] **MECANISME DE RECUPERATION D'ENERGIE**
[72] HIRMIZ, RAFAT, CA
[72] COTTON, JAMES, CA
[72] GIRARD, JEFFREY, CA
[72] CINO, MICHAEL, CA
[72] BRUCE, EDWARD CORBIN, CA
[72] HANA, YAKOOB, CA
[72] SADEK, HOSSAM, CA
[73] MCMASTER UNIVERSITY, CA
[86] (2896217)
[87] (2896217)
[22] 2015-07-06
[30] US (62/021,034) 2014-07-04
[30] US (62/021,036) 2014-07-04

[11] **2,896,939**
[13] C

[51] **Int.Cl. A61K 31/7105 (2006.01) A61K 48/00 (2006.01) A61P 5/00 (2006.01) C07K 14/705 (2006.01)**

[25] EN
[54] **TREATMENT OF HYPERHIDROSIS**
[54] **TRAITEMENT DE L'HYPERHIDROSE**
[72] DAHL, NIKLAS, SE
[73] HIDROS THERAPEUTICS INTERNATIONAL AB, SE
[85] 2015-06-30
[86] 2013-12-13 (PCT/SE2013/051508)
[87] (WO2014/107124)
[30] US (61/748,592) 2013-01-03

[11] **2,897,251**
[13] C

[51] **Int.Cl. A61K 38/48 (2006.01) C12N 9/48 (2006.01)**

[25] EN
[54] **MODIFIED ACE2 POLYPEPTIDES**
[54] **POLYPEPTIDES ACE2 MODIFIES**
[72] LOIBNER, HANS, AT
[72] PEBALL, BERNHARD, AT
[72] SCHUSTER, MANFRED, AT
[72] STRANNER, STEFAN, AT
[73] APEIRON BIOLOGICS AG, AT
[85] 2015-07-06
[86] 2014-01-13 (PCT/EP2014/050457)
[87] (WO2014/108530)
[30] US (61/752,023) 2013-01-14

[11] **2,897,422**
[13] C

[51] **Int.Cl. F23C 9/00 (2006.01) F23C 5/08 (2006.01) F23C 6/00 (2006.01) F23C 9/08 (2006.01) F23D 23/00 (2006.01)**

[25] EN
[54] **LOW NOX COMBUSTION METHOD AND APPARATUS**
[54] **PROCEDE DE COMBUSTION A FAIBLES EMISSIONS DE NOX ET APPAREIL**
[72] ROBERTSON, THOMAS F., US
[72] NOWAKOWSKI, JOHN J., US
[72] HANNUM, MARK C., US
[72] STORSLETT, STEIN J., US
[73] CHEVRON U.S.A. INC., US
[86] (2897422)
[87] (2897422)
[22] 2015-07-15
[30] US (62/024,689) 2014-07-15

[11] **2,897,638**
[13] C

[51] **Int.Cl. B05C 17/06 (2006.01) B05C 21/00 (2006.01)**

[25] EN
[54] **PAINT EDGING SYSTEM AND APPARATUS**
[54] **MECANISME ET APPAREIL SERVANT A PEINDRE LES BORDS**
[72] FEE, GARRY C., US
[72] MORPHEY, JOHN C., US
[73] NOVA WILDCAT SHUR-LINE, LLC, US
[86] (2897638)
[87] (2897638)
[22] 2015-07-15
[30] US (62/024,824) 2014-07-15

[11] **2,897,717**
[13] C

[51] **Int.Cl. F16D 7/06 (2006.01) B64C 13/38 (2006.01) F16D 9/00 (2006.01)**

[25] EN
[54] **AIRCRAFT COMPONENT ROTARY DEVICE**
[54] **DISPOSITIF DE COMPOSANTE ROTATIVE POUR AERONEF**
[72] BARGER, VICTOR, US
[73] HAMILTON SUNDSTRAND CORPORATION, US
[86] (2897717)
[87] (2897717)
[22] 2015-07-17
[30] US (62/026,310) 2014-07-18
[30] US (14/486,443) 2014-09-15

[11] **2,897,781**
[13] C

[51] **Int.Cl. E04H 15/54 (2006.01) E04H 15/64 (2006.01)**

[25] EN
[54] **RETRACTABLE CANOPY**
[54] **AUVENT RETRACTABLE**
[72] BAILEY, GREG, CA
[72] BROWN, TERRY JAMES, CA
[72] BARRON, ANDREW JOHN, CA
[73] OUTDOOR LIVING MANUFACTURING LTD., CA
[86] (2897781)
[87] (2897781)
[22] 2015-07-17

[11] **2,898,310**
[13] C

[51] **Int.Cl. B60W 20/00 (2016.01) B60W 10/04 (2006.01) B60W 10/06 (2006.01) B60W 10/08 (2006.01) B60W 10/24 (2006.01) B60W 10/26 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR POWER MANAGEMENT DURING REGENERATION MODE IN HYBRID ELECTRIC VEHICLES**
[54] **SYSTEME ET PROCEDE DE GESTION DE L'ENERGIE EN MODE REGENERATIF DANS LES VEHICULES ELECTRIQUES HYBRIDES**
[72] RUNDE, JEFFREY K., US
[72] WEST, STEPHEN T., US
[73] ALLISON TRANSMISSION, INC., US
[85] 2015-07-15
[86] 2014-03-05 (PCT/US2014/020513)
[87] (WO2014/158846)
[30] US (61/782,103) 2013-03-14

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[11] **2,898,807**
[13] C

[51] **Int.Cl. A61C 17/02 (2006.01) A61C 3/00 (2006.01)**
[25] EN
[54] **DENTAL HAND INSTRUMENT AND HEAD HOUSING THEREFOR**
[54] **INSTRUMENT DENTAIRE MANUEL ET LOGEMENT DE TETE ASSOCIE**
[72] KUHN, BERNHARD, DE
[72] CLASSEN, THOMAS, DE
[73] KAVO DENTAL GMBH, DE
[86] (2898807)
[87] (2898807)
[22] 2015-07-29
[30] EP (14 184 579.2) 2014-09-12

[11] **2,899,000**
[13] C

[51] **Int.Cl. A61J 1/20 (2006.01)**
[25] EN
[54] **PRESSURE-REGULATING VIAL ADAPTORS**
[54] **ADAPTATEURS POUR FLACON A REGULATION DE PRESSION**
[72] FANGROW, THOMAS F., US
[73] ICU MEDICAL, INC., US
[85] 2015-07-22
[86] 2014-01-21 (PCT/US2014/012381)
[87] (WO2014/116602)
[30] US (61/755,800) 2013-01-23
[30] US (61/785,874) 2013-03-14
[30] US (61/909,940) 2013-11-27

[11] **2,899,033**
[13] C

[51] **Int.Cl. B25B 23/155 (2006.01) A61B 17/56 (2006.01) A61B 17/88 (2006.01) B25B 23/147 (2006.01) F16D 7/04 (2006.01)**
[25] EN
[54] **IN-LINE DISPOSABLE TORQUE LIMITING DEVICE SUITABLE FOR POWER DRIVE**
[54] **DISPOSITIF LIMITEUR DE COUPLE DIRECT JETABLE APPROPRIE POUR UN ENTRAINEMENT MOTORISE**
[72] IVINSON, DAVID, US
[72] NINO, JOHN, US
[73] ECA MEDICAL INSTRUMENTS, US
[85] 2015-07-22
[86] 2014-01-07 (PCT/US2014/010550)
[87] (WO2014/116414)
[30] US (61/755,882) 2013-01-23

[11] **2,899,607**
[13] C

[51] **Int.Cl. G02F 1/15 (2019.01) G02F 1/155 (2006.01)**
[25] EN
[54] **DEFECT-MITIGATION LAYERS IN ELECTROCHROMIC DEVICES**
[54] **COUCHES D'ATTENUATION DE DEFAUT DANS DES DISPOSITIFS ELECTROCHROMIQUES**
[72] KAILASAM, SRIDHAR K., US
[72] FRIEDMAN, ROBIN, US
[72] GILLASPIE, DANE, US
[72] PRADHAN, ANSHU A., US
[72] ROZBICKI, ROBERT T., US
[72] MEHTANI, DISHA, US
[73] VIEW, INC., US
[85] 2015-07-28
[86] 2014-02-07 (PCT/US2014/015374)
[87] (WO2014/124303)
[30] US (13/763,505) 2013-02-08

[11] **2,900,772**
[13] C

[51] **Int.Cl. C08F 4/16 (2006.01) C08F 2/34 (2006.01) C08F 210/02 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **METHOD FOR ALTERING MELT FLOW RATIO OF ETHYLENE POLYMERS**
[54] **METHODE DE MODIFICATION DE LA PROPORTION DU FLUX DE FONTE DES POLYMERES ETHYLENIQUES**
[72] KER, VICTORIA, CA
[72] HOANG, PETER PHUNG MINH, CA
[73] NOVA CHEMICALS CORPORATION, CA
[86] (2900772)
[87] (2900772)
[22] 2015-08-20

[11] **2,901,150**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS OF AIDING DETECTION OF SURFACE ABNORMALITY IN THE OESOPHAGUS**
[54] **PROCEDE ET APPAREIL D'AIDE A LA DETECTION D'ANOMALIE DE SURFACE DANS L'OESOPHAGE**
[72] FITZGERALD, REBECCA, GB
[72] ROSS-INNES, CARYN, GB
[73] CAMBRIDGE ENTERPRISE LIMITED, GB
[73] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[85] 2015-08-12
[86] 2014-02-19 (PCT/GB2014/050484)
[87] (WO2014/128460)
[30] GB (1303078.8) 2013-02-21

[11] **2,901,524**
[13] C

[51] **Int.Cl. B01D 33/06 (2006.01)**
[25] EN
[54] **PINNED FLY RING FOR ROTARY DRUM WASHER AND METHOD OF MANUFACTURE**
[54] **BAGUE DE DEPLOIEMENT FIXEE POUR LESSIVEUSE A TAMBOUR ROTATIF ET METHODE DE FABRICATION**
[72] CLEMENT, JOEL KIMMETT, US
[72] TARDIE I, MICHAEL ALAN, US
[72] MERCHELL III, FRANK JOHN, US
[73] VALMET TECHNOLOGIES OY, FI
[86] (2901524)
[87] (2901524)
[22] 2015-08-21
[30] US (62/040,788) 2014-08-22

[11] **2,902,137**
[13] C

[51] **Int.Cl. A01K 13/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **ANIMAL APRON**
[54] **TABLIER POUR ANIMAL**
[72] THOMAS, ELIZABETH, CA
[73] THOMAS, ELIZABETH, CA
[86] (2902137)
[87] (2902137)
[22] 2015-08-27

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[11] **2,902,640**
[13] C

[51] **Int.Cl. A61F 2/46 (2006.01) A61B 17/14 (2006.01)**
[25] EN
[54] **ACETABULAR CUP REMOVER WITH INDEXING ASSEMBLY FOR ROTATING THE REMOVAL BLADE AROUND THE CUP**
[54] **DISPOSITIF DE RETRAIT DE COTYLE PROTHETIQUE COMPRENANT UN ENSEMBLE D'INDEXAGE POUR FAIRE TOURNER LA LAME DE RETRAIT AUTOUR DU COTYLE**
[72] NIC, DAVID M., US
[73] STRYKER CORPORATION, US
[85] 2015-08-26
[86] 2013-03-01 (PCT/US2013/028535)
[87] (WO2014/133536)

[11] **2,902,703**
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **MICRODERMABRASION SYSTEM WITH ERGONOMIC HANDLE**
[54] **SYSTEME DE MICRODERMABRASION DOTE D'UNE POIGNEE ERGONOMIQUE**
[72] BOONE, N. BRENDON, III, US
[73] ENVY MEDICAL, INC., US
[85] 2015-08-26
[86] 2014-03-03 (PCT/US2014/020014)
[87] (WO2014/134618)
[30] US (13/783,187) 2013-03-01

[11] **2,902,722**
[13] C

[51] **Int.Cl. A23L 2/395 (2006.01) A23L 19/00 (2016.01) A23L 23/10 (2016.01) A23L 27/10 (2016.01) A23L 33/105 (2016.01) A23F 3/22 (2006.01) A23F 3/30 (2006.01) A23F 3/34 (2006.01) A23F 3/36 (2006.01) A23L 2/38 (2021.01) A23L 2/39 (2006.01)**
[25] EN
[54] **COMPOSITION FOR MAKING A TEA BEVERAGE OR HERBAL AND VEGETABLE BROTHS**
[54] **COMPOSITION POUR LA PREPARATION D'UNE BOISSON A BASE DE THE OU DE BOUILLONS D'HERBES ET DE LEGUMES**
[72] RAGOT, PHILIPPE, FR
[72] MOMPON, BERNARD, FR
[72] ROUSSEAU, CEDRIC, FR
[72] PONS, ESTHER, FR
[72] PINEAU, CHRISTIAN, FR
[73] SWM LUXEMBOURG S.A.R.L., LU
[85] 2015-08-26
[86] 2014-02-27 (PCT/US2014/018870)
[87] (WO2014/134254)
[30] US (61/770,564) 2013-02-28

[11] **2,903,568**
[13] C

[51] **Int.Cl. C12N 15/81 (2006.01)**
[25] EN
[54] **CONSTITUTIVE PROMOTER**
[54] **PROMOTEUR CONSTITUTIF**
[72] MATTANOVICH, DIETHARD, AT
[72] GASSER, BRIGITTE, AT
[72] PRIELHOFER, ROLAND, AT
[73] LONZA LTD, CH
[85] 2015-09-02
[86] 2013-12-18 (PCT/EP2013/077144)
[87] (WO2014/139608)
[30] EP (13159527.4) 2013-03-15
[30] US (13/835,589) 2013-03-15

[11] **2,903,770**
[13] C

[51] **Int.Cl. A23L 27/00 (2016.01) A23L 27/20 (2016.01) A23L 27/28 (2016.01)**
[25] EN
[54] **FLAVOR COMPOSITION CONTAINING 3-HYDROXY-3-METHYLGLUTARIC ACID (HMG) GLUCOSIDES**
[54] **COMPOSITION DE SAVEUR CONTENANT DES GLUCOSIDES A L'ACIDE 3-HYDROXY-3-METHYLGLUTARIQUE (HMG)**
[72] DIDZBALIS, JOHN, US
[72] MUNAFO, JOHN P., US
[73] MARS, INCORPORATED, US
[85] 2015-09-02
[86] 2014-03-11 (PCT/US2014/023727)
[87] (WO2014/159452)
[30] US (61/785,702) 2013-03-14

[11] **2,903,801**
[13] C

[51] **Int.Cl. B26F 1/00 (2006.01) A23P 30/00 (2016.01) B26F 1/38 (2006.01)**
[25] EN
[54] **CUTTER HAVING VARIED CAVITY DRAFT ANGLE**
[54] **DISPOSITIF DE COUPE AYANT UN ANGLE DE DEPOUILLE DE CAVITE VARIABLE**
[72] CAPAR, PAUL, US
[73] MARS, INCORPORATED, US
[85] 2015-09-02
[86] 2014-03-14 (PCT/US2014/027225)
[87] (WO2014/152336)
[30] US (61/789,656) 2013-03-15

[11] **2,903,944**
[13] C

[51] **Int.Cl. H01M 4/38 (2006.01) H01M 10/052 (2010.01) H01M 10/44 (2006.01)**
[25] EN
[54] **A METHOD OF CYCLING A LITHIUM-SULPHUR CELL**
[54] **PROCEDE DE CYCLAGE D'UNE BATTERIE AU LITHIUM-SOUFRE**
[72] KABACIK, LUKASZ, GB
[73] JOHNSON MATTHEY PLC, GB
[85] 2015-09-03
[86] 2014-03-21 (PCT/GB2014/050890)
[87] (WO2014/155069)
[30] EP (13160756.6) 2013-03-25
[30] GB (1321703.9) 2013-12-09

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[11] **2,904,310**
[13] C

[51] **Int.Cl. A61K 31/4402 (2006.01) A61K 31/4045 (2006.01) A61K 31/405 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **PREPARATIONS FOR THE TREATMENT OF SLEEP-RELATED RESPIRATORY DISORDERS**

[54] **PREPARATIONS POUR LE TRAITEMENT DE TROUBLES RESPIRATOIRES LIES AU SOMMEIL**

[72] KNUTSEN, LARS JACOB STRAY, US

[72] HAND, JAMES M., US

[73] REQUIS PHARMACEUTICALS INC., US

[85] 2015-09-04

[86] 2014-03-05 (PCT/US2014/020542)

[87] (WO2014/138162)

[30] US (61/773,045) 2013-03-05

[11] **2,904,678**
[13] C

[51] **Int.Cl. A61B 17/072 (2006.01) A61B 17/064 (2006.01)**

[25] EN

[54] **SURGICAL STAPLER WITH PARTIAL POCKETS**

[54] **AGRAFEUSE CHIRURGICALE POURVUE DE POCHEs PARTIELLES**

[72] HOPKINS, TIMOTHY, US

[72] GADBERRY, DONALD L., US

[72] BECERRA, MATTHEW M., US

[72] JASEMIAN, BABEK, US

[72] JOHNSON, GARY M., US

[72] DECKER, STEVEN E., US

[73] APPLIED MEDICAL RESOURCES CORPORATION, US

[85] 2015-09-08

[86] 2014-03-14 (PCT/US2014/028211)

[87] (WO2014/152912)

[30] US (61/785,100) 2013-03-14

[11] **2,905,427**
[13] C

[51] **Int.Cl. G02B 27/01 (2006.01) H04L 65/403 (2022.01) A61B 3/10 (2006.01) G06F 3/01 (2006.01) G09G 5/377 (2006.01)**

[25] EN

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

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

[72] MILLER, SAMUEL A., US

[72] ABOVITZ, RONY, US

[73] MAGIC LEAP, INC., US

[85] 2015-09-10

[86] 2014-03-11 (PCT/US2014/023739)

[87] (WO2014/164901)

[30] US (61/776,771) 2013-03-11

[11] **2,905,575**
[13] C

[51] **Int.Cl. C25D 21/12 (2006.01) C25D 5/00 (2006.01) C25D 5/12 (2006.01) C25D 21/10 (2006.01)**

[25] EN

[54] **A METHOD AND APPARATUS FOR CONTINUOUSLY APPLYING NANOLAMINATE METAL COATINGS**

[54] **PROCEDE ET APPAREIL D'APPLICATION EN CONTINU DE REVETEMENTS METALLIQUES NANOSTRATIFIES**

[72] LOMASNEY, CHRISTINA A., US

[73] MODUMETAL, INC., US

[85] 2015-09-10

[86] 2014-03-18 (PCT/US2014/031101)

[87] (WO2014/146117)

[30] US (61/802,102) 2013-03-15

[11] **2,906,728**
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MOBILE DEVICE ANALYSIS OF NUCLEIC ACIDS AND PROTEINS**

[54] **SYSTEMES ET PROCEDES POUR UNE ANALYSE PAR DISPOSITIF MOBILE D'ACIDES NUCLEIQUES ET DE PROTEINES**

[72] GOEL, ANITA, US

[73] NANOBIOSYM, INC., US

[85] 2015-09-14

[86] 2014-03-14 (PCT/US2014/029008)

[87] (WO2014/144548)

[30] US (61/790,354) 2013-03-15

[30] US (61/875,661) 2013-09-09

[30] US (61/951,084) 2014-03-11

[11] **2,907,356**
[13] C

[51] **Int.Cl. C07F 15/00 (2006.01) A61K 31/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METAL-BASED COORDINATION COMPLEXES AS PHOTODYNAMIC COMPOUNDS AND THEIR USE**

[54] **COMPLEXES DE COORDINATION A BASE DE METAL EN TANT QUE COMPOSES PHOTODYNAMIQUES ET LEUR UTILISATION**

[72] MCFARLAND, SHERRI ANN, CA

[73] MCFARLAND, SHERRI ANN, CA

[85] 2015-09-15

[86] 2014-03-17 (PCT/US2014/030194)

[87] (WO2014/145428)

[30] US (61/801,674) 2013-03-15

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[11] **2,907,654**
[13] C

[51] **Int.Cl. C12M 1/38 (2006.01)**
[25] EN
[54] **PCR THERMAL BLOCK WITH
PATTERN HEATERS
REPEATEDLY ARRANGED AND
PCR APPARATUS INCLUDING
SAME**
[54] **BLOC THERMIQUE DE PCR
AVEC CHAUFFAGES PROFILES
AGENCES DE FACON REPETEE
ET APPAREIL DE PCR
COMPRENANT CELUI-CI**
[72] KIM, SUNG-WOO, KR
[72] LEE, JUNG-HWAN, KR
[72] KIM, DUCK-JOONG, KR
[73] NANOBIO SYS INC., KR
[85] 2015-09-17
[86] 2014-03-18 (PCT/KR2014/002284)
[87] (WO2014/148800)
[30] KR (10-2013-0028772) 2013-03-18

[11] **2,908,388**
[13] C

[51] **Int.Cl. C07K 7/64 (2006.01) A61K
38/12 (2006.01)**
[25] EN
[54] **BETA-HAIRPIN
PEPTIDOMIMETICS**
[54] **PEPTIDOMIMETIQUES EN
EPINGLE A CHEVEUX BETA**
[72] OBRECHT, DANIEL, CH
[72] LUTHER, ANATOL, DE
[72] BERNARDINI, FRANCESCA, FR
[72] ZBINDEN, PETER, CH
[73] POLYPHOR AG, CH
[85] 2015-09-29
[86] 2014-03-28 (PCT/EP2014/056285)
[87] (WO2014/161782)
[30] EP (13001657.9) 2013-03-30

[11] **2,908,863**
[13] C

[51] **Int.Cl. C07K 5/113 (2006.01) A61K
38/07 (2006.01) C07K 5/02 (2006.01)
C07K 5/083 (2006.01) C07K 5/09
(2006.01) C07K 5/093 (2006.01)**
[25] EN
[54] **COMPOUNDS USEFUL IN THE
TREATMENT AND/OR CARE OF
THE SKIN AND THEIR
COSMETIC OR
PHARMACEUTICAL
COMPOSITIONS**
[54] **COMPOSES UTILES DANS LE
TRAITEMENT ET/OU LE SOIN DE
LA PEAU ET LEURS
COMPOSITIONS COSMETIQUES
OU PHARMACEUTIQUES**
[72] FERRER MONTIEL, ANTONIO
VICENTE, ES
[72] ALMINANA DOMENECH, NURIA,
ES
[72] CEBRIAN PUCHE, JUAN, ES
[72] VAN DEN NEST, WIM, ES
[72] CARRENO SERRAIMA, CRISTINA,
ES
[72] DELGADO GONZALEZ, RAQUEL,
ES
[73] LUBRIZOL ADVANCED
MATERIALS, INC., US
[85] 2015-10-01
[86] 2014-04-15 (PCT/EP2014/057672)
[87] (WO2014/170347)
[30] EP (13382138.9) 2013-04-15

[11] **2,909,089**
[13] C

[51] **Int.Cl. A61K 31/132 (2006.01) A61K
8/41 (2006.01) A61P 29/00 (2006.01)
A61Q 19/08 (2006.01)**
[25] EN
[54] **COSMETIC OR
PHARMACEUTICAL
COMPOSITION FOR RESISTING
SKIN AGEING THROUGH AN
ANTI-INFLAMMATORY ACTION**
[54] **COMPOSITION COSMETIQUE OU
PHARMACEUTIQUE DESTINEE A
EMPECHER LE VIEILLISSEMENT
DE LA PEAU PAR UNE ACTION
ANTI-INFLAMMATOIRE**
[72] GIULIANI, GIAMMARIA, IT
[72] BENEDUSI, ANNA, IT
[72] MARZANI, BARBARA, IT
[72] BARONI, SERGIO, IT
[72] PAUS, RALF, DE
[73] GIULIANI S.P.A., IT
[85] 2015-10-07
[86] 2014-04-09 (PCT/IB2014/060555)
[87] (WO2014/167508)
[30] IT (MI2013A000555) 2013-04-09

[11] **2,909,919**
[13] C

[51] **Int.Cl. A61K 51/04 (2006.01) A61K
9/08 (2006.01) A61K 49/06 (2006.01)
A61K 49/10 (2006.01)**
[25] FR
[54] **CONTRAST MEDIUM
FORMULATION AND RELATED
PREPARATION METHOD**
[54] **FORMULATION DE PRODUIT DE
CONTRASTE ET SON PROCEDE
DE PREPARATION ASSOCIE**
[72] MEDINA, CHRISTELLE, FR
[72] SABATOU, MONIQUE, FR
[72] PETIT, ANNE, FR
[72] PORT, MARC, FR
[73] GUERBET, FR
[85] 2015-10-20
[86] 2014-04-28 (PCT/EP2014/058617)
[87] (WO2014/174120)
[30] FR (1353883) 2013-04-26

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[11] **2,910,093**
[13] C

[51] **Int.Cl. F21K 9/60 (2016.01) E05F 15/668 (2015.01) F21K 9/66 (2016.01) F21K 9/68 (2016.01)**

[25] EN

[54] **MOVABLE BARRIER OPERATOR LIGHT DISTRIBUTION**

[54] **DISTRIBUTION D'ECLAIRAGE FONCTIONNEL DE BARRIERE MOBILE**

[72] BIRDWELL, TIMOTHY GALE, US

[72] BRETSCHNEIDER, ERIC COLIN, US

[72] FITZGIBBON, JAMES J., US

[73] THE CHAMBERLAIN GROUP, INC., US

[86] (2910093)

[87] (2910093)

[22] 2015-10-22

[30] US (62/067,610) 2014-10-23

[30] US (14/879,678) 2015-10-09

[11] **2,911,354**
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01)**

[25] EN

[54] **LOAD POWER DEVICE, SYSTEM AND METHOD OF LOAD CONTROL AND MANAGEMENT EMPLOYING LOAD IDENTIFICATION**

[54] **DISPOSITIF DE PUISSANCE DE SORTIE, SYSTEME ET METHODE DE COMMANDE DE PUISSANCE ET GESTION EMPLOYANT L'IDENTIFICATION DE PUISSANCE**

[72] YANG, YI, US

[72] LUEBKE, CHARLES JOHN, US

[72] SCHOEPP, THOMAS J., DE

[73] EATON INTELLIGENT POWER LIMITED, IE

[86] (2911354)

[87] (2911354)

[22] 2015-11-05

[30] US (14/564,796) 2014-12-09

[11] **2,912,107**
[13] C

[51] **Int.Cl. B64D 15/22 (2006.01) B64D 15/16 (2006.01)**

[25] EN

[54] **HEALTH MONITORING PNEUMATIC DEICER**

[54] **DEGIVREUR PNEUMATIQUE SURVEILLANT L'ETAT FONCTIONNEL**

[72] GIAMATI, MICHAEL JOHN, US

[73] GOODRICH CORPORATION, US

[86] (2912107)

[87] (2912107)

[22] 2015-11-16

[30] US (14/606,624) 2015-01-27

[11] **2,912,488**
[13] C

[51] **Int.Cl. A61K 36/889 (2006.01) A61K 36/28 (2006.01) A61K 36/9068 (2006.01) A61P 13/08 (2006.01)**

[25] EN

[54] **COMBINATIONS OF EXTRACTS OF SERENOA REPENS AND LIPOPHILIC EXTRACTS OF ZINGIBER OFFICINALIS AND ECHINACEA ANGUSTIFOLIA, THE USE THEREOF, AND FORMULATIONS CONTAINING THEM**

[54] **COMBINAISONS D'EXTRAITS DE SERENOA REPENS ET D'EXTRAITS LIPOPHILES DE ZINGIBER OFFICINALIS ET D'ECHINACEA ANGUSTIFOLIA, UTILISATION DE CES COMBINAISONS ET FORMULATIONS CONTENANT CES DERNIERES**

[72] BOMBARDELLI, EZIO, IT

[72] MORAZZONI, PAOLO, IT

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

[85] 2015-11-13

[86] 2014-05-07 (PCT/EP2014/059297)

[87] (WO2014/184063)

[30] IT (MI2013A000807) 2013-05-16

[11] **2,915,971**
[13] C

[51] **Int.Cl. G01D 5/353 (2006.01) G01H 9/00 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN FIBRE OPTIC DISTRIBUTED SENSING**

[54] **AMELIORATIONS APORTEES A UNE DETECTION DISTRIBUEE PAR FIBRES OPTIQUES**

[72] ALASTAIR, GODFREY, GB

[72] ROGER IAN, CRICKMORE, GB

[73] OPTASENSE HOLDINGS LIMITED, GB

[85] 2015-12-17

[86] 2014-06-27 (PCT/GB2014/051963)

[87] (WO2014/207477)

[30] GB (1311656.1) 2013-06-28

[11] **2,916,371**
[13] C

[51] **Int.Cl. E21B 43/267 (2006.01) E21B 43/00 (2006.01)**

[25] EN

[54] **RESERVOIR SIMULATOR, METHOD AND COMPUTER PROGRAM PRODUCT**

[54] **SIMULATEUR DE GISEMENT, PROCEDE ET PRODUIT-PROGRAMME D'ORDINATEUR**

[72] WALTERS, HAROLD G., US

[72] WONG, TERRY W., US

[72] CAMILLERI, DOMINIC, US

[72] KUMAR, AMIT, US

[73] LANDMARK GRAPHICS CORPORATION, US

[85] 2015-12-21

[86] 2013-08-30 (PCT/US2013/057635)

[87] (WO2015/030807)

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[11] **2,916,497**
[13] C

[51] **Int.Cl. A61K 38/07 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **METHODS FOR THE REGULATION OF MATRIX METALLOPROTEINASE EXPRESSION**
[54] **PROCEDES POUR LA REGULATION DE L'EXPRESSION DE LA METALLOPROTEINASE MATRICIELLE**
[72] WILSON, D. TRAVIS, US
[72] KLONER, ROBERT A., US
[73] STEALTH BIOTHERAPEUTICS INC., US
[85] 2015-12-21
[86] 2014-06-24 (PCT/US2014/043950)
[87] (WO2014/210062)
[30] US (61/839,755) 2013-06-26

[11] **2,916,630**
[13] C

[51] **Int.Cl. G01V 99/00 (2009.01) E21B 49/00 (2006.01)**
[25] EN
[54] **FRACABILITY MEASUREMENT METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE MESURE DE FRACTURABILITE**
[72] LY, CHI VINH, FR
[72] SPENCE, GRAHAM, FR
[73] CGG SERVICES SA, FR
[85] 2015-12-22
[86] 2014-06-26 (PCT/EP2014/063587)
[87] (WO2014/207137)
[30] US (61/839,934) 2013-06-27
[30] US (61/839,932) 2013-06-27
[30] US (14/156,719) 2014-01-16

[11] **2,916,896**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) H04L 41/22 (2022.01) H04L 12/16 (2006.01) H04L 41/12 (2022.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR AUTOMATING NETWORK DATA ANALYSIS OF USER'S ACTIVITIES**
[54] **PROCEDE ET APPAREIL PERMETTANT D'AUTOMATISER L'ANALYSE DE DONNEES DE RESEAU EN RAPPORT AVEC LES ACTIVITES D'UN UTILISATEUR**
[72] BUTLER, PATRICK DAVID, US
[72] MARSHALL, TONY BRETT, US
[72] JACOBSON, MARK F., US
[73] BABEL STREET, INC., US
[85] 2015-12-24
[86] 2014-06-30 (PCT/US2014/044849)
[87] (WO2014/210592)
[30] US (13/931,467) 2013-06-28

[11] **2,917,177**
[13] C

[51] **Int.Cl. C07D 401/12 (2006.01) A01N 43/68 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL AZINES**
[54] **AZINES HERBICIDES**
[72] MAJOR, JULIA, DE
[72] VOGT, FLORIAN, DE
[72] CALO, FREDERICK, DE
[72] WITSCHER, MATTHIAS, DE
[72] SCHACHTSCHABEL, DOREEN, DE
[72] NEWTON, TREVOR WILLIAM, DE
[72] SEITZ, THOMAS, DE
[72] HANZLIK, KRISTIN, DE
[73] BASF SE, DE
[85] 2015-12-30
[86] 2014-07-15 (PCT/EP2014/065092)
[87] (WO2015/007711)
[30] EP (13176634.7) 2013-07-16
[30] EP (14165546.4) 2014-04-23

[11] **2,917,842**
[13] C

[51] **Int.Cl. G06M 1/04 (2006.01)**
[25] EN
[54] **DOSE INDICATOR OR DOSE COUNTER**
[54] **INDICATEUR DE DOSE OU COMPTEUR DE DOSES**
[72] STUART, ADAM, GB
[72] HOWGILL, STEPHEN J., GB
[73] KINDEVA DRUG DELIVERY L.P., US
[85] 2016-01-08
[86] 2014-07-08 (PCT/US2014/045694)
[87] (WO2015/006292)
[30] GB (1312448.2) 2013-07-11

[11] **2,918,039**
[13] C

[51] **Int.Cl. B01D 53/56 (2006.01) B01D 53/86 (2006.01) B01J 23/00 (2006.01) B01J 37/03 (2006.01)**
[25] EN
[54] **NITROUS OXIDE DECOMPOSITION CATALYST**
[54] **CATALYSEUR DE DECOMPOSITION DE L'OXYDE NITREUX**
[72] GOPAL, SRIKANT, IN
[72] KLEMT, ANDREAS, DE
[72] SCHRICKER, RALF, DE
[72] PANCHAGNULA, MADHUSUDHAN RAO, IN
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2016-01-11
[86] 2014-07-29 (PCT/EP2014/066317)
[87] (WO2015/014863)
[30] IN (3457/CHE/2013) 2013-07-31

[11] **2,918,947**
[13] C

[51] **Int.Cl. G06T 7/73 (2017.01) G06V 10/44 (2022.01) G06V 10/46 (2022.01) G06T 5/10 (2006.01)**
[25] EN
[54] **KEYPOINT IDENTIFICATION**
[54] **IDENTIFICATION DE POINTS CLES**
[72] BALESTRI, MASSIMO, IT
[72] FRANCONI, GIANLUCA, IT
[72] LEPLOY, SKJALG, IT
[73] TELECOM ITALIA S.P.A., IT
[85] 2016-01-21
[86] 2014-07-23 (PCT/EP2014/065808)
[87] (WO2015/011185)
[30] IT (MI2013A001244) 2013-07-24

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[11] **2,919,086**
[13] C

[51] **Int.Cl. H02P 21/13 (2006.01) H02P 21/14 (2016.01) H02P 23/12 (2006.01) H02P 23/14 (2006.01)**

[25] EN

[54] **MODULAR INVERTER BAY AND CONTROL METHOD FOR SAME FOR A SET OF ELECTRIC MACHINES WITH NO POSITION SENSORS**

[54] **BAIE MODULAIRE D'ONDULEURS ET SON PROCEDE DE PILOTAGE POUR UN ENSEMBLE DE MACHINES ELECTRIQUES DEPOURVUES DE CAPTEURS DE POSITION**

[72] DAL, ARNAUD, FR

[73] THALES, FR

[85] 2016-01-22

[86] 2014-07-24 (PCT/EP2014/065962)

[87] (WO2015/011242)

[30] FR (1301765) 2013-07-24

[11] **2,919,302**
[13] C

[51] **Int.Cl. B60G 7/02 (2006.01)**

[25] EN

[54] **IFS INCLUDING STRUT PIVOTALLY SECURED TO CHASSIS WITH CLEVIS RING**

[54] **IFS COMPORTANT UN MONTANT FIXE AU CHASSIS DE MANIERE PIVOTANTE AU MOYEN D'UN ANNEAU A MANILLE**

[72] HINZ, JOHN A., US

[73] REYCO GRANNING, LLC, US

[86] (2919302)

[87] (2919302)

[22] 2016-01-28

[30] US (14/684,697) 2015-04-13

[11] **2,919,630**
[13] C

[51] **Int.Cl. G08G 1/01 (2006.01) G01C 21/32 (2006.01)**

[25] FR

[54] **DEVICE AND UPDATE PROCESS FOR A DATABASE OF AUTHORIZED SPEED LIMITS**

[54] **DISPOSITIF ET PROCEDE DE MISE A JOUR D'UNE BASE DE DONNEES DES VITESSES LIMITES DE CIRCULATION AUTORISEES**

[72] VAN LAETHEM, JEAN-MARC, FR

[72] PIERLOT, FABIEN, FR

[73] COYOTE SYSTEM, FR

[85] 2016-01-27

[86] 2014-07-30 (PCT/FR2014/051971)

[87] (WO2015/019002)

[30] FR (FR13/01897) 2013-08-07

[11] **2,920,525**
[13] C

[51] **Int.Cl. G01N 15/08 (2006.01)**

[25] EN

[54] **CONDITIONING OF EXPANDED POROSITY**

[54] **CONDITIONNEMENT DE POROSITE EXPANSE**

[72] GRADER, ABRAHM S., US

[72] MU, YAOMING, US

[72] SUHRER, MICHAEL, US

[72] TOELKE, JONAS, US

[73] INGRAIN, INC., US

[85] 2016-02-04

[86] 2014-08-08 (PCT/US2014/050412)

[87] (WO2015/021424)

[30] US (61/863,508) 2013-08-08

[11] **2,921,631**
[13] C

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/04 (2006.01) B01L 3/00 (2006.01)**

[25] EN

[54] **SAMPLE PREPARATION WORKSTATION**

[54] **STATION DE TRAVAIL DE PREPARATION D'ECHANTILLON**

[72] ANDERSSON, LARS, SE

[72] WILLIAMS, LEE, GB

[73] BIOTAGE AB, SE

[85] 2016-02-17

[86] 2014-08-19 (PCT/EP2014/067614)

[87] (WO2015/024921)

[30] EP (13181183.8) 2013-08-21

[11] **2,921,762**
[13] C

[51] **Int.Cl. A61K 8/55 (2006.01) A61Q 19/00 (2006.01) A61Q 19/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR THE REMOVAL OF TATTOOS**

[54] **COMPOSITIONS ET METHODES POUR ENLEVER DES TATOUAGES**

[72] FALKENHAM, ALEC GUY, CA

[73] DALHOUSIE UNIVERSITY, CA

[85] 2016-02-18

[86] 2014-08-28 (PCT/CA2014/000663)

[87] (WO2015/027328)

[30] US (61/871,929) 2013-08-30

[11] **2,922,220**
[13] C

[51] **Int.Cl. C07C 323/60 (2006.01) A61K 47/54 (2017.01) A61K 38/10 (2006.01) C07C 233/18 (2006.01) C07C 233/47 (2006.01) C07C 235/04 (2006.01) C07C 237/22 (2006.01) C07C 271/16 (2006.01) C07C 271/22 (2006.01) C07K 1/04 (2006.01) C07K 1/107 (2006.01) C07K 2/00 (2006.01) C07K 5/00 (2006.01) C07K 14/00 (2006.01) C07K 14/47 (2006.01) C07K 14/505 (2006.01) C07K 14/575 (2006.01) C07K 14/605 (2006.01) C07K 14/695 (2006.01)**

[25] EN

[54] **AMINO DIACIDS CONTAINING PEPTIDE MODIFIERS**

[54] **MODIFICATEURS PEPTIDIQUES CONTENANT DES DIACIDES AMINES**

[72] BARLOS, KLEOMENIS, GR

[72] GATOS, DIMITRIOS, GR

[72] BARLOS, KOSTAS K., GR

[72] VASILEIOU, ZOI, GR

[73] CHEMICAL & BIOPHARMACEUTICAL LABORATORIES OF PATRAS S.A., GR

[85] 2016-02-23

[86] 2014-08-28 (PCT/IB2014/064123)

[87] (WO2015/028966)

[30] GB (1315335.8) 2013-08-29

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[13] C

[51] **Int.Cl. E04D 13/17 (2006.01) F24F 7/02 (2006.01)**
[25] EN
[54] **Z-CLOSURE MEMBER WITH FILTER RETENTION FEATURES**
[54] **OBTURATEUR EN Z AVEC CARACTERISTIQUES DE RETENUE DE FILTRE**
[72] GLICK, MANNY, US
[73] GLICK, EMANUEL S., JR., US
[86] (2922298)
[87] (2922298)
[22] 2016-03-02

[11] **2,922,345**
[13] C

[51] **Int.Cl. H01M 12/06 (2006.01) H01M 8/18 (2006.01) H01M 8/20 (2006.01)**
[25] EN
[54] **AN ELECTROCHEMICAL SYSTEM FOR STORING ELECTRICITY IN METALS**
[54] **SYSTEME ELECTROCHIMIQUE PERMETTANT DE STOCKER L'ELECTRICITE DANS DES METAUX**
[72] ZHANG, XIAOGE GREGORY, CA
[73] E-ZN INC., CA
[85] 2016-02-24
[86] 2014-08-19 (PCT/IB2014/002144)
[87] (WO2015/028887)
[30] US (61/870,104) 2013-08-26
[30] US (14/462,019) 2014-08-18

[11] **2,922,361**
[13] C

[51] **Int.Cl. A61K 31/702 (2006.01) A61K 47/12 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **INTERMEDIATE METABOLISM PRODUCTS TO POTENTIATE AMINOGLYCOSIDE ANTIBIOTICS IN BACTERIAL INFECTIONS**
[54] **PRODUITS METABOLIQUES INTERMEDIAIRES POUR POTENTIALISER DES ANTIBIOTIQUES AMINOGLYCOSIDES DANS DES INFECTIONS BACTERIENNES**
[72] COLLINS, JAMES J., US
[72] MEYLAN, SYLVAIN, US
[72] MOSKOWITZ, SAMUEL, US
[73] TRUSTEES OF BOSTON UNIVERSITY, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2016-02-24
[86] 2014-08-29 (PCT/US2014/053425)
[87] (WO2015/031765)
[30] US (61/871,554) 2013-08-29

[11] **2,922,798**
[13] C

[51] **Int.Cl. H04N 21/2387 (2011.01) H04N 21/432 (2011.01)**
[25] EN
[54] **PROVIDING RESPONSIVE VIDEO PREVIEWS DURING REWIND AND FAST FORWARD**
[54] **FOURNITURE DE PREVISUALISATIONS DE VIDEO ADAPTEES DURANT UN REBOBINAGE OU UNE AVANCE RAPIDE**
[72] FURTWANGLER, BRANDON C., US
[73] HOME BOX OFFICE, INC., US
[85] 2016-02-29
[86] 2014-08-20 (PCT/US2014/051813)
[87] (WO2015/031121)
[30] US (14/011,083) 2013-08-27

[11] **2,922,876**
[13] C

[51] **Int.Cl. H01M 4/88 (2006.01) H01M 4/90 (2006.01) H01M 8/12 (2016.01) H01M 8/24 (2016.01)**
[25] EN
[54] **PROCESS FOR FORMING A METAL SUPPORTED SOLID OXIDE FUEL CELL**
[54] **PROCESSUS POUR FORMER UNE PILE A COMBUSTIBLE A OXYDE SOLIDE PORTEE PAR METAL**
[72] LEAH, ROBERT, GB
[72] LANKIN, MIKE, GB
[72] PIERCE, ROBIN, GB
[72] BONE, ADAM, GB
[73] CERES INTELLECTUAL PROPERTY COMPANY LIMITED, GB
[85] 2016-03-01
[86] 2014-08-20 (PCT/GB2014/052546)
[87] (WO2015/033103)
[30] GB (1315744.1) 2013-09-04

[11] **2,922,965**
[13] C

[51] **Int.Cl. F16D 3/202 (2006.01) F16D 3/207 (2006.01)**
[25] EN
[54] **ACTUATION MECHANISM FOR A MECHANICAL DIODE ASSEMBLY**
[54] **MECANISME D'ACTIONNEMENT POUR UN ENSEMBLE DE DIODE MECANIQUE**
[72] RICHARDSON, PAUL A., US
[72] TURNER, JEREMY, US
[73] ALLISON TRANSMISSION, INC., US
[85] 2016-03-01
[86] 2014-07-23 (PCT/US2014/047747)
[87] (WO2015/047525)
[30] US (14/034,942) 2013-09-24

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[11] **2,923,210**
[13] C

[51] **Int.Cl. A61G 7/05 (2006.01) A61G 7/002 (2006.01) A61G 7/012 (2006.01) A61G 7/015 (2006.01)**

[25] EN

[54] **PATIENT SUPPORT USABLE WITH BARIATRIC PATIENTS**

[54] **SUPPORT DE PATIENT POUVANT ETRE UTILISE AVEC DES PATIENTS BARIATRIQUES**

[72] ROUSSY, RICHARD BRIAN, CA
[72] CONNELL, JASON JOHN, CA
[72] ELKU, JOSEPH STEVEN DAVID, CA
[72] CERNY, JASON JAMES, CA
[72] GEORGE, CHRISTOPHER ALAN, CA
[72] ROUSSY, JOSEPH WILLIAM, CA
[72] JACOB, CHRISTOPHER SCOTT, CA
[72] YUSUF, ALEEM, CA
[73] STRYKER CORPORATION, US
[85] 2016-03-04
[86] 2014-09-08 (PCT/CA2014/050850)
[87] (WO2015/032003)
[30] US (61/874,959) 2013-09-06

[11] **2,923,327**
[13] C

[51] **Int.Cl. G01B 11/30 (2006.01)**

[25] EN

[54] **OPTICAL SURFACE ROUGHNESS MEASUREMENT**

[54] **MESURE D'UNE RUGOSITE DE SURFACE OPTIQUE**

[72] STACEY, CRAIG DANIEL, GB
[72] SARGENT, JEFFREY PAUL, GB
[73] BAE SYSTEMS PLC, GB
[85] 2016-03-04
[86] 2014-09-04 (PCT/GB2014/052661)
[87] (WO2015/036732)
[30] GB (1316099.9) 2013-09-10
[30] EP (13275206.4) 2013-09-10

[11] **2,923,792**
[13] C

[51] **Int.Cl. E01F 9/00 (2016.01)**

[25] EN

[54] **VIBRATION MITIGATION DEVICE**

[54] **DISPOSITIF D'ATTENUATION DES VIBRATIONS**

[72] MACCHIETTO, CARL J., US
[72] CHRISTENSON, RICHARD E., US
[72] INGRAM, DARREN E., US
[73] VALMONT INDUSTRIES, INC., US
[85] 2016-06-17
[86] 2014-09-15 (PCT/US2014/055703)
[87] (WO2016/043713)

[11] **2,923,843**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/00 (2006.01) A61K 9/19 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 47/18 (2017.01) A61K 47/20 (2006.01) C07K 1/14 (2006.01)**

[25] EN

[54] **LIQUID PROTEIN FORMULATIONS CONTAINING WATER SOLUBLE ORGANIC DYES**

[54] **FORMULATIONS DE PROTEINES LIQUIDES CONTENANT DES COLORANTS ORGANIQUES SOLUBLES DANS L'EAU**

[72] LARSON, ALYSSA M., US
[72] LOVE, KEVIN, US
[72] WEIGHT, ALISHA K., US
[72] CRANE, ALAN, US
[72] LANGER, ROBERT S., US
[72] KLIBANOV, ALEXANDER M., US
[73] EAGLE BIOLOGICS, INC., US
[85] 2016-03-09
[86] 2014-09-11 (PCT/US2014/055203)
[87] (WO2015/038777)
[30] US (61/876,621) 2013-09-11
[30] US (61/940,227) 2014-02-14
[30] US (61/943,197) 2014-02-21
[30] US (61/946,436) 2014-02-28
[30] US (61/988,005) 2014-05-02
[30] US (62/008,050) 2014-06-05
[30] US (62/026,497) 2014-07-18
[30] US (62/030,521) 2014-07-29

[11] **2,924,527**
[13] C

[51] **Int.Cl. C07D 295/192 (2006.01) A61K 31/341 (2006.01) A61K 31/36 (2006.01) A61K 31/42 (2006.01) A61K 31/4402 (2006.01) A61K 31/454 (2006.01) A61K 31/495 (2006.01) A61P 35/00 (2006.01) C07D 261/08 (2006.01) C07D 295/26 (2006.01) C07D 333/16 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR TREATING PROSTATE CANCER**

[54] **COMPOSES DESTINES AU TRAITEMENT DU CANCER DE LA PROSTATE**

[72] WIPF, PETER, US
[72] SKODA, ERIN M., US
[72] WANG, ZHOU, US
[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2016-03-16
[86] 2014-09-18 (PCT/US2014/056369)
[87] (WO2015/042297)
[30] US (61/880,747) 2013-09-20

[11] **2,924,962**
[13] C

[51] **Int.Cl. C25C 7/02 (2006.01) C25C 7/06 (2006.01) G01B 11/27 (2006.01)**

[25] EN

[54] **METHOD AND ARRANGEMENT METHOD FOR PREPARING CAST ANODES FOR USE IN ELECTROREFINING OF METALS**

[54] **PROCEDE ET AGENCEMENT POUR PREPARER DES ANODES COULEES (1) A UTILISER EN ELECTRO-AFFINAGE DE METAUX**

[72] LARINKARI, MARTTI, FI
[72] SALMIKIVI, MIKA, FI
[72] HILTUNEN, MARKO, FI
[73] OUTOTEC (FINLAND) OY, FI
[85] 2016-03-21
[86] 2014-10-09 (PCT/FI2014/050768)
[87] (WO2015/052381)
[30] FI (20136014) 2013-10-11

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[11] **2,925,094**
[13] C

[51] **Int.Cl. A61M 19/00 (2006.01) A61F 7/00 (2006.01) A61N 1/28 (2006.01)**
[25] EN
[54] **PORTABLE THERMOELECTRIC COOLING DEVICE FOR THERAPEUTIC CRANIOCERVICAL HYPOTHERMIA**
[54] **DISPOSITIF PORTABLE DE REFROIDISSEMENT THERMOELECTRIQUE POUR L'HYPOTHERMIE CRANIO-CERVICALE THERAPEUTIQUE**
[72] VERGARA, JULIO L., US
[72] SERRANO CARMONA, RAUL, US
[72] RESTREPO, LUCAS, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2016-03-22
[86] 2014-09-24 (PCT/US2014/057276)
[87] (WO2015/048170)
[30] US (61/884,932) 2013-09-30

[11] **2,925,332**
[13] C

[51] **Int.Cl. A61L 27/36 (2006.01)**
[25] EN
[54] **METHODS OF REMOVING ALPHA-GALACTOSE**
[54] **PROCEDE D'ELIMINATION D'ALPHA-GALACTOSE**
[72] XU, HUI, US
[72] HUANG, LI TING, US
[72] WAN, HUA, US
[72] OWENS, RICK, US
[72] BACHRACH, NATHANIEL, US
[73] LIFECELL CORPORATION, US
[85] 2016-03-23
[86] 2014-11-04 (PCT/US2014/063796)
[87] (WO2015/066668)
[30] US (61/899,647) 2013-11-04

[11] **2,925,656**
[13] C

[51] **Int.Cl. B01J 19/24 (2006.01) B01J 8/00 (2006.01)**
[25] FR
[54] **MIXING AND DISTRIBUTION DEVICE WITH MIXTURE AND EXCHANGE ZONES**
[54] **DISPOSITIF DE MELANGE ET DE DISTRIBUTION AVEC ZONES DE MELANGE ET D'ECHANGE**
[72] BEARD, PHILIPPE, FR
[72] BAZER-BACHI, FREDERIC, FR
[72] PLAIS, CECILE, FR
[72] AUGIER, FREDERIC, FR
[72] HAROUN, YACINE, US
[72] DELTEIL, JAUFFRAY, FR
[73] IFP ENERGIES NOUVELLES, FR
[86] (2925656)
[87] (2925656)
[22] 2016-03-30
[30] FR (15 52 783) 2015-04-01

[11] **2,925,657**
[13] C

[51] **Int.Cl. B01J 8/04 (2006.01) B01J 8/02 (2006.01) B01J 19/00 (2006.01)**
[25] FR
[54] **MIXING AND DISTRIBUTION DEVICE INCLUDING A DISTRIBUTION TRAY WITH PERIPHERAL OPENINGS**
[54] **DISPOSITIF DE MELANGE ET DE DISTRIBUTION COMPRENANT UN PLATEAU DE DISTRIBUTION AVEC OUVERTURES PERIPHERIQUES**
[72] BEARD, PHILIPPE, FR
[72] BAZER-BACHI, FREDERIC, FR
[72] PLAIS, CECILE, FR
[72] AUGIER, FREDERIC, FR
[72] HAROUN, YACINE, US
[73] IFP ENERGIES NOUVELLES, FR
[86] (2925657)
[87] (2925657)
[22] 2016-03-30
[30] FR (15 52 784) 2015-04-01

[11] **2,925,864**
[13] C

[51] **Int.Cl. G01M 99/00 (2011.01) B08B 13/00 (2006.01) F24F 13/00 (2006.01) F24F 13/28 (2006.01)**
[25] EN
[54] **METHOD FOR EVALUATING THE CLEANING STATE OF AN AERATION AND/OR CONDITIONING PLANT OF A ROOM**
[54] **PROCEDE PERMETTANT D'EVALUER L'ETAT DE PROPRETE D'UN SYSTEME D'AERATION ET/OU DE CONDITIONNEMENT D'AIR D'UN LOCAL**
[72] BUCCOLINI, FABIO, IT
[72] DE CANDITIIS, DANIELA, IT
[72] BRUNI, VITTORIA, IT
[72] TAGLIAFERRI, SANTE, IT
[72] ROSSI, ELISA, IT
[72] PIGOZZI, DANIELE, IT
[72] VITULANO, DOMENICO, IT
[73] BUCCOLINI, FABIO, IT
[85] 2016-03-30
[86] 2014-09-30 (PCT/IB2014/064943)
[87] (WO2015/052617)
[30] IT (RM2013A000547) 2013-10-07

[11] **2,926,249**
[13] C

[51] **Int.Cl. F03D 9/00 (2016.01) F03D 1/04 (2006.01) F03D 1/06 (2006.01)**
[25] EN
[54] **UPTOWER WIND TURBINE COMPONENT REPLACEMENT**
[54] **REMPLACEMENT D'UN COMPOSANT D'EOLIENNE EN HAUT DE TOUR**
[72] LOHAN, MARTIN E., US
[72] FENGER, PER ESKE, DK
[72] ASHEIM, CHARLES, US
[72] GONZALEZ, MIGUEL A., US
[72] BRAKE, DANIEL M., US
[73] INVENTUS HOLDINGS, LLC, US
[85] 2016-04-01
[86] 2014-10-06 (PCT/US2014/059349)
[87] (WO2015/051374)
[30] US (61/886,985) 2013-10-04
[30] US (14/507,429) 2014-10-06

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[11] **2,929,197**
[13] C

[51] **Int.Cl. A61K 36/064 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/08 (2006.01)**

[25] FR

[54] **PHARMACEUTICAL COMPOSITION FOR REDUCING BODY FAT**

[54] **COMPOSITION PHARMACEUTIQUE POUR LA REDUCTION DE LA MASSE ADIPEUSE**

[72] CANI, PATRICE D., BE

[72] EVERARD, AMANDINE, BE

[72] GEURTS, LUCIE, BE

[72] FARGIER, EMILIE, FR

[72] VERLEYE, MARC, FR

[72] LE GUERN, MARIE-EMMANUELLE, FR

[73] BIOCOCODEX, FR

[85] 2016-04-28

[86] 2014-11-07 (PCT/EP2014/074109)

[87] (WO2015/067788)

[30] EP (13306537.5) 2013-11-08

[11] **2,929,319**
[13] C

[51] **Int.Cl. G06T 7/30 (2017.01) G06T 17/10 (2006.01) A61B 5/055 (2006.01) A61B 6/03 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR GENERATING PARTIAL SURFACE FROM VOLUMETRIC DATA FOR REGISTRATION TO SURFACE TOPOLOGY IMAGE DATA**

[54] **SYSTEME ET PROCEDE DE GENERATION DE SURFACE PARTIELLE A PARTIR DE DONNEES VOLUMETRIQUES POUR ALIGNEMENT SUR DES DONNEES D'IMAGE DE TOPOLOGIE DE SURFACE**

[72] LEUNG, MICHAEL, CA

[72] MARIAMPILLAI, ADRIAN LINUS DINESH, CA

[72] SIEGLER, PETER, CA

[72] STANDISH, BEAU ANTHONY, CA

[72] YANG, VICTOR X.D., CA

[73] 7D SURGICAL ULC, CA

[85] 2016-05-02

[86] 2014-11-25 (PCT/CA2014/051120)

[87] (WO2015/074158)

[30] US (61/908,385) 2013-11-25

[11] **2,929,452**
[13] C

[51] **Int.Cl. C02F 1/52 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR THE TREATMENT AND RECOVERY OF PURGE SOLVENT**

[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT ET LA RECUPERATION DE SOLVANT DE PURGE**

[72] BALENT, PAUL, US

[72] CARTER, GORDON M., US

[72] MOONEY, SAMUEL P., US

[72] SCHEIMANN, DAVID W., US

[72] HARE, SHAYNE B., US

[72] MIKNEVICH, JOSEPH P., US

[73] NALCO COMPANY, US

[85] 2016-04-28

[86] 2014-10-06 (PCT/US2014/059351)

[87] (WO2015/065658)

[30] US (14/068,624) 2013-10-31

[30] US (14/284,522) 2014-05-22

[11] **2,930,816**
[13] C

[51] **Int.Cl. F16K 31/40 (2006.01)**

[25] EN

[54] **WATER DISCHARGE VALVE FOR TOILETS**

[54] **ROBINET D'EVACUATION D'EAU POUR LES TOILETTES**

[72] MARCANTONIO, VINCENZO, IT

[73] R.P.E. S.R.L., IT

[85] 2016-05-16

[86] 2014-11-19 (PCT/IB2014/066173)

[87] (WO2015/075651)

[30] IT (MI2013U000403) 2013-11-19

[11] **2,930,863**
[13] C

[51] **Int.Cl. F02C 7/05 (2006.01) F02C 7/052 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANAGING TURBINE INTAKE FILTERS**

[54] **SYSTEMES ET PROCEDES POUR GERER DES FILTRES D'ADMISSION DE TURBINE**

[72] BRYANT, PAUL SHERWOOD, GB

[72] HINER, STEPHEN DAVID, GB

[73] PARKER-HANNIFIN CORPORATION, US

[85] 2016-05-16

[86] 2014-11-13 (PCT/US2014/065450)

[87] (WO2015/073669)

[30] US (14/082,995) 2013-11-18

[11] **2,930,960**
[13] C

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 3/14 (2006.01) B01D 5/00 (2006.01) C07C 41/34 (2006.01) C07C 41/42 (2006.01) C07C 43/04 (2006.01) F25J 3/06 (2006.01)**

[25] EN

[54] **METHOD FOR PROCESSING A PRODUCT STREAM OF A DIMETHYL ETHER REACTOR BY SEPARATION TECHNOLOGY**

[54] **PROCEDE DE TRAITEMENT SEPARATIF D'UN COURANT DE PRODUIT D'UN REACTEUR DE DIMETHYLETHER**

[72] FRITZ, HELMUT, DE

[72] PESCHEL, ANDREAS, DE

[73] LINDE GMBH, DE

[85] 2016-05-17

[86] 2015-01-05 (PCT/EP2015/050046)

[87] (WO2015/104238)

[30] EP (14000041.5) 2014-01-07

[11] **2,931,039**
[13] C

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/015 (2006.01) A61K 31/09 (2006.01) A61P 25/02 (2006.01) A61P 27/02 (2006.01) A61P 29/00 (2006.01) C07C 13/32 (2006.01) C07C 39/23 (2006.01) C07C 43/23 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF OCULAR INFLAMMATION AND PAIN**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE L'INFLAMMATION OCULAIRE ET DE LA DOULEUR**

[72] LYNCH, MARY, CA

[72] KELLY, MELANIE, CA

[73] PANAG PHARMA INC., CA

[85] 2016-05-18

[86] 2014-11-20 (PCT/CA2014/000841)

[87] (WO2015/074137)

[30] US (61/906,694) 2013-11-20

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[11] **2,931,055**
[13] C

[51] **Int.Cl. G01S 7/497 (2006.01) G01S 7/4861 (2020.01) G01S 7/486 (2020.01) H01L 31/107 (2006.01)**

[25] EN
[54] **LIDAR SCANNER CALIBRATION**
[54] **ETALONNAGE D'ANALYSEUR LIDAR**

[72] SCHWARZ, BRENT S., US
[72] HASLIM, JAMES A., US
[72] ITURRARAN, NICHOLAS M., US
[72] KARASOFF, MICHAEL D., US
[73] UATC, LLC, US
[85] 2016-05-18
[86] 2014-11-21 (PCT/US2014/066901)
[87] (WO2015/077614)
[30] US (61/907,951) 2013-11-22

[11] **2,931,178**
[13] C

[51] **Int.Cl. B60W 30/00 (2006.01) B60W 50/16 (2020.01) B60W 10/20 (2006.01)**

[25] EN
[54] **INTUITIVE DRIVE-BY-WIRE STEERING WITH REDUNDANT MECHANICAL CONTROL**
[54] **DIRECTION A COMMANDE ELECTRIQUE INTUITIVE POURVUE D'UNE COMMANDE MECANIQUE REDONDANTE**

[72] KIM, DANIEL KEE YOUNG, US
[72] WADE, COLIN, US
[73] LIT MOTORS CORPORATION, US
[85] 2016-05-11
[86] 2014-11-11 (PCT/US2014/065092)
[87] (WO2015/070251)
[30] US (61/902,721) 2013-11-11

[11] **2,931,357**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 38/00 (2006.01) A61P 3/10 (2006.01) A61P 13/12 (2006.01)**

[25] EN
[54] **METHOD OF TREATING NEPHROPATHY**
[54] **METHODE DE TRAITEMENT DE LA NEPHROPATHIE**

[72] ERIKSSON, ULF, SE
[72] FALKEVALL, ANNELIE, SE
[72] MEHLEM, ANNIKA, SE
[73] CSL LIMITED, AU
[73] B-CREATIVE SWEDEN AB, SE
[85] 2016-05-24
[86] 2014-11-28 (PCT/AU2014/050387)
[87] (WO2015/077845)
[30] AU (2013904595) 2013-11-28

[11] **2,931,805**
[13] C

[51] **Int.Cl. G01V 1/36 (2006.01) G01V 1/28 (2006.01)**

[25] EN
[54] **METHODS AND SYSTEMS OF DETECTING A MICROSEISMIC EVENT USING AN ITERATIVE NON-LINEAR INVERSION ALGORITHM**
[54] **PROCEDES ET SYSTEMES DE DETECTION D'UN EVENEMENT MICRO-SISMIQUE AU MOYEN D'UN ALGORITHME D'INVERSION NON LINEAIRE ITERATIF**

[72] BARDAINNE, THOMAS, FR
[73] CGG SERVICES SA, FR
[85] 2016-05-26
[86] 2014-12-04 (PCT/IB2014/003042)
[87] (WO2015/083000)
[30] US (61/912,071) 2013-12-05

[11] **2,931,828**
[13] C

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/686 (2018.01) G16B 20/00 (2019.01)**

[25] EN
[54] **SIMPLE METHOD AND KIT FOR DNA TYPING OF HLA GENES BY HIGH-THROUGHPUT MASSIVELY PARALLEL SEQUENCER**
[54] **METHODE SIMPLE ET KIT DE PROFILAGE ADN DE GENES HLA PAR SEQUENCEUR MASSIVEMENT PARALLELE A HAUT DEBIT**

[72] SHIINA, TAKASHI, JP
[72] SUZUKI, SHINGO, JP
[72] WADA, YUKI, JP
[72] MITSUNAGA, SHIGEKI, JP
[72] INOKO, HIDETOSHI, JP
[73] GENODIVE PHARMA INC., JP
[85] 2016-05-26
[86] 2014-11-27 (PCT/JP2014/081464)
[87] (WO2015/080226)
[30] JP (2013-244624) 2013-11-27

[11] **2,932,453**
[13] C

[51] **Int.Cl. E04F 13/076 (2006.01) E04F 13/08 (2006.01) E04F 13/21 (2006.01) E04G 23/02 (2006.01)**

[25] EN
[54] **STRUCTURE CLADDING TRIM COMPONENTS AND METHODS FOR FABRICATION AND USE OF SAME**
[54] **COMPOSANTS DE GARNITURE DE REVETEMENT DE STRUCTURE ET PROCEDES DE FABRICATION ET D'UTILISATION DE CEUX-CI**

[72] RICHARDSON, GEORGE DAVID, CA
[72] KRIVULIN, SEMION, CA
[72] FANG, ZI LI, CA
[73] CFS CONCRETE FORMING SYSTEMS INC., CA
[85] 2016-06-02
[86] 2014-12-05 (PCT/CA2014/051175)
[87] (WO2015/081445)
[30] US (61/913,192) 2013-12-06

[11] **2,932,485**
[13] C

[51] **Int.Cl. A61B 3/103 (2006.01) A61B 3/00 (2006.01) A61B 3/032 (2006.01)**

[25] FR
[54] **DEVICE AND METHOD FOR MEASURING SUBJECTIVE REFRACTION**
[54] **DISPOSITIF ET PROCEDE DE MESURE DE LA REFRACTION SUBJECTIVE**

[72] ROUSSEAU, BENJAMIN, FR
[72] HERNANDEZ, MARTHA, FR
[72] BARANTON, KONOGAN, FR
[72] OURIVES, PEDRO, FR
[72] MARIN, GILDAS, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2016-06-02
[86] 2014-12-15 (PCT/FR2014/053335)
[87] (WO2015/092244)
[30] FR (1362834) 2013-12-17

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[11] **2,932,549**
[13] C

[51] **Int.Cl. C10G 75/00 (2006.01) C04B 35/50 (2006.01) C10G 9/18 (2006.01)**

[25] EN

[54] **APPARATUS EXPOSABLE IN BYPRODUCT CARBONACEOUS MATERIAL FORMATION ENVIRONMENT AND ASSOCIATED METHOD**

[54] **APPAREIL POUVANT ETRE EXPOSE A UN ENVIRONNEMENT DE FORMATION DE MATIERES CARBONEES SOUS-PRODUITES ET PROCEDE ASSOCIE**

[72] WANG, SHIZHONG, CN
[72] PENG, WENQING, CN
[72] KOOL, LAWRENCE BERNARD, US
[72] HAO, NAN, CN
[72] XU, WUSHENG, CN
[72] GUO, MINGHU, CN
[72] ZHOU, HONG, CN
[72] GU, YANFEI, CN
[72] YANG, ZHAOHUI, CN
[73] BL TECHNOLOGIES, INC., US
[85] 2016-06-02
[86] 2014-11-04 (PCT/US2014/063771)
[87] (WO2015/088671)
[30] CN (201310686812.1) 2013-12-13

[11] **2,932,763**
[13] C

[51] **Int.Cl. G06F 8/10 (2018.01) G06F 8/34 (2018.01)**

[25] EN

[54] **MANAGING INTERFACES FOR DATAFLOW GRAPHS COMPOSED OF SUB-GRAPHS**

[54] **GESTION D'INTERFACES DE GRAPHIQUES DE FLUX DE DONNEES COMPOSES DE SOUS-GRAPHIQUES**

[72] LARSON, BROND, US
[72] BAY, PAUL, US
[72] BROMLEY, H. MARK, US
[72] STEVENS, DANIELL GARRICK, US
[72] TSVETANOV, TSVETAN, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2016-06-03
[86] 2014-12-05 (PCT/US2014/068754)
[87] (WO2015/085152)
[30] US (61/912,057) 2013-12-05
[30] US (62/031,388) 2014-07-31

[11] **2,932,887**
[13] C

[51] **Int.Cl. G01S 15/89 (2006.01) G06V 40/13 (2022.01)**

[25] EN

[54] **ULTRASONIC IMAGING WITH ACOUSTIC RESONANT CAVITY**

[54] **IMAGERIE ULTRASONORE A CAVITE DE RESONANCE ACOUSTIQUE**

[72] KUO, NAI-KUEI, US
[72] DJORDJEV, KOSTADIN DIMITROV, US
[72] RANGANATHAN, RANJITH, US
[72] CHUEI, NAO SUGAWARA, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-06-03
[86] 2015-01-08 (PCT/US2015/010560)
[87] (WO2015/105935)
[30] US (61/926,829) 2014-01-13
[30] US (14/589,783) 2015-01-05

[11] **2,933,232**
[13] C

[51] **Int.Cl. H02K 7/00 (2006.01) B60K 7/00 (2006.01) H02K 7/116 (2006.01)**

[25] EN

[54] **SELF-PROPELLED WORK MACHINE**

[54] **ENGIN DE TRAVAIL AUTOMOTEUR**

[72] MUNST, THOMAS, DE
[73] LIEBHERR-COMPONENTS BIBERACH GMBH, DE
[85] 2016-06-09
[86] 2014-11-26 (PCT/EP2014/003163)
[87] (WO2015/086114)
[30] DE (20 2013 011 046.5) 2013-12-11

[11] **2,933,297**
[13] C

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/63 (2006.01)**

[25] EN

[54] **DETERMINATION OF A FUNGAL INFECTION OF A PLANT BY CHLOROPHYLL FLUORESCENCE INDUCED BY DIFFERENT EXCITATION WAVELENGTHS**

[54] **DETERMINATION D'UNE INFECTION FONGIQUE D'UNE PLANTE PAR FLUORESCENCE DE CHLOROPHYLLE INDUITE PAR DIFFERENTES LONGUEURS D'ONDE D'EXCITATION**

[72] TISCHLER, YLVA, DE
[72] HARTUNG, EBERHARD, DE
[72] THIESSEN, EIKO, DE
[73] BASF SE, DE
[85] 2016-06-09
[86] 2014-12-17 (PCT/EP2014/078198)
[87] (WO2015/091632)
[30] EP (13198050.0) 2013-12-18

[11] **2,933,444**
[13] C

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

[25] EN

[54] **MODULAR REMOTE POWER GENERATION AND TRANSMISSION FOR HYDRAULIC FRACTURING SYSTEM**

[54] **GENERATION ET TRANSMISSION D'ALIMENTATION DISTANTE MODULAIRE DESTINEES A UN SYSTEME DE FRACTURATION HYDRAULIQUE**

[72] OEHRING, JARED, US
[72] HINDERLITER, BRANDON NEIL, US
[73] US WELL SERVICES LLC, US
[86] (2933444)
[87] (2933444)
[22] 2016-06-16
[30] US (62/180,289) 2015-06-16
[30] US (15/183,387) 2016-06-15

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[11] **2,933,958**
[13] C

[51] **Int.Cl. G02B 23/24 (2006.01) G01N 29/14 (2006.01)**
[25] FR
[54] **ENDOSCOPE AND METHOD FOR USING SAME**
[54] **ENDOSCOPE ET PROCEDE POUR SON UTILISATION**
[72] SEGURA, FREDERIC, FR
[72] CAETANO, FRANCIS, FR
[72] ELGOYHEN, THIBAUT, FR
[72] MEZIERE, LUDOVIC, FR
[73] TURBOMECA, FR
[85] 2016-06-15
[86] 2014-12-10 (PCT/FR2014/053249)
[87] (WO2015/092221)
[30] FR (1363338) 2013-12-20

[11] **2,934,544**
[13] C

[51] **Int.Cl. C08J 11/24 (2006.01) C07C 69/82 (2006.01) C08G 63/78 (2006.01) C08J 11/14 (2006.01)**
[25] EN
[54] **METHOD FOR FORMING AN AROMATIC DIACID AND/OR AN AROMATIC DIACID PRECURSOR FROM A POLYESTER-CONTAINING FEEDSTOCK**
[54] **PROCEDE DE FORMATION D'UN DIACIDE AROMATIQUE ET/OU D'UN PRECURSEUR DE DIACIDE AROMATIQUE A PARTIR D'UNE CHARGE CONTENANT DU POLYESTER**
[72] SCHMIDT, GREGORY, US
[72] BARTOS, THOMAS, US
[72] JOSHI, AJAY, US
[72] BITSCH-LARSEN, ANDERS, US
[72] METELSKI, PETER, US
[72] LEONARDI, DANIEL, US
[73] BP CORPORATION NORTH AMERICA INC., US
[85] 2016-06-17
[86] 2014-12-30 (PCT/US2014/072637)
[87] (WO2015/103178)
[30] US (61/922,154) 2013-12-31

[11] **2,934,638**
[13] C

[51] **Int.Cl. A61K 47/42 (2017.01) A61K 9/10 (2006.01) A61K 38/18 (2006.01) A61K 47/36 (2006.01)**
[25] EN
[54] **FGF-18 FORMULATION IN ALGINATE/COLLAGEN HYDROGELS**
[54] **FORMULATION DE FGF -18 DANS DES HYDROGELS A BASE D'ALGINATE/COLLAGENE**
[72] CANAL, FABIANA, IT
[72] LO PRESTI, CATERINA, IT
[73] ARES TRADING S.A., CH
[85] 2016-06-20
[86] 2014-12-23 (PCT/EP2014/079205)
[87] (WO2015/097236)
[30] EP (13199591.2) 2013-12-24

[11] **2,934,999**
[13] C

[51] **Int.Cl. H04W 28/18 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ADAPTIVE TTI COEXISTENCE WITH LTE**
[54] **SYSTEME ET PROCEDE POUR UNE COEXISTENCE DE TTI ADAPTATIFS AVEC UNE LTE**
[72] AU, KELVIN KAR KIN, CA
[72] ZHANG, LIQING, CA
[72] MA, JIANGLEI, CA
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2016-06-23
[86] 2014-12-29 (PCT/CN2014/095352)
[87] (WO2015/096821)
[30] US (61/921,168) 2013-12-27
[30] US (14/582,951) 2014-12-24

[11] **2,935,104**
[13] C

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/20 (2018.01) A01H 6/46 (2018.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01) C12P 19/00 (2006.01)**
[25] EN
[54] **TRANSFORMED PLANT AND METHOD FOR PRODUCING EXUDATE CONTAINING SUGAR USING TRANSFORMED PLANT**
[54] **PLANT TRANSFORME ET METHODE DE PRODUCTION D'EXUDAT RENFERMANT UN SUCRE AU MOYEN DU PLANT TRANSFORME**
[72] OHTO, CHIKARA, JP
[72] YONEKURA, MADOKA, JP
[72] AOKI, NAOHIRO, JP
[72] OHSUGI, RYU, JP
[72] HIROSE, TATSURO, JP
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[73] THE UNIVERSITY OF TOKYO, JP
[73] NATIONAL AGRICULTURE AND FOOD RESEARCH ORGANIZATION, JP
[85] 2016-06-27
[86] 2014-12-25 (PCT/JP2014/084316)
[87] (WO2015/099042)
[30] JP (2013-273128) 2013-12-27

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[11] **2,935,305**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/167 (2006.01) A61K 31/40 (2006.01) A61K 31/54 (2006.01) A61K 31/573 (2006.01) A61M 15/00 (2006.01) B65D 83/54 (2006.01)**

[25] EN

[54] **STABLE PRESSURISED AEROSOL SOLUTION COMPOSITION OF GLYCOPYRRONIUM BROMIDE AND FORMOTEROL COMBINATION**

[54] **COMPOSITION DE SOLUTION D'AEROSOL STABLE, MISE SOUS PRESSION, DE COMBINAISON DE BROMURE DE GLYCOPYRRONIUM ET DE FORMOTEROL**

[72] BONELLI, SAURO, IT
[72] COPELLI, DIEGO, IT
[72] DAGLI ALBERI, MASSIMILIANO, IT
[72] USBERTI, FRANCESCA, IT
[72] ZAMBELLI, ENRICO, IT
[73] CHIESI FARMACEUTICI S.P.A., IT
[85] 2016-06-28
[86] 2014-12-23 (PCT/EP2014/079259)
[87] (WO2015/101576)
[30] EP (13199784.3) 2013-12-30

[11] **2,936,039**
[13] C

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 42/00 (2016.01) A61B 46/27 (2016.01) A61B 90/40 (2016.01)**

[25] EN

[54] **SURGICAL ASSISTING DEVICE**

[54] **DISPOSITIF D'ASSISTANCE CHIRURGICALE**

[72] FORSELL, PETER, CH
[73] MEDICALTREE PATENTS LTD., MT
[85] 2016-07-06
[86] 2014-01-14 (PCT/SE2014/050031)
[87] (WO2014/109706)
[30] SE (1350042-6) 2013-01-14

[11] **2,937,003**
[13] C

[51] **Int.Cl. F23K 1/00 (2006.01) F26B 17/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR DRYING WOOD CHIPS**

[54] **PROCEDE ET DISPOSITIF DE SECHAGE DES COPEAUX DE BOIS**

[72] GASTON, GLOCK, AT
[73] GLOCK OKOENERGIE GMBH, AT
[86] (2937003)
[87] (2937003)
[22] 2016-07-25
[30] AT (A546/2015) 2015-08-18

[11] **2,937,121**
[13] C

[51] **Int.Cl. B01J 19/24 (2006.01) B01J 8/06 (2006.01)**

[25] EN

[54] **SEALS FOR USE WITH CATALYST STRUCTURES**

[54] **JOINTS D'ETANCHEITE DESTINES A ETRE UTILISES AVEC DES STRUCTURES CATALYTIQUES ET SUPPORTEES PAR UNE FEUILLE**

[72] WHITTENBERGER, WILLIAM A., US
[72] ROMESBERG, TODD A., US
[72] ZUPONCIC, LOUIS J., US
[72] DEYOUNG, LORNE W., US
[72] BRUNSON, GORDON W., US
[73] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB
[85] 2016-07-15
[86] 2015-01-29 (PCT/IB2015/000834)
[87] (WO2015/121760)
[30] US (61/932,980) 2014-01-29

[11] **2,937,241**
[13] C

[51] **Int.Cl. A61K 31/4184 (2006.01) A61P 39/00 (2006.01)**

[25] EN

[54] **DMA, A BIS-BENZIMIDAZOLE, CONFERS RADIOPROTECTION TO THE INTESTINE VIA AKT/NFKB DUAL PATHWAY ACTIVATION**

[54] **DIMETHYLAMINE, UN BIS-BENZINIDAZOLE, CONFERE LA RADIOPROTECTION A L'INTESTIN PAR ACTIVATION DU PARCOURS DOUBLE AKT/NFKB**

[72] TIWARI, VINOD, IN
[72] TANDON, VIBHA, IN
[73] VIBHA TANDON AND JAWAHARLAL NEHRU UNIVERSITY (JNU), IN
[86] (2937241)
[87] (2937241)
[22] 2016-07-27

[11] **2,937,402**
[13] C

[51] **Int.Cl. A61K 31/731 (2006.01)**

[25] EN

[54] **IOTA-CARRAGEENAN COMPOSITION EFFECTIVE AGAINST VIRAL CONJUNCTIVITIS**

[54] **COMPOSITION IOTA-CARRAGHENANE EFFICACE CONTRE LA CONJONCTIVITE VIRALE**

[72] PRIESCHL-GRASSAUER, EVA, AT
[72] MOROKUTTI-KURZ, MARTINA, AT
[72] GRASSAUER, ANDREAS, AT
[72] NAKOWITSCH, SABINE, AT
[72] BODENTEICH, ANGELIKA, AT
[72] KONIG-SCHUSTER, MARIELLE, AT
[72] KOLLER, CHRISTIANE, AT
[72] PILOTAZ, FREDERIC, FR
[73] NICOX S.A., FR
[85] 2016-07-20
[86] 2015-01-20 (PCT/EP2015/051015)
[87] (WO2015/110429)
[30] EP (14152188.0) 2014-01-22

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[11] **2,937,445**
[13] C

[51] **Int.Cl. C10J 3/84 (2006.01)**
[25] EN
[54] **WOOD GASIFICATION**
[54] **GAZEIFICATION DU BOIS**
[72] GASTON, GLOCK, AT
[73] GLOCK OKOENERGIE GMBH, AT
[86] (2937445)
[87] (2937445)
[22] 2016-07-28

[11] **2,937,733**
[13] C

[51] **Int.Cl. C12P 7/6463 (2022.01) A23L 33/115 (2016.01) A61K 8/37 (2006.01) A61K 31/215 (2006.01) C10L 1/02 (2006.01) C11C 3/04 (2006.01) C12N 1/12 (2006.01) C12P 7/64 (2022.01)**
[25] EN
[54] **INHIBITORS OF STEROL METABOLISM FOR THEIR USE TO ACCUMULATE TRIGLYCERIDES IN MICROALGAE, AND METHODS THEREOF**
[54] **INHIBITEURS DU METABOLISME DES STEROLS DESTINES A ETRE UTILISES POUR L'ACCUMULATION DE TRIGLYCERIDES DANS LES MICROALGUES, ET PROCEDES ASSOCIEES**
[72] CONTE, MELISSA, FR
[72] DOLCH, LINA-JUANA, FR
[72] MEI, COLINE, FR
[72] BARETTE, CAROLINE, FR
[72] PETROUTSOS, DIMITRIS, FR
[72] FALCONET, DENIS, FR
[72] JOUHET, JULIETTE, FR
[72] REBEILLE, FABRICE, FR
[72] CINTRAT, JEAN-CHRISTOPHE, FR
[72] MARECHAL, ERIC, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2016-07-22
[86] 2015-01-27 (PCT/IB2015/050614)
[87] (WO2015/111029)
[30] EP (14305111.8) 2014-01-27

[11] **2,937,783**
[13] C

[51] **Int.Cl. A47C 19/02 (2006.01)**
[25] EN
[54] **WRAP AROUND BED FRAME**
[54] **CADRE DE LIT ENVELOPPE**
[72] POLEVOY, RICHARD S., US
[72] CARLSON, PAUL ERIC, US
[72] KONIECZNY, MICHAEL W., US
[72] NAAS, ROBERT L., US
[73] FINGER LAKES INTELLECTUAL PROPERTY, LLC, US
[85] 2016-07-22
[86] 2015-01-26 (PCT/US2015/012816)
[87] (WO2015/112934)
[30] US (61/931,278) 2014-01-24

[11] **2,938,247**
[13] C

[51] **Int.Cl. A61N 5/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PHOTOTHERAPY**
[54] **SYSTEMES ET PROCEDES DE PHYOTHERAPIE**
[72] GROSS, MARTYN C., US
[72] MOOMIAIE, REMO, US
[72] GAMELIN, ANDRE S., US
[73] ZERIGO HEALTH, INC., US
[85] 2016-07-28
[86] 2015-02-03 (PCT/US2015/014327)
[87] (WO2015/117159)
[30] US (61/935,136) 2014-02-03

[11] **2,938,280**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4188 (2006.01) A61K 31/437 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **4-AMINO-IMIDAZOQUINOLINE COMPOUNDS**
[54] **COMPOSES DE 4-AMINO-IMIDAZOQUINOLINE**
[72] HOVES, SABINE, DE
[72] KUHN, BERND, CH
[72] RICKLIN, FABIENNE, FR
[72] ROEVER, STEPHAN, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2016-07-28
[86] 2015-04-20 (PCT/EP2015/058465)
[87] (WO2015/162075)
[30] EP (14165349.3) 2014-04-22

[11] **2,938,370**
[13] C

[51] **Int.Cl. C07C 17/35 (2006.01) C07C 17/20 (2006.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF HYDROCHLOROFLUOROOLEFIN S**
[54] **PROCEDE DE PRODUCTION D'HYDROCHLOROFLUOROOLEFINES**
[72] ELSHEIKH, MAHER Y., US
[72] BONNET, PHILIPPE, FR
[72] WISMER, JOHN A., US
[72] SESHADRI, SRI R., US
[73] ARKEMA INC., US
[85] 2016-07-28
[86] 2015-01-28 (PCT/US2015/013202)
[87] (WO2015/116629)
[30] US (14/167,150) 2014-01-29

[11] **2,938,846**
[13] C

[51] **Int.Cl. C08F 2/00 (2006.01) C08F 4/6592 (2006.01) C08F 10/02 (2006.01) G01N 33/44 (2006.01)**
[25] EN
[54] **PRODUCING POLYOLEFIN PRODUCTS**
[54] **PRODUCTION DE PRODUITS POLYOLEFINIQUES**
[72] RIX, FRANCIS C., US
[72] LUE, CHING-TAI, US
[72] BOLLER, TIMOTHY M., US
[72] GIESBRECHT, GARTH R., US
[72] HARLAN, C. JEFF, US
[73] UNIVATION TECHNOLOGIES, LLC, US
[85] 2016-08-04
[86] 2015-02-10 (PCT/US2015/015143)
[87] (WO2015/123179)
[30] US (61/938,466) 2014-02-11
[30] US (61/938,472) 2014-02-11
[30] US (61/981,291) 2014-04-18
[30] US (61/985,151) 2014-04-28
[30] US (62/032,383) 2014-08-01
[30] US (62/087,911) 2014-12-05
[30] US (62/087,914) 2014-12-05
[30] US (62/087,905) 2014-12-05
[30] US (62/088,196) 2014-12-05

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[11] **2,939,021**
[13] C

[51] **Int.Cl. C07D 235/30 (2006.01) A61K 31/4184 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **BENZIMIDAZOL-2-AMINES AS MIDH1 INHIBITORS**

[54] **BENZIMIDAZOL-2-AMINES UTILISEES EN TANT QU'INHIBITEURS DE MIDH1**

[72] REHWINKEL, HARTMUT, DE
[72] SIEBENEICHER, HOLGER, DE
[72] ANLAUF, SONJA, DE
[72] NGUYEN, DUY, DE
[72] PANKNIN, OLAF, DE
[72] RING, SVEN, DE
[72] SCHWEDE, WOLFGANG, DE
[72] BAUSER, MARCUS, DE
[72] ZIMMERMANN, KATJA, DE
[72] KAULFUSS, STEFAN, DE
[72] NEUHAUS, ROLAND, DE
[72] PUSCH, STEFAN, DE
[72] VON DEIMLING, ANDREAS, DE
[73] DEUTSCHES
KREBSFORSCHUNGSZENTRUM,
STIFTUNG DES OFFENTLICHEN
RECHTS, DE

[85] 2016-08-08
[86] 2015-02-10 (PCT/EP2015/052675)
[87] (WO2015/121209)
[30] EP (14154680.4) 2014-02-11
[30] EP (14182001.9) 2014-08-22

[11] **2,939,676**
[13] C

[51] **Int.Cl. B63B 27/04 (2006.01) B67D 7/00 (2010.01) B67D 9/00 (2010.01) B64D 39/06 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR ESTABLISHING A TEMPORARY CONNECTION BETWEEN TWO MOVABLE OBJECTS**

[54] **DISPOSITIF ET PROCEDURE PERMETTANT D'ETABLIR UNE CONNEXION TEMPORAIRE**

[72] SOMMARSTROM, MATS, SE
[73] ABB SCHWEIZ AG, CH

[85] 2016-08-12
[86] 2015-02-20 (PCT/SE2015/050197)
[87] (WO2015/126320)
[30] SE (1450210-8) 2014-02-21

[11] **2,939,947**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 12/0802 (2016.01) G06F 16/24 (2019.01) G06F 9/46 (2006.01)**

[25] EN

[54] **RESOURCE MANAGEMENT SYSTEMS AND METHODS USING EXECUTION PLATFORM WITH MULTIPLE VIRTUAL WAREHOUSES**

[54] **SYSTEMES ET METHODES DE GESTION DES RESSOURCES UTILISANT UNE PLATEFORME D'EXECUTION COMPRENANT DE MULTIPLES ENTREPOTS VIRTUELS**

[72] DAGEVILLE, BENOIT, US
[72] CRUANES, THIERRY, US
[72] ZUKOWSKI, MARCIN, US
[73] SNOWFLAKE INC., US

[85] 2016-08-16
[86] 2015-02-18 (PCT/US2015/016403)
[87] (WO2015/126957)
[30] US (61/941,986) 2014-02-19
[30] US (14/518,884) 2014-10-20

[11] **2,940,141**
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A01H 5/00 (2018.01) C12N 9/12 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/54 (2006.01) C12N 15/60 (2006.01) C12N 15/82 (2006.01) C12P 19/00 (2006.01) C13K 1/00 (2006.01)**

[25] EN

[54] **TISSUE SPECIFIC REDUCTION OF LIGNIN**

[54] **REDUCTION SPECIFIQUE AU TISSU DE LA LIGNINE**

[72] LOQUE, DOMINIQUE, US
[72] EUDES, AYMERICK, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2016-08-18
[86] 2014-03-11 (PCT/US2014/023443)
[87] (WO2014/150504)
[30] US (61/792,864) 2013-03-15

[11] **2,940,307**
[13] C

[51] **Int.Cl. A61F 9/008 (2006.01)**

[25] EN

[54] **LASER ASSISTED CATARACT SURGERY**

[54] **CHIRURGIE DE LA CATARACTE ASSISTEE PAR LASER**

[72] MORDAUNT, DAVID H., US
[72] YEE, KINGMAN, US
[73] EXCEL-LENS, INC., US

[85] 2016-08-19
[86] 2015-02-27 (PCT/US2015/018158)
[87] (WO2015/131135)
[30] US (14/193,592) 2014-02-28
[30] US (14/193,630) 2014-02-28
[30] US (14/193,671) 2014-02-28
[30] US (14/193,716) 2014-02-28
[30] US (61/975,506) 2014-04-04
[30] US (62/047,373) 2014-09-08

[11] **2,940,412**
[13] C

[51] **Int.Cl. C07D 239/94 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 405/04 (2006.01) C07D 409/04 (2006.01)**

[25] EN

[54] **6-ARYL-4-PHENYLAMINO-QUINAZOLINE ANALOGS AS PHOSPHOINOSITIDE-3-KINASE INHIBITORS**

[54] **ANALOGUES DE 6-ARYL-4-PHENYLAMINO-QUINAZOLINE SERVANT D'INHIBITEURS DE LA PHOSPHOINOSITIDE 3-KINASE**

[72] VISHWAKARMA, RAM ASREY, IN
[72] BHARATE, SANDIP BIBISHAN, IN
[72] BHUSHAN, SHASHI, IN
[72] YADAV, RAMMOHAN RAO, IN
[72] GURU, SANTOSH KUMAR, IN
[72] JOSHI, PRASHANT, IN
[73] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN

[85] 2016-08-22
[86] 2015-02-16 (PCT/IN2015/000088)
[87] (WO2015/128873)
[30] IN (554/DEL/2014) 2014-02-27

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[11] **2,940,490**
[13] C

[51] **Int.Cl. B25J 13/08 (2006.01) B25J 9/16 (2006.01)**
[25] EN
[54] **SAFETY SYSTEM FOR INDUSTRIAL ROBOT**
[54] **SYSTEME DE SECURITE POUR ROBOT INDUSTRIEL**
[72] OESTERGAARD, ESBEN H., DK
[72] ZIEBA, GRZEGORZ, DK
[72] BRANDT, DAVID, DK
[73] UNIVERSAL ROBOTS A/S, DK
[85] 2016-08-23
[86] 2015-02-26 (PCT/DK2015/050038)
[87] (WO2015/131904)
[30] DK (PA 2014 70103) 2014-03-04

[11] **2,940,652**
[13] C

[51] **Int.Cl. G01S 19/07 (2010.01) H04W 16/28 (2009.01) G01S 19/00 (2010.01) G01S 19/02 (2010.01) G01S 19/11 (2010.01) G01S 19/20 (2010.01) G01S 19/43 (2010.01) B64G 1/10 (2006.01) H01Q 3/26 (2006.01) H04B 7/185 (2006.01)**
[25] EN
[54] **AN IMPROVED PERFORMANCE AND COST GLOBAL NAVIGATION SATELLITE SYSTEM ARCHITECTURE**
[54] **ARCHITECTURE DE SYSTEME MONDIAL DE NAVIGATION PAR SATELLITE PRESENTANT UNE PERFORMANCE ET UN COUT AMELIORES**
[72] COHEN, CLARK EMERSON, US
[73] PNT HOLDINGS, INC., US
[85] 2016-08-24
[86] 2015-02-26 (PCT/US2015/017787)
[87] (WO2015/130950)
[30] US (61/944,752) 2014-02-26

[11] **2,940,864**
[13] C

[51] **Int.Cl. C07K 16/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY WITH ANTI-CD38 ANTIBODY IN COMBINATION WITH CYCLOPHOSPHAMIDE, DOXORUBICIN, VINCRISTINE AND PREDNISONE**
[54] **THERAPIE COMBINEE AVEC ANTICORPS ANTI-CD38 CONJOINTEMENT A DE LA CYCLOPHOSPHAMIDE, DE LA DOXORUBICINE, DE LA VINCRISTINE ET DE LA PREDNISONE**
[72] DOSHI, PARUL, US
[73] JANSSEN BIOTECH, INC., US
[85] 2016-08-26
[86] 2015-02-25 (PCT/US2015/017420)
[87] (WO2015/130728)
[30] US (61/946,002) 2014-02-28
[30] US (62/006,386) 2014-06-02

[11] **2,940,961**
[13] C

[51] **Int.Cl. A61K 41/00 (2020.01) A61K 47/51 (2017.01) A61P 35/00 (2006.01) A61K 31/11 (2006.01)**
[25] EN
[54] **NITROBENZALDEHYDE PROTON RELEASE FOR MANIPULATION OF CELLULAR ACIDOSIS**
[54] **LIBERATION DE PROTON NITROBENZALDEHYDE POUR LA MANIPULATION DE L'ACIDOSE CELLULAIRE**
[72] FRIAS, ELMA, US
[72] HAZLETT, HALEY, US
[72] GDOVIN, MATTHEW, US
[72] O'GRADY, BRIAN, US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2016-08-26
[86] 2015-02-26 (PCT/US2015/017862)
[87] (WO2015/130997)
[30] US (61/944,988) 2014-02-26

[11] **2,940,974**
[13] C

[51] **Int.Cl. G05B 17/02 (2006.01) H02P 31/00 (2006.01)**
[25] EN
[54] **MACHINE LOSS MODELING FOR IMPROVED FIELD ORIENTED CONTROL ACCURACY**
[54] **MODELISATION DE PERTE DE MACHINE POUR UNE MEILLEURE PRECISION DE COMMANDE A FLUX ORIENTE**
[72] VOVOS, ROBERT J., US
[72] LYONS, ARTHUR P., US
[73] BAE SYSTEMS CONTROLS INC., US
[85] 2016-08-26
[86] 2015-02-26 (PCT/US2015/017639)
[87] (WO2015/130876)
[30] US (61/946,561) 2014-02-28

[11] **2,941,211**
[13] C

[51] **Int.Cl. B21B 1/46 (2006.01) B21B 1/18 (2006.01) B21B 31/10 (2006.01) C21D 9/00 (2006.01) F27B 9/24 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCTION OF LONG METAL PRODUCTS**
[54] **APPAREIL ET PROCEDE POUR LA PRODUCTION DE PRODUITS METALLIQUES LONGS**
[72] COLOMBO, EZIO, IT
[72] HOHENBICHLER, GERALD, AT
[72] KLUGE, JENS, DE
[72] MORTON, JEFFREY, AT
[72] PENNERSTORFER, PAUL, AT
[73] PRIMETALS TECHNOLOGIES AUSTRIA GMBH, AT
[85] 2016-08-30
[86] 2015-05-04 (PCT/EP2015/059676)
[87] (WO2015/173043)
[30] EP (14425057.8) 2014-05-13

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[11] **2,942,042**
[13] C

- [51] **Int.Cl. G06F 13/42 (2006.01)**
[25] EN
[54] **SYSTEM ARCHITECTURE FOR WIRELESS METROLOGICAL DEVICES**
[54] **ARCHITECTURE DE SYSTEME POUR DES DISPOSITIFS METROLOGIQUES SANS FIL**
[72] LAFLEN, JOHN BRANDON, US
[72] BROOKSBY, GLEN WILLIAM, US
[72] BIEL, PATRICK JAY, US
[72] POLISHCHUK, YAKOV, US
[72] WIK, STEVEN WILLIAM, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-09-08
[86] 2015-02-23 (PCT/US2015/017009)
[87] (WO2015/142477)
[30] US (61/954,182) 2014-03-17
[30] US (14/571,973) 2014-12-16

[11] **2,942,434**
[13] C

- [51] **Int.Cl. F16F 9/53 (2006.01) B60N 2/24 (2006.01) B60N 2/42 (2006.01) B60N 2/427 (2006.01) F16F 15/00 (2006.01)**
[25] EN
[54] **METHOD AND ASSEMBLY FOR ABSORBING ENERGY FROM LOADS BEING APPLIED DURING AN OVERLOAD EVENT IN ORDER TO PREVENT DAMAGE**
[54] **PROCEDE ET ENSEMBLE DESTINES A L'ABSORPTION D'ENERGIE DE CONTRAINTES SE PRODUISANT LORS D'UN EVENEMENT DE SURCHARGE, AFIN D'EVITER TOUT DOMMAGE**
[72] BATTLOGG, STEFAN, AT
[72] MAYER, MARKUS, AT
[73] GENERAL DYNAMICS EUROPEAN LAND SYSTEMS-MOWAG GMBH, CH
[85] 2016-09-12
[86] 2015-03-13 (PCT/EP2015/055364)
[87] (WO2015/136105)
[30] DE (10 2014 103 462.7) 2014-03-13

[11] **2,942,538**
[13] C

- [51] **Int.Cl. A61H 23/00 (2006.01) A61H 23/06 (2006.01)**
[25] EN
[54] **FASCIA MANIPULATION DEVICE AND METHOD**
[54] **DISPOSITIF DE MANIPULATION DE FASCIA ET METHODE**
[72] BABIUK, CRAIG, CA
[73] BABIUK, CRAIG, CA
[86] (2942538)
[87] (2942538)
[22] 2016-09-21
[30] CA (2905170) 2015-09-25
[30] US (62/232852) 2015-09-25

[11] **2,942,663**
[13] C

- [51] **Int.Cl. C10G 1/04 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **METHOD OF EXTRACTING BITUMEN FROM OIL SANDS WITH A PROPYLENE OXIDE CAPPED GLYCOL**
[54] **METHODE D'EXTRACTION DE BITUME DE SABLES BITUMINEUX AU MOYEN D'UN GLYCOLFERME A L'OXYDE DE PROPYLENE**
[72] AKIYA, NAKO, US
[72] DAUGS, EDWARD D., US
[72] DONATE, FELIPE A., US
[72] SINGH, HARPREET, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2016-09-13
[86] 2015-03-20 (PCT/US2015/021693)
[87] (WO2015/148296)
[30] US (61/971,165) 2014-03-27

[11] **2,942,868**
[13] C

- [51] **Int.Cl. E03B 7/07 (2006.01) F16L 37/107 (2006.01)**
[25] EN
[54] **HYDRAULIC ASSEMBLY FOR CONTROLLING A LIQUID**
[54] **ENSEMBLE HYDRAULIQUE POUR COMMANDER UN LIQUIDE**
[72] LAVAZZA, ALBERTO, IT
[73] R.P.E. S.R.L., IT
[85] 2016-09-15
[86] 2015-03-17 (PCT/IB2015/051960)
[87] (WO2015/140720)
[30] IT (MI2014U000106) 2014-03-17

[11] **2,942,950**
[13] C

- [51] **Int.Cl. F21V 17/10 (2006.01) F21K 9/27 (2016.01) F21S 8/04 (2006.01) F21V 21/03 (2006.01)**
[25] EN
[54] **RETROFIT KIT FOR DROP CEILING LIGHTING FIXTURES**
[54] **KIT DE MODERNISATION POUR DES APPAREILS D'ECLAIRAGE DE FAUX PLAFOND**
[72] PRICE, RUSSELL A., US
[72] DESAI, PRIYANKKUMAR M., US
[72] MARTIN, DAVID J., US
[72] RYVER, JUSTIN W., US
[73] HUBBELL LIGHTING, INC., US
[85] 2016-09-14
[86] 2015-03-19 (PCT/US2015/021561)
[87] (WO2015/143213)
[30] US (61/955,595) 2014-03-19

[11] **2,943,067**
[13] C

- [51] **Int.Cl. A61L 15/28 (2006.01) A61F 13/15 (2006.01) A61F 13/53 (2006.01) A61L 15/22 (2006.01) A61L 15/60 (2006.01) B32B 9/02 (2006.01) B32B 5/02 (2006.01)**
[25] EN
[54] **MULTILAYER WOUND DRESSING COMPRISING A CHITOSAN AND ACID**
[54] **PANSEMENT MULTICOUCHE COMPRENANT DU CHITOSANE ET DE L'ACIDE**
[72] HOGGARTH, ANDREW, GB
[72] WARDE, DAVID, GB
[72] HARDY, CRAIG, GB
[73] MEDTRADE PRODUCTS LIMITED, GB
[85] 2016-09-16
[86] 2015-03-19 (PCT/GB2015/050818)
[87] (WO2015/140565)
[30] GB (1404944.9) 2014-03-19

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[11] **2,943,149**
[13] C

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **TOLEROGENIC COMPOSITIONS COMPRISING AND USES THEREOF**
[54] **COMPOSITIONS TOLEROGENES ET LEURS UTILISATIONS**
[72] MUELLER, ANNE, CH
[72] ENGLER-ANDERS, DANIELA, CH
[72] TAUBE, CHRISTIAN, NL
[73] UNIVERSITAT ZURICH, CH
[73] LEIDEN UNIVERSITY MEDICAL CENTER, NL
[85] 2016-07-28
[86] 2015-01-30 (PCT/IB2015/050703)
[87] (WO2015/114575)
[30] EP (14153365.3) 2014-01-31

[11] **2,943,232**
[13] C

[51] **Int.Cl. C08B 37/08 (2006.01) C08B 37/00 (2006.01)**
[25] EN
[54] **CHONDROITIN SULPHATE PURIFICATION METHOD**
[54] **PROCEDE DE PURIFICATION DE SULFATE DE CHONDROITINE**
[72] DE ROSA, MARIO, CH
[72] SCHIRALDI, CHIARA, IT
[73] ALTERGON S.A., CH
[85] 2016-09-19
[86] 2015-03-20 (PCT/EP2015/055882)
[87] (WO2015/140281)
[30] IT (MI2014A000486) 2014-03-21

[11] **2,943,323**
[13] C

[51] **Int.Cl. C12P 5/02 (2006.01) C02F 11/04 (2006.01) C12M 1/00 (2006.01) C12P 3/00 (2006.01) C12Q 3/00 (2006.01)**
[25] EN
[54] **BIOGAS PROCESS WITH NUTRIENT RECOVERY**
[54] **PROCEDE DE PRODUCTION DE BIOGAZ AU MOYEN DE RECUPERATION DE SUBSTANCES NUTRITIVES**
[72] KETOLA, ARI, FI
[72] KOSKENNIEMI, KERTTU, FI
[72] LAHTINEN, MINNA, FI
[72] NUMMELA, JARKKO, FI
[72] VIROLAINEN, NINA, FI
[72] VIRKAJARVI, ILKKA, FI
[73] DUCTOR OY, FI
[85] 2016-09-20
[86] 2015-03-31 (PCT/IB2015/052379)
[87] (WO2015/151036)
[30] US (61/973,577) 2014-04-01

[11] **2,943,375**
[13] C

[51] **Int.Cl. A61K 49/00 (2006.01) A61K 9/14 (2006.01) A61K 49/18 (2006.01)**
[25] EN
[54] **DENDRONIZED METALLIC OXIDE NANOPARTICLES, A PROCESS FOR PREPARING THE SAME AND THEIR USES**
[54] **NANOPARTICULES D'OXYDE METALLIQUE DENDRONISE, LEUR PROCEDE DE PREPARATION ET LEURS UTILISATIONS**
[72] BEGIN-COLIN, SYLVIE, FR
[72] FELDER-FLESH, DELPHINE, FR
[72] BILLOTEY, CLAIRE, FR
[72] PICHON, BENOIT, FR
[73] UNIVERSITE CLAUDE BERNARD LYON 1, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] UNIVERSITE DE STRASBOURG, FR
[73] HOSPICES CIVILS DE LYON, FR
[85] 2016-09-20
[86] 2015-04-01 (PCT/EP2015/057272)
[87] (WO2015/150502)
[30] EP (14305478.1) 2014-04-01

[11] **2,943,474**
[13] C

[51] **Int.Cl. F02C 7/268 (2006.01) F02C 3/107 (2006.01) F02C 6/20 (2006.01) F02C 7/262 (2006.01) F02C 9/42 (2006.01) F02N 11/08 (2006.01)**
[25] FR
[54] **TURBINE ENGINE RAPID REACTIVATION METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE REACTIVATION RAPIDE DE TURBOMACHINE**
[72] KLONOWSKI, THOMAS, FR
[72] BAZET, JEAN-MICHEL, FR
[72] POUMAREDE, VINCENT, FR
[72] HARRIET, PIERRE, FR
[73] SAFRAN HELICOPTER ENGINES, FR
[85] 2016-09-21
[86] 2015-03-19 (PCT/FR2015/050675)
[87] (WO2015/145031)
[30] FR (1452628) 2014-03-27

[11] **2,943,699**
[13] C

[51] **Int.Cl. C07C 321/22 (2006.01) C07C 319/28 (2006.01)**
[25] EN
[54] **AMORPHOUS FORM OF A THIICOLCHICINE DERIVATIVE**
[54] **FORME AMORPHE D'UN DERIVE DE LA THIICOLCHICINE**
[72] CABRI, WALTER, IT
[72] PETERLONGO, FEDERICO, IT
[72] CICERI, DANIELE, IT
[72] GAMBINI, ANDREA, IT
[73] INDENA S.P.A., IT
[85] 2016-09-23
[86] 2015-03-26 (PCT/EP2015/056658)
[87] (WO2015/144857)
[30] EP (14161945.2) 2014-03-27

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12 juillet 2022**

[11] **2,944,385**
[13] C

[51] **Int.Cl. C11B 1/06 (2006.01) B30B 9/02 (2006.01) C11B 1/04 (2006.01)**

[25] EN

[54] **A METHOD AND APPARATUS FOR PRESSING OILSEED TO EXTRACT OIL THEREFROM**

[54] **PROCEDE ET APPAREIL POUR LE PRESSAGE DE GRAINES OLEAGINEUSES POUR EXTRAIRE DE L'HUILE DE CES DERNIERES**

[72] HEWITT, NEIL JAMES, GB

[72] NOVAES, MARCIO FERNANDES, GB

[73] MSM MILLING PTY LIMITED, AU

[85] 2016-09-29

[86] 2015-03-31 (PCT/EP2015/057134)

[87] (WO2015/150433)

[30] GB (1405975.2) 2014-04-02

[11] **2,944,671**
[13] C

[51] **Int.Cl. B65G 1/137 (2006.01)**

[25] EN

[54] **A MULTI-STOUREY GOODS STORAGE ARRANGEMENT**

[54] **AGENCEMENT DE STOCKAGE DE MARCHANDISES A PLUSIEURS ETAGES**

[72] HUISKAMP, HENDRIK CHRISTIAAN, NL

[73] NEDCON MAGAZIJNINRICHTING B.V., NL

[85] 2016-10-03

[86] 2015-03-17 (PCT/EP2015/055570)

[87] (WO2015/154954)

[30] SE (1450444-3) 2014-04-10

[11] **2,944,767**
[13] C

[51] **Int.Cl. G01N 30/72 (2006.01) G01N 1/34 (2006.01) G01N 33/48 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **ISOTYPING IMMUNOGLOBULINS USING ACCURATE MOLECULAR MASS**

[54] **ISOTYPAGE D'IMMUNOGLOBULINES PAR MASSE MOLECULAIRE PRECISE**

[72] MURRAY, DAVID L., US

[72] BARNIDGE, DAVID R., US

[72] DASARI, SURENDRA, US

[72] MILLS, JOHN R., US

[73] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2016-10-03

[86] 2015-04-03 (PCT/US2015/024379)

[87] (WO2015/154052)

[30] US (61/975,524) 2014-04-04

[11] **2,944,980**
[13] C

[51] **Int.Cl. E21B 43/267 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **MONITORING AND CONTROL OF PROPPANT STORAGE FROM A DATAVAN**

[54] **SURVEILLANCE ET CONTROLE DU STOCKAGE D'AGENT DE SOUTENEMENT A PARTIR D'UN CAMION DE DONNEES**

[72] OEHRING, JARED, US

[72] HINDERLITER, BRANDON, US

[72] BROWN, ARTHUR, US

[73] US WELL SERVICES LLC, US

[86] (2944980)

[87] (2944980)

[22] 2016-08-12

[30] US (62/204,331) 2015-08-12

[11] **2,945,058**
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/52 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR DETECTING MISFOLDED PROTEINS**

[54] **PROCEDES ET COMPOSITIONS DE DETECTION DE PROTEINES MAL REPLIEES**

[72] BUHIMSCHI, IRINA, US

[72] BUHIMSCHI, CATALIN S., US

[72] CHOMA, MICHAEL, US

[72] TAGARE, HEMANT, US

[72] JONAS, STEPHAN MICHAEL, DE

[73] YALE UNIVERSITY, US

[85] 2016-10-05

[86] 2015-04-10 (PCT/US2015/025432)

[87] (WO2015/157704)

[30] US (61/978,158) 2014-04-10

[11] **2,945,315**
[13] C

[51] **Int.Cl. A47K 5/12 (2006.01) B67D 3/00 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **CONTROL FOR PRODUCT DISPENSER ENERGY STORAGE DEVICE**

[54] **COMMANDE D'UN DISPOSITIF DE STOCKAGE D'ENERGIE DE DISTRIBUTEUR DE PRODUIT**

[72] ZOSIMADIS, PANAGIOTIS, CA

[72] BULLOCK, MARK A., US

[72] LIGHTNER, BRADLEY L., US

[73] GOJO INDUSTRIES, INC., US

[85] 2016-10-07

[86] 2015-04-09 (PCT/US2015/025157)

[87] (WO2015/157541)

[30] US (61/977,962) 2014-04-10

[30] US (14/682,664) 2015-04-09

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[11] **2,945,905**
[13] C

[51] **Int.Cl. C08L 83/04 (2006.01) C08J 3/24 (2006.01) C08K 3/36 (2006.01) C09D 183/04 (2006.01) C09K 3/10 (2006.01)**

[25] EN

[54] **SPRAYABLE COMPOSITION, ITS USE AND METHOD FOR SEALING OPENINGS OR GAPS IN BUILDING COMPONENTS**

[54] **COMPOSITION PULVERISABLE, UTILISATION ET PROCEDE D'ETANCHAGE D'OUVERTURES OU DE FISSURES DANS DES COMPOSANTS**

[72] JULI, STEFAN, AT

[72] FALKENBERG, STEFANIE, DE

[72] HUBER, JOHANN, DE

[72] SIMON, SEBASTIAN, DE

[72] FORG, CHRISTIAN, DE

[72] DRABER, EDGAR, DE

[72] ZOLLER, DANIEL, DE

[73] HILTI AKTIENGESELLSCHAFT, LI

[85] 2016-10-14

[86] 2015-05-26 (PCT/EP2015/061529)

[87] (WO2015/185387)

[30] EP (14171602.7) 2014-06-06

[11] **2,946,459**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4745 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **IMIDAZO[4,5-C]QUINOLIN-2-ONE COMPOUNDS AND THEIR USE IN TREATING CANCER**

[54] **COMPOSES IMIDAZO[4,5C]QUINOLINE-2-ONE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] BARLAAM, BERNARD CHRISTOPHE, GB

[72] PIKE, KURT GORDON, GB

[73] ASTRAZENECA AB, SE

[85] 2016-10-20

[86] 2015-05-05 (PCT/GB2015/051312)

[87] (WO2015/170081)

[30] US (61/990,232) 2014-05-08

[11] **2,946,600**
[13] C

[51] **Int.Cl. A41B 9/02 (2006.01) D04B 1/10 (2006.01) D04B 1/24 (2006.01)**

[25] EN

[54] **UNDERWEAR FOR MEN**

[54] **SOUS-VETEMENT POUR HOMMES**

[72] FRANTZ, ADAM, US

[72] PERRY, TASHA, US

[73] HBI BRANDED APPAREL ENTERPRISES, LLC, US

[85] 2016-10-20

[86] 2015-05-07 (PCT/US2015/029749)

[87] (WO2015/171933)

[30] US (61/996,442) 2014-05-07

[11] **2,946,938**
[13] C

[51] **Int.Cl. A61K 9/52 (2006.01) A61K 9/48 (2006.01)**

[25] EN

[54] **MODIFIED RELEASE COATED CAPSULES**

[54] **CAPSULES ENROBEES A LIBERATION MODIFIEE**

[72] BRAVO GONZALEZ, ROBERTO CARLOS, CH

[72] OLIVEIRA VARUM, FELIPE JOSE, CH

[72] BUSER, THOMAS, CH

[73] TILLOTTS PHARMA AG, CH

[85] 2016-10-25

[86] 2015-05-13 (PCT/EP2015/060638)

[87] (WO2015/177028)

[30] EP (14168871.3) 2014-05-19

[11] **2,946,952**
[13] C

[51] **Int.Cl. A61K 9/52 (2006.01) A61K 9/48 (2006.01)**

[25] EN

[54] **MODIFIED RELEASE COATED CAPSULES**

[54] **CAPSULES ENROBEES A LIBERATION MODIFIEE**

[72] BRAVO GONZALEZ, ROBERTO CARLOS, CH

[72] OLIVEIRA VARUM, FELIPE JOSE, CH

[72] BUSER, THOMAS, CH

[73] TILLOTTS PHARMA AG, CH

[85] 2016-10-25

[86] 2015-05-13 (PCT/EP2015/060633)

[87] (WO2015/177025)

[30] EP (14168892.9) 2014-05-19

[11] **2,946,967**
[13] C

[51] **Int.Cl. B32B 37/00 (2006.01) B29C 43/24 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR LAMINATION**

[54] **APPAREIL ET PROCEDE DE STATIFICATION**

[72] BOLLEMAN, NICOLAAS JAN, NL

[73] ELOPAK A.S., NO

[85] 2016-10-25

[86] 2015-06-19 (PCT/GB2015/000190)

[87] (WO2015/193632)

[30] GB (1410964.9) 2014-06-19

[11] **2,947,072**
[13] C

[51] **Int.Cl. C08F 2/14 (2006.01) C08F 212/12 (2006.01) C08F 210/12 (2006.01)**

[25] EN

[54] **HYDROFLUORINATED OLEFINS (HFO'S) AS DILUENTS FOR BUTYL RUBBER PRODUCTION**

[54] **OLEFINES HYDROFLUOREES UTILISEES EN TANT QUE DILUANTS DANS LA PRODUCTION DE CAOUTCHOUC BUTYLIQUE**

[72] ARSENAULT, GILLES, CA

[72] NGUYEN, PAUL, CA

[72] WATSON, JESSICA LEE, CA

[73] ARLANXEO SINGAPORE PTE. LTD., SG

[85] 2016-10-26

[86] 2015-04-28 (PCT/CA2015/050355)

[87] (WO2015/164966)

[30] EP (14166576.0) 2014-04-30

[30] EP (14174871.5) 2014-06-30

[11] **2,947,074**
[13] C

[51] **Int.Cl. E03C 1/22 (2006.01)**

[25] EN

[54] **WATERLESS TRAP**

[54] **SIPHON SANS EAU**

[72] BENESH, MICHAEL T., US

[72] MORRIS, JASON E., US

[72] VERDECCHIA, WILLIAM A., US

[72] BISSELL, DONALD J., US

[73] ZURN INDUSTRIES, LLC, US

[86] (2947074)

[87] (2947074)

[22] 2016-11-01

[30] US (62/249,576) 2015-11-02

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[11] **2,947,117**
[13] C

[51] **Int.Cl. G05B 23/02 (2006.01) F04B 51/00 (2006.01) F04D 15/00 (2006.01) G05D 7/06 (2006.01)**

[25] EN

[54] **PERFORMANCE MONITORING OF A PUMP-VALVE SYSTEM**

[54] **CONTROLE DES PERFORMANCES D'UN SYSTEME DE SOUPEPE DE POMPE**

[72] PYOTSIA, JOUNI, FI
[72] FRIMAN, MATS, FI
[73] NELES FINLAND OY, FI
[85] 2016-10-26
[86] 2014-04-29 (PCT/FI2014/050313)
[87] (WO2015/166132)

[11] **2,947,192**
[13] C

[51] **Int.Cl. B64C 27/12 (2006.01) B64C 27/02 (2006.01)**

[25] EN

[54] **HELICOPTER**

[54] **HELICOPTERE**

[72] GRABER, ANDREAS, DE
[73] GRABER, ANDREAS, DE
[85] 2016-10-27
[86] 2015-05-06 (PCT/EP2015/000923)
[87] (WO2015/169442)
[30] DE (20 2014 003 903.8) 2014-05-08

[11] **2,947,327**
[13] C

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 47/01 (2012.01)**

[25] EN

[54] **METHOD FOR DEPLOYING A RETRIEVABLE MWD TOOL IN A NON-RETRIEVABLE ENVIRONMENT**

[54] **PROCEDE PERMETTANT D'ALIGNER UN OUTIL DE OUTIL DE MESURE EN COURS DE FORAGE A L'AIDE D'UN ENSEMBLE DISPOSITIF DE SUSPENSION D'ORIENTATION**

[72] MACDONALD, CRAIG, US
[72] MILLER, MARK, US
[73] PRIME DOWNHOLE MANUFACTURING LLC, US
[85] 2016-10-27
[86] 2015-05-01 (PCT/US2015/028716)
[87] (WO2015/171444)
[30] US (14/271,059) 2014-05-06

[11] **2,947,382**
[13] C

[51] **Int.Cl. C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/18 (2006.01) C22C 38/38 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A COLD-ROLLED FLAT STEEL PRODUCT WITH HIGH YIELD STRENGTH AND FLAT COLD-ROLLED STEEL PRODUCT**

[54] **PROCEDE DE PRODUCTION D'UN PRODUIT PLAT EN ACIER LAMINE A FROID A LIMITE D'ELASTICITE ELEVEE ET PRODUIT PLAT EN ACIER LAMINE A FROID**

[72] HAMMER, BRIGITTE, DE
[72] HISKER, FRANK, DE
[72] HELLER, THOMAS, DE
[72] DZAFIC, ALMIR, DE
[72] THIESSEN, RICHARD, G., NL
[72] KANEKO, SHINJIRO, JP
[72] SHIIMORI, FUSAE, JP
[73] THYSSENKRUPP STEEL EUROPE AG, DE
[85] 2016-08-31
[86] 2015-04-14 (PCT/EP2015/058101)
[87] (WO2015/158731)
[30] DE (10 2014 105 396.6) 2014-04-15

[11] **2,947,553**
[13] C

[51] **Int.Cl. A01K 5/02 (2006.01)**

[25] EN

[54] **A METHOD FOR DISTRIBUTING FEED OVER A PLURALITY OF SEPARATE FEEDING LOCATIONS AND A FEEDING SYSTEM THEREFOR**

[54] **PROCEDE DE DISTRIBUTION D'ALIMENT POUR ANIMAUX SUR UNE PLURALITE D'EMPLACEMENTS D'ALIMENTATION DISTINCTS ET SYSTEME D'ALIMENTATION ASSOCIE**

[72] RUIZENAAR, RUUD, NL
[72] SMIT, ARJAN, NL
[73] LELY PATENT N.V., NL
[85] 2016-10-31
[86] 2015-04-09 (PCT/NL2015/050231)
[87] (WO2015/178763)
[30] NL (2012855) 2014-05-22

[11] **2,947,757**
[13] C

[51] **Int.Cl. C08L 33/26 (2006.01) C08J 3/09 (2006.01) C08J 3/20 (2006.01) C08K 5/06 (2006.01) C08K 5/101 (2006.01) C08K 5/5419 (2006.01) C09K 8/36 (2006.01) C09K 8/64 (2006.01) C09K 8/74 (2006.01) E21B 21/14 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **STABILIZATION OF POLYACRYLAMIDE EMULSION FORMULATIONS**

[54] **STABILISATION DE FORMULATIONS D'EMULSION DE POLYACRYLAMIDE**

[72] KUMAR, MUKESH, US
[72] KOCZO, KALMAN, US
[72] TERRACINA, JOHN, US
[73] MOMENTIVE PERFORMANCE MATERIALS INC., US
[85] 2016-11-01
[86] 2015-05-13 (PCT/US2015/030516)
[87] (WO2015/175627)
[30] US (14/279,563) 2014-05-16

[11] **2,947,797**
[13] C

[51] **Int.Cl. B60G 3/20 (2006.01)**

[25] EN

[54] **VEHICLE SUSPENSION**

[54] **SUSPENSION DE VEHICULE**

[72] COPPUCK, FRANK, GB
[73] GORDON MURRAY DESIGN LIMITED, GB
[85] 2016-11-02
[86] 2015-05-08 (PCT/EP2015/060189)
[87] (WO2015/169948)
[30] GB (1408114.5) 2014-05-08

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[11] **2,947,839**
[13] C

[51] **Int.Cl. A01K 5/02 (2006.01)**
[25] EN
[54] **A METHOD FOR DISTRIBUTING FEED OVER A PLURALITY OF SEPARATE FEEDING LOCATIONS AND A FEEDING SYSTEM THEREFOR**

[54] **PROCEDE DE DISTRIBUTION D'ALIMENTS SUR UNE PLURALITE DE SITES D'ALIMENTATION SEPARES ET SYSTEME D'ALIMENTATION ASSOCIE**

[72] RUIZENAAR, RUUD, NL
[72] SMIT, ARJAN, NL
[73] LELY PATENT N.V., NL
[85] 2016-11-02
[86] 2015-04-21 (PCT/NL2015/050264)
[87] (WO2015/178764)
[30] NL (2012856) 2014-05-22

[11] **2,948,260**
[13] C

[51] **Int.Cl. C08L 23/06 (2006.01) C08J 3/24 (2006.01) C08K 5/14 (2006.01) C08L 23/36 (2006.01)**

[25] EN
[54] **CROSSLINKABLE POLYMERIC COMPOSITIONS WITH AMINE-FUNCTIONALIZED INTERPOLYMERS, METHODS FOR MAKING THE SAME, AND ARTICLES MADE THEREFROM**

[54] **COMPOSITIONS POLYMERES RETICULABLES COMPRENANT DES INTERPOLYMERES A FONCTIONNALISATION AMINE, PROCEDES POUR LEUR PREPARATION ET OBJETS PRODUITS A PARTIR DE CELLES-CI**

[72] PERSON, TIMOTHY J., US
[72] TALREJA, MANISH, US
[72] COGEN, JEFFREY M., US
[72] SENGUPTA, SAURAV S., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2016-11-04
[86] 2015-04-02 (PCT/US2015/023987)
[87] (WO2015/175106)
[30] US (61/992,338) 2014-05-13

[11] **2,948,427**
[13] C

[51] **Int.Cl. B65B 55/02 (2006.01) B65B 1/04 (2006.01) B65B 3/16 (2006.01) B65B 31/02 (2006.01) A61L 2/07 (2006.01) A61L 2/20 (2006.01) B65B 3/00 (2006.01) B65B 7/14 (2006.01) B65B 39/00 (2006.01) B65B 55/18 (2006.01)**

[25] FR
[54] **ASEPTIC FILLING DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE REMPLISSAGE ASEPTIQUE**

[72] CORMARY, BERTRAND, FR
[72] SERRA, LAURENT, FR
[73] PIERRE FABRE DERMOCOSMETIQUE, FR
[85] 2016-11-08
[86] 2015-05-11 (PCT/EP2015/060394)
[87] (WO2015/169972)
[30] FR (1454174) 2014-05-09

[11] **2,949,169**
[13] C

[51] **Int.Cl. B65G 35/06 (2006.01) B65G 17/00 (2006.01)**

[25] EN
[54] **CONTINUOUS CONVEYOR**

[54] **CONVOYEUR CONTINU**

[72] SCHIRLE, ANTON, DE
[72] GRAAF, WOLFGANG, DE
[73] BLEICHERT AUTOMATION GMBH & CO. KG, DE
[85] 2016-11-15
[86] 2015-05-15 (PCT/EP2015/060782)
[87] (WO2015/173406)
[30] DE (10 2014 106 956.0) 2014-05-16

[11] **2,949,213**
[13] C

[51] **Int.Cl. G01N 30/74 (2006.01) B01D 15/08 (2006.01)**

[25] EN
[54] **LOW-POWER MINIATURE LED-BASED UV ABSORPTION DETECTOR WITH LOW DETECTION LIMITS FOR CAPILLARY LIQUID CHROMATOGRAPHY**

[54] **DETECTEUR D'ABSORPTION D'UV A BASE DE DEL MINIATURE DE FAIBLE PUISSANCE AVEC LIMITES DE DETECTION FAIBLES POUR CHROMATOGRAPHIE LIQUIDE CAPILLAIRE**

[72] FARNSWORTH, PAUL B., US
[72] SHARMA, SONIKA, US
[72] TOLLEY, H. DENNIS, US
[72] LEE, MILTON L., US
[73] BRIGHAM YOUNG UNIVERSITY, US
[85] 2016-11-15
[86] 2015-05-15 (PCT/US2015/031023)
[87] (WO2015/175906)
[30] US (61/996,803) 2014-05-15

[11] **2,949,223**
[13] C

[51] **Int.Cl. F21V 8/00 (2006.01)**

[25] EN
[54] **LIGHT DIFFUSION WITH LIGHT-GENERATING SOURCES**

[54] **DIFFUSION DE LUMIERE AU MOYEN DE SOURCES LUMINEUSES**

[72] PETERSON, CODY G., US
[72] HUSKA, ANDREW P., US
[72] CHRISTIE, KASEY, US
[72] ADAMS, CLINTON, US
[73] ROHINNI, LLC, US
[85] 2016-11-15
[86] 2015-05-15 (PCT/US2015/031254)
[87] (WO2015/176044)
[30] US (61/994,021) 2014-05-15

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[11] **2,949,533**
[13] C

[51] **Int.Cl. E21B 47/008 (2012.01) E21B 43/12 (2006.01) E21B 47/12 (2012.01) F04D 13/10 (2006.01) F04D 15/00 (2006.01)**

[25] EN

[54] **SUBMERISIBLE ELECTRICAL SYSTEM ASSESSMENT**

[54] **EVALUATION DE SYSTEME ELECTRIQUE SUBMERSIBLE**

[72] RENDUSARA, DUDI, SG

[72] MEREDITH, ANDREW, GB

[72] COSTE, EMMANUEL, US

[72] STEENSON, LEO, GB

[72] HOEFEL, ALBERT, US

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2016-11-17

[86] 2015-05-22 (PCT/US2015/032197)

[87] (WO2015/179775)

[30] US (62/002,596) 2014-05-23

[30] US (62/004,799) 2014-05-29

[11] **2,949,648**
[13] C

[51] **Int.Cl. F25D 31/00 (2006.01) F25B 1/04 (2006.01)**

[25] EN

[54] **SYSTEM FOR STORING AND COOLING MILK, MILKING SYSTEM, AND METHOD FOR COOLING MILK**

[54] **SYSTEME POUR LE STOCKAGE ET LE REFROIDISSEMENT DE LAIT, SYSTEME DE TRAITE ET PROCEDE DE REFROIDISSEMENT DE LAIT**

[72] MEILLAN, JEAN-PIERRE, SE

[72] STOPA, JERZY, SE

[73] DELAVAL HOLDING AB, SE

[85] 2016-11-18

[86] 2015-05-19 (PCT/SE2015/050560)

[87] (WO2015/178834)

[30] SE (1450594-5) 2014-05-20

[30] SE (1451344-4) 2014-11-10

[11] **2,949,877**
[13] C

[51] **Int.Cl. B65G 43/00 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR INTERVENING ON A CONVEYOR LINE**

[54] **D'INTERVENTION SUR LIGNE DE CONVOYAGE**

[72] KLOTZ, FRANCK, CA

[73] SIDEL CANADA INC., CA

[85] 2016-11-21

[86] 2014-06-06 (PCT/IB2014/000999)

[87] (WO2015/185957)

[11] **2,949,898**
[13] C

[51] **Int.Cl. H01M 8/0226 (2016.01)**

[25] FR

[54] **METHOD FOR MANUFACTURING A COMPOSITE BIPOLAR PLATE, COMPOSITE BIPOLAR PLATE, USES THEREOF AND FUEL CELL COMPRISING SUCH A COMPOSITE BIPOLAR PLATE**

[54] **PROCEDE DE FABRICATION D'UNE PLAQUE BIPOLAIRE COMPOSITE, PLAQUE BIPOLAIRE COMPOSITE, SES UTILISATIONS ET PILE A COMBUSTIBLE COMPRENANT UNE TELLE PLAQUE BIPOLAIRE COMPOSITE**

[72] BUVAT, PIERRICK, FR

[72] TONEGUZZO, PHILIPPE, FR

[72] DAGAZ, SEBASTIEN, FR

[72] PAGE, BRICE, FR

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

[85] 2016-11-22

[86] 2015-05-27 (PCT/EP2015/061716)

[87] (WO2015/181238)

[30] FR (14 54768) 2014-05-27

[11] **2,949,916**
[13] C

[51] **Int.Cl. C22B 3/06 (2006.01) C22B 3/08 (2006.01) C22B 3/10 (2006.01) C22B 3/22 (2006.01) C22B 7/00 (2006.01) C25C 1/12 (2006.01) C25C 7/06 (2006.01) C22B 11/00 (2006.01)**

[25] EN

[54] **HYDROMETALLURGICAL TREATMENT OF ANODE SLUDGE**

[54] **TRAITEMENT HYDROMETALLURGIQUE DE BOUES ANODIQUES**

[72] VIRTANEN, HENRI, FI

[72] SCHMACHTEL, SONKE, FI

[73] METSO OUTOTEC FINLAND OY, FI

[85] 2016-11-22

[86] 2015-05-27 (PCT/FI2015/050366)

[87] (WO2015/181446)

[30] FI (20145484) 2014-05-28

[11] **2,950,063**
[13] C

[51] **Int.Cl. F16L 3/127 (2006.01) F16L 3/12 (2006.01)**

[25] EN

[54] **PIPE RESTRAINT**

[54] **DISPOSITIF DE RETENUE DE TUYAU**

[72] DWORAK, DALLAS MARTIN, JR., US

[72] SCHMIDT, TROY WILLIAM, US

[72] VON GNATENSKY, GEORGE BENEDICT, US

[72] TOSUNIAN, MICHAEL, US

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2016-11-23

[86] 2015-07-10 (PCT/IB2015/055238)

[87] (WO2016/005956)

[30] US (62/023,769) 2014-07-11

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[11] **2,950,148**
[13] C

[51] **Int.Cl. C08J 3/24 (2006.01) C08B 31/00 (2006.01) C08B 37/08 (2006.01) C08J 3/20 (2006.01) C08L 3/04 (2006.01) C08L 5/08 (2006.01)**

[25] EN

[54] **MODIFIED BIOPOLYMERS AND METHODS OF PRODUCING AND USING THE SAME**

[54] **BIOPOLYMERES MODIFIES ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**

[72] AYOUB, ALI, US

[72] BRAY, JAMES CHARLES, US

[72] CHAN, RYAN NICHOLAS, US

[73] ANAVO TECHNOLOGIES, LLC, US

[85] 2016-11-23

[86] 2015-06-02 (PCT/US2015/033688)

[87] (WO2015/187631)

[30] US (62/006,317) 2014-06-02

[11] **2,950,175**
[13] C

[51] **Int.Cl. A61L 2/26 (2006.01) A61B 50/30 (2016.01) A61L 2/28 (2006.01)**

[25] EN

[54] **MULTI-PANEL STERILIZATION ASSEMBLY WITH STRETCH COMPONENTS**

[54] **ENSEMBLE DE STERILISATION MULTI-PAROI DOTE D'ELEMENTS EXTENSIBLES**

[72] KALMON, MICHAEL F., US

[72] AMEERALLY, AZEEMA P., US

[72] GRIESBACH, HENRY L., III, US

[73] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY, IE

[85] 2016-11-23

[86] 2015-06-16 (PCT/US2015/035973)

[87] (WO2015/195626)

[30] US (14/307,875) 2014-06-18

[11] **2,950,689**
[13] C

[51] **Int.Cl. G06F 11/14 (2006.01) G06F 12/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE PRODUCTION OF JOB LEVEL PRE-PROCESSED BACKUP OF CRITICAL DATA AND/OR DATASETS IN A MAINFRAME COMPUTING ENVIRONMENT**

[54] **SYSTEME ET PROCEDE DE PRODUCTION D'UNE SAUVEGARDE PRETRAITEE AU NIVEAU DE LA TACHE DE DONNEES ET/OU D'ENSEMBLES DE DONNEES CRITIQUES DANS UN ENVIRONNEMENT INFORMATIQUE CENTRAL**

[72] ECKERT, PAUL J., US

[73] TERA CLOUD APS, DK

[85] 2016-11-29

[86] 2015-05-27 (PCT/IB2015/000758)

[87] (WO2015/181616)

[30] US (62/005,117) 2014-05-30

[30] US (14/716,034) 2015-05-19

[11] **2,950,713**
[13] C

[51] **Int.Cl. A61K 31/122 (2006.01) A61K 9/107 (2006.01) A61K 9/48 (2006.01) A61K 31/015 (2006.01) A61K 47/10 (2017.01) A61K 47/24 (2006.01) A61K 47/26 (2006.01) A61P 3/02 (2006.01)**

[25] EN

[54] **EMULSION COMPOSITION COMPRISING A LIPOPHILIC INGREDIENT**

[54] **COMPOSITION D'EMULSION COMPRENANT UN INGREDIENT LIPOPHILE**

[72] HIRAI, KATSUYUKI, JP

[72] YAMAGISHI, YUICHIRO, JP

[72] HONGO, NOBUKO, JP

[72] TAKAHASHI, JIRO, JP

[72] SAKAGUCHI, RINA, JP

[72] KITAMURA, AKITOSHI, JP

[73] FUJI CHEMICAL INDUSTRIES CO., LTD., JP

[85] 2016-11-29

[86] 2015-08-28 (PCT/JP2015/074359)

[87] (WO2016/031954)

[30] JP (2014-175540) 2014-08-29

[30] JP (2014-218699) 2014-10-27

[30] JP (2014-221027) 2014-10-30

[11] **2,951,279**
[13] C

[51] **Int.Cl. F04D 15/00 (2006.01)**

[25] EN

[54] **FAULT DETECTION IN ELECTRIC SUBMERSIBLE PUMPS**

[54] **DETECTION DE DEFAUTS DANS DES POMPES SUBMERSIBLES ELECTRIQUES**

[72] CHUGUNOV, NIKITA, US

[72] VERMA, SANDEEP, US

[72] BOSE, SANDIP, US

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2016-12-05

[86] 2015-06-15 (PCT/US2015/035765)

[87] (WO2015/195520)

[30] US (62/012,867) 2014-06-16

[11] **2,951,596**
[13] C

[51] **Int.Cl. D21H 27/10 (2006.01) B65D 30/24 (2006.01) D21H 19/20 (2006.01) D21H 19/36 (2006.01) D21H 19/38 (2006.01) D21H 19/82 (2006.01)**

[25] EN

[54] **COATED SACK PAPER**

[54] **PAPIER DE SAC REVETU**

[72] ALMKVIST, JONAS, SE

[72] LINDSTROM, OVE, SE

[72] XENOPOULOS, CONSTANTINOS, FR

[73] BILLERUDKORSNAS AB, SE

[85] 2016-12-08

[86] 2015-06-24 (PCT/EP2015/064212)

[87] (WO2016/001029)

[30] EP (14175736.9) 2014-07-04

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[11] **2,951,714**
[13] C

[51] **Int.Cl. H01M 4/92 (2006.01) H01M 8/1004 (2016.01)**
[25] EN
[54] **BILAYER CATHODE DESIGN FOR ELECTROCHEMICAL FUEL CELLS**
[54] **CONCEPTION DE CATHODE BICOUCHE POUR DES PILES A COMBUSTIBLE ELECTROCHIMIQUES**
[72] YOUNG, ALAN, CA
[72] YE, SIYU, CA
[72] KNIGHTS, SHANNA D., CA
[72] BAI, KYOUNG, CA
[73] BDF IP HOLDINGS LTD., CA
[85] 2016-12-08
[86] 2015-07-08 (PCT/US2015/039608)
[87] (WO2016/007671)
[30] US (62/022,094) 2014-07-08

[11] **2,951,948**
[13] C

[51] **Int.Cl. A23L 5/20 (2016.01) A23K 10/30 (2016.01) A23L 7/10 (2016.01)**
[25] EN
[54] **METHOD FOR EXTRACTING CONTAMINANTS FROM AGRARIAN PRODUCTS AND APPARATUS THEREFOR**
[54] **PROCEDE POUR EXTRAIRE DES CONTAMINANTS CONTENUS DANS DES PRODUITS AGRICOLES ET DISPOSITIF POUR METTRE LEDIT PROCEDE EN OEUVRE**
[72] BINDER, EVA-MARIA, AT
[72] CVAK, BARBARA, AT
[72] SCHIESSL, ALOIS, AT
[72] HAUBL, GEORG, AT
[73] ERBER AKTIENGESELLSCHAFT, AT
[85] 2016-12-12
[86] 2015-06-03 (PCT/AT2015/000083)
[87] (WO2015/188205)
[30] AT (GM 251/2014) 2014-06-12

[11] **2,952,227**
[13] C

[51] **Int.Cl. A01K 5/02 (2006.01) A01K 1/10 (2006.01)**
[25] EN
[54] **ROTARY LIVESTOCK FEEDER WITH GRAVITY FLOW FEED OPENINGS**
[54] **DISPOSITIF D'ALIMENTATION DE BETAIL ROTATIF DOTE D'OUVERTES D'ALIMENTATION A ECOULEMENT PAR GRAVITE**
[72] EAKIN, GEORGE R., US
[73] OSBORNE INDUSTRIES, INC., US
[85] 2016-12-13
[86] 2015-06-12 (PCT/US2015/035689)
[87] (WO2015/192097)
[30] US (62/012,036) 2014-06-13
[30] US (14/738,534) 2015-06-12

[11] **2,952,699**
[13] C

[51] **Int.Cl. G05B 19/10 (2006.01)**
[25] EN
[54] **USE OF A DISPLAY MEANS OF A CONVERTER, METHOD FOR OPERATING A CONVERTER, AND CONVERTER**
[54] **UTILISATION D'UN MECANISME D'AFFICHAGE D'UN CONVERTISSEUR, METHODE D'EXPLOITATION D'UN CONVERTISSEUR ET CONVERTISSEUR**
[72] NIKOLA, JOACHIM, DE
[73] SEW-EURODRIVE GMBH & CO. KG, DE
[85] 2016-12-16
[86] 2015-07-09 (PCT/EP2015/001410)
[87] (WO2016/015825)
[30] DE (10 2014 010 979.8) 2014-07-29

[11] **2,953,041**
[13] C

[51] **Int.Cl. A23L 27/30 (2016.01) A23G 4/06 (2006.01) A61K 47/26 (2006.01)**
[25] FR
[54] **NOVEL SWEETENING COMPOSITION**
[54] **NOUVELLE COMPOSITION EDULCORANTE**
[72] ORTIZ DE ZARATE, DOMINIQUE, FR
[72] LAGACHE, SYLVIE, FR
[72] BUSOLIN, ANDRE, FR
[72] BARRE, ANTOINE, FR
[73] ROQUETTE FRERES, FR
[85] 2016-12-20
[86] 2015-07-01 (PCT/FR2015/051820)
[87] (WO2016/001589)
[30] FR (1456288) 2014-07-01

[11] **2,953,094**
[13] C

[51] **Int.Cl. F16K 5/06 (2006.01)**
[25] EN
[54] **STRUCTURE AND METHOD FOR FASTENING BALL SEAT FOR BALL VALVE, TRUNNION-TYPE BALL VALVE, AND HYDROGEN STATION USING SAID VALVE**
[54] **STRUCTURE ET METHODE DE FIXATION D'UN SIEGE DE ROTULE D'UNE VANNE SPHERIQUE, VANNE A TOURILLON ET STATION D'HYDROGENE EMPLOYANT LADITE VANNE**
[72] WATANABE, OSAMU, JP
[72] YAMASAKI, TOMOYA, JP
[73] KITZ CORPORATION, JP
[85] 2016-12-20
[86] 2015-06-24 (PCT/JP2015/068164)
[87] (WO2016/002593)
[30] JP (2014-134339) 2014-06-30

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[11] **2,953,191**
[13] C

[51] **Int.Cl. A21D 13/47 (2017.01) A21D 13/45 (2017.01) A21C 15/00 (2006.01) A23G 3/28 (2006.01) A23P 30/00 (2016.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR THE DECORATION OF FOODSTUFFS**

[54] **APPAREIL ET PROCÉDÉ POUR LA DÉCORATION DE PRODUITS ALIMENTAIRES**

[72] LEACH, JAMES RICHARD HUGHES, GB

[72] MORLEY, JONATHAN DAVID, GB

[73] UNILEVER IP HOLDINGS B.V., NL

[85] 2016-12-21

[86] 2015-06-02 (PCT/EP2015/062288)

[87] (WO2015/197323)

[30] EP (14174672.7) 2014-06-27

[11] **2,953,252**
[13] C

[51] **Int.Cl. C03B 5/20 (2006.01) C03B 5/027 (2006.01) C03B 7/01 (2006.01) C03C 3/062 (2006.01) C03C 3/078 (2006.01)**

[25] FR

[54] **GLASS MELTING DEVICE COMPRISING A FURNACE, A DUCT AND A BARRIER**

[54] **DISPOSITIF DE FUSION DU VERRE COMPRENANT UN FOUR, UN CANAL ET UN BARRAGE**

[72] CLATOT, RICHARD, FR

[72] MAUGENDRE, STEPHANE, FR

[72] SZALATA, FRANCOIS, FR

[73] SAINT-GOBAIN ISOVER, FR

[85] 2016-12-21

[86] 2015-07-01 (PCT/FR2015/051809)

[87] (WO2016/005681)

[30] FR (1456580) 2014-07-08

[11] **2,953,259**
[13] C

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/66 (2017.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **USE OF A NEUROFILAMENT PEPTIDE FOR TARGETING NEURAL STEM CELLS**

[54] **UTILISATION D'UN PEPTIDE NEUROFILAMENTAIRE POUR LE CIBLAGE DE CELLULES SOUCHES NEURONALES**

[72] EYER, JOEL, FR

[72] LEPINOUX-CHAMBAUD, CLAIRE, FR

[73] UNIVERSITE D'ANGERS, FR

[73] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR

[85] 2016-12-21

[86] 2015-06-23 (PCT/EP2015/064118)

[87] (WO2015/197619)

[30] EP (14305981.4) 2014-06-23

[11] **2,953,344**
[13] C

[51] **Int.Cl. E06B 9/24 (2006.01) A47H 11/06 (2006.01) E06B 9/38 (2006.01)**

[25] EN

[54] **DEVICES AND SYSTEMS FOR ACCUMULATING LIFT CORDS USED TO LIFT ARCHITECTURAL OPENING COVERINGS**

[54] **DISPOSITIFS ET SYSTEMES DE RASSEMBLEMENT DE CORDONS DE LEVAGE UTILISES POUR SOULEVER DES COUVERTURES ARCHITECTURALES**

[72] LYNCH, WILLIAM, US

[72] FEATHER, WILLIAM D., US

[72] GIBBONS, STEVE, US

[72] WOOD, TIM, US

[73] SAFE-T-SHADE, US

[85] 2016-12-21

[86] 2015-06-22 (PCT/US2015/036906)

[87] (WO2015/200181)

[30] US (14/312,432) 2014-06-23

[11] **2,953,778**
[13] C

[51] **Int.Cl. B29C 70/38 (2006.01) B29B 11/16 (2006.01) B29C 70/48 (2006.01) D04H 1/587 (2012.01) D04H 1/58 (2012.01) D04H 1/74 (2006.01) D04H 3/04 (2012.01) D04H 3/12 (2006.01) D04H 13/00 (2006.01)**

[25] EN

[54] **DRY FIBROUS TAPE FOR MANUFACTURING PREFORM**

[54] **BANDE FIBREUSE SECHE DESTINEE A LA FABRICATION D'UNE PREFORME**

[72] BLACKBURN, ROBERT, GB

[72] HILL, SAMUEL JESTYN, GB

[72] PONSOLLE, DOMINIQUE, US

[72] RESTUCCIA, CARMELO LUCA, GB

[73] CYTEC INDUSTRIES INC., US

[85] 2016-12-28

[86] 2015-06-25 (PCT/US2015/037674)

[87] (WO2016/003763)

[30] US (62/018,857) 2014-06-30

[11] **2,953,810**
[13] C

[51] **Int.Cl. C07D 401/02 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **INHIBITORS OF LYSINE SPECIFIC DEMETHYLASE-1**

[54] **INHIBITEURS DE LA DEMETHYLASE-1 SPECIFIQUE DE LA LYSINE**

[72] CHEN, YOUNG K., US

[72] KANOUNI, TOUFKE, US

[72] STAFFORD, JEFFREY ALAN, US

[72] VEAL, JAMES MARVIN, US

[73] CELGENE QUANTICEL RESEARCH, INC., US

[85] 2016-12-23

[86] 2015-06-26 (PCT/US2015/038089)

[87] (WO2015/200843)

[30] US (62/018,365) 2014-06-27

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[11] **2,953,855**
[13] C

[51] **Int.Cl. C10K 1/00 (2006.01) C10G 1/06 (2006.01) C10G 1/08 (2006.01) C10G 1/10 (2006.01) C10G 3/00 (2006.01) C10K 3/04 (2006.01)**

[25] EN

[54] **CONVERSION OF SOLID BIOMASS INTO A LIQUID HYDROCARBON MATERIAL**

[54] **CONVERSION D'UNE BIOMASSE SOLIDE EN SUSBTANCE HYDROCARBONEE LIQUIDE**

[72] URADE, VIKRANT NANASAHEB, IN

[72] CHILKOOR SOUNDARARAJAN, LAXMI NARASIMHAN, IN

[72] GOPAL, SRIKANT, IN

[72] PANCHAGNULA, MADHUSUDHAN RAO, IN

[72] DEL PAGGIO, ALAN ANTHONY, US

[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2016-12-29

[86] 2015-06-29 (PCT/EP2015/064732)

[87] (WO2016/001163)

[30] IN (3235/CHE/2014) 2014-07-01

[11] **2,954,141**
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 9/46 (2006.01) C22C 38/02 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A HIGH STRENGTH STEEL SHEET HAVING IMPROVED STRENGTH, DUCTILITY AND FORMABILITY**

[54] **PROCEDE DE PRODUCTION D'UNE TOLE D'ACIER A HAUTE RESISTANCE PRESENTANT UNE RESISTANCE, UNE DUCTILITE ET UNE APTITUDE AU FORMAGE AMELIOREES**

[72] MOHANTY, RASHMI RANJAN, US

[72] JUN, HYUN JO, US

[72] FAN, DONGWEI, US

[73] ARCELORMITTAL, LU

[85] 2017-01-03

[86] 2015-07-03 (PCT/IB2015/055042)

[87] (WO2016/001898)

[30] IB (PCT/IB2014/002256) 2014-07-03

[11] **2,954,146**
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 9/46 (2006.01) C22C 38/02 (2006.01) C23C 2/02 (2006.01) C23C 2/40 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A HIGH STRENGTH COATED STEEL SHEET HAVING IMPROVED STRENGTH, DUCTILITY AND FORMABILITY**

[54] **PROCEDE DE PRODUCTION D'UNE TOLE D'ACIER REVETUE A HAUTE RESISTANCE, UNE DUCTILITE ET UNE APTITUDE AU FORMAGE AMELIOREES**

[72] MOHANTY, RASHMI RANJAN, US

[72] JUN, HYUN JO, US

[72] FAN, DONGWEI, US

[73] ARCELORMITTAL, LU

[85] 2017-01-03

[86] 2015-07-03 (PCT/IB2015/055039)

[87] (WO2016/001895)

[30] IB (PCT/IB2014/002275) 2014-07-03

[11] **2,954,255**
[13] C

[51] **Int.Cl. F02F 1/38 (2006.01) F02F 1/24 (2006.01)**

[25] FR

[54] **CYLINDER HEAD, ELEMENT AND FLANGE OF A PISTON ENGINE.**

[54] **CULASSE, ELEMENT ET SEMELLE DE MOTEUR A PISTON.**

[72] HUBERT, PIERRE-JULIEN, FR

[72] BOUDY, JEAN-PIERRE, FR

[72] VERMEIREN, SEBASTIEN, FR

[73] MECACHROME FRANCE, FR

[85] 2017-01-04

[86] 2015-07-09 (PCT/FR2015/051900)

[87] (WO2016/005704)

[30] FR (1456618) 2014-07-09

[11] **2,954,460**
[13] C

[51] **Int.Cl. A21D 8/00 (2006.01) A21B 7/00 (2006.01) A21C 14/00 (2006.01) A21D 8/02 (2006.01) A21D 13/00 (2017.01)**

[25] EN

[54] **MULTIVARIABLE BAKING METHOD AND DEVICE THEREFOR**

[54] **PROCEDE DE CUISSON MULTIVARIABLE ET DISPOSITIF ASSOCIE**

[72] TROCKELS, HANS-GUNTER, DE

[72] JANK, RUDIGER, DE

[72] NASSE, BERND, DE

[73] KUCHENMEISTER GMBH, DE

[85] 2017-01-06

[86] 2015-07-02 (PCT/EP2015/065105)

[87] (WO2016/005264)

[30] DE (10 2014 213 450.1) 2014-07-10

[11] **2,954,756**
[13] C

[51] **Int.Cl. A61F 13/471 (2006.01)**

[25] EN

[54] **URINE ABSORBENT PAD**

[54] **TAMPON ABSORBANT L'URINE**

[72] LUMAQUE-STEEMAN, LORNA MATEO, US

[73] EZ MALE PADS, INCORPORATED, US

[85] 2017-01-10

[86] 2015-05-13 (PCT/US2015/030657)

[87] (WO2016/010617)

[30] US (61/998,947) 2014-07-14

[11] **2,955,910**
[13] C

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/519 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TRICYCLIC IMIDAZO-PYRIMIDINONE COMPOUNDS AS LP-PLA2 INHIBITORS**

[54] **COMPOSES D'IMIDAZO-PYRIMIDINONE TRICYCLIQUES COMME INHIBITEURS LP-PLA2**

[72] WAN, ZEHONG, CN

[72] ZHANG, XIAOMIN, CN

[72] WANG, JIAN, CN

[73] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[85] 2017-01-20

[86] 2015-07-21 (PCT/CN2015/084607)

[87] (WO2016/011931)

[30] CN (PCT/CN2014/000695) 2014-07-22

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[11] **2,956,111**
[13] C

[51] **Int.Cl. G09B 9/02 (2006.01) G09B 9/12 (2006.01)**
[25] EN
[54] **DEVICE FOR SPATIAL MOVEMENT OF AT LEAST ONE PERSON**
[54] **DISPOSITIF DE DEPLACEMENT DANS L'ESPACE D'AU MOINS UNE PERSONNE**
[72] SCHLUSSELBERGER, RAINER, AT
[72] SCHLUSSELBERGER JUN., RICHARD, AT
[72] MAYRHOFER, MICHAEL, AT
[73] AMST-SYSTEMTECHNIK GMBH, AT
[85] 2017-01-24
[86] 2015-07-27 (PCT/EP2015/067128)
[87] (WO2016/016177)
[30] AT (A600/2014) 2014-07-29

[11] **2,957,152**
[13] C

[51] **Int.Cl. E04F 21/00 (2006.01) E04G 21/18 (2006.01) E06B 1/56 (2006.01)**
[25] EN
[54] **AUXILIARY MOUNTING TOOL FOR THE POSITIONING OF ELEMENTS IN RELATION TO AN ADJACENT FLAT OR PLANE**
[54] **OUTIL DE MONTAGE AUXILIAIRE PERMETTANT LE POSITIONNEMENT D'ELEMENTS PAR RAPPORT A UN PLAN OU PLAT ADJACENT**
[72] DISSING, CLAUS HORNSTRUP, DK
[73] DISSING A/S, DK
[85] 2017-02-02
[86] 2015-08-06 (PCT/DK2015/050231)
[87] (WO2016/019965)
[30] DK (PA 2014 70478) 2014-08-08

[11] **2,957,927**
[13] C

[51] **Int.Cl. B01D 61/14 (2006.01) B01D 61/22 (2006.01) B01D 65/02 (2006.01) B04B 13/00 (2006.01)**
[25] EN
[54] **INTELLIGENT FLUID FILTRATION MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE FILTRATION DE FLUIDE INTELLIGENT**
[72] HOEK, ERIC M.V., US
[72] BHATTACHARJEE, SUBIR, US
[72] HURWITZ, GIL, US
[73] WATER PLANET, INC., US
[85] 2017-02-10
[86] 2015-08-12 (PCT/US2015/044845)
[87] (WO2016/025590)
[30] US (62/036,344) 2014-08-12
[30] US (62/145,793) 2015-04-10

[11] **2,956,257**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4045 (2006.01) A61K 31/428 (2006.01) A61K 31/48 (2006.01) A61K 31/506 (2006.01) A61K 31/70 (2006.01) A61K 31/7034 (2006.01) A61K 31/7042 (2006.01) A61K 31/7048 (2006.01) A61K 31/7056 (2006.01) A61P 1/14 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 9/12 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMBINATION TREATMENT OF SGLT2 INHIBITORS AND DOPAMINE AGONISTS FOR PREVENTING METABOLIC DISORDERS IN EQUINE ANIMALS**
[54] **POLYTHERAPIE AVEC DES INHIBITEURS DE SGLT2 ET DES AGONISTES DE LA DOPAMINE UTILISEE POUR LA PREVENTION DES TROUBLES METABOLIQUES CHEZ DES EQUIDES**
[72] REICHE, DANIA BIRTE, DE
[72] RAHMEL, DANIELA, DE
[73] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[85] 2017-01-25
[86] 2015-09-22 (PCT/EP2015/071637)
[87] (WO2016/046150)
[30] EP (14186479.3) 2014-09-25

[11] **2,957,316**
[13] C

[51] **Int.Cl. A61K 47/64 (2017.01) A61P 7/02 (2006.01)**
[25] EN
[54] **THERAPEUTIC APAC MOLECULE COMPRISING HEPARIN CONJUGATED TO A PLASMA PROTEIN**
[54] **MOLECULE APAC THERAPEUTIQUE CONJUGUEE A UNE PROTEINE PLASMATIQUE**
[72] LASSILA, RIITTA, FI
[73] APLAGON OY, FI
[85] 2017-02-03
[86] 2015-08-24 (PCT/EP2015/069327)
[87] (WO2016/030316)
[30] GB (1415062.7) 2014-08-26
[30] GB (1510637.0) 2015-06-17

[11] **2,958,297**
[13] C

[51] **Int.Cl. H02G 3/04 (2006.01)**
[25] EN
[54] **WATERFALL-TYPE CABLE ROUTER**
[54] **ROUTEUR DE CABLES EN CASCADE**
[72] KELLERMAN, DALLAS, US
[73] CABLOFIL, INC., US
[85] 2017-02-16
[86] 2015-06-29 (PCT/US2015/038327)
[87] (WO2015/200910)
[30] US (62/017,904) 2014-06-27
[30] US (62/031,473) 2014-07-31

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[11] **2,958,475**
[13] C

[51] **Int.Cl. A61K 51/04 (2006.01)**
[25] EN
[54] **MONO-, DI- OR OLIGOSACCHARIDE USED AS METAL INHIBITORS IN THE PREPARATION OF RADIOACTIVE METAL-CHELATE-FUNCTIONALIZED TARGET AGENTS**
[54] **MONO-, DI- OU OLIGOSIDE UTILISE COMME INHIBITEURS METALLIQUES DANS LA PREPARATION D'AGENTS CIBLES FONCTIONNALISES METAL-CHELATE**
[72] WOUTERS, LUDOVIC, BE
[72] KAISIN, GEOFFROY, BE
[72] LUXEN, ANDRE, BE
[72] LEONARD, MARC, BE
[72] VOCCIA, SAMUEL, BE
[73] TELIX INNOVATIONS S.A., BE
[85] 2017-02-16
[86] 2015-07-28 (PCT/EP2015/067213)
[87] (WO2016/030104)
[30] BE (2014/0653) 2014-08-29

[11] **2,959,016**
[13] C

[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/14 (2006.01)**
[25] EN
[54] **CARBON CAPTURE SOLVENTS HAVING ALCOHOLS AND AMINES AND METHODS FOR USING SUCH SOLVENTS**
[54] **SOLVANTS DE CAPTURE DE CARBONE CONTENANT DES ALCOOLS ET DES AMINES, ET PROCEDES POUR UTILISER LESDITS SOLVANTS**
[72] BUMB, PRATEEK, GB
[73] CARBON CLEAN SOLUTIONS LIMITED, GB
[85] 2017-02-22
[86] 2015-08-21 (PCT/IB2015/001855)
[87] (WO2016/027164)
[30] US (62/040,911) 2014-08-22

[11] **2,959,372**
[13] C

[51] **Int.Cl. B22F 10/30 (2021.01) B33Y 30/00 (2015.01) B33Y 40/00 (2020.01) B22F 10/28 (2021.01) B22F 12/30 (2021.01) B22F 12/41 (2021.01) B29C 64/153 (2017.01) B29C 64/268 (2017.01)**
[25] EN
[54] **APPLICATIONS, METHODS AND SYSTEMS FOR MATERIALS PROCESSING WITH VISIBLE RAMAN LASER**
[54] **APPLICATIONS, PROCEDES ET SYSTEMES POUR LE TRAITEMENT DE MATERIAUX PAR LASER RAMAN EN LUMIERE VISIBLE**
[72] ZEDIKER, MARK S., US
[73] NUBURU, INC., US
[85] 2017-02-24
[86] 2015-08-27 (PCT/US2015/047226)
[87] (WO2016/033343)
[30] US (62/042,785) 2014-08-27
[30] US (62/193,047) 2015-07-15

[11] **2,959,443**
[13] C

[51] **Int.Cl. F04C 28/18 (2006.01) F04C 2/107 (2006.01)**
[25] EN
[54] **ECCENTRIC SCREW PUMP**
[54] **POMPE A VIS SANS FIN EXCENTRIQUE**
[72] STUMPF, OLIVER, DE
[72] DICKS, NORMAN, DE
[72] HARKING, JULIAN, DE
[73] SEEPEX GMBH, DE
[85] 2017-02-27
[86] 2015-07-30 (PCT/EP2015/067568)
[87] (WO2016/034341)
[30] DE (10 2014 112 552.5) 2014-09-01

[11] **2,960,001**
[13] C

[51] **Int.Cl. G06Q 50/06 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR OPTIMIZING ENERGY USAGE USING ENERGY DISAGGREGATION DATA AND TIME OF USE INFORMATION**
[54] **SYSTEMES ET PROCEDES D'OPTIMISATION D'UTILISATION D'ENERGIE AU MOYEN DE DONNEES DE DESAGREGATION D'ENERGIE ET D'INFORMATIONS DE TEMPS D'UTILISATION**
[72] GUPTA, ABHAY, US
[72] GARUD, VIVEK, US
[73] BIDGELY INC., US
[85] 2017-03-02
[86] 2015-09-03 (PCT/US2015/048438)
[87] (WO2016/037013)
[30] US (62/045,679) 2014-09-04

[11] **2,960,366**
[13] C

[51] **Int.Cl. G10D 9/035 (2020.01)**
[25] FR
[54] **COMPOSITE REED**
[54] **ANCHE COMPOSITE**
[72] VAN DOREN, BERNARD, FR
[73] VARLEPIC PARTICIPATIONS, FR
[85] 2017-03-06
[86] 2015-09-15 (PCT/FR2015/052473)
[87] (WO2016/042259)
[30] FR (14 58740) 2014-09-16

[11] **2,960,454**
[13] C

[51] **Int.Cl. H01M 8/02 (2016.01) C08G 59/20 (2006.01) C08G 59/68 (2006.01) C08K 3/04 (2006.01) C08L 63/00 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **FUEL CELL SEPARATOR**
[54] **SEPARATEUR DE PILE A COMBUSTIBLE**
[72] TANNO, FUMIO, JP
[73] NISSHINBO CHEMICAL INC., JP
[85] 2017-03-07
[86] 2015-08-06 (PCT/JP2015/072369)
[87] (WO2016/039052)
[30] JP (2014-182279) 2014-09-08

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[11] **2,961,559**
[13] C

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 5/00 (2016.01) A23L 7/10 (2016.01) A23L 11/00 (2021.01) A23L 19/00 (2016.01) A23L 27/60 (2016.01) A23L 29/206 (2016.01) A23L 29/212 (2016.01)**

[25] EN

[54] **OIL-IN-WATER EMULSION CONTAINING FIRST FLOUR AND SECOND FLOUR HIGH IN AMYLOPECTIN**

[54] **EMULSION HUILE-DANS-EAU CONTENANT UNE PREMIERE FARINE ET UNE DEUXIEME FARINE A TENEUR ELEVEE EN AMYLOPECTINE**

[72] BENJAMIN, MIA CLAIRE, NL
[72] BIALEK, JADWIGA MALGORZATA, NL
[72] KO, MELIANA, NL
[72] ROBERT, VREEKER, NL
[73] UNILEVER IP HOLDINGS B.V., NL
[85] 2017-03-16
[86] 2015-09-08 (PCT/EP2015/070482)
[87] (WO2016/050458)
[30] EP (EP14187058.4) 2014-09-30

[11] **2,962,715**
[13] C

[51] **Int.Cl. B65B 25/04 (2006.01) B65B 5/10 (2006.01)**

[25] EN

[54] **IMPROVED APPARATUS FOR DOSING AND PACKAGING AGRICULTURAL PRODUCTS**

[54] **APPAREIL AMELIORE PERMETTANT DE DOSER ET D'EMBALLER DES PRODUITS AGRICOLES**

[72] BENEDETTI, LUCA, IT
[73] UNITEC SPA, IT
[85] 2017-03-27
[86] 2015-10-13 (PCT/IB2015/057830)
[87] (WO2016/063174)
[30] IT (PN2014A000054) 2014-10-23

[11] **2,963,214**
[13] C

[51] **Int.Cl. C01B 32/00 (2017.01) H01M 4/136 (2010.01) C01B 32/15 (2017.01) C01B 32/158 (2017.01) C01B 32/182 (2017.01) B29C 48/16 (2019.01) C01B 17/00 (2006.01) C08J 3/22 (2006.01) C08K 9/00 (2006.01) F41H 1/02 (2006.01)**

[25] FR

[54] **PRODUCTION OF A MASTER BATCH BASED ON SULPHUR AND CARBONACEOUS NANOFILLERS, THE MASTER BATCH PRODUCED, AND USES THEREOF**

[54] **PREPARATION D'UN MELANGE-MAITRE A BASE DE SOUFRE ET DE NANOCARGES CARBONEES, LE MELANGE-MAITRE OBTENU ET SES UTILISATIONS**

[72] KORZHENKO, ALEXANDER, FR
[72] VINCEDEAU, CHRISTOPHE, FR
[72] AUBERT, THIERRY, FR
[73] ARKEMA FRANCE, FR
[85] 2017-03-30
[86] 2015-10-27 (PCT/FR2015/052887)
[87] (WO2016/066944)
[30] FR (1460299) 2014-10-27
[30] FR (1462297) 2014-12-12

[11] **2,963,581**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **CRYSTAL FORM OF BISULFATE OF JAK INHIBITOR AND PREPARATION METHOD THEREFOR**

[54] **FORME CRISTALLINE DE BISULFATE D'INHIBITEUR DE JAK ET SON PROCEDE DE PREPARATION**

[72] SUN, PIAOYANG, CN
[72] WU, GUAILI, CN
[72] GAO, XIAOHUI, CN
[72] CHEN, YONGJIANG, CN
[72] SHEN, LINGJIA, CN
[73] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[85] 2017-04-04
[86] 2015-09-09 (PCT/CN2015/089223)
[87] (WO2016/054959)
[30] CN (201410529863.8) 2014-10-09

[11] **2,963,889**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61M 3/00 (2006.01) A61M 5/178 (2006.01) A61M 5/315 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **DEVICE FOR SYNCHRONIZED INJECTION AND ASPIRATION**

[54] **DISPOSITIF POUR INJECTION ET ASPIRATION SYNCHRONISEES**

[72] BRANDEIS, ZEEV, IL
[73] V.V.T. MED LTD., IL
[85] 2017-04-06
[86] 2014-10-01 (PCT/IL2014/050864)
[87] (WO2015/052704)
[30] US (61/890,270) 2013-10-13

[11] **2,964,485**
[13] C

[51] **Int.Cl. G08B 13/00 (2006.01) G08B 13/196 (2006.01)**

[25] EN

[54] **DISTRIBUTED SECURITY SYSTEM OVER MULTIPLE SITES**

[54] **SYSTEME DE SECURITE REPARTI SUR DE MULTIPLES SITES**

[72] CHIANG, AVERY W., CA
[72] GOLDENBERG, TOMER, CA
[72] ADAM, MATTHEW J., CA
[72] GRIEMAN, JONATHAN E.B., CA
[72] MARLATT, SHAUN P., CA
[73] AVIGILON CORPORATION, CA
[85] 2017-04-12
[86] 2015-10-15 (PCT/US2015/055822)
[87] (WO2016/061407)
[30] US (62/064,368) 2014-10-15

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[11] **2,965,480**
[13] C

[51] **Int.Cl. C07C 67/48 (2006.01) C07C 67/39 (2006.01) C07C 69/54 (2006.01)**
[25] EN
[54] **PROCESS FOR IN SITU WATER REMOVAL FROM AN OXIDATIVE ESTERIFICATION REACTION USING A COUPLED REACTOR-DISTILLATION SYSTEM**
[54] **PROCEDE D'ELIMINATION IN SITU DE L'EAU D'UNE REACTION D'ESTERIFICATION OXYDATIVE FAISANT APPEL A UN SYSTEME REACTEUR COUPLE A UNE DISTILLATION**
[72] KUVADIA, ZUBIN B., US
[72] LIMBACH, KIRK W., US
[72] KRAPTCHEV, DMITRI A., US
[72] SILVANO, MARK A., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[85] 2017-04-21
[86] 2015-10-02 (PCT/US2015/053678)
[87] (WO2016/069200)
[30] US (62/073,321) 2014-10-31

[11] **2,968,256**
[13] C

[51] **Int.Cl. C22B 3/04 (2006.01) C22B 3/02 (2006.01) C22B 11/00 (2006.01)**
[25] EN
[54] **ACTIVATION SYSTEM AND METHOD FOR ENHANCING METAL RECOVERY DURING ATMOSPHERIC LEACHING OF METAL SULFIDES**
[54] **SYSTEME D'ACTIVATION ET PROCEDE DESTINES A AMELIORER LA RECUPERATION DE METAUX PENDANT UNE LIXIVIATION ATMOSPHERIQUE DE SULFURES METALLIQUES**
[72] CHAIKO, DAVID J., US
[72] BACZEK, FRANK, US
[72] ROCKS, SARA (SALLY), US
[72] EYZAGUIRRE, CARLOS, US
[73] FLSMIDTH A/S, DK
[85] 2017-05-17
[86] 2015-11-20 (PCT/US2015/062000)
[87] (WO2016/081908)
[30] US (62/082,293) 2014-11-20

[11] **2,968,798**
[13] C

[51] **Int.Cl. F24F 11/84 (2018.01) F24F 1/26 (2011.01) F24F 1/0358 (2019.01) F24F 3/153 (2006.01)**
[25] EN
[54] **HVAC SYSTEMS HAVING IMPROVED FOUR-WAY VALVE REHEAT CONTROL**
[54] **SYSTEMES CVCA COMPORTANT UNE COMMANDE DE RECHAUFFAGE A VANNE A QUATRE VOIES AMELIOREE**
[72] ALFORD, MALCOLM LLOYD, US
[73] LENNOX INDUSTRIES INC., US
[86] (2968798)
[87] (2968798)
[22] 2017-05-30
[30] US (15/197,735) 2016-06-29

[11] **2,970,855**
[13] C

[51] **Int.Cl. G01C 22/00 (2006.01) G01C 21/00 (2006.01)**
[25] EN
[54] **LOCALISING PORTABLE APPARATUS**
[54] **LOCALISATION D'UN APPAREIL PORTABLE**
[72] CHURCHILL, WINSTON SAMUEL, GB
[72] NEWMAN, PAUL MICHAEL, GB
[72] LINEGAR, CHRISTOPHER JAMES, GB
[73] THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD, GB
[85] 2017-06-14
[86] 2015-12-04 (PCT/GB2015/053723)
[87] (WO2016/097690)
[30] GB (1422262.4) 2014-12-15

[11] **2,971,937**
[13] C

[51] **Int.Cl. B01D 65/10 (2006.01) B01D 65/02 (2006.01) C11D 3/386 (2006.01)**
[25] FR
[54] **METHOD FOR IDENTIFYING THE TYPE OF CLOGGING IN A MEMBRANE FILTRATION APPARATUS**
[54] **PROCEDE D'IDENTIFICATION DE LA NATURE DE COLMATAGES PRESENTS DANS UNE INSTALLATION DE FILTRATION MEMBRANAIRE**
[72] BLACKMAN, GORDON, BE
[72] FASTREZ, SEBASTIEN, BE
[73] REALCO S.A., BE
[85] 2017-06-22
[86] 2015-12-29 (PCT/EP2015/081314)
[87] (WO2016/107855)
[30] BE (BE2014/5166) 2014-12-31
[30] BE (BE2015/5200) 2015-03-31

[11] **2,972,168**
[13] C

[51] **Int.Cl. C04B 35/80 (2006.01) F01D 5/28 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A REFRACTORY PART MADE OF COMPOSITE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UNE PIECE REFRACTAIRE EN MATERIAU COMPOSITE**
[72] PODGORSKI, MICHAEL, FR
[72] DAMBRINE, BRUNO JACQUES GERARD, FR
[72] MOLLIEUX, LUDOVIC EDMOND CAMILLE, FR
[72] BILLOTTE CABRE, CATHERINE, CA
[72] RUIZ, EDU, CA
[72] TURENNE, SYLVAIN, CA
[73] SAFRAN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-06-23
[86] 2015-12-18 (PCT/FR2015/053618)
[87] (WO2016/102837)
[30] FR (1463281) 2014-12-23

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[11] **2,972,172**
[13] C

[51] **Int.Cl. C04B 35/80 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING PART MADE OF COMPOSITE MATERIAL**
[54] **PROCEDE DE FABRICATION D'UNE PIECE EN MATERIAU COMPOSITE**
[72] PODGORSKI, MICHAEL, FR
[72] DAMBRINE, BRUNO JACQUES GERARD, FR
[72] MOLLIEUX, LUDOVIC EDMOND CAMILLE, FR
[72] BILLOTTE CABRE, CATHERINE, CA
[72] RUIZ, EDU, CA
[72] TURENNE, SYLVAIN, CA
[73] SAFRAN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-06-23
[86] 2015-12-18 (PCT/FR2015/053626)
[87] (WO2016/102842)
[30] FR (1463284) 2014-12-23

[11] **2,972,721**
[13] C

[51] **Int.Cl. G08B 21/00 (2006.01) G08B 25/08 (2006.01)**
[25] EN
[54] **DIGITAL FINGERPRINT TRACKING**
[54] **SUIVI D'EMPREINTES DIGITALES NUMERIQUES**
[72] HUTZ, DAVID JAMES, US
[73] ALARM.COM INCORPORATED, US
[85] 2017-06-28
[86] 2015-12-30 (PCT/US2015/068089)
[87] (WO2016/109683)
[30] US (62/098,282) 2014-12-30

[11] **2,972,852**
[13] C

[51] **Int.Cl. F16F 7/10 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN AND RELATING TO ELECTROMECHANICAL ACTUATORS**
[54] **AMELIORATIONS A DES ACTIONNEURS ELECTROMECHANIQUES ET ASSOCIEES A CES DERNIERS**
[72] SHARKH, SULEIMAN MAHMOUD, GB
[72] DALEY, STEPHEN, GB
[72] HUANG, HUI, GB
[73] BAE SYSTEMS PLC, GB
[85] 2017-06-30
[86] 2016-01-05 (PCT/GB2016/050007)
[87] (WO2016/110683)
[30] GB (1500201.7) 2015-01-07
[30] EP (15150348.9) 2015-01-07

[11] **2,972,917**
[13] C

[51] **Int.Cl. H04W 48/18 (2009.01) H04W 16/14 (2009.01) H04W 48/08 (2009.01)**
[25] EN
[54] **COMMUNICATION IN UNLICENSED SPECTRUM**
[54] **COMMUNICATION DANS UN SPECTRE SANS LICENCE**
[72] SUZUKI, TAKASHI, JP
[72] VUTUKURI, ESWAR, GB
[72] CAI, ZHIJUN, US
[72] KREUZER, WERNER, DE
[73] BLACKBERRY LIMITED, CA
[85] 2017-06-30
[86] 2016-01-27 (PCT/US2016/015185)
[87] (WO2016/123247)
[30] US (14/609,019) 2015-01-29

[11] **2,973,280**
[13] C

[51] **Int.Cl. A01K 29/00 (2006.01) A01K 1/00 (2006.01) A01K 31/22 (2006.01)**
[25] EN
[54] **A METHOD OF LIVESTOCK REARING AND A LIVESTOCK SHED**
[54] **PROCEDE D'ELEVAGE D'ANIMAUX ET HANGAR POUR ANIMAUX D'ELEVAGE**
[72] THEOBALD, JAMES, GB
[73] GREENGAGE LIGHTING LTD, GB
[85] 2017-07-07
[86] 2015-01-06 (PCT/EP2015/050080)
[87] (WO2015/104250)
[30] GB (1400288.5) 2014-01-08

[11] **2,973,431**
[13] C

[51] **Int.Cl. A23K 50/75 (2016.01) A23K 20/10 (2016.01) A23K 20/174 (2016.01) A23K 20/179 (2016.01) A23K 20/20 (2016.01)**
[25] EN
[54] **COMBINATION OF 25-HYDROXYVITAMIN D AND ANTI-INFLAMMITORIES FOR SUSTAINED PLASMA 17-.BETA. ESTRADIOL LEVELS**
[54] **COMBINAISON DE 25-HYDROXYVITAMINE D ET D'ANTI-INFLAMMATOIRES POUR OBTENIR DES TENEURS PLASMATIQUES PROLONGEES EN 17-.BETA. ESTRADIOL**
[72] CHEN, SHUEN EI, CH
[72] CHUNG, THAU KIONG, CH
[73] DSM IP ASSETS B.V., NL
[85] 2017-07-10
[86] 2016-01-15 (PCT/EP2016/050755)
[87] (WO2016/113385)
[30] US (62/103769) 2015-01-15
[30] EP (15166937.1) 2015-05-08

[11] **2,973,872**
[13] C

[51] **Int.Cl. F16K 31/02 (2006.01) E03C 1/02 (2006.01) E03C 1/05 (2006.01) F16K 31/04 (2006.01) F16K 31/05 (2006.01)**
[25] EN
[54] **ELECTRONIC PLUMBING FIXTURE FITTING WITH ELECTRONIC VALVE INCLUDING PISTON AND SEAT**
[54] **RACCORD D'APPAREIL DE PLOMBERIE ELECTRONIQUE COMPORTANT UNE SOUPEPE ELECTRONIQUE COMPRENANT UN PISTON ET UN SIEGE**
[72] LANCE, MATTHEW J., US
[72] MOGHE, SANJEEV S., US
[73] MOEN INCORPORATED, US
[85] 2017-07-13
[86] 2016-01-19 (PCT/US2016/013962)
[87] (WO2016/118529)
[30] US (62/105,174) 2015-01-19
[30] US (62/105,176) 2015-01-19
[30] US (62/105,175) 2015-01-19

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[11] **2,974,611**
[13] C

[51] **Int.Cl. A61K 47/61 (2017.01) A61P 19/02 (2006.01) A61P 27/12 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **CONJUGATES OF HYALURONAN HEMIESTERS WITH PHARMACEUTICALLY ACTIVE SUBSTANCES**

[54] **CONJUGUES D'HEMIESTER D'ACIDE HYALURONIQUE COMPORTANT DES SUBSTANCES ACTIVES SUR LE PLAN PHARMACEUTIQUE**

[72] LINDQVIST, BENGT, SE
[72] RINGOM, RUNE, SE
[73] SYNARTRO AB, SE
[85] 2017-07-21
[86] 2015-02-21 (PCT/IB2015/051331)
[87] (WO2015/128787)
[30] US (61/945,491) 2014-02-27

[11] **2,975,845**
[13] C

[51] **Int.Cl. F27D 21/00 (2006.01) C21D 11/00 (2006.01) F27B 9/40 (2006.01) F27D 3/00 (2006.01) F27D 19/00 (2006.01) G01B 15/02 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR DETERMINING THE LOSS ON IGNITION OF AT LEAST PART OF AN IRON AND STEEL PRODUCT**

[54] **DISPOSITIF ET PROCEDE DE PILOTAGE D'UN FOUR A PARTIR DE MESURES DE LA CALAMINE FORMEE**

[72] CHAN, YUEN YEE, FR
[72] MAGALHAES, JEAN-LUC, FR
[73] FIVES STEIN, FR
[85] 2017-08-03
[86] 2016-02-04 (PCT/IB2016/050567)
[87] (WO2016/125096)
[30] FR (15 50878) 2015-02-04

[11] **2,978,356**
[13] C

[51] **Int.Cl. B65G 59/02 (2006.01) B25J 9/00 (2006.01) B25J 15/06 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR REPEATEDLY SEPARATING AND DISPLACING A TOPMOST BAG OF A STACK OF BAGS**

[54] **APPAREIL ET PROCEDE DE SEPARATION ET DE DEPLACEMENT REPETES D'UN SAC SUPERIEUR D'UNE PILE DE SACS**

[72] ALBERT, ANDRE, CA
[73] PREMIER TECH TECHNOLOGIES LTEE, CA
[85] 2017-08-31
[86] 2016-03-02 (PCT/CA2016/050219)
[87] (WO2016/141462)
[30] US (62/129,089) 2015-03-06

[11] **2,975,649**
[13] C

[51] **Int.Cl. B29D 35/12 (2010.01) A43B 17/00 (2006.01) A43B 17/14 (2006.01) A43D 1/02 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUSES FOR MAKING CUSTOM ORTHOTICS, INSOLES AND OTHER FOOTWEAR INSERTS**

[54] **PROCEDES ET APPAREILS DESTINES A REALISER DES ORTHESES, DES SEMELLES INTERIEURES ET D'AUTRES INSERTS D'ARTICLES CHAUSSANTS PERSONNALISES**

[72] GOOCH, MATTHEW WARREN, US
[72] MCCOY, BRENT, US
[72] WAKELAND, DAN, US
[73] SUPERFEET WORLDWIDE, INC., US
[85] 2017-03-09
[86] 2015-09-01 (PCT/US2015/047981)
[87] (WO2016/040058)
[30] US (14/485,552) 2014-09-12

[11] **2,977,171**
[13] C

[51] **Int.Cl. C07F 5/02 (2006.01)**

[25] EN

[54] **THIENOTHIOPHENE BORON (DONOR-ACCEPTOR) BASED MATERIALS FOR ORGANIC LIGHT EMITTING DIODES**

[54] **MATERIAUX A BASE DE THIENOTHIOPHENE ET DE DITHIENOTHIOPHENE - BORE (DONNEUR - ACCEPTEUR) POUR DIODES ELECTROLUMINESCENTES ORGANIQUES**

[72] OZTURK, TURAN, TR
[72] TEKIN, EMINE, TR
[72] PIRAVADILI MUCUR, SELIN, TR
[72] GOREN, AHMET CEYLAN, TR
[72] TURKOGLU, GULSEN, TR
[72] CINAR, MEHMET EMIN, TR
[72] BUYRUK, ALI, TR
[73] TUBITAK, TR
[85] 2017-08-18
[86] 2015-02-20 (PCT/IB2015/051306)
[87] (WO2016/132180)

[11] **2,979,989**
[13] C

[51] **Int.Cl. A47L 15/50 (2006.01) A47B 88/60 (2017.01)**

[25] EN

[54] **MECHANISM FOR UNLOCKING AN ELEVATED LOWER RACK OF A DISHWASHER**

[54] **MECANISME DE DEVERROUILLAGE D'UN PANIER INFERIEUR D'UN LAVE-VAISSELLE VERROUILLE A UNE POSITION SUPERIEURE**

[72] ROOS, MATTEUS, SE
[72] KALLBERG, PER, SE
[72] JOSEFSSON, ERIK, SE
[73] ELECTROLUX APPLIANCES AKTIEBOLAG, SE
[85] 2017-09-18
[86] 2015-05-22 (PCT/EP2015/061427)
[87] (WO2016/188554)

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[11] **2,981,545**
[13] C

[51] **Int.Cl. F03D 13/20 (2016.01) E04H 12/00 (2006.01) F16B 5/02 (2006.01)**

[25] FR

[54] **WIND TURBINE TOWER SECTION, WIND TURBINE TOWER AND ASSEMBLY METHOD**

[54] **TRONCON DE MAT D'EOLIENNE, MAT D'EOLIENNE ET PROCEDE D'ASSEMBLAGE**

[72] GREMLING, MICHAEL, BE

[73] ARCELORMITTAL, LU

[85] 2017-09-29

[86] 2015-04-02 (PCT/IB2015/052440)

[87] (WO2016/156925)

[11] **2,983,291**
[13] C

[51] **Int.Cl. A23J 1/14 (2006.01) A23J 1/00 (2006.01) A23J 3/14 (2006.01) A61K 36/00 (2006.01)**

[25] EN

[54] **PLANT BASED PROTEIN EXTRACTION METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME D'EXTRACTION DE PROTEINES D'ORIGINE VEGETALE**

[72] SPINELLI, MICHAEL, US

[72] SINGH, KRISAN, US

[72] BRAND, REINHOLD, US

[73] TATE & LYLE SOLUTIONS USA LLC, US

[85] 2017-10-18

[86] 2016-04-22 (PCT/US2016/028752)

[87] (WO2016/172418)

[30] US (14/694,341) 2015-04-23

[30] US (14/997,744) 2016-01-18

[30] US (15/014,882) 2016-02-03

[11] **2,983,661**
[13] C

[51] **Int.Cl. B60J 10/74 (2016.01) B60J 10/79 (2016.01) B60J 10/88 (2016.01)**

[25] FR

[54] **RUN SEAL FOR VEHICLE WINDOW AND SEALING MODULE INCORPORATING MEANS FOR GUIDING THE WINDOW IN THE SEAL AND AN ELEMENT OF THE DOOR FRAME**

[54] **JOINT DE COULISSE POUR VITRAGE DE VEHICULE ET MODULE D'ETANCHEITE INCORPORANT DES MOYENS DE GUIDAGE DU VITRAGE DANS LE JOINT ET UN ELEMENT DU CADRE DE PORTE**

[72] BLOTTIAU, OLIVIER, FR

[73] HUTCHINSON, FR

[85] 2017-10-23

[86] 2015-04-28 (PCT/FR2015/051147)

[87] (WO2016/174315)

[11] **2,984,012**
[13] C

[51] **Int.Cl. E04F 13/075 (2006.01) E04B 1/70 (2006.01) E04C 2/24 (2006.01)**

[25] EN

[54] **CONSTRUCTION SHEATHING AND METHODS OF MAKING AND USING SAME**

[54] **PROTECTEUR DE CONSTRUCTION ET METHODES DE FABRICATION ASSOCIEES**

[72] GRANT, THEODORE ALAN, US

[72] CAWSON, MATTHEW RICHARD, US

[72] KREPLE, CHRISTOPHER JOHN, US

[72] BUTKUS, ROBERT, US

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

[73] ATLAS ROOFING CORPORATION, US

[86] (2984012)

[87] (2984012)

[22] 2017-10-30

[30] US (15/424,646) 2017-02-03

[11] **2,984,582**
[13] C

[51] **Int.Cl. C12N 9/24 (2006.01) A61K 38/46 (2006.01) A61P 31/04 (2006.01) C12N 9/14 (2006.01) C12N 15/56 (2006.01) C12N 15/63 (2006.01) C12N 15/70 (2006.01) C12Q 1/14 (2006.01) C12Q 1/34 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **STAPHYLOCOCCUS LYSIN AND USE THEREOF**

[54] **STAPHYLOCOQUE LYASE ET SON UTILISATION**

[72] WEI, HONGPING, CN

[72] YANG, HANG, CN

[72] YU, JUNPING, CN

[73] PHAGELUX, INC., KY

[85] 2017-10-31

[86] 2016-04-12 (PCT/CN2016/079044)

[87] (WO2016/184274)

[30] CN (201510252947.6) 2015-05-18

[11] **2,986,834**
[13] C

[51] **Int.Cl. C07K 14/195 (2006.01) C12N 1/36 (2006.01) C12N 9/50 (2006.01)**

[25] EN

[54] **ATTENUATED PISCIRICKETTSIA SALMONIS BACTERIUM**

[54] **BACTERIE PISCIRICKETTSIA SALMONIS ATTENUEE**

[72] BORDEVIK, MARIANNE, NO

[72] NYGAARD, ANJA, NO

[72] TUNHEIM, SIV HAUGEN, NO

[72] FROYSTAD-SAUGEN, MARIANNE, NO

[72] KLEVAN, ARE, NO

[72] MAIRA, CLAUDIA VARGAS, NO

[73] PHARMAQ AS, NO

[85] 2017-11-22

[86] 2016-05-25 (PCT/EP2016/061862)

[87] (WO2016/189067)

[30] GB (1509004.6) 2015-05-26

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[11] **2,990,509**
[13] C

[51] **Int.Cl. C09K 8/08 (2006.01) C09K 8/10 (2006.01) E21B 7/14 (2006.01) E21B 43/24 (2006.01)**

[25] EN

[54] **MODIFIED NATURAL POLYMERS AS BITUMEN ENCAPSULANTS**

[54] **POLYMERES NATURELS MODIFIES UTILISES COMME AGENTS D'ENCAPSULATION DU BITUME**

[72] MIRZAEI, AMIR, CA
[72] RAD, HIRBOD, CA
[73] UNIQUEM INC., CA
[85] 2017-12-21
[86] 2015-07-23 (PCT/CA2015/050691)
[87] (WO2017/011894)

[11] **2,993,822**
[13] C

[51] **Int.Cl. C10G 70/04 (2006.01)**

[25] EN

[54] **HEAVY AMINE NEUTRALIZING AGENTS FOR OLEFIN OR STYRENE PRODUCTION**

[54] **AGENTS DE NEUTRALISATION DE TYPE AMINES LOURDES POUR LA PRODUCTION D'OLEFINES OU DE STYRENE**

[72] ARNST, THEODORE, US
[72] TOMAR, NEETU, IN
[73] ECOLAB USA INC., US
[85] 2018-01-25
[86] 2016-07-28 (PCT/US2016/044373)
[87] (WO2017/019825)
[30] US (62/198,497) 2015-07-29

[11] **2,996,123**
[13] C

[51] **Int.Cl. F16H 23/00 (2006.01) F16H 49/00 (2006.01)**

[25] EN

[54] **SELF-ALIGNING VIRTUAL ELLIPTICAL DRIVE**

[54] **ENTRAINEMENT ELLIPTIQUE VIRTUEL A ALIGNEMENT AUTOMATIQUE**

[72] ATMUR, ROBERT J., US
[72] SARGENT, WILLIAM PATRICK, US
[73] THE BOEING COMPANY, US
[86] (2996123)
[87] (2996123)
[22] 2018-02-22
[30] US (15/585544) 2017-05-03

[11] **2,993,331**
[13] C

[51] **Int.Cl. C22B 1/08 (2006.01) C01F 17/00 (2020.01) C01G 23/00 (2006.01) C01G 25/00 (2006.01) C01G 27/00 (2006.01) C01G 33/00 (2006.01) C01G 35/00 (2006.01) C22B 1/14 (2006.01) C22B 3/10 (2006.01) C22B 34/12 (2006.01) C22B 34/14 (2006.01) C22B 34/24 (2006.01) C22B 59/00 (2006.01)**

[25] EN

[54] **RECOVERY OF RARE EARTHS FROM CONCENTRATES CONTAINING FLUORINE**

[54] **RECUPERATION DE TERRES RARES A PARTIR DE CONCENTRES CONTENANT DU FLUOR**

[72] SUN, KANG, US
[72] BAUGHMAN, DAVID R., US
[72] HAZEN, WAYNE W., US
[73] HAZEN RESEARCH, INC., US
[85] 2018-01-22
[86] 2016-07-21 (PCT/US2016/043270)
[87] (WO2017/015435)
[30] US (62/195,154) 2015-07-21

[11] **2,995,068**
[13] C

[51] **Int.Cl. B29C 70/38 (2006.01)**

[25] EN

[54] **PROCESS CONTROL OF A COMPOSITE FABRICATION PROCESS**

[54] **PROCESSUS DE CONTROLE D'UN PROCEDE DE FABRICATION DE COMPOSITE**

[72] MARCOE, JEFFERY LEE, US
[72] PAN, JAN WEI, US
[73] THE BOEING COMPANY, US
[86] (2995068)
[87] (2995068)
[22] 2018-02-13
[30] US (15/581,432) 2017-04-28

[11] **2,996,474**
[13] C

[51] **Int.Cl. B22D 25/00 (2006.01) C22C 1/08 (2006.01) C22C 21/00 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCTION OF COMPONENT FROM METAL FOAM, COMPONENT PRODUCED BY SAID METHOD AND MOULD FOR THE REALIZATION OF SAID METHOD**

[54] **PROCEDE DE PRODUCTION D'UN ELEMENT A PARTIR DE MOUSSE METALLIQUE, ELEMENT PRODUIT PAR LEDIT PROCEDE ET MOULE POUR LA REALISATION DUDIT PROCEDE**

[72] SIMANCIK, FRANTISEK, SK
[72] PAVLIK, L'UBOMIR, SK
[72] SPANIELKA, JAN, SK
[72] TOBOLKA, PETER, SK
[73] USTAV MATERIALOV A MECHANIKY STROJOV SAV, SK
[85] 2018-02-23
[86] 2015-12-15 (PCT/IB2015/059639)
[87] (WO2017/037522)
[30] SK (PP50046-2015) 2015-08-28
[30] SK (PP50082-2015) 2015-12-14

[11] **2,995,959**
[13] C

[51] **Int.Cl. H02G 11/00 (2006.01) H02G 3/04 (2006.01)**

[25] EN

[54] **APPARATUS FOR CONNECTING COMPONENTS**

[54] **APPAREIL DE RACCORDEMENT DE COMPOSANTES**

[72] GALETTI, RALPH, US
[72] LAZZARO, ANTHONY, US
[73] THE BOEING COMPANY, US
[86] (2995959)
[87] (2995959)
[22] 2018-02-20
[30] US (15/591,916) 2017-05-10

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[11] **2,996,770**
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL DRONE FOR USE IN LIVESTOCK MONITORING**
[54] **DRONE AGRICOLE DESTINE A ETRE UTILISE DANS LA SURVEILLANCE DU BETAIL**
[72] HORTON, CHRISTOPHER V., US
[72] VORPAHL, SAMUEL R., US
[73] DIGI-STAR, LLC, US
[85] 2018-02-27
[86] 2016-09-14 (PCT/US2016/051584)
[87] (WO2017/053135)
[30] US (14/864,222) 2015-09-24

[11] **2,996,939**
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01)**
[25] EN
[54] **EMBOLIC DEFLECTION DEVICE AND METHOD OF USE**
[54] **DISPOSITIF DE DEVIATION EMBOLIQUE ET PROCEDE D'UTILISATION**
[72] CARPENTER, JUDITH, US
[72] CERIER, JEFFREY, US
[72] FORTIER, RICHARD, US
[72] REZAC, DAVID, US
[72] CARPENTER, JEFFREY, US
[72] ROBINSON, TIMOTHY W., US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[86] (2996939)
[87] (2996939)
[22] 2010-01-08
[62] 2,749,385
[30] US (61/143,426) 2009-01-09

[11] **2,997,690**
[13] C

[51] **Int.Cl. C08K 3/26 (2006.01) B60R 21/2165 (2011.01) B29C 41/00 (2006.01) B29C 41/18 (2006.01) C08J 5/18 (2006.01) C08J 9/00 (2006.01) C08J 9/04 (2006.01) C08J 9/32 (2006.01) C08K 3/30 (2006.01) C08K 3/34 (2006.01) C08K 5/00 (2006.01) C08K 5/11 (2006.01) C08K 5/12 (2006.01) C08L 27/06 (2006.01)**
[25] EN
[54] **FLEXIBLE MOLDED SKIN**
[54] **PEAU MOULEE SOUPLE**
[72] BUSSELS, RAF, BE
[72] BOUWMAN, BEN, BE
[72] TREKELS, BENNY, BE
[72] BEMELMANS, STEFAN, BE
[73] MCPP INNOVATION LLC, JP
[73] MCPP NETHERLANDS B.V., NL
[85] 2018-03-06
[86] 2016-09-14 (PCT/EP2016/071698)
[87] (WO2017/046166)
[30] EP (15185072.4) 2015-09-14

[11] **2,998,229**
[13] C

[51] **Int.Cl. B64D 33/00 (2006.01) F01D 25/00 (2006.01) F02C 7/00 (2006.01) F16H 35/18 (2006.01)**
[25] EN
[54] **ENGINE TURNING MOTOR VIA PNEUMATIC OR HYDRAULIC MOTOR**
[54] **MOTEUR TOURNANT AU MOYEN D'UN MOTEUR PNEUMATIQUE OU HYDRAULIQUE**
[72] KARNOFSKI, KENT E., US
[72] JASKLOWSKI, CHRIS T., US
[72] JACKOWSKI, JASON J., US
[73] THE BOEING COMPANY, US
[86] (2998229)
[87] (2998229)
[22] 2018-03-15
[30] US (15/475890) 2017-03-31

[11] **2,998,291**
[13] C

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[25] EN
[54] **ACETOGENIN MOLECULES HAVING ANTIPLATELET AND/OR ANTITHROMBIC ACTIVITIES, AND METHODS AND COMPOSITIONS THEREOF**
[54] **MOLECULES D'ACETOGENINE PRESENTANT UNE ACTIVITE ANTITHROMBIQUE ET/OU UNE ACTIVITE D'INHIBITION DE L'AGREGATION PLAQUETTAIRE, PROCEDES ET COMPOSITIONS ASSOCIES**
[72] HERNANDEZ BRENES, CARMEN, MX
[72] GARCIA RIVAS, GERARDO DE JESUS, MX
[72] TORRE AMIONE, GUILLERMO, MX
[72] RODRIGUEZ SANCHEZ, DARIANA GRACIELA, MX
[73] INSTITUTO TECNOLOGICO Y DE ESTUDIOS SUPERIORES DE MONTERREY, MX
[85] 2018-03-09
[86] 2015-09-23 (PCT/IB2015/002021)
[87] (WO2017/051208)

[11] **2,998,460**
[13] C

[51] **Int.Cl. H04W 4/24 (2018.01) H04W 16/14 (2009.01) H04W 72/04 (2009.01) H04W 88/06 (2009.01) H04W 88/16 (2009.01) H04W 92/24 (2009.01)**
[25] EN
[54] **GATEWAY DEVICE, RADIO COMMUNICATION DEVICE, CHARGING CONTROL METHOD, DATA TRANSMISSION METHOD, AND NON-TRANSITORY COMPUTER READABLE MEDIUM**
[54] **DISPOSITIF DE PASSERELLE, DISPOSITIF DE RADIOCOMMUNICATION, METHODE DE COMMANDE CHARGE, METHODE DE TRANSMISSION DE DONNEES ET SUPPORT NON TRANSITOIRE LISIBLE PAR ORDINATEUR**
[72] TAMURA, TOSHIYUKI, JP
[73] NEC CORPORATION, JP
[85] 2018-03-12
[86] 2016-09-01 (PCT/JP2016/003998)
[87] (WO2017/047029)
[30] JP (2015-180484) 2015-09-14

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[11] **2,999,763**
[13] C

- [51] **Int.Cl. A61K 36/48 (2006.01) A61K 36/82 (2006.01)**
[25] EN
[54] **FLAVONOID COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DE FLAVONOÏDES ET PROCÉDES D'UTILISATION**
[72] RICHARDS, KURT, US
[73] BERKLEY, LLC, US
[85] 2018-03-22
[86] 2016-09-22 (PCT/US2016/053141)
[87] (WO2017/053583)
[30] US (62/222,667) 2015-09-23

[11] **3,000,178**
[13] C

- [51] **Int.Cl. G01N 33/68 (2006.01) B01D 15/26 (2006.01)**
[25] EN
[54] **AMYLOID BETA DETECTION BY MASS SPECTROMETRY**
[54] **DETECTION DE BÉTA-AMYLOÏDE PAR SPECTROMÉTRIE DE MASSE**
[72] TRAN, DIANA, US
[72] WEBER, DARREN, US
[72] CLARKE, NIGEL, US
[73] QUEST DIAGNOSTICS INVESTMENTS LLC, US
[85] 2018-03-27
[86] 2016-09-28 (PCT/US2016/054148)
[87] (WO2017/058895)
[30] US (62/234,027) 2015-09-28
[30] US (62/277,772) 2016-01-12

[11] **3,000,980**
[13] C

- [51] **Int.Cl. B01D 3/00 (2006.01) B01D 3/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DEGASSING OF SULFUR**
[54] **SYSTÈMES ET PROCÉDES POUR LE DÉGASAGE DE SOUFRE**
[72] FENDERSON, STEPHEN N., US
[72] WONG, VINCENT W., US
[73] FLUOR TECHNOLOGIES CORPORATION, US
[85] 2018-04-04
[86] 2015-10-05 (PCT/US2015/054015)
[87] (WO2017/061982)
[30] US (14/875,096) 2015-10-05

[11] **3,001,231**
[13] C

- [51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/395 (2006.01) A61P 1/16 (2006.01) A61P 31/14 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ANTIBODY AGAINST HEPATITIS B SURFACE ANTIGEN AND USE THEREOF**
[54] **ANTICORPS ANTI-ANTIGÈNE DE SURFACE D'HEPATITE B ET SON UTILISATION**
[72] LUO, WENXIN, CN
[72] ZHOU, BING, CN
[72] ZHANG, JUAN, CN
[72] YUAN, QUAN, CN
[72] ZHANG, TIANYING, CN
[72] ZHANG, JUN, CN
[72] XIA, NINGSHAO, CN
[73] XIAMEN UNIVERSITY, CN
[73] YANG SHENG TANG COMPANY, LTD., CN
[85] 2018-04-06
[86] 2016-10-09 (PCT/CN2016/101560)
[87] (WO2017/059813)
[30] CN (201510647977.7) 2015-10-09

[11] **3,001,740**
[13] C

- [51] **Int.Cl. G06F 3/04883 (2022.01) G06F 3/04817 (2022.01) G06F 9/445 (2018.01) G06V 40/12 (2022.01)**
[25] EN
[54] **OPERATION METHOD WITH FINGERPRINT RECOGNITION, APPARATUS, AND MOBILE TERMINAL**
[54] **PROCÉDE ET APPAREIL DE FONCTIONNEMENT UTILISANT UNE IDENTIFICATION D'EMPREINTE DIGITALE, ET TERMINAL MOBILE**
[72] CHEN, JIANJUN, CN
[72] RUSEK, FREDRIK, CN
[72] WANG, HONGJUN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2018-04-12
[86] 2015-10-13 (PCT/CN2015/091868)
[87] (WO2017/063146)

[11] **3,002,620**
[13] C

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[25] EN
[54] **INSULATED TRELLIS MAT**
[54] **NATTE EN TREILLIS ISOLE**
[72] BLACK, JOHN ALEXANDER, GB
[72] BLACK, ROBERT DAVID, GB
[73] OXFORD SAFETY COMPONENTS LIMITED, GB
[85] 2018-04-19
[86] 2016-11-04 (PCT/GB2016/053439)
[87] (WO2017/077323)
[30] GB (1519470.7) 2015-11-04

[11] **3,006,227**
[13] C

- [51] **Int.Cl. A61J 3/07 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR EJECTING AT LEAST ONE CAPSULE FROM A CAPSULE HOLDER**
[54] **DISPOSITIF ET PROCÉDE D'EJECTION D'AU MOINS UNE CAPSULE D'UN PORTE-CAPSULE**
[72] WURST, REINER, DE
[72] KUHNERT, TIMO, DE
[73] HARRO HOFLIGER VERPACKUNGSMASCHINEN GMBH, DE
[85] 2018-05-24
[86] 2015-11-26 (PCT/EP2015/002379)
[87] (WO2017/088894)

[11] **3,006,486**
[13] C

- [51] **Int.Cl. H01M 50/188 (2021.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **BATTERY SEALING DEVICE**
[54] **DISPOSITIF D'ÉTANCHEÏTE DE BATTERIE**
[72] LI, MUJIAN, CN
[72] GE, HUIMING, CN
[72] LYU, ZHENGZHONG, CN
[72] LIU, JINCHENG, CN
[73] RENATA AG, CH
[85] 2018-05-25
[86] 2016-12-23 (PCT/EP2016/082560)
[87] (WO2017/109172)
[30] CN (201521091982.6) 2015-12-25

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[13] C

[51] **Int.Cl. H01B 7/295 (2006.01)**
[25] EN
[54] **FIRE RESISTANT ELECTRIC CABLE**
[54] **CABLE ELECTRIQUE RESISTANT AU FEU**
[72] FOSS-PEDERSEN, GEIR, IT
[72] EDLAND, OYSTEIN, IT
[72] VAN DEN NIEUWENDIJK, YANNICK, IT
[73] PRYSMIAN S.P.A., IT
[85] 2018-06-07
[86] 2015-12-09 (PCT/EP2015/079081)
[87] (WO2017/097350)

[11] **3,008,898**
[13] C

[51] **Int.Cl. B29C 64/124 (2017.01) B33Y 10/00 (2015.01)**
[25] EN
[54] **METHOD FOR PRODUCING A THREE-DIMENSIONAL OBJECT**
[54] **PROCEDE DE FABRICATION D'UN OBJET TRIDIMENSIONNEL**
[72] STADLMANN, KLAUS, AT
[73] STADLMANN, KLAUS, AT
[85] 2018-06-18
[86] 2016-12-09 (PCT/AT2016/060120)
[87] (WO2017/100811)
[30] AT (A 51079/2015) 2015-12-17

[11] **3,010,359**
[13] C

[51] **Int.Cl. C08J 9/14 (2006.01)**
[25] EN
[54] **FOAMING OF POLYISOCYANATE/ACTIVE HYDROGEN-CONTAINING COMPOUND REACTION PRODUCT**
[54] **EXPANSION D'UN PRODUIT REACTIONNEL DE POLYISOCYANATE/COMPOSE A HYDROGENE ACTIF**
[72] WYSONG, ERNEST BYRON, US
[72] HITCHENS, BRUCE P., US
[73] THE CHEMOURS COMPANY FC, LLC, US
[85] 2018-06-28
[86] 2017-01-13 (PCT/US2017/013283)
[87] (WO2017/127289)
[30] US (62/281,991) 2016-01-22

[11] **3,012,709**
[13] C

[51] **Int.Cl. A61N 1/375 (2006.01) A61B 5/287 (2021.01) A61M 25/09 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **PACING GUIDEWIRE**
[54] **FIL-GUIDE DE STIMULATION**
[72] DANIELS, DAVID, US
[72] KUGLER, CHAD, US
[72] BRIDGEMAN, JOHN, US
[72] STRATTON, DEREK, US
[72] PETERSON, DEAN, US
[72] BRENIZER, JOSHUA, US
[73] TELEFLEX LIFE SCIENCES LIMITED, MT
[73] CARDIAC INTERVENTIONS AND AVIATION LLC, US
[85] 2018-07-25
[86] 2017-03-10 (PCT/US2017/021719)
[87] (WO2017/160610)
[30] US (62/310,044) 2016-03-18
[30] US (62/346,214) 2016-06-06
[30] US (62/378,258) 2016-08-23
[30] US (62/436,750) 2016-12-20

[11] **3,013,521**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **TRIFLUOROACETATE SALT OF A PYRROLO[3,2-D]PYRIMIDIN COMPOUND AS TLR7 AGONIST AND CRYSTALLINE FORM B THEREOF**
[54] **SEL DE TRIFLUOROACETATE D'UN COMPOSE [3,2-D]PYRROLO PYRIMIDINE COMME AGONISTE DE TLR7 ET FORME B CRISTALLINE CONNEXE**
[72] DING, ZHAOZHONG, CN
[72] SUN, FEI, CN
[72] HU, YINGHU, CN
[72] ZHOU, YILONG, CN
[72] WANG, ZHENG, CN
[72] ZHAO, RUI, CN
[72] YANG, LING, CN
[73] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2018-08-02
[86] 2017-02-04 (PCT/CN2017/072894)
[87] (WO2017/133687)
[30] CN (201610081899.3) 2016-02-05

[11] **3,014,658**
[13] C

[51] **Int.Cl. B60W 30/09 (2012.01) B60W 30/095 (2012.01) H04W 4/44 (2018.01) H04W 4/80 (2018.01) G08G 1/16 (2006.01)**
[25] EN
[54] **ACCIDENT CALCULUS**
[54] **CALCUL D'ACCIDENT**
[72] CHINTAKINDI, SUNIL, US
[72] MADIGAN, REGINA, US
[72] SLUSAR, MARK V., US
[72] GIBSON, TIMOTHY W., US
[73] ALLSTATE INSURANCE COMPANY, US
[85] 2018-08-14
[86] 2017-02-15 (PCT/US2017/017923)
[87] (WO2017/142917)
[30] US (62/295,300) 2016-02-15

[11] **3,015,151**
[13] C

[51] **Int.Cl. H04L 12/16 (2006.01)**
[25] FR
[54] **DYNAMIC FILTRATION METHOD FOR GROUP COMMUNICATION**
[54] **PROCEDE DE FILTRAGE DYNAMIQUE D'UNE COMMUNICATION DE GROUPE**
[72] ROLLAND, LAETITIA, FR
[73] STREAMWIDE, FR
[86] (3015151)
[87] (3015151)
[22] 2018-08-22
[30] FR (17/57822) 2017-08-23

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[11] **3,016,699**
[13] C

- [51] **Int.Cl. B21B 37/28 (2006.01) B21B 37/16 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTROLLING METAL STRIP PROFILE DURING ROLLING WITH DIRECT MEASUREMENT OF PROCESS PARAMETERS**
[54] **PROCEDE ET APPAREIL POUR COMMANDER UN PROFIL DE BANDE METALLIQUE PENDANT UN LAMINAGE AVEC UNE MESURE DIRECTE DE PARAMETRES DE PROCESSUS**
[72] FAIRLIE, MATTHEW J., CA
[72] STANISTREET, TIMOTHY F., US
[72] EBOLI, CARLOS, US
[72] ALDER, HANSJUERG, CH
[72] MURAD, LUIZ, BR
[73] NOVELIS INC., US
[85] 2018-09-05
[86] 2017-03-08 (PCT/US2017/021353)
[87] (WO2017/156122)
[30] US (62/305,113) 2016-03-08

[11] **3,016,900**
[13] C

- [51] **Int.Cl. B01D 15/22 (2006.01) B01D 15/38 (2006.01) B01D 63/08 (2006.01) B01D 63/10 (2006.01) B01J 20/28 (2006.01) B01J 20/286 (2006.01) G01N 30/60 (2006.01)**
[25] EN
[54] **AFFINITY CHROMATOGRAPHY DEVICES**
[54] **DISPOSITIFS DE CHROMATOGRAPHIE D'AFFINITE**
[72] MCMANAWAY, MICHAEL C., US
[72] SWETLIN, BRIAN J., US
[72] ZUKOR, KENNETH S., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2018-09-06
[86] 2017-03-29 (PCT/US2017/024686)
[87] (WO2017/176522)
[30] US (15/094,428) 2016-04-08
[30] US (15/409,733) 2017-01-19

[11] **3,018,600**
[13] C

- [51] **Int.Cl. H04N 21/2343 (2011.01)**
[25] EN
[54] **METHOD, APPARATUS AND STREAM OF FORMATTING AN IMMERSIVE VIDEO FOR LEGACY AND IMMERSIVE RENDERING DEVICES**
[54] **PROCEDE, APPAREIL ET FLUX DE FORMATAGE D'UNE VIDEO IMMERSIVE POUR DES DISPOSITIFS DE RENDU TRADITIONNELS ET IMMERSIFS**
[72] DORE, RENAUD, FR
[72] FLEUREAU, JULIEN, FR
[72] TAPIE, THIERRY, FR
[73] INTERDIGITAL VC HOLDINGS, INC., US
[85] 2018-09-21
[86] 2017-03-14 (PCT/EP2017/055952)
[87] (WO2017/162479)
[30] EP (16305321.8) 2016-03-22

[11] **3,020,688**
[13] C

- [51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/15 (2006.01)**
[25] EN
[54] **METHOD FOR EVALUATING ARTICULAR JOINT THERAPEUTICS**
[54] **PROCEDE D'EVALUATION D'AGENTS THERAPEUTIQUES POUR ARTICULATIONS**
[72] RUFF, KEVIN J., US
[73] ESM TECHNOLOGIES, LLC, US
[73] RUFF, KEVIN J., US
[85] 2018-10-11
[86] 2016-04-15 (PCT/US2016/027789)
[87] (WO2017/180150)

[11] **3,024,670**
[13] C

- [51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/04 (2012.01)**
[25] EN
[54] **TECHNIQUES FOR ESTIMATING EXPECTED PERFORMANCE IN A TASK ASSIGNMENT SYSTEM**
[54] **TECHNIQUES D'ESTIMATION DU RENDEMENT ATTENDU DANS UN SYSTEME D'ATTRIBUTION DE TACHES**
[72] CHISHTI, ZIA, US
[72] KAN, ITTAI, US
[72] KHATRI, VIKASH, US
[73] AFINITI, LTD., BM
[85] 2018-11-19
[86] 2018-04-05 (PCT/IB2018/000438)
[87] (WO2019/012326)
[30] US (15/648,788) 2017-07-13
[30] US (15/645,277) 2017-07-10

[11] **3,026,295**
[13] C

- [51] **Int.Cl. G06Q 20/10 (2012.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, MONEY PAYMENT METHOD, AND COMPUTER PROGRAM**
[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCEDE DE PAIEMENT D'ARGENT, ET PROGRAMME INFORMATIQUE**
[72] TOGASHI, HIROTAKA, JP
[73] 10353744 CANADA LTD., CA
[85] 2018-12-03
[86] 2016-01-04 (PCT/JP2016/050033)
[87] (WO2017/119055)

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[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/291 (2021.01) A61N 1/36 (2006.01)**

[25] EN

[54] **MICROFABRICATED NEUROSTIMULATION DEVICE AND METHODS OF MAKING AND USING THE SAME**

[54] **DISPOSITIF DE NEUROSTIMULATION MICROFABRIQUE ET SES PROCEDES DE FABRICATION ET D'UTILISATION**

[72] MERCANZINI, ANDRE, CH

[72] RENAUD, PHILIPPE, CH

[73] ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE, CH

[86] (3026948)

[87] (3026948)

[22] 2010-12-01

[62] 2,782,710

[30] US (61/265725) 2009-12-01

[11] **3,027,607**
[13] C

[51] **Int.Cl. E21B 43/11 (2006.01) E21B 43/119 (2006.01)**

[25] EN

[54] **MECHANICALLY PERFORATED WELL CASING COLLAR**

[54] **JOINT DE TUBAGE DE Puits MECANIQUEMENT PERFORE**

[72] DALLAS, LLOYD M., US

[72] HRUPP, JOZE J., US

[73] EXACTA-FRAC ENERGY SERVICES, INC., US

[86] (3027607)

[87] (3027607)

[22] 2018-12-17

[30] US (16/149, 301) 2018-10-02

[11] **3,029,381**
[13] C

[51] **Int.Cl. H02K 19/18 (2006.01) H02P 25/03 (2016.01) H02K 1/14 (2006.01) H02K 1/16 (2006.01) H02K 19/10 (2006.01) H02K 37/04 (2006.01)**

[25] EN

[54] **HOMOPOLAR MOTOR FOR A FLYWHEEL ENERGY STORAGE SYSTEM**

[54] **MOTEUR HOMOPOLAIRE POUR SYSTEME DE STOCKAGE D'ENERGIE A VOLANT D'INERTIE**

[72] SANDERS, SETH, US

[72] HE, MIKE, US

[73] AMBER KINETICS, INC., US

[85] 2018-12-21

[86] 2017-06-29 (PCT/US2017/040043)

[87] (WO2018/005822)

[30] US (62/356,773) 2016-06-30

[11] **3,030,586**
[13] C

[51] **Int.Cl. C10M 163/00 (2006.01) C10M 129/68 (2006.01) C10M 137/02 (2006.01) C10M 159/24 (2006.01) C10M 171/02 (2006.01)**

[25] EN

[54] **ANTICORROSION LUBRICANT COMPOSITIONS FOR METALS**

[54] **COMPOSITIONS DE LUBRIFIANT ANTICORROSION POUR LES METAUX**

[72] LOSCH, ACHIM, DE

[72] FUNDUS, AGNES, DE

[73] FUCHS PETROLUB SE, DE

[85] 2019-01-11

[86] 2017-07-12 (PCT/EP2017/000824)

[87] (WO2018/010841)

[30] EP (16001544.2) 2016-07-12

[11] **3,030,945**
[13] C

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/24 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **DOSE DETECTION MODULE FOR A MEDICATION DELIVERY DEVICE**

[54] **MODULE DE DETECTION DE DOSE POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] BYERLY, ROY HOWARD, US

[72] MASSARI, ROSSANO, US

[72] PACCIORETTI, DAVIDE, US

[73] ELI LILLY AND COMPANY, US

[73] ELI LILLY AND COMPANY, US

[85] 2019-01-15

[86] 2017-07-07 (PCT/US2017/041081)

[87] (WO2018/013419)

[30] US (62/362,808) 2016-07-15

[30] US (62/466,658) 2017-03-03

[11] **3,031,703**
[13] C

[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/46 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **METHOD OF GENERATING AEROSOL**

[54] **PROCEDE DE GENERATION D'AEROSOL**

[72] BALLESTEROS GOMEZ, PABLO JAVIER, GB

[72] PHILLIPS, JEREMY, GB

[73] NICOVENTURES TRADING LIMITED, GB

[85] 2019-01-23

[86] 2017-07-25 (PCT/EP2017/068804)

[87] (WO2018/019855)

[30] GB (1612945.4) 2016-07-26

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[11] **3,032,624**
[13] C

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/10 (2006.01)**
[25] EN
[54] **WELD CIRCUIT COMMUNICATION DEVICE TO COMPENSATE A WELD VOLTAGE VIA COMMUNICATIONS OVER A WELD CIRCUIT**
[54] **DISPOSITIF DE COMMUNICATION DE CIRCUIT DE SOUDURE PERMETTANT DE COMPENSER UNE TENSION DE SOUDURE PAR L'INTERMEDIAIRE DE COMMUNICATIONS SUR UN CIRCUIT DE SOUDURE**
[72] MEHN, PETER, US
[72] HSU, CHRISTOPHER, US
[72] BROCK, MAXWELL, US
[72] SCHATNER, QUINN WILLIAM, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2019-01-31
[86] 2017-07-26 (PCT/US2017/043873)
[87] (WO2018/034809)
[30] US (15/238,589) 2016-08-16

[11] **3,032,741**
[13] C

[51] **Int.Cl. B01F 23/23 (2022.01) B01F 25/21 (2022.01) B01F 33/71 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR INJECTING A PRESSURIZED LIQUID STREAM WITH DISSOLVED GAS**
[54] **PROCEDE ET SYSTEME POUR INJECTER UN FLUX LIQUIDE SOUS PRESSION CONTENANT UN GAZ DISSOUS**
[72] SPEARS, JAMES, US
[72] RIDGWAY, JAMES, US
[73] ECO TOO, LLC, US
[73] JAMES RICHARD SPEARS MD PLLC, US
[86] (3032741)
[87] (3032741)
[22] 2011-06-03
[62] 2,802,095
[30] US (12/795,362) 2010-06-07

[11] **3,032,745**
[13] C

[51] **Int.Cl. B01F 23/2373 (2022.01) B01F 33/71 (2022.01) B01F 35/71 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR INJECTING A PRESSURIZED LIQUID STREAM WITH DISSOLVED GAS**
[54] **PROCEDE ET SYSTEME POUR INJECTER UN FLUX LIQUIDE SOUS PRESSION CONTENANT UN GAZ DISSOUS**
[72] SPEARS, JAMES, US
[72] RIDGWAY, JAMES, US
[73] ECO TOO, LLC, US
[73] JAMES RICHARD SPEARS MD PLLC, US
[86] (3032745)
[87] (3032745)
[22] 2011-06-03
[62] 2,802,095
[30] US (12/795,362) 2010-06-07

[11] **3,033,509**
[13] C

[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **METHODS FOR FLEXIBLE RESOURCE USAGE**
[54] **PROCEDES D'UTILISATION FLEXIBLE DE RESSOURCES**
[72] TOOHER, J. PATRICK, CA
[72] MARINIER, PAUL, CA
[72] FREDA, MARTINO M., CA
[72] PELLETIER, GHYSLAIN, CA
[73] IDAC HOLDINGS, INC., US
[85] 2019-02-08
[86] 2017-08-09 (PCT/US2017/046105)
[87] (WO2018/031664)
[30] US (62/373,089) 2016-08-10
[30] US (62/400,950) 2016-09-28

[11] **3,033,566**
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01)**
[25] EN
[54] **WAGERING SYSTEM WITH A TRIGGER SYMBOL AND PLAYER-ADJUSTABLE LAYOUT AND SYMBOL GROUP SIZE**
[54] **SYSTEME DE PARI COMPORTANT UN SYMBOLE DECLENCHEUR ET PRESENTATION REGLABLE PAR LE JOUEUR ET TAILLE DE GROUPE DE SYMBOLES**
[72] WATKEYS, THOMAS WILLIAM, ZA
[73] FUSION HOLDINGS LIMITED, IM
[86] (3033566)
[87] (3033566)
[22] 2019-02-12
[30] GB (1802731.8) 2018-02-20

[11] **3,033,810**
[13] C

[51] **Int.Cl. C10J 3/84 (2006.01) C10J 3/86 (2006.01) F28D 21/00 (2006.01)**
[25] EN
[54] **A COMBINED HEAT AND POWER PLANT AND A METHOD FOR IMPROVING THE BURNING PROCESS IN A COMBINED HEAT AND POWER PLANT**
[54] **INSTALLATION DE PRODUCTION THERMIQUE ET ELECTRIQUE COMBINEE ET METHODE D'AMELIORATION DU PROCEDE DE BRULAGE DANS UNE TELLE INSTALLATION**
[72] TERHO, ESA, FI
[72] KAARESTO, JANI, FI
[72] YLIKOSKI, IIKKA, FI
[72] KORVA, IIKKA, FI
[72] HAAPAKOSKI, JARNO, FI
[73] VOLTER OY, FI
[85] 2019-02-13
[86] 2016-08-25 (PCT/FI2016/050581)
[87] (WO2018/037152)

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[11] **3,033,862**
[13] C

[51] **Int.Cl. G06Q 10/10 (2012.01) G06N 20/00 (2019.01) G06F 40/174 (2020.01) G06F 40/279 (2020.01) G06F 40/284 (2020.01) G06Q 40/00 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATICALLY UNDERSTANDING LINES OF COMPLIANCE FORMS THROUGH NATURAL LANGUAGE PATTERNS**

[54] **SYSTEME ET PROCEDE DE COMPREHENSION AUTOMATIQUE DE LIGNES DE FORMULAIRES DE CONFORMITE PAR L'INTERMEDIAIRE DE MODELES DE LANGAGE NATUREL**

[72] MUKHERJEE, SAIKAT, US

[72] PATCHIRAJAN, KARPAGA GANESH, US

[73] INTUIT INC., US

[85] 2019-02-13

[86] 2017-07-12 (PCT/US2017/041733)

[87] (WO2018/013702)

[30] US (62/362,688) 2016-07-15

[30] US (15/292,510) 2016-10-13

[30] US (15/293,553) 2016-10-14

[30] US (15/488,052) 2017-04-14

[30] US (15/606,370) 2017-05-26

[11] **3,034,807**
[13] C

[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**

[25] EN

[54] **ESTIMATING INTERVAL ANISOTROPY PARAMETER FOR PRE-STACK DEPTH MIGRATION USING A LEAST-SQUARES METHOD**

[54] **ESTIMATION D'UN PARAMETRE D'ANISOTROPIE D'INTERVALLE POUR UNE MIGRATION DE PROFONDEUR DE PRE-EMPILEMENT A L'AIDE D'UN PROCEDE DES MOINDRES CARRES**

[72] XIA, FAN, US

[73] LANDMARK GRAPHICS CORPORATION, US

[85] 2019-02-22

[86] 2016-10-25 (PCT/US2016/058692)

[87] (WO2018/080460)

[11] **3,034,997**
[13] C

[51] **Int.Cl. H04M 1/06 (2006.01)**

[25] EN

[54] **INSTANTANEOUS-INTERRUPTION PREVENTION DEVICE AND TELEPHONE**

[54] **DISPOSITIF DE PREVENTION D'INTERRUPTION TEMPORAIRE ET APPAREIL TELEPHONIQUE**

[72] KUBO, KYOTA, JP

[72] KOBAYASHI, MASAKI, JP

[73] NEC PLATFORMS, LTD., JP

[85] 2019-02-25

[86] 2018-06-05 (PCT/JP2018/021616)

[87] (WO2018/235597)

[30] JP (2017-120077) 2017-06-20

[11] **3,035,329**
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01)**

[25] EN

[54] **FLEXIBLE SURGICAL INSTRUMENT SYSTEM**

[54] **SYSTEME D'INSTRUMENT CHIRURGICAL FLEXIBLE**

[72] XU, KAI, CN

[72] DONG, TIANLAI, CN

[72] DAI, ZHENGCHEN, CN

[72] ZHANG, SHU'AN, CN

[72] ZHAO, JIANGRAN, CN

[72] LIU, HUAN, CN

[73] BEIJING SURGERII TECHNOLOGY CO., LTD., CN

[85] 2019-02-27

[86] 2017-08-30 (PCT/CN2017/099757)

[87] (WO2018/041161)

[30] CN (201610796073.5) 2016-08-31

[11] **3,036,877**
[13] C

[51] **Int.Cl. A01K 1/035 (2006.01) A01K 1/015 (2006.01) A47C 27/15 (2006.01) B32B 5/32 (2006.01) B32B 37/00 (2006.01) B68G 11/04 (2006.01)**

[25] EN

[54] **PET BEDS AND METHODS OF MAKING AND USING THE SAME**

[54] **LITS D'ANIMAUX DE COMPAGNIE ET METHODE DE FABRICATION ET D'UTILISATION ASSOCIEES**

[72] STEWARD, JOHN BRIAN, US

[72] PERCOSKI, JONI, US

[73] EASTERN TECHNOLOGIES, INC., US

[86] (3036877)

[87] (3036877)

[22] 2019-03-14

[30] US (62/646146) 2018-03-21

[11] **3,037,588**
[13] C

[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 9/00 (2006.01) A61K 47/00 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING MINERALOCORTICOID RECEPTOR ANTAGONIST AND USE THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN ANTAGONISTE DU RECEPTEUR MINERALOCORTICOIDE ET SON UTILISATION**

[72] HUANG, ZHENHUA, CN

[72] GUO, XIAOCUI, CN

[73] KBP BIOSCIENCES CO., LTD., CN

[85] 2019-03-20

[86] 2017-09-22 (PCT/CN2017/102969)

[87] (WO2018/054357)

[30] CN (201610849142.4) 2016-09-24

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[11] **3,037,879**
[13] C

[51] **Int.Cl. E21B 43/117 (2006.01) E21B 43/1185 (2006.01)**
[25] EN
[54] **SELECT FIRE PERFORATING CARTRIDGE SYSTEM**
[54] **CARTOUCHE DE PERFORATION AVEC SYSTEME DE MISE A FEU SELECTIF**
[72] LANGFORD, DALE, US
[72] LEVINE, CHARLES, US
[72] LANE, ANDY, US
[72] PUNDOLE, FARAIDOO, US
[72] SANSING, JOEL, US
[73] HUNTING TITAN, INC., US
[85] 2019-03-21
[86] 2017-09-22 (PCT/US2017/053025)
[87] (WO2018/057934)
[30] US (62/398,975) 2016-09-23

[11] **3,038,103**
[13] C

[51] **Int.Cl. A01K 13/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **PROTECTIVE HEAD COVER FOR ANIMALS**
[54] **COUVRE-TETE PROTECTEUR DESTINE AUX ANIMAUX**
[72] KOK-DUSON, NICOLE ANTOINETTE, NL
[73] M.P.S. HOLDING B.V., NL
[86] (3038103)
[87] (3038103)
[22] 2019-03-26
[30] NL (2020751) 2018-04-11

[11] **3,039,218**
[13] C

[51] **Int.Cl. B61L 29/24 (2006.01) B61L 29/28 (2006.01)**
[25] EN
[54] **RAILWAY ROAD CROSSING WARNING SYSTEM WITH SENSING SYSTEM**
[54] **ELECTRICALLY-DECOUPLED FROM RAILROAD TRACK**
[54] **SYSTEMES D'AVERTISSEMENT DE TRAVERSE DE VOIE FERREE COMPORTANT UN SYSTEME DE DETECTION DECOUPLE ELECTRIQUEMENT D'UNE VOIE DE CHEMIN DE FER**
[72] HARP, BRIAN, US
[72] SCHMIDT, HOLGER, US
[72] FRITSCHI, STEFAN, US
[72] YOCUM, JAY, US
[73] SIEMENS MOBILITY, INC., US
[86] (3039218)
[87] (3039218)
[22] 2019-04-04
[30] US (15/947143) 2018-04-06

[11] **3,039,355**
[13] C

[51] **Int.Cl. G06F 1/26 (2006.01) G06F 1/16 (2006.01) G06F 1/18 (2006.01) G06F 3/041 (2006.01) G06F 3/16 (2006.01) G10L 15/00 (2013.01) G10L 15/22 (2006.01) G10L 15/28 (2013.01) H04R 1/02 (2006.01)**
[25] EN
[54] **VOICE-ACTIVATED ELECTRONIC DEVICE ASSEMBLY WITH SEPARABLE BASE**
[54] **ENSEMBLE DE DISPOSITIF ELECTRONIQUE ACTIVE PAR LA VOIX AVEC BASE SEPARABLE**
[72] TAK, JUNG GEUN, US
[72] MARTIN, AMY, US
[72] MCCLELLAN, WILLARD, US
[73] GOOGLE LLC, US
[85] 2019-04-03
[86] 2017-10-03 (PCT/US2017/054882)
[87] (WO2018/067524)
[30] US (62/403,685) 2016-10-03
[30] US (62/403,681) 2016-10-03
[30] US (15/717,820) 2017-09-27

[11] **3,040,251**
[13] C

[51] **Int.Cl. H01M 4/139 (2010.01)**
[25] EN
[54] **METHODS FOR ALKALIATING ROLL ANODES**
[54] **PROCEDES D'ALCALINISATION D'ANODES A ROULEAUX**
[72] GRANT, ROBERT W., US
[72] SWEETLAND, MATTHEW, US
[72] ACHARIGE, ASELA MAHA, US
[73] NANOSCALE COMPONENTS, INC., US
[85] 2019-04-11
[86] 2016-12-08 (PCT/US2016/065550)
[87] (WO2017/100415)
[30] US (62/265,090) 2015-12-09

[11] **3,041,922**
[13] C

[51] **Int.Cl. A24F 40/46 (2020.01)**
[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] NICOVENTURES TRADING LIMITED, GB
[86] (3041922)
[87] (3041922)
[22] 2014-10-24
[62] 2,928,155
[30] US (61/897193) 2013-10-29

[11] **3,041,982**
[13] C

[51] **Int.Cl. H04N 21/2362 (2011.01) H04H 20/57 (2009.01) H04H 20/95 (2009.01)**
[25] EN
[54] **BROADCAST IDENTIFIER SIGNALING**
[54] **SIGNALISATION D'IDENTIFIANT DE DIFFUSION**
[72] DESHPANDE, SACHIN G., US
[73] SHARP KABUSHIKI KAISHA, JP
[85] 2019-04-26
[86] 2017-10-31 (PCT/JP2017/039376)
[87] (WO2018/084150)
[30] US (62/417,186) 2016-11-03
[30] US (62/507,757) 2017-05-17

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[11] **3,041,991**
[13] C

[51] **Int.Cl. G06T 5/00 (2006.01) G06T 7/11 (2017.01) G06T 7/33 (2017.01) G06T 7/90 (2017.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CORRECTING COLOR OF DIGITAL IMAGE BASED ON THE HUMAN SCLERA AND PUPIL**

[54] **SYSTEME ET PROCEDE DE CORRECTION DE COULEUR D'IMAGE NUMERIQUE BASE SUR LA SCLERE ET LA PUPILLE HUMAINES**

[72] SUK, HYEON-JEONG, KR
[72] CHOI, KYUNGAH, KR
[72] CHOI, HAYAN, KR
[72] KIM, SONGYUP, US
[73] ELC MANAGEMENT LLC, US
[73] KAIST UNIVERSITY, KR
[85] 2019-04-26
[86] 2017-02-03 (PCT/US2017/016384)
[87] (WO2018/080575)

[11] **3,042,245**
[13] C

[51] **Int.Cl. B23K 11/30 (2006.01)**

[25] EN

[54] **WELD WHEEL CLEANING SYSTEM**

[54] **SYSTEME DE NETTOYAGE DE ROUE DE SOUDAGE**

[72] CADOTTE, DANIEL J., US
[72] BRANDAU, DAVID E., US
[73] AK STEEL PROPERTIES, INC., US
[85] 2019-04-29
[86] 2017-11-02 (PCT/US2017/059683)
[87] (WO2018/085515)
[30] US (62/417,812) 2016-11-04

[11] **3,042,595**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **PYRAZOLOPYRIMIDINE COMPOUND AS PI3K INHIBITOR AND USE THEREOF**

[54] **COMPOSE DE PYRAZOLOPYRIMIDINE EN TANT QU'INHIBITEUR DE PI3K ET SON UTILISATION**

[72] YE, BAOHUAN, CN
[73] SHENZHEN BO LI JIAN MEDICINE CO., LTD., CN
[85] 2019-05-02
[86] 2017-10-18 (PCT/CN2017/106694)
[87] (WO2018/082444)
[30] CN (201610945311.4) 2016-11-02
[30] CN (201710954238.1) 2017-10-13

[11] **3,043,119**
[13] C

[51] **Int.Cl. H04W 52/36 (2009.01)**

[25] EN

[54] **UPLINK DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE DE TRANSMISSION DE DONNEES DE LIAISON MONTANTE, DISPOSITIF TERMINAL, ET DISPOSITIF DE RESEAU**

[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-05-07
[86] 2016-11-16 (PCT/CN2016/106155)
[87] (WO2018/086147)
[30] CN (PCT/CN2016/105241) 2016-11-09

[11] **3,043,969**
[13] C

[51] **Int.Cl. D01D 5/00 (2006.01) B82Y 30/00 (2011.01) B32B 5/00 (2006.01) C08J 5/04 (2006.01) D01F 1/10 (2006.01)**

[25] EN

[54] **PROCESS FOR MAKING HYBRID (FIBER-NANOFIBER) TEXTILES THROUGH EFFICIENT FIBER-TO-NANOFIBER BONDS COMPRISING NOVEL EFFECTIVE LOAD-TRANSFER MECHANISMS**

[54] **PROCEDE DE FABRICATION DE TEXTILES HYBRIDES (EN FIBRES-NANOFIBRES) PAR L'INTERMEDIAIRE DE LIAISONS EFFICACES DE FIBRES A NANOFIBRES COMPRENANT DE NOUVEAUX MECANISMES DE TRANSFERT DE CHARGE EFFICACES**

[72] DRAKONAKIS, VASILEIOS, CY
[72] SOFOCLEOUS, KATERINA, CY
[73] ADVANCED MATERIALS DESIGN & MANUFACTURING LIMITED, CY
[85] 2019-05-15
[86] 2017-11-28 (PCT/EP2017/080675)
[87] (WO2018/099910)
[30] US (62/427,429) 2016-11-29

[11] **3,044,226**
[13] C

[51] **Int.Cl. G01N 21/25 (2006.01) G01N 21/27 (2006.01)**

[25] EN

[54] **MULTIPLE SEQUENTIAL WAVELENGTH MEASUREMENT OF A LIQUID ASSAY**

[54] **MESURE DE LONGUEUR D'ONDE SEQUENTIELLE MULTIPLE D'UN DOSAGE LIQUIDE**

[72] BRUNELLE, JACQUES, US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2019-05-16
[86] 2017-11-02 (PCT/US2017/059715)
[87] (WO2018/093573)
[30] US (62/424,110) 2016-11-18

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[11] **3,044,313**

[13] C

- [51] **Int.Cl. C08F 2/00 (2006.01) C08L 23/06 (2006.01)**
[25] EN
[54] **POLYETHYLENE COMPOSITION FOR BLOW MOLDING HAVING HIGH STRESS CRACKING RESISTANCE**
[54] **COMPOSITION DE POLYETHYLENE POUR LE MOULAGE PAR SOUFFLAGE PRESENTANT UN RESISTANCE ELEVEE A LA FISSURATION SOUS CONTRAINTE**
[72] DOTSCH, DIANA, DE
[72] MARCZINKE, BERND LOTHAR, DE
[72] MEIER, GERHARDUS, DE
[72] SCHUELLER, ULF, DE
[72] DAMM, ELKE, DE
[72] FIBLA, CLAUDIO, DE
[73] BASELL POLYOLEFINE GMBH, DE
[85] 2019-05-17
[86] 2017-10-30 (PCT/EP2017/077798)
[87] (WO2018/095702)
[30] EP (16200492.3) 2016-11-24

[11] **3,044,963**

[13] C

- [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
[73] HADAL, INC., US
[86] (3044963)
[87] (3044963)
[22] 2012-05-07
[62] 2,835,239
[30] US (61/483549) 2011-05-06

[11] **3,044,983**

[13] C

- [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] KIKURI, KEI, JP
[72] YAMAGUCHI, ATSUSHI, JP
[73] NTT DOCOMO, INC., JP
[86] (3044983)
[87] (3044983)
[22] 2013-11-12
[62] 2,886,140
[30] JP (2012-251646) 2012-11-15

[11] **3,045,410**

[13] C

- [51] **Int.Cl. H02S 20/25 (2014.01) H02S 40/34 (2014.01)**
[25] EN
[54] **ELECTRICAL CONNECTION DEVICE FOR A PHOTOVOLTAIC SYSTEM**
[54] **DISPOSITIF DE CONNEXION ELECTRIQUE DESTINE A UN SYSTEME PHOTOVOLTAIQUE**
[72] WOUTERS, PAUL, BE
[72] FOURDRINIER, LIONEL, BE
[72] XIRAKIS, EFTYCHIOS, BE
[72] VIGNAL, RENAUD, FR
[72] TORMA, ANDREA, CH
[73] ARCELORMITTAL, LU
[85] 2019-05-28
[86] 2017-11-30 (PCT/IB2017/001475)
[87] (WO2018/100425)
[30] IB (PCT/IB2016/057222) 2016-11-30

[11] **3,045,571**

[13] C

- [51] **Int.Cl. G06Q 40/08 (2012.01) G06F 16/24 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **BLOCKCHAIN-BASED COMMODITY CLAIM METHOD AND APPARATUS, AND ELECTRONIC DEVICE**
[54] **METHODE ET APPAREIL DE DEMANDE DE BIEN BASEE SUR LA CHAINE DE BLOCS ET DISPOSITIF ELECTRONIQUE**
[72] HU, DANQING, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-06-10
[86] 2019-05-29 (PCT/US2019/034262)
[87] (WO2019/231959)
[30] CN (201810534737.X) 2018-05-29

[11] **3,045,632**

[13] C

- [51] **Int.Cl. G06F 16/27 (2019.01) G06Q 20/06 (2012.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **BLOCKCHAIN ASSET ISSUING AND REDEMPTION METHODS AND APPARATUSES, AND ELECTRONIC DEVICE THEREFORE**
[54] **METHODES D'EMISSION ET D'ECHANGE D'ACTIF DE CHAINE DE BLOCS ET APPAREILSET DISPOSITIF ELECTRONIQUE ASSOCIES**
[72] HU, DANQING, CN
[72] LIN, SEN, CN
[72] ZHANG, JUNLIANG, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-06-10
[86] 2019-05-29 (PCT/US2019/034257)
[87] (WO2019/231955)
[30] CN (201810534318.6) 2018-05-29

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[11] **3,045,879**
[13] C

[51] **Int.Cl. E21B 47/06 (2012.01) E21B 43/17 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **DETERMINING WELLBORE PARAMETERS THROUGH ANALYSIS OF THE MULTISTAGE TREATMENTS**

[54] **DETERMINATION DE PARAMETRES DE Puits DE FORAGE PAR ANALYSE DES TRAITEMENTS A PLUSIEURS A PLUSIEURS ETAGES**

[72] MARTYSEVICH, VLADIMIR NIKOLAYEVICH, US

[72] CAMP, JOSHUA LANE, US

[72] ANDERSON, TYLER AUSTEN, US

[72] MADASU, SRINATH, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2019-05-28

[86] 2017-01-13 (PCT/US2017/013495)

[87] (WO2018/132106)

[11] **3,046,769**
[13] C

[51] **Int.Cl. A63G 21/20 (2006.01) A63G 21/22 (2006.01) B61B 7/00 (2006.01)**

[25] EN

[54] **ZIP TRACK SYSTEM**

[54] **SYSTEME DE CHEMIN DE TYROLIENNE**

[72] WATERMILLER, RANDY G., US

[72] SCHAUST, STEVEN J., US

[73] LANDSCAPE STRUCTURES INC., US

[86] (3046769)

[87] (3046769)

[22] 2014-10-28

[62] 2,928,825

[30] US (61/896,460) 2013-10-28

[30] US (14/524,298) 2014-10-27

[11] **3,047,696**
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/06 (2006.01) C22C 38/24 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/34 (2006.01)**

[25] EN

[54] **HIGH-STRENGTH COLD ROLLED STEEL SHEET HAVING HIGH FORMABILITY AND A METHOD OF MANUFACTURING THEREOF**

[54] **TOLE D'ACIER LAMINEE A FROID A HAUTE RESISTANCE PRESENTANT UNE FORMABILITE ELEVEE ET SON PROCEDE DE FABRICATION**

[72] PIPARD, JEAN-MARC, FR

[72] THENOT, MARC OLIVIER, FR

[72] TARGY, PIERRE, FR

[73] ARCELORMITTAL, LU

[85] 2019-06-19

[86] 2017-12-19 (PCT/IB2017/058119)

[87] (WO2018/116155)

[30] IB (PCT/IB2016/057903) 2016-12-21

[11] **3,047,965**
[13] C

[51] **Int.Cl. B05B 3/04 (2006.01) B05B 15/652 (2018.01) B05B 3/02 (2006.01)**

[25] EN

[54] **INTUITIVE WIDTH CONTROL SPRINKLER**

[54] **ARROSEUR A COMMANDE DE LARGEUR INTUITIVE**

[72] FARRA, STEVEN HOWARD, US

[72] VEDANTAM, KALYAN K., US

[72] VALLO, NICHOLAS, US

[73] FISKARS FINLAND OY AB, FI

[85] 2019-06-20

[86] 2017-12-11 (PCT/US2017/065583)

[87] (WO2018/118485)

[30] US (62/438,562) 2016-12-23

[11] **3,048,396**
[13] C

[51] **Int.Cl. C30B 33/00 (2006.01) B01D 9/00 (2006.01)**

[25] EN

[54] **METHOD FOR PURIFYING CRYSTALS USING SOLVENT VAPORS**

[54] **METHODE DE PURIFICATION DE CRISTAUX AU MOYEN DE VAPEURS DE SOLVANT**

[72] BETHERS, PRATT, US

[72] GOODMAN, DAVID, III, US

[73] BETHERS, PRATT, US

[73] GRAY, LORIN, US

[73] PETERS, RAETH, US

[73] BETHERS, MARK, US

[73] MAHGOUB, MAGDI, US

[86] (3048396)

[87] (3048396)

[22] 2019-07-02

[30] US (16/025,967) 2018-07-02

[11] **3,048,737**
[13] C

[51] **Int.Cl. H04L 67/60 (2022.01) H04L 67/10 (2022.01)**

[25] EN

[54] **SERVICE PROCESSING AND CONSENSUS METHOD AND DEVICE**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT ET DE CONSENSUS DE SERVICE**

[72] LI, YI, CN

[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY

[85] 2019-06-27

[86] 2018-03-26 (PCT/CN2018/080461)

[87] (WO2018/177239)

[30] CN (201710191462.X) 2017-03-28

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[11] **3,048,876**
[13] C

[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/24 (2019.01) G06F 16/28 (2019.01)**

[25] EN

[54] **RETROREFLECTIVE JOIN GRAPH GENERATION FOR RELATIONAL DATABASE QUERIES**

[54] **GENERATION DE GRAPHIQUES A LIAISONS RETROREFLECHISSANTS POUR REQUETES DE BASE DE DONNEES RELATIONNELLES**

[72] HYDE, JULIAN, US

[72] SWENSON, JONATHAN, US

[73] GOOGLE LLC, US

[86] (3048876)

[87] (3048876)

[22] 2019-07-09

[30] US (16/417,630) 2019-05-20

[11] **3,049,589**
[13] C

[51] **Int.Cl. B01D 61/02 (2006.01) B01D 61/06 (2006.01) B01D 61/12 (2006.01) C02F 1/44 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE TREATMENT OF WATER BY REVERSE OSMOSIS OR NANOFILTRATION**

[54] **SYSTEME ET PROCEDE POUR LE TRAITEMENT DE L'EAU PAR OSMOSE INVERSE OU NANOFILTRATION**

[72] MACK, BERNARD ROY, US

[72] WYNKOOP, DALE, US

[73] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR

[85] 2019-07-05

[86] 2018-01-08 (PCT/US2018/012766)

[87] (WO2018/129442)

[30] US (62/444,061) 2017-01-09

[11] **3,049,890**
[13] C

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/50 (2006.01)**

[25] EN

[54] **PROCESSES AND DEVICES FOR DELIVERY OF FLUID BY CHEMICAL REACTION**

[54] **PROCEDES ET DISPOSITIFS D'ADMINISTRATION DE FLUIDE PAR REACTION CHIMIQUE**

[72] ATTERBURY, WILLIAM G., US

[72] BENNISON, CORRIE, US

[72] CAIN, ROBERT J., US

[72] CHIAPPETTA, MICHAEL F., US

[72] ELLIS, JEFFREY L., US

[72] HOLLEY, DAVID A., US

[72] LAFEVER, MARK, US

[72] PIATT, BEVERLY, US

[72] TALLARICO, JOHN P., US

[73] ELI LILLY AND COMPANY, US

[85] 2019-07-10

[86] 2018-02-09 (PCT/US2018/017547)

[87] (WO2018/152018)

[30] US (62/460,414) 2017-02-17

[11] **3,049,904**
[13] C

[51] **Int.Cl. B65G 47/58 (2006.01) B65G 15/16 (2006.01) B65G 43/04 (2006.01) B65G 47/53 (2006.01)**

[25] EN

[54] **AUTOMATED AND REMOTELY-CONTROLLED MATERIAL-CONVEYING SYSTEMS AND METHODS**

[54] **SYSTEMES ET METHODES DE CONVOYAGE DE MATERIEL AUTOMATISE ET TELECOMMANDE**

[72] FEHR, JOEL, CA

[72] JOHNSON, ZACHARY, CA

[72] BLOMERT, ERIN, CA

[72] CAMM, TYLER, CA

[73] AG GROWTH INTERNATIONAL INC., CA

[86] (3049904)

[87] (3049904)

[22] 2019-07-17

[30] US (62/699,034) 2018-07-17

[11] **3,049,986**
[13] C

[51] **Int.Cl. E04H 4/08 (2006.01) E04H 4/06 (2006.01) E04H 4/14 (2006.01) E05F 1/10 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD AND APPARATUS FOR OPENING A SPA HARD COVER**

[54] **SYSTEME, PROCEDE ET APPAREIL D'OUVERTURE D'UNE COUVERTURE RIGIDE DE CUVE THERMALE**

[72] SPICER, WADE, US

[72] WOODS, CHARLES, US

[73] STRONG INDUSTRIES, INC., US

[85] 2019-07-11

[86] 2018-02-13 (PCT/US2018/017921)

[87] (WO2018/148706)

[30] US (62/458,164) 2017-02-13

[11] **3,050,865**
[13] C

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **USE OF A PYRAZOLE-BASED COMPOUND FOR TREATING LIVER DISEASES**

[54] **USAGE D'UN COMPOSE A BASE DE PYRAZOLE POUR LE TRAITEMENT DE MALADIES HEPATIQUES**

[72] MOON, SUNG HWAN, KR

[72] LEE, SOO JIN, KR

[72] LEE, SUNG CHAN, KR

[72] BAE, YUN SOO, KR

[73] APTABIO THERAPEUTICS INC., KR

[85] 2019-07-18

[86] 2018-09-14 (PCT/KR2018/010857)

[87] (WO2019/088444)

[30] KR (10-2017-0144911) 2017-11-01

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[11] **3,051,078**
[13] C

[51] **Int.Cl. H01M 10/08 (2006.01) H01M 10/14 (2006.01)**
[25] EN
[54] **ENERGY STORAGE DEVICES COMPRISING CARBON-BASED ADDITIVES AND METHODS OF MAKING THEREOF**
[54] **DISPOSITIFS DE STOCKAGE D'ENERGIE CONTENANT DES ADDITIFS A BASE DE CARBONE ET LEURS PROCEDES DE PRODUCTION**
[72] JAGANNATHAN, SUDHAKAR, US
[73] STRYTEN ENERGY LLC, US
[86] (3051078)
[87] (3051078)
[22] 2012-03-07
[62] 2,858,055
[30] US (61/449,885) 2011-03-07

[11] **3,051,099**
[13] C

[51] **Int.Cl. A61F 2/40 (2006.01) A61B 17/86 (2006.01) A61F 2/30 (2006.01)**
[25] EN
[54] **MODULAR AUGMENT COMPONENT**
[54] **COMPOSANT D'AUGMENTATION MODULAIRE**
[72] KEHRES, CLINTON E., US
[73] BIOMET MANUFACTURING, LLC, US
[85] 2019-07-19
[86] 2018-01-16 (PCT/US2018/013795)
[87] (WO2018/136393)
[30] US (62/448,547) 2017-01-20

[11] **3,051,511**
[13] C

[51] **Int.Cl. G10L 19/22 (2013.01) G10L 19/005 (2013.01) G10L 19/12 (2013.01)**
[25] EN
[54] **ENCODER, DECODER AND METHOD FOR ENCODING AND DECODING AUDIO CONTENT USING PARAMETERS FOR ENHANCING A CONCEALMENT**
[54] **CODEUR, DECODEUR ET PROCEDE DE CODAGE ET DE DECODAGE D'UN CONTENU AUDIO A L'AIDE DE PARAMETRES PERMETTANT D'AMELIORER UNE DISSIMULATION**
[72] LECOMTE, JEREMIE, DE
[72] SCHUBERT, BENJAMIN, DE
[72] SCHNABEL, MICHAEL, DE
[72] DIETZ, MARTIN, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[86] (3051511)
[87] (3051511)
[22] 2015-08-24
[62] 3,008,321
[30] EP (14182553.9) 2014-08-27
[30] EP (15164126.3) 2015-04-17

[11] **3,051,748**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 37/04 (2006.01) C07K 14/455 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 1/21 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF ENHANCING IMMUNE RESPONSES TO EIMERIA**
[54] **COMPOSITIONS ET PROCEDES POUR AMPLIFIER DES REponses IMMUNITAIRES A L'EIMERIA**
[72] BOTTJE, WALTER, US
[72] HARGIS, BILLY, US
[72] BERGHMAN, LUC, US
[72] KWON, YOUNG MIN, US
[72] COLE, KIMBERLY, US
[72] COX, MANDY, US
[72] LAYTON, SHERRYLL, US
[72] EL-ASHRAM, SAID, CA
[72] BARTA, JOHN, CA
[72] TELLEZ, GUILLERMO, US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, US
[73] THE TEXAS A&M UNIVERSITY SYSTEM, US
[73] UNIVERSITY OF GUELPH, CA
[86] (3051748)
[87] (3051748)
[22] 2008-11-03
[62] 2,704,422
[30] US (60/984,612) 2007-11-01

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[11] **3,051,823**
[13] C

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/14 (2006.01) H01F 1/147 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING NON-ORIENTED ELECTRICAL STEEL SHEET, METHOD FOR PRODUCING MOTOR CORE, AND MOTOR CORE**

[54] **METHODE DE PRODUCTION D'UNE TOLE EN ACIER A CHAMP ELECTRIQUE NON ORIENTEE, METHODE DE PRODUCTION D'UNE AME DE MOTEUR, ET AME DE MOTEUR**

[72] ZAIZEN, YOSHIKI, JP

[72] ODA, YOSHIHIKO, JP

[72] OKUBO, TOMOYUKI, JP

[73] JFE STEEL CORPORATION, JP

[85] 2019-07-26

[86] 2018-01-19 (PCT/JP2018/001533)

[87] (WO2018/147044)

[30] JP (2017-019994) 2017-02-07

[11] **3,052,000**
[13] C

[51] **Int.Cl. G06K 7/10 (2006.01) G06Q 10/10 (2012.01) G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01)**

[25] EN

[54] **POINT OF SALE (POS) DOCKING STATION SYSTEM AND METHOD FOR A MOBILE BARCODE SCANNER GUN SYSTEM WITH MOBILE TABLET DEVICE OR STAND ALONE MOBILE TABLET DEVICE**

[54] **SYSTEME DE STATION D'ACCUEIL DE POINT DE VENTE (POS) ET PROCEDE POUR SYSTEME DE LECTEUR A MAIN DE CODE-BARRES MOBILE AYANT UN DISPOSITIF TABLETTE MOBILE OU DISPOSITIF TABLETTE MOBILE AUTONOME**

[72] HICKS, BRUCE J., US

[72] MCWHIRTER, BRIAN K., US

[73] RETAIL TECHNOLOGIES CORPORATION, US

[85] 2019-07-26

[86] 2018-01-27 (PCT/US2018/015615)

[87] (WO2018/140836)

[30] US (15/419,344) 2017-01-30

[11] **3,052,717**
[13] C

[51] **Int.Cl. A01C 5/06 (2006.01)**

[25] EN

[54] **SOWING COULTER WITH ADJUSTABLE TEAR-OPEN CHISEL**

[54] **SOC DE SEMOIR A TRANCHANT DE DECHIREMENT AJUSTABLE**

[72] SCHWAMM, VICTOR, DE

[72] TROEBNER, MICHAEL, DE

[72] VOLLMER, HUBERT, DE

[73] AMAZONEN-WERKE H. DREYER GMBH & CO. KG, DE

[85] 2019-08-06

[86] 2018-01-30 (PCT/EP2018/052184)

[87] (WO2018/145939)

[30] DE (102017102782.3) 2017-02-13

[11] **3,052,765**
[13] C

[51] **Int.Cl. A61K 36/258 (2006.01) A61K 35/616 (2015.01) A23L 33/10 (2016.01) A23L 33/105 (2016.01)**

[25] EN

[54] **COMPOSITION COMPRISING COMPOSITE EXTRACT FROM GINSENG/RED GINSENG AND SEA CUCUMBER AS EFFECTIVE INGREDIENT FOR PREVENTING OR TREATING BRUCH'S MEMBRANE HYPOFUNCTION-RELATED DISEASE**

[54] **COMPOSITION COMPRENANT UN EXTRAIT COMPOSITE DE GINSENG/GINSENG ROUGE ET DE CONCOMBRE DE MER A TITRE DE PRINCIPE ACTIF POUR PREVENIR OU TRAITER UNE MALADIE LIEE A L'HYPOFONCTION DE LA MEMBRANE DE BRUCH**

[72] LEE, YUNHEE, KR

[72] HUSSAIN, ALI, GB

[72] KIM, DAE BONG, KR

[73] ALTREGEN CO.,LTD., KR

[85] 2019-08-06

[86] 2018-02-08 (PCT/KR2018/001722)

[87] (WO2018/147663)

[30] KR (10-2017-0018196) 2017-02-09

[30] KR (10-2018-0015887) 2018-02-08

[11] **3,052,921**
[13] C

[51] **Int.Cl. A63F 9/12 (2006.01) A63H 33/00 (2006.01) B65D 21/02 (2006.01)**

[25] EN

[54] **APPARATUS FOR HOUSING AND REVEALING A PLURALITY OF CHILDREN'S TOYS**

[54] **APPAREIL DESTINE A LOGER ET A FAIRE APPARAITRE UNE PLURALITE DE JOUETS POUR ENFANTS**

[72] MOWBRAY, MATHEW PETER, NZ

[72] WOODS, ADAM STEVEN, AU

[73] ZURU (SINGAPORE) PTE. LTD., SG

[85] 2019-08-07

[86] 2018-02-14 (PCT/IB2018/050887)

[87] (WO2018/150328)

[30] US (62/459,471) 2017-02-15

[11] **3,053,197**
[13] C

[51] **Int.Cl. G06Q 10/06 (2012.01) G06F 16/90 (2019.01)**

[25] EN

[54] **BENEFIT TRACKING AND AVAILABILITY IN AN ENROLLMENT DATABASE SYSTEM**

[54] **SUIVI ET DISPONIBILITE DES AVANTAGES DANS UN SYSTEME DE BASE DE DONNEES D'ADMISSION**

[72] EVANCZUK, ALEXANDER, US

[73] ZENPAYROLL, INC., US

[86] (3053197)

[87] (3053197)

[22] 2019-08-26

[30] US (16/440,995) 2019-06-14

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[11] **3,053,555**
[13] C

[51] **Int.Cl. B01D 21/24 (2006.01) B01D 21/30 (2006.01) E21B 21/06 (2006.01)**
[25] EN
[54] **DEWATERING THICK FINE TAILINGS USING DILUTION AND NEAR INFRARED MONITORING TECHNIQUES**
[54] **DESHYDRATATION DE RESIDUS DE BOUE FINS AU MOYEN DE LA DILUTION ET TECHNIQUES DE SURVEILLANCE EN PROCHE INFRAROUGE**
[72] BUGG, TREVOR, CA
[72] FENG, ENBO, CA
[72] KADALI, RAMESH, CA
[72] ADAMS, BRYAN, CA
[72] GORANSON, MARC, CA
[72] PRATHAP, NAVEEN, CA
[72] REVINGTON, ADRIAN, CA
[72] MITTAL, KUSHAGRA, CA
[72] MOYLS, BENITO, CA
[72] DIEP, JOHN, CA
[73] SUNCOR ENERGY INC., CA
[86] (3053555)
[87] (3053555)
[22] 2017-02-24
[62] 2,959,035

[11] **3,053,625**
[13] C

[51] **Int.Cl. H04L 51/04 (2022.01) H04L 51/56 (2022.01) H04L 67/02 (2022.01) H04L 67/561 (2022.01) H04L 67/563 (2022.01) H04L 67/566 (2022.01) H04L 67/567 (2022.01) H04M 3/42 (2006.01) H04M 3/50 (2006.01) H04M 3/51 (2006.01)**
[25] EN
[54] **A REDIRECTION BRIDGE DEVICE AND SYSTEM, A COMMUNICATION SYSTEM COMPRISING A REDIRECTION BRIDGE DEVICE OR SYSTEM, A METHOD OF REDIRECTION BRIDGING, USE OF A USER INTERFACE AND A SOFTWARE PRODUCT**
[54] **DISPOSITIF ET SYSTEME DE PONT DE REDIRECTION, SYSTEME DE COMMUNICATION COMPRENANT UN DISPOSITIF OU SYSTEME DE PONT DE REDIRECTION, PROCEDE DE PONTAGE DE REDIRECTION, ET UTILISATION D'UNE INTERFACE UTILISATEUR ET D'UN PRODUIT LOGICIEL**
[72] KEATING, COLM, IE
[72] CAHILL, AJ, IE
[72] FLEMING, CARL, IE
[72] MOYLAN, EOGHAN, IE
[72] JORDAN, GARRETT, IE
[73] WEBTEXT HOLDINGS LIMITED, IE
[85] 2019-08-14
[86] 2017-12-11 (PCT/IB2017/057784)
[87] (WO2018/150242)
[30] EP (17156155.8) 2017-02-14

[11] **3,053,837**
[13] C

[51] **Int.Cl. A01K 5/02 (2006.01)**
[25] EN
[54] **PIG FEEDER FOR FEEDING WEANLING TO FINISHER PIGS**
[54] **DISPOSITIF D'ALIMENTATION DE PORCS POUR NOURRIR DES PORCS DU SEVRAGE A LA FINITION**
[72] KLEINSASSER, JONATHAN, CA
[72] MCADAMS, TOM, CA
[73] CRYSTAL SPRING COLONY FARMS LTD., CA
[85] 2019-08-16
[86] 2018-06-01 (PCT/CA2018/050654)
[87] (WO2018/223222)
[30] US (62/516,467) 2017-06-07

[11] **3,053,955**
[13] C

[51] **Int.Cl. E04B 9/00 (2006.01)**
[25] EN
[54] **MODULAR CEILING SYSTEM**
[54] **SYSTEME DE PLAFOND MODULAIRE**
[72] RIMMER, JULIAN DOUGLAS TYLDESLEY, GB
[72] BARROGA, SHERWIN, GB
[72] TESSIER, SYLVIO, CA
[72] RABBANI, ARUN, GB
[72] MORGAN, ASHLEY, GB
[72] HIEBERT, JORDAN, CA
[72] COMBERBACH, CRAIG, CA
[72] MARVIN, LUKE, CA
[72] BORJA, CHRISTIAN, CA
[72] HOLLAND, MIKE, GB
[72] WHITE, JAMES, GB
[72] SORRELL, RYAN, GB
[72] ORTIZ, MARIO, GB
[72] NICHOLSON, MIKE, CA
[73] PRICE INDUSTRIES LIMITED, CA
[85] 2019-08-19
[86] 2018-03-01 (PCT/CA2018/000044)
[87] (WO2018/157234)
[30] US (62/465,227) 2017-03-01
[30] US (15/907,954) 2018-02-28

[11] **3,053,981**
[13] C

[51] **Int.Cl. A61K 47/66 (2017.01) C12N 5/071 (2010.01) C12N 5/078 (2010.01) A01N 1/02 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07K 14/34 (2006.01) C07K 14/54 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS BASED ON DIPHTHERIA TOXIN-INTERLEUKIN-3 CONJUGATES**
[54] **METHODES ET COMPOSITIONS A BASE DE CONJUGUES TOXINE DIPHTERIQUE-INTERLEUKINE 3**
[72] FRANKEL, ARTHUR E., US
[73] SCOTT & WHITE MEMORIAL HOSPITAL, US
[86] (3053981)
[87] (3053981)
[22] 2007-09-07
[62] 3,007,075
[30] US (60/843,471) 2006-09-07
[30] US (60/932,772) 2007-06-01

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[11] **3,054,153**
[13] C

- [51] **Int.Cl. G01M 3/02 (2006.01) A61L 2/07 (2006.01) G01M 3/28 (2006.01) G01M 3/32 (2006.01) G01M 3/34 (2006.01)**
- [25] EN
[54] **LEAK ISOLATION SYSTEM**
[54] **SYSTEME D'ISOLATION VIS-A-VIS DE FUITES**
- [72] OBRATIL, JEFFREY, US
[72] CLEMENTS, JOSEPH WILLIAM, US
[72] GLASPELL, DAVID JAMES, US
[73] AMERICAN STERILIZER COMPANY, US
- [85] 2019-08-20
[86] 2017-12-21 (PCT/US2017/067815)
[87] (WO2018/182809)
[30] US (62/478,200) 2017-03-29
[30] US (15/848,573) 2017-12-20

[11] **3,054,287**
[13] C

- [51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/40 (2012.01) G06Q 20/42 (2012.01)**
- [25] EN
[54] **CONTACTS FOR MISDIRECTED PAYMENTS AND USER AUTHENTICATION**
[54] **CONTACTS POUR PAIEMENTS MAL ACHEMINES ET AUTHENTICATION D'UTILISATEUR**
- [72] GRASSADONIA, BRIAN, US
[72] OMOJOLA, AYOKUNLE, US
[72] MORING, MICHAEL, US
[72] ANDERSEN, ROBERT, US
[72] PERITO, DANIELE, US
[72] STIPECH, KRISTOPHER, US
[73] BLOCK, INC., US
- [85] 2019-08-21
[86] 2018-01-18 (PCT/US2018/014126)
[87] (WO2018/140272)
[30] US (15/419,921) 2017-01-30
[30] US (15/419,940) 2017-01-30

[11] **3,054,532**
[13] C

- [51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/14 (2006.01) A61K 47/30 (2006.01) A61P 35/00 (2006.01) C08L 71/02 (2006.01)**
- [25] EN
[54] **COMPOSITIONS AND METHODS RELATING TO REDUCED MUCOADHESION**
[54] **COMPOSITIONS ET PROCEDES VISANT A UNE REDUCTION DE LA MUCOADHERENCE**
- [72] LAI, SAMUEL K., US
[72] YANG, MING, US
[72] WANG, YING-YING, US
[72] MERT, OLCAY, TR
[72] ENSIGN, LAURA, US
[72] HANES, JUSTIN, US
[72] FU, JIE, US
[73] THE JOHNS HOPKINS UNIVERSITY, US
- [86] (3054532)
[87] (3054532)
[22] 2011-11-04
[62] 2,816,977
[30] US (61/410,539) 2010-11-05

[11] **3,054,727**
[13] C

- [51] **Int.Cl. B01D 21/26 (2006.01) E03F 1/00 (2006.01) E03F 5/14 (2006.01)**
- [25] EN
[54] **LIQUID QUALITY SYSTEM WITH DRAG INDUCING PORTIONS**
[54] **SYSTEME DE QUALITE DE LIQUIDE AVEC PARTIES D'INDUCTION DE TRAINEE**
- [72] BABCANEC, JOSEPH ANDREW, US
[72] VITARELLI, RONALD R., US
[72] FIGOLA, DANIEL J., US
[72] FRANCIS, COREY M., US
[72] ATCHISON, OWEN MICHAEL, US
[72] VANHOOSE, BILL RUSSELL, US
[72] LIU, BO, US
[72] BITLER, CHARLES ROBERT, US
[72] MARTIN, TERRIANNE ELIZABETH, US
[73] ADVANCED DRAINAGE SYSTEMS, INC., US
- [85] 2019-08-26
[86] 2018-02-23 (PCT/US2018/019382)
[87] (WO2018/156871)
[30] US (62/463,322) 2017-02-24
[30] US (15/646,794) 2017-07-11

[11] **3,054,814**
[13] C

- [51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61F 2/82 (2013.01)**
- [25] EN
[54] **SYSTEMS, METHODS AND DEVICES FOR PROSTHETIC HEART VALVE WITH SINGLE VALVE LEAFLET**
[54] **SYSTEMES, PROCEDES ET DISPOSITIFS POUR VALVULE CARDIAQUE PROTHETIQUE A FEUILLET DE VALVULE UNIQUE**
- [72] CHAMBERS, JEFFREY W., US
[72] KUMAR, SARAVANA B., US
[72] HIGGINS, JOSEPH P., US
[72] THATCHER, ROBERT J., US
[72] DIEDERING, JASON S., US
[72] STONE, JEFFREY R., US
[73] 4C MEDICAL TECHNOLOGIES, INC., US
- [85] 2019-08-27
[86] 2018-03-07 (PCT/US2018/021244)
[87] (WO2018/165225)
[30] US (62/468,112) 2017-03-07
[30] US (15/913,509) 2018-03-06

[11] **3,055,096**
[13] C

- [51] **Int.Cl. F04B 43/00 (2006.01) F04B 43/12 (2006.01)**
- [25] EN
[54] **PUMP DEVICE FOR DELIVERY OF AT LEAST ONE DELIVERY MEANS**
[54] **DISPOSITIF A POMPE POUR LE TRANSPORT D'AU MOINS UN MOYEN DE TRANSPORT**
- [72] KRUTZENBICHLER, ALOIS, DE
[72] FREIHERR VARNBULER VON UND ZU HEMMINGEN-REDSCHLAG, LARS, DE
[72] RITSCHKA, RAYMOND, DE
[72] BAUMANN, JOCHEN, DE
[73] WATSON MARLOW GMBH, DE
- [85] 2019-08-30
[86] 2018-03-02 (PCT/EP2018/055165)
[87] (WO2018/158423)
[30] DE (10 2017 104 400.0) 2017-03-02

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[11] **3,055,161**
[13] C

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/90 (2020.01) A24F 40/95 (2020.01)**
[25] EN
[54] **SMOKING SYSTEM, POWER SUPPLY CONTROL METHOD, PROGRAM, PRIMARY DEVICE, AND SECONDARY DEVICE**
[54] **SYSTEME POUR FUMER, PROCEDE DE COMMANDE D'ALIMENTATION EN ENERGIE, PROGRAMME, DISPOSITIF PRINCIPAL ET DISPOSITIF SECONDAIRE**
[72] YAMADA, MANABU, JP
[72] NAKANO, TAKUMA, JP
[73] JAPAN TOBACCO INC., JP
[85] 2019-08-30
[86] 2017-03-13 (PCT/JP2017/009944)
[87] (WO2018/167817)

[11] **3,055,367**
[13] C

[51] **Int.Cl. C07C 51/09 (2006.01) C08J 11/10 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING TEREPHTHALIC ACID AND SYSTEM THEREOF**
[54] **PROCEDE DE FABRICATION D'ACIDE TEREPHTHALIQUE ET SYSTEME CONNEXE**
[72] LAI, PO-CHEN, CN
[72] LEE, JYUN-SIAN, CN
[72] CHIANG, SIH-HAO, CN
[72] LIANG, CHIN-SHUI, CN
[72] TSAI, HSIANG-CHIN, CN
[73] FAR EASTERN NEW CENTURY CORPORATION, TW
[86] (3055367)
[87] (3055367)
[22] 2019-09-13
[30] TW (107133898) 2018-09-26

[11] **3,055,568**
[13] C

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/00 (2006.01) F16K 11/07 (2006.01) F16K 31/42 (2006.01) G05D 7/06 (2006.01)**
[25] EN
[54] **FILTER BACKWASH CONTROL SYSTEM FOR A WATER OR WASTEWATER TREATMENT SYSTEM TO CONSERVE WATER DURING THE FILTER BACKWASH PROCESS**
[54] **SYSTEME DE COMMANDE DE RINCAGE A CONTRE-COURANT DES FILTRES POUR SYSTEME DE TRAITEMENT DE L'EAU OU DES EAUX USEES PERMETTANT D'ECONOMISER DE L'EAU PENDANT LE PROCESSUS DE RINCAGE A CONTRE-COURANT**
[72] ROMERS, MARK W., US
[73] ROMERS, MARK W., US
[85] 2019-09-05
[86] 2018-03-08 (PCT/US2018/021635)
[87] (WO2018/165490)
[30] US (62/468,772) 2017-03-08

[11] **3,055,731**
[13] C

[51] **Int.Cl. C23C 24/04 (2006.01) B05B 7/14 (2006.01)**
[25] EN
[54] **COLD SPRAY GUN AND COLD SPRAY APPARATUS EQUIPPED WITH THE SAME**
[54] **PISTOLET DE PULVERISATION A FROID ET APPAREIL DE PULVERISATION A FROID L'UTILISANT**
[72] FUKANUMA, HIROTAKA, JP
[73] PLASMA GIKEN CO., LTD., JP
[85] 2019-09-06
[86] 2018-04-02 (PCT/JP2018/014118)
[87] (WO2018/186351)
[30] JP (2017-074481) 2017-04-04

[11] **3,056,012**
[13] C

[51] **Int.Cl. A63H 33/04 (2006.01)**
[25] EN
[54] **TOY CONSTRUCTION SET WITH ARTICULATING LINKABLE ELEMENTS**
[54] **ENSEMBLE JOUET DE CONSTRUCTION DOTE D'ELEMENTS ARTICULES RACCORDABLES**
[72] FISH, PETER ALAN, AU
[73] KMA CONCEPTS LIMITED, CN
[85] 2019-09-10
[86] 2018-03-21 (PCT/CN2018/079757)
[87] (WO2018/171615)
[30] AU (2017100326) 2017-03-21
[30] US (15/919,217) 2018-03-13

[11] **3,057,814**
[13] C

[51] **Int.Cl. C22C 38/00 (2006.01) B21B 1/26 (2006.01) B21C 37/08 (2006.01) C21D 9/08 (2006.01) C21D 9/46 (2006.01) C21D 9/50 (2006.01) C22C 38/14 (2006.01) C22C 38/60 (2006.01)**
[25] EN
[54] **STEEL MEMBER, HOT-ROLLED STEEL SHEET FOR STEEL MEMBER, AND PRODUCTION METHOD THEREFOR**
[54] **ELEMENT D'ACIER, TOLE D'ACIER LAMINEE A CHAUD DESTINEE A L'ELEMENT D'ACIER ET METHODE DE PRODUCTION ASSOCIEE**
[72] TOYODA, SHUNSUKE, JP
[72] SUGIMOTO, ICHIRO, JP
[72] KAWAMURA, SHUJI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2019-09-24
[86] 2018-03-29 (PCT/JP2018/013076)
[87] (WO2018/186273)
[30] JP (2017-076411) 2017-04-07

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[11] **3,058,218**

[13] C

- [51] **Int.Cl. H04B 7/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COMMUNICATIONS BEAM RECOVERY**
[54] **SYSTEME ET PROCEDE DE RECUPERATION DE FAISCEAU DE COMMUNICATION**
[72] XIA, PENGFEI, US
[72] LIU, BIN, US
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-09-27
[86] 2018-03-21 (PCT/CN2018/079765)
[87] (WO2018/177172)
[30] US (62/479,965) 2017-03-31
[30] US (62/521,110) 2017-06-16
[30] US (62/544,420) 2017-08-11
[30] US (62/581,314) 2017-11-03
[30] US (15/890,925) 2018-02-07

[11] **3,060,244**

[13] C

- [51] **Int.Cl. B65C 9/18 (2006.01) B65C 3/14 (2006.01)**
[25] EN
[54] **LABEL APPLICATION SYSTEMS**
[54] **SYSTEMES D'APPLICATION D'ETIQUETTES**
[72] LUX, BENJAMIN DAVID, US
[72] MEEK, JASON A., US
[72] MEDEIROS, MICHAEL, US
[72] WOODS, MICHAEL CLARKE, US
[72] MARSELLA, ANDREW W., US
[72] VOICECHOVSKI, NIKOLAI A., US
[72] MUNNELLY, HEIDI M., US
[72] GRAUDS, JURIS ALEX, US
[73] ACTEGA NORTH AMERICA TECHNOLOGIES, INC., US
[85] 2019-10-16
[86] 2018-04-20 (PCT/US2018/028631)
[87] (WO2018/195469)
[30] US (62/487,520) 2017-04-20

[11] **3,060,290**

[13] C

- [51] **Int.Cl. A61K 31/505 (2006.01) A61K 31/4985 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **COMBINATIONS FOR USE IN THE INHIBITION OF HIV-1**
[54] **COMBINAISONS A UTILISER POUR L'INHIBITION DU VIH-1**
[72] UNDERWOOD, MARK RICHARD, US
[73] VIIV HEALTHCARE COMPANY, US
[86] (3060290)
[87] (3060290)
[22] 2011-01-24
[62] 3,003,988
[30] US (61/298589) 2010-01-27

[11] **3,060,312**

[13] C

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[25] EN
[54] **SOLID CONTROLLED RELEASE CARBONATE DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES DE CARBONATE A LIBERATION CONTROLEE DE MATIERES SOLIDES**
[72] GELDERMAN, MAX, US
[72] MANSERGH, JOHN, US
[72] SKULAN, JOHN, US
[72] ROERDINK LANDER, MONIQUE, US
[73] ECOLAB USA INC., US
[85] 2019-10-16
[86] 2018-04-27 (PCT/US2018/029742)
[87] (WO2018/200927)
[30] US (62/490,959) 2017-04-27
[30] US (62/587,880) 2017-11-17

[11] **3,060,500**

[13] C

- [51] **Int.Cl. G06Q 10/10 (2012.01) H04W 4/08 (2009.01) H04W 4/14 (2009.01) H04L 12/16 (2006.01) H04M 3/46 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING A MULTI-CHANNEL COMMUNICATION SERVICE**
[54] **SYSTEMES ET METHODES DE FOURNITURE D'UN SERVICE DE COMMUNICATION MULTICANAL**
[72] NADALIN, ERIC, US
[72] STRATFORD, NEIL, US
[72] SELMER, ROLAND, US
[73] VONAGE BUSINESS INC., US
[86] (3060500)
[87] (3060500)
[22] 2017-04-07
[62] 3,020,697
[30] US (62/321659) 2016-04-12
[30] US (15/373904) 2016-12-09

[11] **3,061,246**

[13] C

- [51] **Int.Cl. E03D 9/08 (2006.01) A47K 7/08 (2006.01) A47K 10/48 (2006.01) A47K 13/24 (2006.01) E03D 9/00 (2006.01)**
[25] EN
[54] **DRYING NOZZLE APPARATUS**
[54] **SYSTEME DE BUSE DE SECHAGE**
[72] SCHWAB, BRIAN, US
[73] WHOLE BATH, LLC, US
[85] 2019-10-21
[86] 2017-05-06 (PCT/US2017/031483)
[87] (WO2017/193112)
[30] US (62/333,152) 2016-05-06
[30] US (15/588,637) 2017-05-06

[11] **3,062,084**

[13] C

- [51] **Int.Cl. F04B 47/04 (2006.01) F16H 61/4157 (2010.01) F16H 61/465 (2010.01) F04B 47/02 (2006.01)**
[25] EN
[54] **PUMP JACK ASSEMBLY**
[54] **ASSEMBLAGE DE CHEVALET DE POMPAGE**
[72] ABRAM, GORDON, CA
[72] HAARSTAD, TYLER, CA
[72] HAARSTAD, EVERETT, CA
[73] VARIABLE SPEED HYDRAULICS INC., CA
[86] (3062084)
[87] (3062084)
[22] 2019-11-20

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[11] **3,062,094**
[13] C

[51] **Int.Cl. E05B 15/00 (2006.01) E05B 15/02 (2006.01) F16P 3/08 (2006.01)**
[25] EN
[54] **LOCKING DEVICE WITH A GUARD LOCK FOR SAFETY DOORS**
[54] **DISPOSITIF DE VERROUILLAGE AVEC CADENAS DE GARDE POUR PORTES DE SECURITE**
[72] UHLENBROCK, CHRISTIAN, DE
[72] BUCHWALD, THOMAS, DE
[72] CEVIC, YASAR, DE
[72] GERBRACHT, TOBIAS, DE
[73] K.A. SCHMERSAL HOLDING GMBH & CO. KG, DE
[86] (3062094)
[87] (3062094)
[22] 2019-11-20
[30] DE (102018009217.9) 2018-11-23

[11] **3,062,336**
[13] C

[51] **Int.Cl. G06F 15/00 (2006.01) G06F 9/06 (2006.01) G06F 13/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CONTROLLING DATA ACCELERATION**
[54] **APPAREIL ET PROCEDE DE COMMANDE D'ACCELERATION DE DONNEES**
[72] GIBB, SEAN, CA
[72] BERTSCHMANN, ROGER, CA
[73] EIDETIC COMMUNICATIONS INC., CA
[85] 2019-11-04
[86] 2018-05-02 (PCT/CA2018/050520)
[87] (WO2018/201249)
[30] US (62/500,794) 2017-05-03

[11] **3,062,408**
[13] C

[51] **Int.Cl. H04L 27/26 (2006.01) H04W 74/08 (2009.01) H04J 13/00 (2011.01)**
[25] EN
[54] **METHOD FOR TRANSMITTING RANDOM ACCESS CHANNEL SIGNAL, USER EQUIPMENT, METHOD FOR RECEIVING RANDOM ACCESS CHANNEL SIGNAL, AND BASE STATION**
[54] **PROCEDE D'EMISSION D'UN SIGNAL DE CANAL D'ACCES ALEATOIRE, EQUIPEMENT D'UTILISATEUR, PROCEDE DE RECEPTION DE SIGNAL DE CANAL D'ACCES ALEATOIRE, ET STATION DE BASE**
[72] KIM, EUNSUN, KR
[72] KO, HYUNSOO, KR
[72] KIM, KIJUN, KR
[72] YOON, SUKHYON, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-11-04
[86] 2018-04-27 (PCT/KR2018/004959)
[87] (WO2018/203628)
[30] US (62/501,086) 2017-05-03
[30] US (62/507,752) 2017-05-17
[30] US (62/517,198) 2017-06-09
[30] US (62/535,941) 2017-07-23

[11] **3,062,636**
[13] C

[51] **Int.Cl. H04W 4/30 (2018.01) H04W 4/029 (2018.01) H02J 9/00 (2006.01) H04B 1/04 (2006.01) H04L 12/40 (2006.01) H04W 84/10 (2009.01) H01R 24/20 (2011.01)**
[25] EN
[54] **VEHICLE SYSTEM INCLUDING REMOTE START DATA BUS COMMAND SENDING BASED UPON A SHORT-RANGE LINK AND RELATED METHODS**
[54] **SYSTEME DE BORD DES VEHICULES COMPRENANT UN ENVOI DE COMMANDE DE BUS DE DONNEES DE DEMARRAGE A DISTANCE BASEE SUR UNE LIAISON A COURTE PORTEE ET PROCEDES CONNEXES**
[72] FLICK, KENNETH E., US
[73] OMEGA PATENTS, L.L.C., US
[86] (3062636)
[87] (3062636)
[22] 2019-11-26
[30] US (16/242,761) 2019-01-08

[11] **3,062,790**
[13] C

[51] **Int.Cl. G06V 30/41 (2022.01) G06T 7/194 (2017.01) G06V 30/184 (2022.01) H04N 1/00 (2006.01)**
[25] EN
[54] **OUT-OF-BOUNDS DETECTION OF A DOCUMENT IN A LIVE CAMERA FEED**
[54] **DETECTION HORS LIMITES D'UN DOCUMENT DANS UN FLUX DE CAMERA EN DIRECT**
[72] YELLAPRAGADA, VIJAY, US
[72] CHIANG, PEIJUN, US
[72] LEE, DANIEL, US
[72] HALL, JASON, US
[72] SOLIWAL, SHAILESH, US
[73] INTUIT INC., US
[85] 2019-11-07
[86] 2017-06-15 (PCT/US2017/037763)
[87] (WO2018/231238)
[30] US (15/623,113) 2017-06-14

[11] **3,063,422**
[13] C

[51] **Int.Cl. A47B 96/00 (2006.01) A47B 51/00 (2006.01) A47B 57/06 (2006.01) A47B 77/08 (2006.01)**
[25] EN
[54] **A LIFTING CABINET**
[54] **COFFRET ELEVATEUR**
[72] QIU, JIA SEN, CN
[73] CMECH (GUANGZHOU) LTD., CN
[86] (3063422)
[87] (3063422)
[22] 2019-11-29
[30] CN (201921261566.4) 2019-08-05
[30] CN (201910718438.6) 2019-08-05
[30] CN (201910718446.0) 2019-08-05
[30] CN (201910717730.6) 2019-08-05
[30] US (16/695,850) 2019-11-26
[30] US (16/695,789) 2019-11-26
[30] US (16/695,655) 2019-11-26
[30] US (16/695,659) 2019-11-26

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[11] **3,063,553**

[13] C

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/958 (2013.01)**

[25] EN

[54] **PROSTHETIC HEART VALVE**

[54] **VALVE CARDIAQUE PROSTHETIQUE**

[72] LEVI, TAMIR, US

[72] NGUYEN, SON V., US

[72] BENICHO, NETANEL, US

[72] MAIMON, DAVID, US

[72] YOHANAN, ZIV, US

[72] GUROVICH, NIK, US

[72] FELSEN, BELLA, US

[72] DADONKIN, LARISA, US

[73] EDWARDS LIFESCIENCES CORPORATION, US

[86] (3063553)

[87] (3063553)

[22] 2011-10-05

[62] 3,020,195

[30] US (61/390,107) 2010-10-05

[30] US (61/508,513) 2011-07-15

[11] **3,063,808**

[13] C

[51] **Int.Cl. F42B 3/00 (2006.01) B23D 15/14 (2006.01) B64D 17/38 (2006.01) F42B 10/56 (2006.01) F42C 7/12 (2006.01)**

[25] EN

[54] **CUTTING DEVICE**

[54] **DISPOSITIF DE COUPE**

[72] MODEREGGER, TOBIAS, DE

[72] GAISBAUER, RAINER, DE

[72] HUBER, BENJAMIN, AT

[72] LEOPOLD, THOMAS, DE

[73] RHEINMETALL WAFFE MUNITION GMBH, DE

[85] 2019-11-15

[86] 2018-06-11 (PCT/EP2018/065257)

[87] (WO2018/234071)

[30] DE (10 2017 113 857.9) 2017-06-22

[11] **3,063,848**

[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) F16K 3/314 (2006.01) F16K 11/072 (2006.01)**

[25] EN

[54] **A ROTARY VALVE WITH VALVE SEAT ENGAGEMENT COMPENSATION**

[54] **VANNE ROTATIVE A COMPENSATION DE MISE EN PRISE DE SIEGE DE VANNE**

[72] CHAMBERS, LARRY, US

[72] DEOLALIKAR, NEELESH, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2019-11-15

[86] 2017-07-17 (PCT/US2017/042357)

[87] (WO2019/017872)

[11] **3,064,376**

[13] C

[51] **Int.Cl. E03B 7/07 (2006.01)**

[25] EN

[54] **FLUSHING DEVICE AND POTABLE AND TAP WATER SYSTEM WITH SUCH A FLUSHING DEVICE**

[54] **DISPOSITIF DE RINCAGE ET SYSTEME D'EAU POTABLE ET DE ROBINET DOTE D'UN TEL DISPOSITIF DE RINCAGE**

[72] SPOLER, THOMAS, DE

[73] GEBR. KEMPER GMBH + CO. KG METALLWERKE, DE

[86] (3064376)

[87] (3064376)

[22] 2019-12-09

[30] DE (202018005791.6) 2018-12-13

[11] **3,065,029**

[13] C

[51] **Int.Cl. G01N 21/84 (2006.01) G02B 21/06 (2006.01)**

[25] EN

[54] **PREDICTING STRUCTURED ILLUMINATION PARAMETERS**
[54] **PREDICTION DE PARAMETRES D'ECLAIRAGE STRUCTURE**

[72] CARNEY, MICHAEL J., US

[72] HONG, STANLEY S., US

[72] LANGLOIS, ROBERT, US

[72] REN, HONGJI, US

[72] BARTIG, KEVIN WAYNE, US

[72] OTTO, RICO, US

[72] SOUVERNEVA, OLGA

ANDREEVNA, US

[73] ILLUMINA, INC, US

[85] 2019-12-13

[86] 2019-06-20 (PCT/US2019/038293)

[87] (WO2020/005718)

[30] US (62/692,303) 2018-06-29

[11] **3,065,262**

[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 17/88 (2006.01)**

[25] EN

[54] **UNIVERSAL NAVIGATION INSTRUMENT ADAPTER**
[54] **ADAPTATEUR UNIVERSEL D'INSTRUMENT DE NAVIGATION**

[72] LEQUETTE, SAMUEL, FR

[72] BIDEGAIMBERRY, NICOLAS, FR

[72] ROCHE, NICOLAS, FR

[72] RIGOTTO, DAVID, FR

[73] ZIMMER BIOMET SPINE, INC., US

[86] (3065262)

[87] (3065262)

[22] 2019-12-13

[30] US (62/780,800) 2018-12-17

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[11] **3,066,072**
[13] C

[51] **Int.Cl. F21V 29/70 (2015.01) F21K 9/00 (2016.01) F21K 9/68 (2016.01) F25D 1/00 (2006.01) F28D 21/00 (2006.01) H05K 7/20 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR LIGHTING FIXTURES**
[54] **SYSTEMES ET PROCEDES POUR APPAREILS D'ECLAIRAGE**

[72] DUONG, DUNG, US
[72] JOHNSON, RANDALL, US
[72] KLASE, NICHOLAS, US
[73] FLUENCE BIOENGINEERING, INC., US

[85] 2019-12-03
[86] 2018-05-25 (PCT/US2018/034544)
[87] (WO2018/226431)
[30] US (62/516,412) 2017-06-07
[30] US (15/684,665) 2017-08-23
[30] US (15/688,358) 2017-08-28
[30] US (15/697,149) 2017-09-06
[30] US (15/829,197) 2017-12-01
[30] US (15/859,409) 2017-12-30

[11] **3,067,056**
[13] C

[51] **Int.Cl. H04L 67/02 (2022.01) H04L 67/1004 (2022.01) H04L 67/101 (2022.01) H04L 67/562 (2022.01) H04L 69/163 (2022.01)**

[25] EN
[54] **ACCELERATION SYSTEM FOR FACILITATING PROCESSING OF API CALLS**
[54] **SYSTEME D'ACCELERATION PERMETTANT DE FACILITER LE TRAITEMENT D'APPELS API**

[72] POITREY, OLIVIER JEAN, US
[73] NETFLIX, INC., US
[85] 2019-12-11
[86] 2018-06-19 (PCT/US2018/038176)
[87] (WO2018/236795)
[30] US (15/628,509) 2017-06-20

[11] **3,067,107**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 30/72 (2006.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**

[25] EN
[54] **MARKERS FOR RENAL DISEASE**
[54] **MARQUEURS DE NEPHROPATHIES**

[72] YERRAMILI, MAHALAKSHMI, US
[72] ATKINSON, MICHAEL RANDOLPH, US
[72] YERRAMILI, MURTHY V. S. N., US
[73] IDEXX LABORATORIES, INC., US

[86] (3067107)
[87] (3067107)
[22] 2011-06-03
[62] 2,799,536
[30] US (61/351,183) 2010-06-03
[30] US (61/411,280) 2010-11-08

[11] **3,067,385**
[13] C

[51] **Int.Cl. G05B 19/042 (2006.01) F24F 11/52 (2018.01) G06F 3/048 (2013.01) G08B 5/36 (2006.01) G08B 13/00 (2006.01)**

[25] EN
[54] **USER INTERFACE MODULE FOR A BUILDING CONTROL SYSTEM**
[54] **MODULE D'INTERFACE UTILISATEUR POUR SYSTEME DE REGULATION DE BATIMENT**

[72] LEEN, CARY, US
[72] CHAN, FOONGYEEN, US
[72] ZHANG, DUO, US
[73] HONEYWELL INTERNATIONAL INC., US

[86] (3067385)
[87] (3067385)
[22] 2020-01-10
[30] US (16/246424) 2019-01-11

[11] **3,067,604**
[13] C

[51] **Int.Cl. G01W 1/08 (2006.01) B64G 1/10 (2006.01) G01S 1/00 (2006.01) G01S 19/03 (2010.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR WIDESPREAD LOW COST ORBITAL SATELLITE ACCESS**
[54] **SYSTEME ET PROCEDURE POUR UN ACCES PAR SATELLITE ORBITAL GENERALISE A BAS COUT**

[72] PLATZER, PETER, US
[73] SPIRE GLOBAL SUBSIDIARY, INC., US

[86] (3067604)
[87] (3067604)
[22] 2014-02-03
[62] 2,897,803
[30] US (13/757,062) 2013-02-01
[30] US (13/961,875) 2013-08-07
[30] US (13/961,384) 2013-08-07

[11] **3,067,628**
[13] C

[51] **Int.Cl. G21F 3/00 (2006.01) G01N 23/22 (2018.01) G21F 1/00 (2006.01) G21F 5/00 (2006.01) G21F 7/00 (2006.01) H01J 35/16 (2006.01)**

[25] EN
[54] **A SHIELDED X-RAY RADIATION APPARATUS**
[54] **APPAREIL BLINDE DE RAYONNEMENT DE RAYONS X**

[72] TICKNER, JAMES, AU
[73] CHRYSOS CORPORATION LIMITED, AU

[85] 2019-12-17
[86] 2017-06-23 (PCT/AU2017/050643)
[87] (WO2018/232435)

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[11] **3,067,990**
[13] C

[51] **Int.Cl. B29C 64/393 (2017.01) B33Y 10/00 (2015.01) B33Y 50/02 (2015.01) B29C 64/118 (2017.01) B22F 3/105 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR COMPENSATING FOR THERMAL EXPANSION DURING ADDITIVE MANUFACTURING**

[54] **PROCEDES ET APPAREIL POUR COMPENSER LA DILATATION THERMIQUE PENDANT UNE FABRICATION ADDITIVE**

[72] SUSNJARA, KENNETH J., US

[73] THERMWOOD CORPORATION, US

[85] 2019-12-19

[86] 2018-05-31 (PCT/US2018/035330)

[87] (WO2019/005413)

[30] US (15/636,789) 2017-06-29

[30] US (15/804,565) 2017-11-06

[11] **3,068,513**
[13] C

[51] **Int.Cl. H04J 11/00 (2006.01) H04J 4/00 (2006.01) H04L 1/00 (2006.01)**

[25] EN

[54] **BROADCAST SIGNAL TRANSMISSION APPARATUS, BROADCAST SIGNAL RECEPTION APPARATUS, BROADCAST SIGNAL TRANSMISSION METHOD, AND BROADCAST SIGNAL RECEPTION METHOD**

[54] **APPAREIL DE TRANSMISSION DE SIGNAUX DE DIFFUSION, APPAREIL DE RECEPTION DE SIGNAUX DE DIFFUSION, PROCEDE DE TRANSMISSION DE SIGNAUX DE DIFFUSION, ET PROCEDE DE RECEPTION DE SIGNAUX DE DIFFUSION**

[72] BAEK, JONGSEOB, KR

[72] KO, WOOSUK, KR

[72] HONG, SUNGRYONG, KR

[73] LG ELECTRONICS INC., KR

[86] (3068513)

[87] (3068513)

[22] 2015-07-07

[62] 2,973,073

[30] US (62/099,594) 2015-01-05

[11] **3,068,638**
[13] C

[51] **Int.Cl. F25C 1/00 (2006.01) F24H 15/136 (2022.01)**

[25] EN

[54] **HEATING CONTROL METHOD, DEVICE AND ICE MAKER**

[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE CHAUFFAGE ET MACHINE A GLACONS**

[72] ZHANG, JINGYU, CN

[72] LI, YU, CN

[72] WEI, DEMING, CN

[73] HEFEI MIDEA REFRIGERATOR CO., LTD., CN

[73] HEFEI HUALING CO., LTD., CN

[73] MIDEA GROUP CO., LTD., CN

[85] 2020-12-03

[86] 2019-06-10 (PCT/CN2019/090515)

[87] (WO2020/237716)

[30] CN (2019104702167) 2019-05-31

[11] **3,069,000**
[13] C

[51] **Int.Cl. H04B 3/54 (2006.01) B60R 16/023 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING POWER LINE COMMUNICATIONS BETWEEN MEMBERS OF A TRACTOR-TRAILER**

[54] **SYSTEME ET PROCEDE DE COMMANDE DE COMMUNICATIONS PAR COURANT PORTEUR EN LIGNE ENTRE DES ELEMENTS D'UN VEHICULE SEMI-REMORQUE**

[72] HAYES, THOMAS J., US

[72] ZULA, DANIEL P., US

[72] FASHURE, TIMOTHY J., US

[72] CHINCHOLI, AMIT N., US

[72] RETTER, JOCHEN, US

[73] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US

[85] 2020-01-03

[86] 2018-07-11 (PCT/US2018/041575)

[87] (WO2019/018171)

[30] US (15/652,290) 2017-07-18

[11] **3,069,136**
[13] C

[51] **Int.Cl. B26B 5/00 (2006.01)**

[25] EN

[54] **UTILITY KNIFE BLADE RETENTION MECHANISM**

[54] **MECANISME DE RETENUE DE LAME DE COUTEAU UNIVERSEL**

[72] DECHANT, STEPHEN P., US

[72] STOKES, STEVEN, US

[73] FISKARS BRANDS, INC., US

[85] 2020-01-06

[86] 2018-07-09 (PCT/US2018/041211)

[87] (WO2019/014093)

[30] US (15/649,325) 2017-07-13

[11] **3,069,862**
[13] C

[51] **Int.Cl. B62D 55/04 (2006.01) A01G 23/00 (2006.01)**

[25] EN

[54] **INTERCHANGEABLE TRACK SYSTEMS**

[54] **SYSTEMES DE RAILS INTERCHANGEABLES**

[72] JORDAN, GLYN, US

[72] REEVES, ROBERT, US

[73] G&R MANUFACTURED SOLUTIONS LLC, US

[86] (3069862)

[87] (3069862)

[22] 2020-01-27

[30] US (62/942434) 2019-12-02

[11] **3,070,029**
[13] C

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 90/57 (2016.01)**

[25] EN

[54] **CANNULA ATTACHMENT DEVICES AND METHODS FOR A SURGICAL ROBOTIC SYSTEM**

[54] **DISPOSITIFS DE FIXATION DE CANULE ET PROCEDES DESTINES A UN SYSTEME ROBOTIQUE CHIRURGICAL**

[72] SCHEIB, CHARLES J., US

[73] VERB SURGICAL INC., US

[85] 2020-01-14

[86] 2018-08-21 (PCT/US2018/047388)

[87] (WO2019/040531)

[30] US (62/548,292) 2017-08-21

[30] US (15/999,399) 2018-08-20

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[11] **3,070,623**
[13] C

[51] **Int.Cl. B01D 21/01 (2006.01) C02F 11/147 (2019.01) B03B 9/02 (2006.01) C02F 11/14 (2019.01) C10G 1/04 (2006.01) F26B 5/00 (2006.01) C02F 1/52 (2006.01)**

[25] EN

[54] **ENHANCED TECHNIQUES FOR DEWATERING THICK FINE TAILINGS**

[54] **TECHNIQUES AMELIOREES DE DESHYDRATATION DE RESIDUS FINS ET EPAIS**

[72] REVINGTON, ADRIAN PETER, CA

[72] SANCHEZ, ANA CRISTINA, CA

[72] BUGG, TREVOR, CA

[72] OMOTOSO, OLADIPO, CA

[73] SUNCOR ENERGY INC., CA

[86] (3070623)

[87] (3070623)

[22] 2013-06-21

[62] 2,874,093

[30] US (61/662,726) 2012-06-21

[11] **3,070,804**
[13] C

[51] **Int.Cl. F24F 11/30 (2018.01) F24F 11/49 (2018.01) F24F 11/56 (2018.01)**

[25] EN

[54] **MAPPING A LOOP OBJECT TO A FEEDBACK LOOP**

[54] **MAPPAGE D'UNE BOUCLE A UNE BOUCLE D'ASSERVISSEMENT**

[72] POLURI, NAGASREE, US

[72] P., SEEMA, US

[72] MAKAM, ANKITH, US

[72] KARUNAKARAN, DEENADAYALAN, US

[73] HONEYWELL INTERNATIONAL INC., US

[86] (3070804)

[87] (3070804)

[22] 2020-02-03

[30] US (16/268202) 2019-02-05

[11] **3,071,500**
[13] C

[51] **Int.Cl. B65D 85/32 (2006.01) B65D 57/00 (2006.01) B65D 71/00 (2006.01)**

[25] EN

[54] **UNIT FOR TRANSPORTING EGGS WITH INTERMEDIATE PARTITIONS**

[54] **UNITE DE TRANSPORT D'UFS AVEC CLOISONS INTERMEDIAIRES**

[72] GIORDANO, OSCAR, IT

[73] GIORDANO POULTRY PLAST S.P.A., IT

[85] 2020-01-29

[86] 2018-05-09 (PCT/IB2018/053224)

[87] (WO2019/102274)

[30] IT (202017000132954) 2017-11-21

[11] **3,071,767**
[13] C

[51] **Int.Cl. B01D 47/06 (2006.01) C01B 32/50 (2017.01) B01D 53/50 (2006.01) B01D 53/62 (2006.01) B01D 53/78 (2006.01)**

[25] EN

[54] **AIR POLLUTION CONTROL UNIT AND AIR POLLUTION CONTROL METHOD, AND CO2 RECOVERY UNIT AND CO2 RECOVERY METHOD**

[54] **DISPOSITIF DE TRAITEMENT DE GAZ, PROCEDE DE TRAITEMENT DE GAZ, DISPOSITIF DE RECUPERATION DE CO2 ET PROCEDE DE RECUPERATION DE CO2**

[72] HIRATA, TAKUYA, JP

[72] TANAKA, HIROSHI, JP

[72] INUI, MASAYUKI, JP

[72] KISHIMOTO, SHINYA, JP

[73] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP

[85] 2020-01-30

[86] 2018-10-24 (PCT/JP2018/039526)

[87] (WO2019/087901)

[30] JP (2017-210570) 2017-10-31

[11] **3,072,049**
[13] C

[51] **Int.Cl. G01S 7/41 (2006.01) G01S 13/86 (2006.01)**

[25] EN

[54] **GUIDEWAY MOUNTED VEHICLE LOCALIZATION AND ALIGNMENT SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE LOCALISATION ET D'ALIGNEMENT DE VEHICULE MONTE SUR UNE VOIE DE GUIDAGE**

[72] GREEN, ALON, CA

[72] KINIO, WALTER, CA

[72] TIMMERMANS, PETER, CA

[73] THALES CANADA INC., CA

[85] 2020-02-04

[86] 2018-09-27 (PCT/IB2018/057474)

[87] (WO2019/064209)

[30] US (62/564,212) 2017-09-27

[30] US (16/143,035) 2018-09-26

[11] **3,072,073**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01) F02N 11/12 (2006.01) H02J 7/02 (2016.01) H02J 7/32 (2006.01)**

[25] EN

[54] **RECHARGEABLE BATTERY JUMP STARTING DEVICE AND BATTERY FRAME**

[54] **DISPOSITIF DE DEMARRAGE DE RECHARGE DE BATTERIE RECHARGEABLE ET CADRE DE BATTERIE**

[72] NOOK, JONATHAN LEWIS, US

[72] NOOK, WILLIAM KNIGHT, US

[72] STANFIELD, JAMES RICHARD, US

[72] UNDERHILL, DEREK MICHAEL, US

[73] THE NOCO COMPANY, US

[85] 2020-02-04

[86] 2018-07-17 (PCT/US2018/042474)

[87] (WO2019/060027)

[30] US (62/561,850) 2017-09-22

[30] US (62/561,751) 2017-09-22

[30] US (62/567,479) 2017-10-03

[30] US (62/568,044) 2017-10-04

[30] US (62/568,967) 2017-10-06

[30] US (62/569,243) 2017-10-06

[30] US (29/621,403) 2017-10-06

[30] US (62/569,355) 2017-10-06

[30] US (62/562,713) 2017-09-25

[30] US (62/568,537) 2017-10-05

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[11] **3,072,188**
[13] C

- [51] **Int.Cl. H03K 19/195 (2006.01)**
[25] EN
[54] **TWO-INPUT TWO-OUTPUT SUPERCONDUCTING GATE**
[54] **PORTE SUPRACONDUCTRICE A DEUX ENTRES DEUX SORTIES**
[72] HERR, QUENTIN P., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2020-02-05
[86] 2018-08-03 (PCT/US2018/045192)
[87] (WO2019/040260)
[30] US (15/684,613) 2017-08-23

[11] **3,072,203**
[13] C

- [51] **Int.Cl. H04W 28/08 (2009.01) H04W 48/00 (2009.01) H04W 84/12 (2009.01)**
[25] EN
[54] **STATION STEERING BASED UPON COMPUTED CHANNEL IMPACT**
[54] **ORIENTATION DE STATION SUR LA BASE D'UN IMPACT DE CANAL CALCULE**
[72] LUMBATIS, KURT ALAN, US
[72] STRATER, JAY, US
[73] ARRIS ENTERPRISES LLC, US
[85] 2020-02-05
[86] 2018-08-24 (PCT/US2018/047917)
[87] (WO2019/046119)
[30] US (62/552,683) 2017-08-31
[30] US (16/111,671) 2018-08-24

[11] **3,072,890**
[13] C

- [51] **Int.Cl. G08G 1/14 (2006.01) G06Q 50/30 (2012.01) G08G 1/017 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR IDENTIFYING LOCATION OF A PARKED VEHICLE**
[54] **PROCEDE ET SYSTEME POUR IDENTIFIER UN EMPLACEMENT D'UN VEHICULE STATIONNE**
[72] NESER, MORNE, CA
[73] UBIQUA IQ LLC, US
[85] 2020-02-12
[86] 2018-07-18 (PCT/US2018/042720)
[87] (WO2019/045899)
[30] US (15/692,263) 2017-08-31

[11] **3,072,970**
[13] C

- [51] **Int.Cl. G01N 33/497 (2006.01) G01N 27/18 (2006.01) G01N 33/00 (2006.01)**
[25] EN
[54] **SENSOR ASSEMBLY COMPRISING A PRESSURE SENSOR AND A THERMAL GAS SENSOR**
[54] **ENSEMBLE DE CAPTEURS COMPRENANT UN CAPTEUR DE PRESSION ET UN CAPTEUR DE GAZ THERMIQUE**
[72] HEDRICH, FRANK, DE
[72] KATTINGER, GERHARD, DE
[72] STORZ, MATTHIAS, DE
[72] BRONNER, ROLF, DE
[72] BILLAT, SOPHIE, DE
[73] HAHN-SCHICKARD-GESELLSCHAFT FUER ANGEWANDTE FORSCHUNG E.V., DE
[73] GS ELEKTROMEDIZINISCHE GERAETE G. STEMPLER GMBH, DE
[85] 2020-02-13
[86] 2018-08-10 (PCT/EP2018/071838)
[87] (WO2019/034570)
[30] EP (17186145.3) 2017-08-14

[11] **3,072,983**
[13] C

- [51] **Int.Cl. C09D 4/00 (2006.01)**
[25] EN
[54] **RECYCLABLE COATINGS AND USE THEREOF FOR PRINTING REUSABLE PLASTICS**
[54] **REVETEMENTS RECYCLABLES ET LEUR UTILISATION POUR IMPRIMER DES PLASTIQUES RECYCLABLES**
[72] DE ROSSI, UMBERTO, DE
[72] BOLENDER, OLIVER, DE
[72] STEFFEN, TIMO, DE
[73] MANKIEWICZ GEBR. & CO. (GMBH & CO. KG), DE
[85] 2020-02-13
[86] 2018-08-14 (PCT/DE2018/100711)
[87] (WO2019/047994)
[30] DE (10 2017 008 456.4) 2017-09-10

[11] **3,073,169**
[13] C

- [51] **Int.Cl. G01N 27/80 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD OF DETECTING MAGNETIC CHARACTERISTIC CHANGE FOR LONG MATERIAL**
[54] **DISPOSITIF ET PROCEDE DE DETECTION DE PARTIE CHANGEANT DE PROPRIETE MAGNETIQUE D'UN MATERIAU ALLONGE**
[72] SUZUMA, TOSHIYUKI, JP
[72] NAKAO, YOSHIYUKI, JP
[72] OTA, YOSHIYUKI, JP
[73] NIPPON STEEL CORPORATION, JP
[85] 2020-02-14
[86] 2018-06-29 (PCT/JP2018/024754)
[87] (WO2019/087460)
[30] JP (PCT/JP2017/039076) 2017-10-30

[11] **3,073,376**
[13] C

- [51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **THERAPEUTIC HETEROCYCLIC COMPOUNDS**
[54] **COMPOSES HETEROCYCLIQUES THERAPEUTIQUES**
[72] BARTLETT, MARK J., US
[72] CORKEY, BRITTON KENNETH, US
[72] COSMAN, JENNIFER LEIGH, US
[72] ELBEL, KRISTYNA M., US
[72] ELZEIN, EIFATIH, US
[72] KALLA, RAO V., US
[72] KOLTUN, DMITRY, US
[72] LI, XIAOFEN, US
[72] PARKHILL, ERIC Q., US
[72] PERRY, THAO, US
[73] GILEAD SCIENCES, INC., US
[85] 2020-02-19
[86] 2018-08-20 (PCT/US2018/000349)
[87] (WO2019/040102)
[30] US (62/548,616) 2017-08-22
[30] US (62/556,748) 2017-09-11
[30] US (62/649,052) 2018-03-28

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[11] **3,073,381**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01)**
[25] EN
[54] **CHARGING CONTROL METHOD,
CHARGING CONTROL DEVICE
AND DEVICE TO BE CHARGED**
[54] **PROCEDE DE COMMANDE DE
CHARGE, DISPOSITIF DE
COMMANDE DE CHARGE ET
DISPOSITIF A CHARGER**
[72] CHEN, WEI, CN
[73] GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP.,
LTD., CN
[85] 2020-02-20
[86] 2018-12-21 (PCT/CN2018/122847)
[87] (WO2020/124595)

[11] **3,073,630**
[13] C

[51] **Int.Cl. B02C 18/22 (2006.01) B02C
23/02 (2006.01) B02C 25/00 (2006.01)**
[25] EN
[54] **SHREDDER DEVICE FOR
SHREDDING MATERIAL**
[54] **DISPOSITIF DE BROYAGE POUR
BROYER DE LA MATIERE**
[72] PISCHON, STEFAN, AT
[73] UNTHA SHREDDING
TECHNOLOGY GMBH, AT
[85] 2020-02-21
[86] 2018-08-20 (PCT/EP2018/072422)
[87] (WO2019/038227)
[30] EP (17187514.9) 2017-08-23

[11] **3,073,687**
[13] C

[51] **Int.Cl. E01F 9/623 (2016.01) E01F
15/14 (2006.01) E02D 5/60 (2006.01)
E04H 12/22 (2006.01)**
[25] EN
[54] **UTILITY POLE WITH ENERGY
ABSORBING LAYER**
[54] **POTEAU UTILITAIRE AVEC
COUCHE D'ABSORPTION
D'ENERGIE**
[72] SHI, HAIJIAN, US
[72] STEEG, RICHARD, US
[73] PEPCO HOLDINGS LLC, US
[85] 2020-02-21
[86] 2018-08-21 (PCT/US2018/047277)
[87] (WO2019/040466)
[30] US (62/550,192) 2017-08-25

[11] **3,074,376**
[13] C

[51] **Int.Cl. E21B 34/10 (2006.01)**
[25] EN
[54] **BIDIRECTIONAL DOWNHOLE
ISOLATION VALVE**
[54] **CLAPET D'ISOLEMENT DE FOND
DE TROU BIDIRECTIONNELLE**
[72] NOSKE, JOE, US
[73] WEATHERFORD TECHNOLOGY
HOLDINGS, LLC, US
[86] (3074376)
[87] (3074376)
[22] 2014-01-10
[62] 2,977,804
[30] US (61/754,294) 2013-01-18
[30] US (14/150,137) 2014-01-08

[11] **3,074,494**
[13] C

[51] **Int.Cl. A61F 13/15 (2006.01) A61F
13/49 (2006.01)**
[25] EN
[54] **BEAMED ELASTOMERIC
LAMINATE STRUCTURE, FIT,
AND TEXTURE**
[54] **STRUCTURE STRATIFIEE
ELASTOMERE EN FAISCEAUX,
AJUSTEMENT ET TEXTURE**
[72] LAVON, GARY DEAN, US
[72] SEITZ, BRET DARREN, US
[72] SCHNEIDER, UWE, US
[72] ECKSTEIN, JOSEPH ALLEN, US
[72] MELENDEZ, VANESSA MARIE, US
[72] TOURNOUX, MONICA R., US
[72] ROWLEY, CORINNE ASHLEY, US
[72] BRUNS, ELIZABETH JO, US
[73] THE PROCTER & GAMBLE
COMPANY, US
[85] 2020-02-28
[86] 2018-08-30 (PCT/US2018/048800)
[87] (WO2019/046552)
[30] US (62/553,149) 2017-09-01
[30] US (62/553,538) 2017-09-01
[30] US (62/553,171) 2017-09-01
[30] US (62/581,278) 2017-11-03
[30] US (15/832,929) 2017-12-06
[30] US (15/833,057) 2017-12-06
[30] US (15/838,405) 2017-12-12
[30] US (15/839,896) 2017-12-13
[30] US (15/846,391) 2017-12-19
[30] US (15/846,745) 2017-12-19
[30] US (15/846,382) 2017-12-19
[30] US (15/846,409) 2017-12-19
[30] US (15/846,433) 2017-12-19
[30] US (15/846,371) 2017-12-19
[30] US (15/846,349) 2017-12-19
[30] US (15/846,360) 2017-12-19
[30] US (15/846,341) 2017-12-19
[30] US (62/685,429) 2018-06-15
[30] US (62/686,896) 2018-06-19
[30] US (62/687,031) 2018-06-19
[30] US (16/115,617) 2018-08-29

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[11] **3,074,550**

[13] C

- [51] **Int.Cl. C22F 1/10 (2006.01) C22C 19/03 (2006.01)**
[25] EN
[54] **THERMALLY STABILIZED NICKEL-COBALT MATERIALS AND METHODS OF THERMALLY STABILIZING THE SAME**
[54] **MATERIAUX D'ALLIAGE NICKEL-COBALT THERMIQUEMENT STABILISES ET PROCÉDES DE STABILISATION THERMIQUE DE CEUX-CI**
[72] TAJIRI, GORDON, US
[72] PHELPS, EMILY MARIE, US
[72] SCHMITT, JOSEPH RICHARD, US
[72] KRISHNAN, LAKSHMI, US
[72] JONNALAGADDA, DATTU GURU VENKATA, IN
[72] SHIPLEY, GARY STEPHEN, US
[72] DVORAK, ASHLEY ROSE, US
[73] UNISON INDUSTRIES, LLC, US
[86] (3074550)
[87] (3074550)
[22] 2020-03-04
[30] US (62/818,270) 2019-03-14
[30] US (16/794,438) 2020-02-19

[11] **3,074,591**

[13] C

- [51] **Int.Cl. A24B 15/18 (2006.01)**
[25] EN
[54] **TOBACCO MATERIAL**
[54] **MATERIAU A BASE DE TABAC**
[72] NAGASE, RYOSUKE, JP
[72] HANAWA, KEIICHI, JP
[73] JAPAN TOBACCO INC., JP
[85] 2020-03-02
[86] 2017-09-05 (PCT/JP2017/031947)
[87] (WO2019/049207)

[11] **3,074,810**

[13] C

- [51] **Int.Cl. A61M 5/20 (2006.01)**
[25] EN
[54] **SYSTEM FOR CONTROLLING GAS GENERATION WITHIN A DRUG DELIVERY DEVICE**
[54] **SYSTEME DE COMMANDE DE LA GENERATION DE GAZ DANS UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] BENNISON, CORRIE JO, US
[72] DUONG, ANTHONY DAVID, US
[72] ELLIS, JEFFREY LECLAIR, US
[72] HARRISON, MICHAEL W., US
[72] KOURTIS, LAMPROS C., US
[72] SIRKAR, RHEA, US
[72] TALLARICO, JOHN PAUL, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-03-04
[86] 2018-08-31 (PCT/US2018/049048)
[87] (WO2019/050791)
[30] US (62/555,808) 2017-09-08

[11] **3,074,844**

[13] C

- [51] **Int.Cl. E21B 7/06 (2006.01) E21B 17/10 (2006.01)**
[25] EN
[54] **ROTARY STEERABLE SYSTEM HAVING ACTUATOR WITH LINKAGE**
[54] **SYSTEME ORIENTABLE ROTATIF AYANT UN ACTIONNEUR A TRINGLERIE**
[72] CONGER, ROBERT, US
[72] FARLEY, STEVEN, US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2020-03-04
[86] 2018-09-07 (PCT/US2018/050074)
[87] (WO2019/083621)
[30] US (15/796,844) 2017-10-29

[11] **3,075,057**

[13] C

- [51] **Int.Cl. F23G 7/08 (2006.01) F23D 14/46 (2006.01) F23J 15/00 (2006.01)**
[25] EN
[54] **LOW STEAM CONSUMPTION HIGH SMOKELESS CAPACITY WASTE GAS FLARE**
[54] **TORCHE A GAZ RESIDUAIRE A HAUTE CAPACITE DE FONCTIONNEMENT SANS FUMEE ET A FAIBLE CONSOMMATION DE VAPEUR**
[72] MARTIN, MATTHEW A, US
[72] MARTIN, RICHARD R, US
[72] KRAUS, KURT E, US
[72] JENNINGS, JAY D, US
[73] UOP LLC, US
[85] 2020-03-05
[86] 2018-09-10 (PCT/US2018/050171)
[87] (WO2019/055335)
[30] US (62/559,318) 2017-09-15

[11] **3,075,208**

[13] C

- [51] **Int.Cl. C07C 221/00 (2006.01) A61K 41/00 (2020.01) A61P 35/00 (2006.01) C07C 225/32 (2006.01) C07C 249/02 (2006.01) C07C 251/24 (2006.01)**
[25] EN
[54] **HYPOCRELLIN DERIVATIVE SUBSTITUTED BOTH IN A PERI-POSITION AND IN 2-POSITION BY AMINO, PREPARATION METHOD, AND APPLICATION THEREOF**
[54] **DERIVES D'HYPOCRELLINE AYANT UNE PERI-POSITION ET UNE POSITION 2 SIMULTANEMENT SUBSTITUES PAR DES GROUPES AMINO, PROCEDE DE PREPARATION ET LEUR APPLICATION**
[72] WANG, PENGFEI, CN
[72] WU, JIASHENG, CN
[72] LIU, WEIMIN, CN
[72] ZHENG, XIULI, CN
[72] GU, YING, CN
[73] TECHNICAL INSTITUTE OF PHYSICS AND CHEMISTRY OF THE CHINESE ACADEMY OF SCIENCES, CN
[85] 2020-03-06
[86] 2018-09-05 (PCT/CN2018/104124)
[87] (WO2019/047846)
[30] CN (201710794566.X) 2017-09-06
[30] CN (201811020381.4) 2018-09-03

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[11] **3,075,366**
[13] C

[51] **Int.Cl. C22B 7/04 (2006.01) C04B 5/00 (2006.01) C21B 3/06 (2006.01) C21B 3/08 (2006.01)**

[25] EN

[54] **METHOD OF CONTINUOUS MANUFACTURING OF SOLIDIFIED STEELMAKING SLAG AND ASSOCIATED DEVICE**

[54] **PROCEDE DE FABRICATION CONTINUE DE LAITIER D'ACIERIE SOLIDIFIE ET DISPOSITIF ASSOCIE**

[72] DE CONINCK, ERIC, BE

[72] INFANTE, IVONNE, BE

[72] MATTOS DOS SANTOS, RAFAEL, CA

[72] OUNOUGHENE, GHANIA, BE

[72] VAN GERVEN, THOMAS, BE

[73] ARCELORMITTAL, LU

[85] 2020-03-09

[86] 2017-09-28 (PCT/IB2017/055967)

[87] (WO2019/064052)

[11] **3,075,660**
[13] C

[51] **Int.Cl. E21B 43/04 (2006.01) E21B 43/08 (2006.01)**

[25] EN

[54] **EROSION RESISTANT SHUNT TUBE ASSEMBLY FOR WELLSCREEN**

[54] **ENSEMBLE TUBE DE DERIVATION RESISTANT A L'EROSION POUR FILTRE DE PUITS**

[72] SESSA, MICHAEL, US

[72] MCNAMEE, STEPHEN, US

[72] SLADIC, JOHN, US

[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[85] 2020-03-11

[86] 2018-10-29 (PCT/US2018/057931)

[87] (WO2019/099177)

[30] US (15/814,522) 2017-11-16

[30] US (15/954,129) 2018-04-16

[11] **3,076,175**
[13] C

[51] **Int.Cl. B05D 1/36 (2006.01) B05D 5/06 (2006.01) C09D 7/40 (2018.01) C09D 5/29 (2006.01) C09D 201/00 (2006.01)**

[25] EN

[54] **METHOD FOR FORMING MULTILAYER COATING FILM**

[54] **PROCEDE DE FORMATION D'UN FILM DE REVETEMENT MULTICOUCHE**

[72] NARITA, NOBUHIKO, JP

[72] OKAZAKI, HIROKAZU, JP

[72] KURAMOCHI, TATSUO, JP

[72] HIRAI, YUYA, JP

[73] KANSAI PAINT CO., LTD., JP

[85] 2020-03-17

[86] 2018-09-14 (PCT/JP2018/034242)

[87] (WO2019/054499)

[30] JP (2017-178443) 2017-09-18

[11] **3,076,213**
[13] C

[51] **Int.Cl. E21B 43/267 (2006.01) C09K 8/66 (2006.01) C09K 8/68 (2006.01) C09K 8/70 (2006.01) C09K 8/80 (2006.01)**

[25] EN

[54] **PULSED HYDRAULIC FRACTURING WITH NANOSILICA CARRIER FLUID**

[54] **FRACTURATION HYDRAULIQUE A IMPULSIONS AVEC FLUIDE PORTEUR DE NANOSILICE**

[72] GOMAA, AHMED M., SA

[72] NOAIMI, KHALID R., SA

[72] AL-MUNTASHERI, GHAITHAN A., SA

[72] BAGADER, NOOR OTHMAN, SA

[72] KALGAONKAR, RAJENDRA ARUNKUMAR, SA

[72] HUANG, JIN, SA

[73] SAUDI ARABIAN OIL COMPANY, SA

[85] 2020-03-17

[86] 2018-09-19 (PCT/US2018/051687)

[87] (WO2019/060378)

[30] US (15/711,955) 2017-09-21

[11] **3,076,464**
[13] C

[51] **Int.Cl. C23C 2/02 (2006.01) C21D 1/76 (2006.01) C21D 9/46 (2006.01) C21D 9/56 (2006.01) C23C 2/06 (2006.01) C23C 2/28 (2006.01) C23C 2/40 (2006.01) C23C 28/02 (2006.01)**

[25] EN

[54] **A METHOD FOR THE MANUFACTURE OF A GALVANNEALED STEEL SHEET**

[54] **PROCEDE PERMETTANT LA FABRICATION D'UNE TOLE D'ACIER RECUIE PAR GALVANISATION**

[72] CHAKRABORTY, ANIRBAN, US

[72] GHASSEMI-ARMAKI, HASSAN, US

[73] ARCELORMITTAL, LU

[85] 2020-03-19

[86] 2018-10-19 (PCT/IB2018/058158)

[87] (WO2019/082038)

[30] IB (PCT/IB2017/001279) 2017-10-24

[11] **3,076,676**
[13] C

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 3/00 (2006.01) C22B 7/02 (2006.01) C22B 19/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE TREATMENT OF IRON-CONTAINING SLUDGE**

[54] **PROCEDE DE TRAITEMENT DE BOUE CONTENANT DU FER**

[72] KERZERHO, GAELLE, FR

[72] BOUCARD, HELENE, FR

[72] IOSIF, ANA-MARIA, FR

[73] ARCELORMITTAL, LU

[85] 2020-03-20

[86] 2018-12-13 (PCT/IB2018/060013)

[87] (WO2019/123138)

[30] IB (PCT/IB2017/058327) 2017-12-22

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[11] **3,077,012**
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) G06F 21/30 (2013.01) E03B 1/02 (2006.01) H04L 9/06 (2006.01) H04L 9/08 (2006.01) H04L 9/30 (2006.01) H04L 12/22 (2006.01)**

[25] EN

[54] **PHYSICALLY SECURED AUTHORIZATION FOR UTILITY APPLICATIONS**

[54] **AUTORISATION SECURISEE PHYSIQUEMENT DESTINEE A DES APPLICATIONS DE SERVICE DE DISTRIBUTION**

[72] VASWANI, RAJ, US

[72] YEUNG, WILSON CHUEN YEW, US

[72] SEIBERT, CRISTINA, US

[72] BOLYARD, NELSON BRUCE, US

[72] DAMM, BENJAMIN N., US

[72] STJOHNS, MICHAEL C., US

[73] ITRON NETWORKED SOLUTIONS, INC., US

[86] (3077012)

[87] (3077012)

[22] 2011-10-11

[62] 2,816,989

[30] US (12/939,702) 2010-11-04

[11] **3,077,019**
[13] C

[51] **Int.Cl. B64C 1/00 (2006.01) H01M 4/136 (2010.01) H01M 10/0525 (2010.01) B64C 1/40 (2006.01) H01M 10/44 (2006.01) H02N 99/00 (2006.01)**

[25] EN

[54] **PANELS FOR A CABIN OF AN AIRCRAFT**

[54] **PANNEAUX POUR UNE CABINE D'AERONEF**

[72] BLANCO VARELA, TAMARA, ES

[72] LINDE, PETER, DE

[73] AIRBUS OPERATIONS GMBH, DE

[73] AIRBUS OPERATIONS, S.L.U., ES

[86] (3077019)

[87] (3077019)

[22] 2020-03-24

[30] EP (19382241.8) 2019-04-02

[11] **3,077,252**
[13] C

[51] **Int.Cl. F27D 3/15 (2006.01) C21B 7/14 (2006.01) C21B 11/10 (2006.01)**

[25] EN

[54] **SLAG DOOR FOR A MELTING FURNACE**

[54] **PORTE A SCORIES POUR UN FOUR DE FUSION**

[72] DA COSTA, PAULO, IT

[72] SCOTTI, FRANCO, IT

[72] BURIN, PAOLO, IT

[73] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT

[86] (3077252)

[87] (3077252)

[22] 2020-03-27

[30] IT (102019000004789) 2019-03-29

[11] **3,077,496**
[13] C

[51] **Int.Cl. B64D 25/00 (2006.01) B60R 21/16 (2006.01) B60R 21/231 (2011.01) B64D 11/00 (2006.01)**

[25] EN

[54] **EMERGENCY VISION DEVICE USING SPRING WIRE LOOPS**

[54] **DISPOSITIF DE VISION D'URGENCE UTILISANT DES BOUCLES DE FIL A RESSORT**

[72] WERJEFELT, ALEXANDER K., US

[73] WERJEFELT, ALEXANDER K., US

[85] 2020-03-30

[86] 2018-09-24 (PCT/US2018/052343)

[87] (WO2019/070430)

[30] US (62/568,043) 2017-10-04

[30] US (16/138,191) 2018-09-21

[11] **3,077,560**
[13] C

[51] **Int.Cl. F16F 9/48 (2006.01) B60G 13/06 (2006.01) B60G 17/08 (2006.01) F16F 9/06 (2006.01)**

[25] EN

[54] **SUSPENSION SYSTEM AND VEHICLE**

[54] **SUSPENSION ET VEHICULE**

[72] KUBOTA, TAKAHIKO, JP

[73] YAMAHA HATSUDOKI KABUSHIKI KAISHA, JP

[86] (3077560)

[87] (3077560)

[22] 2020-04-01

[30] JP (2019-070175) 2019-04-01

[11] **3,077,780**
[13] C

[51] **Int.Cl. B64C 25/42 (2006.01) B60T 8/17 (2006.01)**

[25] FR

[54] **PILOTAGE PROCESS FOR A BRAKING DEVICE**

[54] **PROCEDE DE PILOTAGE D'UN DISPOSITIF DE FREINAGE**

[72] LESTAGE, JEAN-BAPTISTE, FR

[72] BRUN, EMMANUEL, FR

[72] GRAILLAT, TIPHAINE, FR

[73] SAFRAN LANDING SYSTEMS, FR

[86] (3077780)

[87] (3077780)

[22] 2020-04-02

[30] FR (1903701) 2019-04-05

[11] **3,078,077**
[13] C

[51] **Int.Cl. B65D 1/42 (2006.01) A45F 3/20 (2006.01) A47G 19/03 (2006.01) A47G 19/23 (2006.01) B65D 21/02 (2006.01)**

[25] EN

[54] **CONTAINER HAVING ENHANCED WALL INTEGRITY AND ALIGNMENT ELEMENT**

[54] **CONTENANT AVEC PAROIS PRESENTANT UNE INTEGRITE ACCRUE ET ELEMENT D'ALIGNEMENT**

[72] TOMALIA, DON, US

[72] TROMBLEY, JOE, US

[72] BRUSHABER, PETE, US

[72] LIMING, MIKE, US

[73] HUHTAMAKI, INC., US

[86] (3078077)

[87] (3078077)

[22] 2012-06-12

[62] 2,779,879

[30] US (13/162,307) 2011-06-16

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[11] **3,078,105**
[13] C

[51] **Int.Cl. H01R 13/52 (2006.01) H01R 24/20 (2011.01) H01R 24/28 (2011.01) H01R 24/62 (2011.01) H01R 13/627 (2006.01) H01R 13/66 (2006.01) H01R 31/06 (2006.01)**

[25] EN

[54] **CONNECTOR SYSTEM FOR WEARABLE ARTICLES**

[54] **SYSTEME DE CONNECTEUR POUR DES ARTICLES A PORTER**

[72] MILLER, KEITH EDWIN, US

[72] THACKSTON, KEVIN MICHAEL, US

[72] MULFINGER, ROBERT NEIL, US

[73] TE CONNECTIVITY CORPORATION, US

[85] 2020-03-30

[86] 2018-09-28 (PCT/IB2018/057556)

[87] (WO2019/069200)

[30] US (62/568,992) 2017-10-06

[30] US (15/968,840) 2018-05-02

[11] **3,078,222**
[13] C

[51] **Int.Cl. F21V 29/74 (2015.01) F21V 29/76 (2015.01) F21K 9/00 (2016.01) F21V 11/16 (2006.01)**

[25] EN

[54] **HIGH INTENSITY LED ILLUMINATION DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE A DEL HAUTE INTENSITE**

[72] CASPER, JOSEPH R., IE

[72] NOLAN, CHRISTOPHER D., IE

[72] WITKOWSKI, JOSEPH J., IE

[72] SHUSTER, JEFF R., IE

[72] WILSON, BRIAN M., IE

[73] SIGNIFY HOLDING B.V., NL

[86] (3078222)

[87] (3078222)

[22] 2014-12-17

[62] 2,875,019

[30] US (61/917,030) 2013-12-17

[11] **3,078,529**
[13] C

[51] **Int.Cl. B60C 11/16 (2006.01) B60C 1/00 (2006.01)**

[25] EN

[54] **TIRE STUD FOR ANCHORING IN A TIRE STUD HOLE OF A TREAD OF A PNEUMATIC VEHICLE TIRE**

[54] **CRAMPON DESTINE A ETRE ANCRE DANS UN TROU DE CRAMPON D'UNE BANDE DE ROULEMENT D'UN PNEUMATIQUE DE VEHICULE**

[72] SCHLITTENHARD, JAN, DE

[73] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE

[85] 2020-04-06

[86] 2018-07-26 (PCT/EP2018/070285)

[87] (WO2019/091609)

[30] DE (10 2017 219 915.6) 2017-11-09

[11] **3,078,943**
[13] C

[51] **Int.Cl. B62D 35/00 (2006.01) B62D 37/02 (2006.01)**

[25] EN

[54] **RESILIENT GAP REDUCING SUPPORT STRUCTURES AND METHODS**

[54] **STRUCTURES DE SUPPORT DE REDUCTION D'ESPACEMENT ELASTIQUE ET PROCEDES**

[72] BRADLEY, CALVIN RHETT, US

[72] BAXTER, PARKER, US

[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2020-04-09

[86] 2017-10-25 (PCT/US2017/058192)

[87] (WO2019/083518)

[11] **3,079,094**
[13] C

[51] **Int.Cl. A61F 2/90 (2013.01)**

[25] EN

[54] **STENT WITH ATRAUMATIC SPACER**

[54] **STENT AVEC ESPACEUR ATRAUMATIQUE**

[72] FOLAN, MARTYN G., IE

[73] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2020-04-14

[86] 2018-10-24 (PCT/US2018/057308)

[87] (WO2019/084136)

[30] US (62/576,890) 2017-10-25

[11] **3,079,162**
[13] C

[51] **Int.Cl. A61M 39/10 (2006.01) A61M 5/142 (2006.01)**

[25] EN

[54] **SINGLE-USE DISPOSABLE SET CONNECTOR**

[54] **CONNECTEUR POUR DISPOSITIF JETABLE A USAGE UNIQUE**

[72] SOKOLOV, RICHARD, AU

[72] CULLEN, BENJAMIN JAMES, AU

[72] NORCOTT, ALISON RUTH, AU

[72] HUESO MONIS, ERNESTO, AU

[72] LAW, KAMMAN, AU

[72] PROFACA, MARK SILVIO, AU

[72] HAURY, JOHN A., US

[72] SWANTNER, MICHAEL, US

[73] BAYER HEALTHCARE LLC, US

[86] (3079162)

[87] (3079162)

[22] 2015-01-09

[62] 2,936,234

[30] US (61/925,940) 2014-01-10

[11] **3,079,630**
[13] C

[51] **Int.Cl. B23G 1/34 (2006.01) B23C 5/20 (2006.01) B23C 5/28 (2006.01) B23G 5/00 (2006.01) B23G 5/18 (2006.01)**

[25] EN

[54] **WHIRLING TOOL**

[54] **OUTIL DE FILETAGE A LA VOLEE**

[72] KANNWISCHER, MARKUS, DE

[73] HARTMETALL-WERKZEUGFABRIK PAUL HORN GMBH, DE

[85] 2020-04-20

[86] 2018-11-20 (PCT/EP2018/081882)

[87] (WO2019/097074)

[30] DE (10 2017 127 307.7) 2017-11-20

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[11] **3,079,817**

[13] C

- [51] **Int.Cl. E21B 47/12 (2012.01) E21B 17/00 (2006.01)**
[25] EN
[54] **ALTERNATING POLARITY OF CASING-SIDE ANTENNAS IN A WELLBORE**
[54] **POLARITE ALTERNEE D'ANTENNES COTE BOITIER DANS UN PUIT DE FORAGE**
[72] HAGEN, TROND, NO
[72] MILTON, CHRISTOPHER, NO
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-04-21
[86] 2017-12-26 (PCT/US2017/068420)
[87] (WO2019/132859)

[11] **3,079,896**

[13] C

- [51] **Int.Cl. B60C 11/13 (2006.01) B60C 11/03 (2006.01) B60C 11/12 (2006.01)**
[25] EN
[54] **PNEUMATIC VEHICLE TYRE**
[54] **PNEUMATIQUE DE VEHICULE**
[72] SCHLITTENHARD, JAN, DE
[72] BAUER, CLAUDIA, DE
[73] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE
[85] 2020-04-08
[86] 2018-09-11 (PCT/EP2018/074364)
[87] (WO2019/105624)
[30] DE (10 2017 221 582.8) 2017-11-30

[11] **3,080,041**

[13] C

- [51] **Int.Cl. F21S 4/10 (2016.01) F21K 9/00 (2016.01) F21K 9/90 (2016.01)**
[25] EN
[54] **ELECTRODELESS SURFACE-MOUNTED LED STRING LIGHT, METHOD AND APPARATUS FOR MANUFACTURING THE SAME**
[54] **LUMIERE A BANDE DE DEL INSTALLEE EN SURFACE SANS ELECTRODE, METHODE ET APPAREIL DE FABRICATION**
[72] SHAN, XIWAN, CN
[72] YANG, TUXIU, CN
[72] AL, YUNDONG, CN
[72] ZHANG, JIE, CN
[72] LI, QUNLIN, CN
[72] LIU, QIMING, CN
[72] YAN, SU, CN
[72] LIU, YANYONG, CN
[72] HE, JUNCHAO, CN
[72] CAI, JIAHUI, CN
[72] CHEN, YUE, CN
[73] ZHUHAI BOJAY ELECTRONICS CO., LTD., CN
[86] (3080041)
[87] (3080041)
[22] 2020-05-01
[30] CN (201910843987.6) 2019-09-06

[11] **3,080,163**

[13] C

- [51] **Int.Cl. A47B 73/00 (2006.01) A47F 3/08 (2006.01) F25D 25/00 (2006.01)**
[25] EN
[54] **WINE CABINET WITH STORAGE AND DISPLAY CHAMBERS**
[54] **ARMOIRE A VIN AVEC CHAMBRES DE STOCKAGE ET D'AFFICHAGE**
[72] PANG, PETER WAI TUNG, HK
[73] COOGAN COMPANY LIMITED, HK
[86] (3080163)
[87] (3080163)
[22] 2020-05-04
[30] HK (19123854.2) 2019-05-15

[11] **3,080,539**

[13] C

- [51] **Int.Cl. F21S 4/10 (2016.01) F21K 9/00 (2016.01) F21K 9/90 (2016.01)**
[25] EN
[54] **ELECTRODELESS SIDE-MOUNTED LED STRING LIGHT, METHOD AND APPARATUS FOR MANUFACTURING THE SAME**
[54] **LUMIERE A BANDE DE DEL INSTALLEE LATERALEMENT SANS ELECTRODE, METHODE ET APPAREIL DE FABRICATION**
[72] SHAN, XIWAN, CN
[72] YANG, TUXIU, CN
[72] AI, YUNDONG, CN
[72] ZHANG, JIE, CN
[72] LI, QUNLIN, CN
[72] LIU, QIMING, CN
[72] YAN, SU, CN
[72] LIU, YANYONG, CN
[72] HE, JUNCHAO, CN
[72] CAI, JIAHUI, CN
[72] CHEN, YUE, CN
[73] ZHUHAI BOJAY ELECTRONICS CO., LTD., CN
[86] (3080539)
[87] (3080539)
[22] 2020-05-05
[30] CN (201910843961.1) 2019-09-06

[11] **3,080,650**

[13] C

- [51] **Int.Cl. A63B 71/06 (2006.01) A63B 35/00 (2006.01) A63B 69/12 (2006.01) A63G 31/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **APPARATUS FOR EXPERIENCING A VIRTUAL REALITY SIMULATION IN AN UNDERWATER WORLD**
[54] **DISPOSITIF PERMETTANT DE VIVRE UNE SIMULATION DE REALITE VIRTUELLE DANS UN ENVIRONNEMENT SOUS-MARIN**
[72] WAGNER, MIRIAM CORINNA, DE
[73] VR COASTER GMBH & CO. KG, DE
[85] 2020-04-28
[86] 2018-10-05 (PCT/EP2018/077210)
[87] (WO2019/091675)
[30] EP (17201430.0) 2017-11-13

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[11] **3,080,684**
[13] C

[51] **Int.Cl. A24B 15/16 (2020.01)**
[25] EN
[54] **FLAVOURED VAPORISABLE FORMULATION**
[54] **FORMULATION VAPORISABLE AROMATISEE**
[72] MATHIE, KLAUS, GB
[72] BAILEY, CHELSEA ELIZABETH, GB
[72] ROBERTS, STUART, GB
[72] PENA, MARIA MONTSERRAT SANCHEZ, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2020-04-28
[86] 2018-10-31 (PCT/GB2018/053137)
[87] (WO2019/086857)
[30] GB (1718033.2) 2017-11-01

[11] **3,080,717**
[13] C

[51] **Int.Cl. E21B 47/09 (2012.01) E21B 47/024 (2006.01)**
[25] EN
[54] **CORRECTION METHOD FOR END-OF-PIPE EFFECT ON MAGNETIC RANGING**
[54] **PROCEDE DE CORRECTION POUR UN EFFET DE FIN DE CONDUITE LORS D'UNE TELEMETRIE MAGNETIQUE**
[72] FAN, YIJING, SG
[72] DONDERICI, BURKAY, US
[72] WU, HSU-HSIANG, US
[72] PAN, LI, SG
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-04-28
[86] 2017-12-21 (PCT/US2017/067990)
[87] (WO2019/125475)

[11] **3,081,005**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **MOBILE, MODULAR, ELECTRICALLY POWERED SYSTEM FOR USE IN FRACTURING UNDERGROUND FORMATIONS USING LIQUID PETROLEUM GAS**
[54] **SYSTEME ALIMENTE ELECTRIQUEMENT, MODULAIRE ET MOBILE DESTINE A ETRE UTILISE DANS LA FRACTURATION DE FORMATIONS SOUTERRAINES AU MOYEN DE GAZ DE PETROLE LIQUEFIE**
[72] COLI, TODD, CA
[72] SCHELSKE, ELDON, CA
[73] TYPHON TECHNOLOGY SOLUTIONS, LLC, US
[86] (3081005)
[87] (3081005)
[22] 2013-10-04
[62] 2,829,422
[30] US (61/710,393) 2012-10-05
[30] US (13/804,906) 2013-03-14

[11] **3,081,107**
[13] C

[51] **Int.Cl. E04F 15/02 (2006.01) B32B 27/08 (2006.01) C08L 27/06 (2006.01) E04F 15/18 (2006.01)**
[25] EN
[54] **PVC BOARD AND METHOD OF MANUFACTURE**
[54] **PLANCHE EN PVC ET PROCEDE DE FABRICATION**
[72] CHENG, QUANSHAN, CN
[72] XUE, GENXIANG, CN
[72] YUAN, JUN, CN
[73] TAIZHOU HUALI PLASTIC CO., LTD., CN
[85] 2020-04-30
[86] 2017-05-03 (PCT/CN2017/082829)
[87] (WO2018/201309)

[11] **3,081,202**
[13] C

[51] **Int.Cl. C21D 8/04 (2006.01) C21D 1/25 (2006.01) C21D 9/48 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01)**
[25] EN
[54] **COLD ROLLED AND ANNEALED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME**
[54] **TOLE D'ACIER LAMINEE A FROID RECUITE ET SON PROCEDE DE FABRICATION**
[72] ZHU, KANGYING, FR
[72] PERLADE, ASTRID, FR
[72] JUNG, CORALIE, FR
[72] KEGEL, FREDERIC, FR
[73] ARCELORMITTAL, LU
[85] 2020-04-30
[86] 2018-11-21 (PCT/IB2018/059162)
[87] (WO2019/111084)
[30] IB (PCT/IB2017/001520) 2017-12-05

[11] **3,081,516**
[13] C

[51] **Int.Cl. F24H 15/45 (2022.01) F24H 9/25 (2022.01) F24H 15/225 (2022.01) F24H 15/37 (2022.01) F24D 19/10 (2006.01) F24H 1/20 (2006.01) H05B 1/02 (2006.01)**
[25] EN
[54] **WATER HEATER AND METHOD OF OPERATING A WATER HEATER**
[54] **CHAUFFE-EAU ET PROCEDE DE FONCTIONNEMENT D'UN CHAUFFE-EAU**
[72] BRANECKY, BRIAN T., US
[73] A. O. SMITH CORPORATION, US
[86] (3081516)
[87] (3081516)
[22] 2014-02-27
[62] 2,844,196
[30] US (13/834,929) 2013-03-15

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[11] **3,081,601**
[13] C

[51] **Int.Cl. A61C 7/00 (2006.01) A61C 7/08 (2006.01) A61C 7/36 (2006.01) A61C 19/06 (2006.01)**

[25] EN

[54] **VIBRATION DEVICE FOR DENTAL USE AND ORTHODONTIC CORRECTION METHOD**

[54] **APPAREIL DE VIBRATION POUR UTILISATION DENTAIRE ET CORRECTION ORTHODONTIQUE**

[72] HUNG, CHENG-HSIANG, CN

[73] HUNG, CHENG-HSIANG, CN

[86] (3081601)

[87] (3081601)

[22] 2020-05-26

[30] US (62/853307) 2019-05-28

[11] **3,081,733**
[13] C

[51] **Int.Cl. B64C 29/02 (2006.01) B64C 27/26 (2006.01) B64C 39/02 (2006.01) B64D 1/02 (2006.01)**

[25] EN

[54] **LOGISTICS SUPPORT AIRCRAFT HAVING A MINIMAL DRAG CONFIGURATION**

[54] **AERONEF DE SOUTIEN LOGISTIQUE AYANT UNE CONFIGURATION DE TRAINEE MINIMALE**

[72] MCCULLOUGH, JOHN RICHARD, US

[72] OLDROYD, PAUL K., US

[72] ISBELL, GLENN EDWARD, US

[72] HILL, MATTHEW JOHN, US

[73] TEXTRON INNOVATIONS INC., US

[86] (3081733)

[87] (3081733)

[22] 2020-05-29

[30] US (16/427,311) 2019-05-30

[11] **3,082,309**
[13] C

[51] **Int.Cl. F25B 9/00 (2006.01) F25B 5/02 (2006.01) F25B 6/04 (2006.01) F25B 40/00 (2006.01)**

[25] EN

[54] **SUBCRITICAL CO2 REFRIGERATION SYSTEM USING THERMAL STORAGE**

[54] **SYSTEME DE REFRIGERATION DE CO2 SOUS-CRITIQUE UTILISANT UN STOCKAGE THERMIQUE**

[72] STREET, NORMAN E., US

[72] FOWLER, TOBEY D., US

[72] MONSON, NEIL, US

[72] SCHAEFFER, WAYNE G., US

[73] HUSSMANN CORPORATION, US

[85] 2020-05-11

[86] 2017-11-10 (PCT/US2017/061169)

[87] (WO2019/094031)

[11] **3,082,357**
[13] C

[51] **Int.Cl. C23C 2/02 (2006.01) C21D 1/76 (2006.01) C21D 9/56 (2006.01) C23C 2/06 (2006.01) C23C 2/28 (2006.01) C23C 2/40 (2006.01) C23C 28/02 (2006.01) C25D 3/56 (2006.01)**

[25] EN

[54] **A METHOD FOR THE MANUFACTURING OF LIQUID METAL EMBRITTLEMENT RESISTANT ZINC COATED STEEL SHEET**

[54] **PROCEDE POUR LA FABRICATION D'UNE TOLE D'ACIER REVETUE DE ZINC RESISTANT A LA FRAGILISATION PAR METAL LIQUIDE**

[72] CHAKRABORTY, ANIRBAN, US

[72] GHASSEMI-ARMAKI, HASSAN, US

[72] BERTHO, PASCAL, FR

[72] ALLELY, CHRISTIAN, FR

[73] ARCELORMITTAL, LU

[85] 2020-05-08

[86] 2018-11-15 (PCT/IB2018/058991)

[87] (WO2019/097440)

[30] IB (PCT/IB2017/057196) 2017-11-17

[11] **3,082,644**
[13] C

[51] **Int.Cl. E05G 1/026 (2006.01) A47G 29/124 (2006.01) A47G 29/20 (2006.01) E05B 65/00 (2006.01) E05G 1/02 (2006.01) E05G 1/04 (2006.01)**

[25] EN

[54] **THEFT-RESISTANT DEPOSIT BOX**

[54] **BOITE DE DEPOT ANTIVOL**

[72] BOLLES, DAVID J., US

[73] BOLLES, DAVID J., US

[86] (3082644)

[87] (3082644)

[22] 2020-06-05

[30] US (16/432,863) 2019-06-05

[11] **3,083,046**
[13] C

[51] **Int.Cl. B63B 21/08 (2006.01) B21F 15/06 (2006.01) B63B 35/68 (2006.01) F16G 11/00 (2006.01)**

[25] EN

[54] **LINE HANDLING SYSTEM FOR A TUGBOAT**

[54] **SYSTEME DE MANIPULATION DE LIGNE POUR REMORQUEUR**

[72] BANGSLUND, THOMAS, DK

[73] SVITZER A/S, DK

[85] 2020-05-20

[86] 2018-11-19 (PCT/EP2018/081820)

[87] (WO2019/097066)

[30] GB (1719231.1) 2017-11-20

[11] **3,083,152**
[13] C

[51] **Int.Cl. C08L 83/04 (2006.01)**

[25] EN

[54] **CROSSLINKABLE COMPOUNDS BASED ON ORGANYLOXY GROUP-CONTAINING ORGANOPOLYSILOXANES**

[54] **MASSES RETICULABLES A BASE D'ORGANOPOLYSILOXANES COMPORTANT DES GROUPES ORGANYLOXY**

[72] SCHINDLER, WOLFRAM, DE

[73] WACKER CHEMIE AG, DE

[85] 2020-05-21

[86] 2018-06-01 (PCT/EP2018/064471)

[87] (WO2019/228643)

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[11] **3,083,396**
[13] C

[51] **Int.Cl. H02M 1/00 (2007.10) B23K 11/11 (2006.01) B23K 11/24 (2006.01) G01R 31/27 (2006.01) G01R 31/40 (2020.01) H02M 7/48 (2007.01)**

[25] EN
[54] **INVERTER POWER SUPPLY**
[54] **DISPOSITIF DE SOURCE D'ALIMENTATION D'ONDULEUR**

[72] OCHIALI, YOSHIHIKO, JP
[72] SATO, SHINICHI, JP
[72] FUCHIWAKI, MOTOAKI, JP
[73] DENGENSHA TOA CO., LTD., JP
[85] 2020-05-22
[86] 2019-08-08 (PCT/JP2019/031519)
[87] (WO2020/095501)
[30] JP (2018-210024) 2018-11-07

[11] **3,083,606**
[13] C

[51] **Int.Cl. A01C 7/04 (2006.01) A01C 19/00 (2006.01) A01C 19/02 (2006.01)**

[25] EN
[54] **PNEUMATIC SINGLE-GRAIN SOWING MACHINE**
[54] **SEMOIR MONOGRaine PNEUMATIQUE**

[72] BULMAHN, SIMON, DE
[72] WIEN, THOMAS, DE
[73] AMAZONEN-WERKE H. DREYER GMBH & CO. KG, DE
[85] 2020-05-26
[86] 2018-12-10 (PCT/EP2018/084101)
[87] (WO2019/121085)
[30] DE (10 2017 130 709.5) 2017-12-20

[11] **3,083,725**
[13] C

[51] **Int.Cl. B65D 23/08 (2006.01) B65D 77/06 (2006.01)**

[25] FR
[54] **BOTTLE IN PARTICULAR FOR BEVERAGES, IN PARTICULAR FOR ALCOHOLIC BEVERAGES, OR FOR COSMETIC PRODUCTS OR FRAGRANCES**

[54] **BOUEILLE EN PARTICULIER POUR BOISSONS NOTAMMENT POUR BOISSONS ALCOOLISEES OU POUR PRODUITS COSMETIQUES OU PARFUMS**

[72] DE GAVELLE DE ROANY, JAMES, FR
[72] LAURENT, SEVERINE, FR
[73] GREEN GEN TECHNOLOGIES, FR
[85] 2020-05-20
[86] 2018-12-13 (PCT/FR2018/053272)
[87] (WO2019/115961)
[30] FR (1762244) 2017-12-15

[11] **3,083,956**
[13] C

[51] **Int.Cl. A62C 3/00 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING AND CONTROLLING FIRE SUPPRESSION SYSTEMS IN COMMERCIAL KITCHENS**

[54] **SYSTEME ET PROCEDE POUR SURVEILLER ET COMMANDER DES SYSTEMES DE SUPPRESSION D'INCENDIE DANS DES CUISINES COMMERCIALES**

[72] GRIFFIN, WILLIAM BRIAN, US
[72] GLAUB, WILLIAM EARLE, US
[72] AMBROSE, BRADY JAY, US
[72] BEARD, JESSE, US
[73] CAPTIVE-AIRE SYSTEMS, INC., US
[85] 2020-05-29
[86] 2018-11-19 (PCT/US2018/061721)
[87] (WO2019/112782)
[30] US (15/831,816) 2017-12-05

[11] **3,084,118**
[13] C

[51] **Int.Cl. B28B 17/00 (2006.01) B29C 64/209 (2017.01) B29C 48/30 (2019.01) B29C 35/16 (2006.01) B29C 41/08 (2006.01) B29C 70/64 (2006.01)**

[25] EN
[54] **SYSTEM FOR FEEDING FILAMENT TO A NOZZLE IN AN ADDITIVE MANUFACTURING MACHINE BACKGROUND**

[54] **SYSTEME D'ALIMENTATION EN FILAMENT D'UNE BUSE DANS UN ARRIERE-PLAN DE MACHINE DE FABRICATION ADDITIVE**

[72] BESIM, BULENT, AU
[72] WEATHERLY, STEPHEN, US
[73] BESIM, BULENT, AU
[85] 2020-06-01
[86] 2018-11-30 (PCT/IB2018/059487)
[87] (WO2019/106612)
[30] US (15/828,439) 2017-12-01

[11] **3,084,306**
[13] C

[51] **Int.Cl. C23F 17/00 (2006.01) C21D 1/26 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22F 1/16 (2006.01) C23C 2/02 (2006.01) C23C 2/06 (2006.01) C23C 2/08 (2006.01) C23C 2/12 (2006.01) C23C 2/26 (2006.01)**

[25] EN
[54] **A HOT-DIP COATED STEEL SUBSTRATE**

[54] **SUBSTRAT EN D'ACIER REVETU PAR IMMERSION A CHAUD**

[72] BORDIGNON, MICHEL, BE
[72] STAUDTE, JONAS, FR
[73] ARCELORMITTAL, LU
[85] 2020-06-02
[86] 2018-10-22 (PCT/IB2018/058185)
[87] (WO2019/123033)
[30] IB (PCT/IB2017/058107) 2017-12-19

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[11] **3,084,309**
[13] C

[51] **Int.Cl. C22C 38/02 (2006.01) C09D 7/40 (2018.01) C09D 1/00 (2006.01) C09D 5/00 (2006.01) C21D 1/70 (2006.01) C22C 38/04 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/54 (2006.01) C22C 38/58 (2006.01) C08K 3/04 (2006.01)**

[25] EN
[54] **A COATED STEEL SUBSTRATE**
[54] **SUBSTRAT D'ACIER REVETU**
[72] LALIENA IRANZO, CARLOS, ES
[72] PEREZ RODRIGUEZ, MARCOS, ES
[73] ARCELORMITTAL, LU
[85] 2020-06-02
[86] 2018-12-11 (PCT/IB2018/059873)
[87] (WO2019/123105)
[30] IB (PCT/IB2017/058105) 2017-12-19

[11] **3,084,331**
[13] C

[51] **Int.Cl. C23C 14/24 (2006.01) C23C 14/56 (2006.01)**

[25] EN
[54] **VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE**
[54] **INSTALLATION DE DEPOT SOUS VIDE ET PROCEDE POUR LE REVETEMENT D'UN SUBSTRAT**
[72] SILBERBERG, ERIC, BE
[72] SCHMITZ, BRUNO, BE
[72] PACE, SERGIO, BE
[72] BONNEMANN, REMY, BE
[72] MARNEFFE, DIDIER, BE
[73] ARCELORMITTAL, LU
[85] 2020-06-02
[86] 2018-12-11 (PCT/IB2018/059858)
[87] (WO2019/116215)
[30] IB (PCT/IB2017/057946) 2017-12-14

[11] **3,084,532**
[13] C

[51] **Int.Cl. B23C 3/35 (2006.01)**

[25] EN
[54] **IDENTIFICATION MODULE FOR KEY MAKING MACHINE**
[54] **MODULE D'IDENTIFICATION POUR MACHINE DE FABRICATION DE CLES**
[72] GRICE, BYRON KEITH, US
[72] CAMPBELL, JOHN CLAYTON, US
[72] SCHMIDT, MICHAEL JAMES, US
[72] GERLINGS, PHILLIP, US
[73] THE HILLMAN GROUP, INC., US
[86] (3084532)
[87] (3084532)
[22] 2014-08-06
[62] 2,920,629
[30] US (61/866,603) 2013-08-16
[30] US (61/904,810) 2013-11-15
[30] US (14/263,595) 2014-04-28

[11] **3,084,708**
[13] C

[51] **Int.Cl. C10G 67/02 (2006.01)**

[25] EN
[54] **METHOD FOR REDUCING FOULING IN CATALYTIC CRACKING**
[54] **PROCEDE DE REDUCTION DE L'ENCRASSEMENT DANS LE CRAQUAGE CATALYTIQUE**
[72] PAASIKALLIO, VILLE, FI
[72] TOUKONIITTY, BLANKA, FI
[72] PASANEN, JUKKA-PEKKA, FI
[73] NESTE OYJ, FI
[85] 2020-06-04
[86] 2018-12-20 (PCT/EP2018/086112)
[87] (WO2019/129626)
[30] FI (20176186) 2017-12-29

[11] **3,085,138**
[13] C

[51] **Int.Cl. A62B 7/00 (2006.01) A61M 16/00 (2006.01) A61M 16/08 (2006.01) B63C 11/24 (2006.01)**

[25] EN
[54] **SPRING BRIDGE FOR A SPRING BRIDGE BREATHING BAG PLATE SYSTEM OF A CLOSED-CIRCUIT RESPIRATOR, SPRING BRIDGE BREATHING BAG PLATE SYSTEM AS WELL AS CLOSED-CIRCUIT RESPIRATOR**
[54] **CLOISON FLEXIBLE POUR UN SYSTEME DE PLAQUES DE SAC RESPIRATOIRE ET DE CLOISONS FLEXIBLES D'UN APPAREIL RESPIRATOIRE A CIRCUIT FERME, SYSTEME DE PLAQUES DE SAC RESPIRATOIRE ET DE CLOISONS FLEXIBLES AINSI QU'APPAREIL RESPIRATOIRE A CIRCUIT FERME**
[72] WILHELM, CHRISTIAN, DE
[72] DUPJAN, MATTHIAS, DE
[72] KIRMSE, SOREN, DE
[73] DRAGER SAFETY AG & CO. KGAA, DE
[85] 2020-05-28
[86] 2018-11-19 (PCT/EP2018/081703)
[87] (WO2019/115159)
[30] DE (10 2017 011 581.8) 2017-12-14

[11] **3,085,798**
[13] C

[51] **Int.Cl. F24C 15/20 (2006.01)**

[25] EN
[54] **WIND OUTLET MECHANISM FOR RANGE HOOD**
[54] **MECANISME DE SORTIE D'AIR POUR HOTTE DE CUISINE**
[72] XU, ZHINENG, CN
[72] CHEN, ANLIN, CN
[72] CAI, FAN, CN
[72] YU, TING, CN
[73] NINGBO FOTILE KITCHEN WARE CO., LTD., CN
[85] 2020-06-15
[86] 2019-01-28 (PCT/CN2019/073377)
[87] (WO2019/149169)
[30] CN (201820170365.2) 2018-01-31

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[11] **3,085,991**
[13] C

[51] **Int.Cl. F01N 3/24 (2006.01) B60K 13/04 (2006.01) F01N 1/02 (2006.01) F01N 3/022 (2006.01)**

[25] EN

[54] **EXHAUST GAS PURIFICATION DEVICE**

[54] **DISPOSITIF D'EPURATION DES GAZ D'ECHAPPEMENT**

[72] KONNO, ATSUSHI, JP

[73] KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, JP

[85] 2020-06-11

[86] 2019-01-17 (PCT/JP2019/001199)

[87] (WO2019/146479)

[30] JP (2018-012904) 2018-01-29

[11] **3,086,468**
[13] C

[51] **Int.Cl. E06B 3/66 (2006.01)**

[25] EN

[54] **INSULATING GLAZING UNIT**

[54] **ENSEMBLE VITRAGE ISOLANT**

[72] HOLTSTIEGE, THOMAS, DE

[72] DROGE, ALICIA, DE

[72] EFFERTZ, CHRISTIAN, DE

[72] MARJAN, CHRISTOPHER, DE

[73] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2020-06-19

[86] 2019-05-08 (PCT/EP2019/061758)

[87] (WO2019/219461)

[30] EP (18172066.5) 2018-05-14

[11] **3,086,715**
[13] C

[51] **Int.Cl. C08G 18/73 (2006.01) C09D 7/43 (2018.01) C08G 18/10 (2006.01) C08G 18/28 (2006.01) C08G 18/32 (2006.01) C08G 18/75 (2006.01) C08G 18/76 (2006.01) C08G 18/80 (2006.01)**

[25] EN

[54] **UREA AND URETHANE GROUP CONTAINING ANTI-SETTLING RHEOLOGY CONTROL ADDITIVE**

[54] **ADDITIF DE REGULATION RHEOLOGIQUE ANTISEDIMENTATION CONTENANT UN GROUPE UREE ET UN GROUPE URETHANE**

[72] KNAPPKE-BONGARTZ, CHRISTIANE, DE

[72] NAGELSDIEK, RENE, DE

[72] BUHNE, SYLVIA, DE

[72] VON HAAREN, JAN, DE

[72] KLEIN, AGNETHA, DE

[72] VERLINDEN, CHRISTOPH, DE

[73] BYK-CHEMIE GMBH, DE

[85] 2020-06-19

[86] 2018-12-20 (PCT/EP2018/086342)

[87] (WO2019/122213)

[30] EP (17209556.4) 2017-12-21

[11] **3,086,901**
[13] C

[51] **Int.Cl. A61B 90/30 (2016.01)**

[25] EN

[54] **HANDLE ASSEMBLY FOR A SURGICAL LIGHTING SYSTEM**

[54] **ENSEMBLE POIGNEE POUR SYSTEME D'ECLAIRAGE CHIRURGICAL**

[72] HOLLOPETER, MICHAEL, US

[72] BELLOWS, LANCE CLARK, US

[72] SANDERS, JILL, US

[72] WESTENFELDER, DAVID A., II, US

[73] AMERICAN STERILIZER COMPANY, US

[85] 2020-06-24

[86] 2018-12-27 (PCT/US2018/067588)

[87] (WO2019/139780)

[30] US (15/865,333) 2018-01-09

[30] US (16/146,072) 2018-09-28

[11] **3,087,034**
[13] C

[51] **Int.Cl. F01K 23/02 (2006.01) F01D 15/10 (2006.01) F01D 17/14 (2006.01) F02C 6/14 (2006.01)**

[25] EN

[54] **MODULAR THERMAL STORAGE**

[54] **STOCKAGE THERMIQUE MODULAIRE**

[72] APTE, RAJ, US

[72] LAROCHELLE, PHILIPPE, US

[72] GREEN, JULIAN, US

[73] MALTA INC., US

[85] 2020-06-25

[86] 2017-12-18 (PCT/US2017/067049)

[87] (WO2018/125638)

[30] US (15/396,461) 2016-12-31

[11] **3,087,084**
[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 18/12 (2006.01) A61N 1/39 (2006.01)**

[25] EN

[54] **BALLOON CATHETER**

[54] **CATHETER A BALLONNET**

[72] YAGI, TAKAHIRO, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2020-06-25

[86] 2019-02-08 (PCT/JP2019/004537)

[87] (WO2019/156195)

[30] JP (2018-021634) 2018-02-09

[11] **3,087,301**
[13] C

[51] **Int.Cl. A61B 17/115 (2006.01) A61B 17/326 (2006.01)**

[25] EN

[54] **HANDLE ASSEMBLY AND STAPLER INCLUDING THE SAME**

[54] **ENSEMBLE POIGNEE ET AGRAFEUSE COMPRENANT CE DERNIER**

[72] CHEN, ZHI, CN

[72] GUO, YI, CN

[72] LIN, JIANG, CN

[72] XU, XIAOWEI, CN

[73] TOUCHSTONE INTERNATIONAL MEDICAL SCIENCE CO., LTD., CN

[85] 2020-06-11

[86] 2018-12-12 (PCT/CN2018/120697)

[87] (WO2019/128719)

[30] CN (201711435672.5) 2017-12-26

[30] CN (201721849675.9) 2017-12-26

[30] CN (201711434138.2) 2017-12-26

[30] CN (201721846890.3) 2017-12-26

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[11] **3,087,607**
[13] C

[51] **Int.Cl. B01J 23/06 (2006.01) B01J 23/00 (2006.01)**
[25] EN
[54] **CATALYST AND METHOD FOR PREPARING LIGHT OLEFIN USING DIRECT CONVERSION OF SYNGAS**
[54] **CATALYSEUR ET PROCEDE POUR LA CONVERSION DIRECTE DE GAZ DE SYNTHESE EN OLEFINES A FAIBLE TENEUR EN CARBONE**
[72] PAN, XIULIAN, CN
[72] JIAO, FENG, CN
[72] BAO, XINHE, CN
[72] LI, NA, CN
[73] DALIAN INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES, CN
[85] 2020-07-03
[86] 2019-01-28 (PCT/CN2019/073384)
[87] (WO2019/144950)
[30] CN (201810079238.6) 2018-01-26

[11] **3,087,783**
[13] C

[51] **Int.Cl. A61J 15/00 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **RETENTION COMPONENT FOR PLACEMENT OF ENTERAL FEEDING TUBES**
[54] **ELEMENT DE RETENTION POUR LE PLACEMENT DE SONDAS D'ALIMENTATION ENTERALES**
[72] TAI, KOK-MING, US
[72] BAGWELL, ALISON S., US
[72] MCMICHAEL, DONALD J., US
[72] BECKER, NEIL M., US
[72] TARCAU, BENONE, US
[73] AVENT, INC., US
[86] (3087783)
[87] (3087783)
[22] 2013-09-12
[62] 2,885,815
[30] US (61/707,318) 2012-09-28
[30] US (13/674,514) 2012-11-12

[11] **3,088,545**
[13] C

[51] **Int.Cl. F41H 1/02 (2006.01)**
[25] FR
[54] **BAG CARRIER AND APPARATUS COMPRISING SUCH A BAG CARRIER**
[54] **PORTE-SAC ET EQUIPEMENT COMPRENANT UN TEL PORTE-SAC**
[72] GRENIER, JORDANE, FR
[72] MENETRIER, MARC, FR
[73] SAFRAN ELECTRONICS & DEFENSE, FR
[73] SARL MKM, FR
[85] 2020-07-14
[86] 2019-01-22 (PCT/EP2019/051420)
[87] (WO2019/145268)
[30] FR (1850534) 2018-01-23

[11] **3,088,964**
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 17/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DIVERTING LOAD WITHIN A CUT-TO-RELEASE PACKER**
[54] **PROCEDE ET APPAREIL DE DEVIATION DE CHARGE A L'INTERIEUR D'UNE GARNITURE D'ETANCHEITE A LIBERATION PAR DECOUPE**
[72] BURCKHARD, SHANE ROBERT, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-07-17
[86] 2018-03-14 (PCT/US2018/022491)
[87] (WO2019/177605)

[11] **3,090,023**
[13] C

[51] **Int.Cl. F16J 15/34 (2006.01)**
[25] EN
[54] **SLIP RING SEAL ARRANGEMENT WITH SPLIT SHAFT SLEEVE**
[54] **ENSEMBLE JOINT D'ETANCHEITE A BAGUES DE GLISSEMENT POURVU D'UN MANCHON D'ARBRE DIVISE**
[72] RICHTER, STEFAN, DE
[72] MATUSCHEK, ALFRED, DE
[72] STEIGENBERGER, HANS, DE
[73] EAGLEBURGMANN GERMANY GMBH & CO. KG, DE
[85] 2020-07-30
[86] 2019-01-22 (PCT/EP2019/051436)
[87] (WO2019/162015)
[30] DE (10 2018 202 681.5) 2018-02-22

[11] **3,090,113**
[13] C

[51] **Int.Cl. B01D 53/047 (2006.01)**
[25] EN
[54] **REDUCING FLUCTUATIONS IN TAIL GAS FLOW AND FUEL PROPERTY FROM AN ADSORPTION UNIT**
[54] **REDUCTION DES FLUCTUATIONS DANS L'ECOULEMENT DES GAZ DU POINT D'ANCRAGE ET CARACTERISTIQUE DE CARBURANT D'UNE UNITE D'ABSORPTION**
[72] PENG, XIANG-DONG, US
[72] D'ADDIO, ELIZABETH M., US
[72] HUFTON, JEFFREY RAYMOND, US
[72] ZHANG, YU, US
[73] AIR PRODUCTS AND CHEMICALS, INC., US
[86] (3090113)
[87] (3090113)
[22] 2020-08-14
[30] US (16/546,460) 2019-08-21

[11] **3,090,490**
[13] C

[51] **Int.Cl. E02B 3/02 (2006.01)**
[25] EN
[54] **DEVICE FOR A SEDIMENT TRANSFER IN WATERS, AND ALSO A METHOD FOR A TRANSFER OF SEDIMENT IN WATERS**
[54] **DISPOSITIF POUR UN TRANSFERT DE SEDIMENT DANS DES ETENDUES D'EAU AINSI QUE PROCEDE POUR UN TRANSFERT DE SEDIMENT DANS DES ETENDUES D'EAU**
[72] DETERING, MICHAEL, DE
[73] DETERING, MICHAEL, DE
[85] 2020-08-05
[86] 2019-01-14 (PCT/EP2019/050802)
[87] (WO2019/161996)
[30] DE (10 2018 104 038.5) 2018-02-22

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[11] **3,090,834**
[13] C

[51] **Int.Cl. A62C 37/12 (2006.01) A62C 31/02 (2006.01) A62C 35/00 (2006.01) A62C 37/00 (2006.01) A62C 37/08 (2006.01) B05B 1/26 (2006.01)**

[25] EN

[54] **FIRE SUPPRESSION SPRINKLER AND DEFLECTOR**

[54] **GICLEUR D'INCENDIE ET DEFLECTEUR**

[72] WANCHO, THOMAS F., US

[73] VICTAULIC COMPANY, US

[85] 2020-08-07

[86] 2019-02-22 (PCT/US2019/019213)

[87] (WO2019/173067)

[30] US (62/640,208) 2018-03-08

[11] **3,090,949**
[13] C

[51] **Int.Cl. D21H 21/14 (2006.01) D21H 19/14 (2006.01) D21H 21/50 (2006.01)**

[25] EN

[54] **PACKAGING MATERIAL WITH ABSORPTION FEATURES**

[54] **MATERIAU DE CONDITIONNEMENT PRESENTANT DES CARACTERISTIQUES D'ABSORPTION**

[72] BATES, AARON, US

[73] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2020-08-10

[86] 2019-03-22 (PCT/US2019/023584)

[87] (WO2019/190913)

[30] US (62/648,633) 2018-03-27

[11] **3,091,886**
[13] C

[51] **Int.Cl. B60B 30/06 (2006.01)**

[25] EN

[54] **WHEEL HOLDING DEVICE**

[54] **DISPOSITIF DE RETENUE DE ROUE**

[72] FUNATO, JUNJI, JP

[73] CENTRAL MOTOR WHEEL CO., LTD., JP

[85] 2020-08-20

[86] 2018-02-22 (PCT/JP2018/006420)

[87] (WO2019/163049)

[11] **3,092,055**
[13] C

[51] **Int.Cl. G01V 1/20 (2006.01) G01V 1/28 (2006.01)**

[25] EN

[54] **SEISMIC DATA ACQUISITION USING DESIGNED NON-UNIFORM RECEIVER SPACING**

[54] **ACQUISITION DE DONNEES SISMIQUES UTILISANT UN ESPACEMENT VOLONTAIREMENT NON UNIFORME DES RECEPTEURS**

[72] EICK, PETER M., US

[72] BREWER, JOEL D., US

[73] SHEARWATER GEOSERVICES SOFTWARE INC., US

[86] (3092055)

[87] (3092055)

[22] 2011-06-08

[62] 2,800,127

[30] US (61/353,089) 2010-06-09

[30] US (61/353,095) 2010-06-09

[11] **3,092,661**
[13] C

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/513 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **CD73 INHIBITORS**

[54] **INHIBITEURS DE CD73**

[72] DALLY, ROBERT DEAN, US

[72] GARCIA PAREDES, MARIA CRISTINA, US

[72] HEINZ, LAWRENCE JOSEPH II, US

[72] HOWELL, JENNIFER MARIE, US

[72] NJOROGÉ, FRANK GEORGE, US

[72] WANG, YAN, US

[72] ZHAO, GENSHI, US

[73] ELI LILLY AND COMPANY, US

[85] 2020-08-31

[86] 2019-02-22 (PCT/US2019/019074)

[87] (WO2019/168744)

[30] US (62/636,978) 2018-03-01

[30] US (62/775,553) 2018-12-05

[11] **3,092,855**
[13] C

[51] **Int.Cl. B22D 21/00 (2006.01) B22C 9/02 (2006.01)**

[25] EN

[54] **NICKEL CONTAINING HYPEREUTECTIC ALUMINUM-SILICON SAND CAST ALLOY**

[54] **ALLIAGE COULE EN SABLE D'ALUMINIUM ET DE SILICIUM HYPEREUTECTIQUE CONTENANT DU NICKEL**

[72] DONAHUE, RAYMOND J., US

[72] CLEARY, TERRANCE M., US

[72] ANDERSON, KEVIN R., US

[73] BRUNSWICK CORPORATION, US

[86] (3092855)

[87] (3092855)

[22] 2014-02-11

[62] 2,900,770

[30] US (13/828,765) 2013-03-14

[11] **3,093,497**
[13] C

[51] **Int.Cl. C23C 2/00 (2006.01) C23C 2/40 (2006.01)**

[25] EN

[54] **METHOD FOR DIP-COATING A METAL STRIP**

[54] **PROCEDE DE REVETEMENT PAR IMMERSION D'UNE BANDE METALLIQUE**

[72] GARCIA MARTINO, ANGEL, ES

[72] GARCIA-CHAPA, INOCENCIO, ES

[73] ARCELORMITTAL, LU

[85] 2020-09-10

[86] 2019-02-14 (PCT/IB2019/051190)

[87] (WO2019/175684)

[30] IB (PCT/IB2018/051603) 2018-03-12

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[11] **3,094,852**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01) A61B 5/06 (2006.01) A61B 17/15 (2006.01) A61B 17/17 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR KNEE SURGERY WITH INERTIAL SENSORS**

[54] **PROCEDES ET DISPOSITIFS POUR LA CHIRURGIE DU GENOU POURVUS DE CAPTEUR INERTIELS**

[72] MAHFOUZ, MOHAMED R., US

[73] TECHMAH MEDICAL LLC, US

[85] 2020-09-22

[86] 2019-06-20 (PCT/US2019/038164)

[87] (WO2019/246357)

[30] US (62/687,462) 2018-06-20

[11] **3,095,797**
[13] C

[51] **Int.Cl. E04H 15/14 (2006.01) E04H 15/54 (2006.01)**

[25] EN

[54] **VENTILATED TENT**

[54] **TENTE PERMETTANT LE PASSAGE DU VENT**

[72] TANG, GUOLIANG, CN

[73] CHANGZHOU XINYA OUTDOOR METAL PRODUCTS CO. LTD., CN

[85] 2020-10-01

[86] 2018-07-02 (PCT/CN2018/093984)

[87] (WO2020/000494)

[30] CN (201820992146.2) 2018-06-26

[11] **3,095,949**
[13] C

[51] **Int.Cl. F23D 14/34 (2006.01) F23N 3/00 (2006.01) F23N 5/12 (2006.01)**

[25] EN

[54] **HEATING DEVICE AND METHOD FOR REGULATING A FAN-OPERATED GAS BURNER**

[54] **DISPOSITIF CHAUFFANT ET PROCEDE DESTINE A REGLER UN BRULEUR A GAZ FONCTIONNANT PAR SOUFFLERIE**

[72] HOFLINGER, ULRICH, DE

[72] LAUX, WILHELM, DE

[73] TRUMA GERATETECHNIK GMBH & CO. KG, DE

[85] 2020-09-30

[86] 2019-08-20 (PCT/EP2019/072226)

[87] (WO2020/038919)

[30] DE (10 2018 120 377.2) 2018-08-21

[11] **3,096,826**
[13] C

[51] **Int.Cl. C10G 7/12 (2006.01) C10G 11/00 (2006.01)**

[25] EN

[54] **STRUCTURED PACKING FOR CATALYTIC DISTILLATION**

[54] **GARNITURE STRUCTUREE POUR DISTILLATION CATALYTIQUE**

[72] CHEN, LIANG, US

[72] LOEZOS, PETER, US

[72] LEW, PERRY, US

[72] TOMSULA, BRYAN, US

[72] GROTEN, WILLIBRORD A., US

[72] PODREBARAC, GARY G., US

[73] LUMMUS TECHNOLOGY LLC, US

[85] 2020-10-09

[86] 2019-04-04 (PCT/US2019/025791)

[87] (WO2019/199571)

[30] US (62/656,219) 2018-04-11

[11] **3,097,722**
[13] C

[51] **Int.Cl. A61K 31/34 (2006.01) A61K 9/00 (2006.01) A61K 45/06 (2006.01) A61P 37/02 (2006.01) C07D 493/04 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR THE TREATMENT OF MULTIPLE SCLEROSIS**

[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE LA SCLEROSE EN PLAQUES**

[72] CHAUDHURI, RATAN K., US

[72] BOJANOWSKI, KRZYSZTOF, US

[73] SYMBIONYX PHARMACEUTICALS, INC., US

[85] 2020-10-19

[86] 2019-05-01 (PCT/US2019/030189)

[87] (WO2019/213249)

[30] US (62/665,890) 2018-05-02

[30] US (16/400,360) 2019-05-01

[11] **3,098,740**
[13] C

[51] **Int.Cl. E05F 15/695 (2015.01) B60J 1/17 (2006.01) B60R 16/023 (2006.01) H01H 13/70 (2006.01)**

[25] EN

[54] **POWER WINDOW SYNC SWITCH**

[54] **INTERRUPTEUR DE SYNCHRONISATION DE GLACE A COMMANDE ELECTRIQUE**

[72] BUCKLEY, RICHARD OSWALD NEVILLE, CA

[73] BUCKLEY, RICHARD OSWALD NEVILLE, CA

[85] 2020-11-05

[86] 2020-07-30 (PCT/CA2020/000095)

[87] (WO2021/022355)

[11] **3,099,224**
[13] C

[51] **Int.Cl. E21B 47/0228 (2012.01) E21B 33/13 (2006.01) E21B 47/09 (2012.01)**

[25] EN

[54] **WELL RANGING APPARATUS, METHODS, AND SYSTEMS**

[54] **APPAREIL DE TELEMETRIE DE PUIITS, PROCEDES, ET SYSTEMES**

[72] AHMADI KALATEH AHMAD, AKRAM, US

[72] FAN, YIJING, SG

[72] WU, HSU-HSIANG, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[86] (3099224)

[87] (3099224)

[22] 2015-05-14

[62] 2,954,366

[30] US (62/035,076) 2014-08-08

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[11] **3,100,847**
[13] C

[51] **Int.Cl. C22C 38/00 (2006.01) C21D 8/12 (2006.01) C22C 38/12 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**

[25] EN

[54] **NON-ORIENTED ELECTRICAL STEEL SHEET AND METHOD OF PRODUCING SAME**

[54] **TOLE MAGNETIQUE EN ACIER NON ORIENTEE ET SA METHODE DE FABRICATION**

[72] UESAKA, MASANORI, JP
[72] ZAIZEN, YOSHIAKI, JP
[72] OKUBO, TOMOYUKI, JP
[72] NAKAJIMA, HIROAKI, JP
[72] ODA, YOSHIHIKO, JP
[73] JFE STEEL CORPORATION, JP
[85] 2020-11-18
[86] 2019-05-20 (PCT/JP2019/019841)
[87] (WO2019/225529)
[30] JP (2018-097390) 2018-05-21

[11] **3,101,536**
[13] C

[51] **Int.Cl. A23J 3/00 (2006.01) A23K 10/20 (2016.01) A23K 50/00 (2016.01) A23J 3/04 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **PROCESSING OF INSECT LARVAE**

[54] **TRAITEMENT DE LARVES D'INSECTES**

[72] AARTS, KEES WILHELMUS PETRUS, NL
[72] JANSEN, MAURITS PETRUS MARIA, NL
[72] JACOBS, ANNE LOUISE MIA, NL
[72] MESCHER, MARK C., CH
[72] PRENTNER, ROBERT, CH
[72] MATHYS, ALEXANDER, CH
[72] DE MORAES, CONSUELO M., CH
[73] BUHLER INSECT TECHNOLOGY SOLUTIONS AG, CH
[85] 2020-11-25
[86] 2019-06-05 (PCT/EP2019/064672)
[87] (WO2019/234106)
[30] EP (18175914.3) 2018-06-05

[11] **3,101,654**
[13] C

[51] **Int.Cl. H02M 1/00 (2007.10) G06F 17/10 (2006.01) G06F 17/16 (2006.01)**

[25] EN

[54] **FIXED-ADMITTANCE MODELING AND REAL-TIME SIMULATION METHOD FOR POWER ELECTRONIC CONVERTER**

[54] **PROCEDE DE MODELISATION ET DE SIMULATION EN TEMPS REEL A ADMITTANCE CONSTANTE POUR UN CONVERTISSEUR ELECTRONIQUE DE PUISSANCE**

[72] WANG, KEYOU, CN
[72] XU, JIN, CN
[72] LI, GUOJIE, CN
[72] FENG, LIN, CN
[72] HAN, BEI, CN
[72] JIANG, XIUCHEN, CN
[73] SHANGHAI JIAO TONG UNIVERSITY, CN
[85] 2020-06-11
[86] 2019-04-03 (PCT/CN2019/081194)
[87] (WO2020/113874)
[30] CN (201811491738.7) 2018-12-07
[30] CN (201811491963.0) 2018-12-07

[11] **3,101,762**
[13] C

[51] **Int.Cl. A01D 41/12 (2006.01) A01D 75/00 (2006.01) A01F 12/42 (2006.01) A01F 12/44 (2006.01)**

[25] EN

[54] **WEED SEED DESTRUCTION WITH ROTOR AND STATOR WHERE THE DISCHARGE IS AXIALLY SPACED FROM THE INLET**

[54] **DESTRUCTION DES GRAINES DE MAUVAISES HERBES A L'AIDE D'UN ROTOR ET D'UN STATOR, LA DECHARGE ETANT ESPACEE DE L'ENTREE SUR LE PLAN AXIAL**

[72] MAYERLE, DEAN, CA
[73] TRITANA INTELLECTUAL PROPERTY LTD., CA
[86] (3101762)
[87] (3101762)
[22] 2016-07-13
[62] 2,991,256
[30] US (62/192,111) 2015-07-14

[11] **3,101,764**
[13] C

[51] **Int.Cl. A01D 41/12 (2006.01) A01D 75/00 (2006.01) A01F 12/00 (2006.01) A01F 12/42 (2006.01)**

[25] EN

[54] **WEED SEED DESTRUCTION WITH REPLACEABLE STATOR COMPONENTS**

[54] **DESTRUCTION DES GRAINES DE MAUVAISES HERBES ET COMPOSANTES DE STATOR REMPLACABLES**

[72] MAYERLE, DEAN, CA
[73] TRITANA INTELLECTUAL PROPERTY LTD., CA
[86] (3101764)
[87] (3101764)
[22] 2016-07-13
[62] 2,991,256
[30] US (62/192,111) 2015-07-14

[11] **3,105,403**
[13] C

[51] **Int.Cl. C22C 38/12 (2006.01) B23K 26/342 (2014.01) B23K 9/04 (2006.01) B23K 10/02 (2006.01) B23K 35/22 (2006.01) C22C 38/02 (2006.01) C22C 38/08 (2006.01)**

[25] EN

[54] **WEAR-RESISTANT IRON-BASED ALLOY COMPOSITIONS COMPRISING NICKEL**

[54] **COMPOSITIONS D'ALLIAGE A BASE DE FER RESISTANT A L'USURE COMPRENANT DU NICKEL**

[72] MAROLI, BARBARA, SE
[72] FRYKHOLM, ROBERT, SE
[72] BENGTTSSON, SVEN, SE
[72] FRISK, KARIN, SE
[73] HOGANAS AB (PUBL), SE
[85] 2020-12-30
[86] 2019-06-25 (PCT/EP2019/066834)
[87] (WO2020/007652)
[30] EP (18181115.9) 2018-07-02

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[11] **3,105,889**
[13] C

- [51] **Int.Cl. E02D 35/00 (2006.01) E04F 15/024 (2006.01) F16M 11/24 (2006.01)**
[25] EN
[54] **SUPPORT AND LEVELLING DEVICE**
[54] **DISPOSITIF DE SUPPORT ET DE NIVELAGE**
[72] LAFERRIERE, REY, CA
[73] PGT GLOBAL INC., CA
[86] (3105889)
[87] (3105889)
[22] 2021-01-16
[30] US (62990005) 2020-03-16

[11] **3,107,499**
[13] C

- [51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INITIATING PROCESSING ACTIONS UTILIZING AUTOMATICALLY GENERATED DATA OF A GROUP-BASED COMMUNICATION SYSTEM**
[54] **SYSTEMES ET PROCEDES POUR INITIER DES ACTIONS DE TRAITEMENT UTILISANT DES DONNEES AUTOMATIQUEMENT GENEREES D'UN SYSTEME DE COMMUNICATION BASE SUR UN GROUPE**
[72] BRITO, DIOGENES, US
[72] SUHAIL, SALMAN, US
[72] SULLIVAN, BRUCE, US
[72] ANG, PATRICIA, US
[72] CHOI, HYE JUNG, US
[72] SHETTY, PRAJNA, US
[72] FONG, ANDREW, US
[72] DENG, MICHAEL, US
[72] SOWOLE, STEPHEN, US
[72] AKIN, TOLGA, US
[72] AGARWAL, PRANAY, US
[73] SLACK TECHNOLOGIES, LLC, US
[85] 2021-01-22
[86] 2020-03-20 (PCT/US2020/023770)
[87] (WO2020/222937)
[30] US (16/399,730) 2019-04-30
[30] US (16/399,784) 2019-04-30
[30] US (16/399,795) 2019-04-30

[11] **3,110,883**
[13] C

- [51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **ELECTRONIC CERTIFICATE-BASED GOODS DISTRIBUTION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE MARCHANDISES BASE SUR UN CERTIFICAT ELECTRONIQUE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3110883)
[87] (3110883)
[22] 2014-09-12
[62] 2,997,813

[11] **3,111,361**
[13] C

- [51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/26 (2006.01)**
[25] FR
[54] **METHOD FOR ULTRASOUND DETECTION AND CHARACTERISATION OF DEFECTS IN A HETEROGENEOUS MATERIAL**
[54] **PROCEDE DE DETECTION ET DE CHARACTERISATION PAR ULTRASONS DE DEFAUTS DANS UN MATERIAU HETEROGENE**
[72] KASSIS, PAUL, FR
[72] PAUL, NICOLAS, FR
[73] ELECTRICITE DE FRANCE, FR
[85] 2021-03-02
[86] 2019-09-02 (PCT/FR2019/052016)
[87] (WO2020/049247)
[30] FR (1857907) 2018-09-03

[11] **3,111,958**
[13] C

- [51] **Int.Cl. F21S 41/36 (2018.01) F21S 41/33 (2018.01) B60Q 1/04 (2006.01)**
[25] EN
[54] **HEADLIGHT FOR VEHICLES**
[54] **PHARE AVANT DE VEHICULE**
[72] BERGER, GERHARD, AT
[72] KERSCHBAUMMAYR, RAIMUND, AT
[72] HOCHWARTER, DANIEL, AT
[73] HELLA GMBH & CO. KGAA, DE
[85] 2021-04-29
[86] 2020-10-15 (PCT/EP2020/078990)
[87] (WO2021/083672)
[30] DE (DE 102019129100.3) 2019-10-29

[11] **3,112,372**
[13] C

- [51] **Int.Cl. B60G 17/018 (2006.01)**
[25] EN
[54] **VEHICLE-MOUNTED MOTION SIMULATION PLATFORM BASED ON ACTIVE SUSPENSION, AND CONTROL METHOD THEREOF**
[54] **PLATEFORME DE SIMULATION DE MOUVEMENT MONTEE SUR VEHICULE ET BASEE SUR UNE SUSPENSION ACTIVE ET SON PROCEDE DE COMMANDE**
[72] ZHAO, DINGXUAN, CN
[72] LIU, SHUANG, CN
[72] GONG, MINGDE, CN
[72] SUN, ZHIGUO, CN
[72] ZHANG, ZHUXIN, CN
[72] NI, TAO, CN
[72] YANG, BIN, CN
[72] GUO, QINGHE, CN
[72] YANG, MENGKE, CN
[73] YANSHAN UNIVERSITY, CN
[85] 2021-03-10
[86] 2019-08-01 (PCT/CN2019/098904)
[87] (WO2020/052365)
[30] CN (201811051382.5) 2018-09-10
[30] CN (201910708295.0) 2019-08-01

[11] **3,112,415**
[13] C

- [51] **Int.Cl. B60G 17/018 (2006.01)**
[25] EN
[54] **INERTIAL REGULATION ACTIVE SUSPENSION SYSTEM BASED ON VEHICLE POSTURE DEVIATION, AND CONTROL METHOD THEREOF**
[54] **SYSTEME DE SUSPENSION ACTIVE DE REGULATION INERTIELLE REPOSANT SUR UNE DEVIATION DE POSITION DE VEHICULE ET PROCEDE DE COMMANDE ASSOCIE**
[72] ZHAO, DINGXUAN, CN
[72] GONG, MINGDE, CN
[72] LIU, SHUANG, CN
[72] ZHANG, ZHUXIN, CN
[72] SUN, ZHIGUO, CN
[72] YANG, BIN, CN
[72] NI, TAO, CN
[72] GUO, QINGHE, CN
[72] YANG, MENGKE, CN
[73] YANSHAN UNIVERSITY, CN
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[87] (WO2020/052367)
[30] CN (201811051382.5) 2018-09-10

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[25] EN
[54] **SAFE AND EFFECTIVE METHOD OF TREATING ULCERATIVE COLITIS WITH ANTI-IL12/IL23 ANTIBODY**
[54] **METHODE SURE ET EFFICACE DE TRAITEMENT DE LA RECTOCOLITE HEMORRAGIQUE AVEC UN ANTICORPS ANTI-IL12/IL23**
[72] JOHANNES, JEWEL, US
[72] LI, KATHERINE, US
[72] MARANO, COLLEEN, US
[72] STRAUSS, RICHARD, US
[72] ZHANG, HONGYAN, US
[72] ADEDOKUN, OMONIYI, US
[72] O'BRIEN, CHRISTOPHER, US
[72] SHIELDS-TUTTLE, KIMBERLY, US
[73] JANSSEN BIOTECH, INC., US
[85] 2021-03-22
[86] 2019-09-24 (PCT/IB2019/058098)
[87] (WO2020/065532)
[30] US (62/735,501) 2018-09-24
[30] US (62/769,818) 2018-11-20
[30] US (62/895,774) 2019-09-04

[11] **3,114,390**
[13] C

[51] **Int.Cl. B01D 46/02 (2006.01) B01D 39/08 (2006.01)**
[25] EN
[54] **TREATED ACTIVATED CARBON FOR REMOVAL OF AIRBORNE ORGANIC AND INORGANIC CONTAMINANTS**
[54] **CARBONE ACTIF TRAITE POUR LE RETRAIT DE CONTAMINANTS ORGANIQUES ET INORGANIQUES EN SUSPENSION DANS L'AIR**
[72] REZUKE, ROBERT W., US
[72] POTUKUCHI, KARTIK, US
[73] GRAVER TECHNOLOGIES LLC, US
[86] (3114390)
[87] (3114390)
[22] 2016-10-21
[62] 2,994,725
[30] US (62/244,776) 2015-10-22
[30] US (15/331,231) 2016-10-21

[11] **3,114,800**
[13] C

[51] **Int.Cl. F04D 13/10 (2006.01) E21B 43/12 (2006.01) F04D 29/041 (2006.01)**
[25] EN
[54] **SPRING BIASED PUMP STACK FOR SUBMERSIBLE WELL PUMP ASSEMBLY**
[54] **EMPLEMENT D'ETAGES DE POMPE SOLLICITE PAR RESSORT POUR ENSEMBLE POMPE DE PUIITS SUBMERSIBLE**
[72] SMITH, SPENCER, US
[72] TOLLEY, ERIC, US
[73] BAKER HUGHES HOLDINGS LLC, US
[85] 2021-03-29
[86] 2019-10-09 (PCT/US2019/055308)
[87] (WO2020/076890)
[30] US (62/744,030) 2018-10-10

[11] **3,121,532**
[13] C

[51] **Int.Cl. G06Q 50/06 (2012.01) H02S 10/20 (2014.01) H02J 3/38 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **METHOD FOR IMPLEMENTING POWER DELIVERY TRANSACTION FOR POTENTIAL ELECTRICAL OUTPUT OF INTEGRATED RENEWABLE ENERGY SOURCE AND ENERGY STORAGE SYSTEM FACILITY**
[54] **METHODE POUR METTRE EN OEUVRE LA TRANSACTION DE DISTRIBUTION D'ENERGIE POUR UNE PRODUCTION D'ELECTRICITE POTENTIELLE D'UNE SOURCE D'ENERGIE RENEUVELABLE INTEGREE ET INSTALLATION DE SYSTEME DE STOCKAGE D'ENERGIE**
[72] ZANONE, LEIGH, US
[72] BUTTGENBACH, THOMAS, US
[72] HANSEN, LUKAS, US
[72] GARNEAU-HALLIDAY, PHILIPPE, US
[72] ARNOLD, EMILY, US
[72] PERRY, STEPHANIE, US
[72] PERRIER, JULIA, US
[73] 8ME NOVA, LLC, US
[85] 2021-06-03
[86] 2020-12-16 (PCT/US2020/065354)
[87] (WO2021/225634)
[30] US (63/020,009) 2020-05-04
[30] US (17/120,027) 2020-12-11

[11] **3,125,891**
[13] C

[51] **Int.Cl. H01F 7/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERTURBING A PERMANENT MAGNET ASYMMETRIC FIELD TO MOVE A BODY**
[54] **SYSTEME ET PROCEDE DE PERTURBATION D'UN CHAMP ASYMETRIQUE D'AIMANTS PERMANENTS POUR DEPLACER UN CORPS**
[72] CLYMER, MARK LAWRENCE, US
[72] MCCONNELL, BRENDA LEE, US
[73] GREEN WAVE POWER SYSTEMS LLC, US
[85] 2021-07-06
[86] 2020-03-09 (PCT/IB2020/052039)
[87] (WO2020/144668)

[11] **3,127,168**
[13] C

[51] **Int.Cl. H01M 50/507 (2021.01) H01M 50/207 (2021.01) H01M 50/244 (2021.01)**
[25] EN
[54] **BUSBAR HOLDER FOR BATTERY SUPPORT DE BARRES OMNIBUS POUR PILE**
[72] DORRESTEYN, DEREK, US
[73] DAMON MOTORS INC., CA
[85] 2021-08-20
[86] 2021-03-03 (PCT/CA2021/050276)
[87] (3127168)
[30] US (62/985,282) 2020-03-04
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[11] **3,128,440**
[13] C

[51] **Int.Cl. E21B 7/02 (2006.01) E21D 11/00 (2006.01) E21D 11/15 (2006.01) E21D 11/40 (2006.01)**

[25] EN

[54] **A METHOD FOR MOUNTING A ROLL OF PROTECTIVE MESH MATERIAL TO AN UNDERGROUND ROCK DRILLING MACHINE, A METHOD FOR ATTACHING PROTECTIVE MESH MATERIAL TO A ROCK SURFACE AND A MOUNTING DEVICE**

[54] **PROCEDE POUR MONTER UN ROULEAU DE MATERIAU MAILLE DE PROTECTION SUR UNE MACHINE DE FORAGE DE ROCHE SOUTERRAINE, PROCEDE POUR FIXATION UN MATERIAU MAILLE DE PROTECTION A UNE SURFACE DE ROCHE ET DISPOSITIF DE MONTAGE**

[72] BROWN, SHANE, AU
[72] BUCHER, ROLAND, AU
[73] GEOBRUGG AG, CH
[85] 2021-07-30
[86] 2020-02-13 (PCT/EP2020/053763)
[87] (WO2020/165346)
[30] AU (2019200996) 2019-02-13

[11] **3,129,937**
[13] C

[51] **Int.Cl. C21B 13/00 (2006.01) F27B 15/08 (2006.01) F27B 15/09 (2006.01) F27B 15/10 (2006.01)**

[25] EN

[54] **METHOD FOR DIRECT REDUCTION IN A FLUIDIZED BED**

[54] **PROCEDE DE REDUCTION DIRECTE DANS UN LIT FLUIDISE**

[72] REIN, NORBERT, AT
[72] WURM, JOHANN, AT
[72] HIEBL, BERNHARD, AT
[72] OFNER, HANSPETER, AT
[72] EISL, ROLAND, AT
[73] PRIMETALS TECHNOLOGIES AUSTRIA GMBH, AT
[85] 2021-08-11
[86] 2020-03-12 (PCT/EP2020/056580)
[87] (WO2020/187672)
[30] EP (19163059.9) 2019-03-15

[11] **3,141,734**
[13] C

[51] **Int.Cl. D21H 21/20 (2006.01) D21F 11/12 (2006.01) D21H 21/18 (2006.01)**

[25] EN

[54] **PROCESSES FOR MAKING IMPROVED CELLULOSE-BASED MATERIALS AND CONTAINERS**

[54] **PROCEDES DE FABRICATIONS DE MATERIAUX ET DE CONTENANTS AMELIORES A BASE DE CELLULOSE**

[72] HUSSAIN, SADAKAT, US
[72] REGEL, JAMES D., US
[73] INTERNATIONAL PAPER COMPANY, US
[86] (3141734)
[87] (3141734)
[22] 2021-06-07
[62] 3,121,854
[30] US (16/916,382) 2020-06-30

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[21] **3,103,775**
[13] A1
[51] **Int.Cl. A47K 11/00 (2006.01) A61F 5/453 (2006.01) A61F 5/455 (2006.01)**
[25] EN
[54] **CAR EMERGENCY URINAL DEVICE**
[54] **DISPOSITIF D'URINAL D'URGENCE EN VOITURE**
[72] PATTERSON, MICHAEL ROY, CA
[71] PATTERSON, MICHAEL ROY, CA
[22] 2020-12-29
[41] 2022-06-29

[21] **3,104,215**
[13] A1
[51] **Int.Cl. B62B 17/04 (2006.01) B62B 13/06 (2006.01) B62D 55/07 (2006.01)**
[25] EN
[54] **SNOWMOBILE FRONT SUSPENSION ARM WITH DISCONNECTABLE INTERMEDIATE SECTION**
[54] **BRAS DE SUSPENSION AVANT DE MOTONEIGE COMPRENANT UNE SECTION INTERMEDIAIRE DETACHABLE**
[72] BOUGIE, MARTIN, CA
[71] BOUGIE, MARTIN, CA
[22] 2020-12-31
[41] 2022-06-30

[21] **3,104,301**
[13] A1
[51] **Int.Cl. F03D 3/04 (2006.01) F03D 9/34 (2016.01)**
[25] EN
[54] **COMPLEMENTARY AIRFOIL LINEAR MODULAR WIND TURBINE (CALM WIND TURBINE)**
[54] **EOLIENNE MODULAIRE LINEAIRE A SURFACE PORTANTE COMPLEMENTAIRE (EOLIENNE CALME)**
[72] DENSHAM, BRIAN R., CA
[71] DENSHAM, BRIAN R., CA
[22] 2020-12-28
[41] 2022-06-28

[21] **3,104,305**
[13] A1
[51] **Int.Cl. B63B 35/58 (2006.01) B63B 77/00 (2020.01) B63B 21/00 (2006.01) B63B 43/12 (2006.01)**
[25] EN
[54] **BOAT DOCK WITH FLOATABLE AND SINKABLE SUPPORT STRUCTURE**
[54] **QUAI DE BATEAU PRESENTANT UNE STRUCTURE DE SUPPORT FLOTTANTE ET COULANTE**
[72] WILSON, ROBERT GORDON, CA
[71] WILSON, ROBERT GORDON, CA
[22] 2020-12-28
[41] 2022-06-28

[21] **3,104,457**
[13] A1
[51] **Int.Cl. A61K 31/7048 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **USE OF AMPHOTERICIN B IN THE TREATMENT OF CORONAVIRUS DISEASES**
[54] **UTILISATION D'AMPHOTERICINE B DANS LE TRAITEMENT DE MALADIES DU CORONAVIRUS**
[72] WASAN, KISHOR M., CA
[72] HNIK, PETER, CA
[72] WASAN, ELLEN, CA
[72] GALLIANO, CHRIS, US
[71] SKYMOUNT MEDICAL US INC., US
[71] ICO THERAPEUTICS INC., CA
[22] 2020-12-30
[41] 2022-06-30

[21] **3,104,464**
[13] A1
[51] **Int.Cl. G01C 7/02 (2006.01) G01C 11/00 (2006.01) G01S 13/90 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING A DIGITAL TERRAIN MODEL**
[54] **METHODE ET SYSTEME DE PRODUCTION D'UN MODELE DE TERRAIN NUMERIQUE**
[72] ST-ONGE, BENOIT, CA
[72] GREEN, PHILIP E. J., CA
[71] FIRST RESOURCE MANAGEMENT GROUP INC., CA
[22] 2020-12-30
[41] 2022-06-30

[21] **3,104,607**
[13] A1
[51] **Int.Cl. A61B 5/055 (2006.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01) G06N 3/02 (2006.01)**
[25] EN
[54] **CONTRAST-AGENT-FREE MEDICAL DIAGNOSTIC IMAGING**
[54] **IMAGERIE DE DIAGNOSTIC MEDICAL SANS AGENT DE CONTRASTE**
[72] LI, SHUO, CA
[71] LONDON HEALTH SCIENCES CENTRE RESEARCH INC., CA
[22] 2020-12-30
[41] 2022-06-30

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[21] **3,104,678**
 [13] A1

[51] **Int.Cl. A01N 25/32 (2006.01) A01N 25/08 (2006.01) A01N 25/34 (2006.01) A01N 35/06 (2006.01) A01N 47/02 (2006.01) A01N 47/22 (2006.01) A01N 53/06 (2006.01) A01N 53/08 (2006.01) A01P 7/02 (2006.01)**

[25] EN
 [54] **TICK CONTROL DEVICE HAVING ORAL DETERRENT MATERIAL**
 [54] **DISPOSITIF DE CONTROLE DES TIQUES COMPRENANT UNE MATIERE DISSUASIVE BUCCALE**

[72] HAINZE, JOHN, US
 [72] FELLER, LAWRENCE J., US
 [72] BOLZ, NICHOLAS, US
 [71] THERMACELL REPELLENTS, INC., US
 [22] 2020-12-30
 [41] 2022-06-30

[21] **3,104,728**
 [13] A1

[51] **Int.Cl. F25D 11/00 (2006.01) A45D 42/10 (2006.01) A47G 1/02 (2006.01) F25D 23/12 (2006.01) F25D 27/00 (2006.01)**

[25] EN
 [54] **A LED LIGHTED BEAUTY FRIDGE WITH A MIRROR**
 [54] **REFRIGERATEUR A COSMETIQUES ECLAIRE A DEL COMPORTANT UN MIROIR**

[72] ZHIHAO, YAO, CN
 [71] SHENZHEN SANJUTOU NETWORK TECHNOLOGY CO., LTD., CN
 [22] 2020-12-31
 [41] 2022-06-30

[21] **3,104,735**
 [13] A1

[51] **Int.Cl. A24B 5/10 (2006.01) A24B 7/00 (2006.01) A47J 42/32 (2006.01) A47J 43/25 (2006.01)**

[25] EN
 [54] **HERB GRINDER AND ROLLING PAPER APPARATUS**
 [54] **MOULIN A FINES HERBES ET APPAREIL A ROULER LE PAPIER**

[72] HEPBURN, ROBERT, CA
 [71] HEPBURN, ROBERT, CA
 [22] 2020-12-31
 [41] 2022-06-30
 [30] US (17/138,236) 2020-12-30

[21] **3,104,835**
 [13] A1

[51] **Int.Cl. G06Q 50/18 (2012.01) H04L 12/16 (2006.01)**

[25] EN
 [54] **LEGAL PROFESSIONAL SERVICE LOCATION METHOD**
 [54] **METHODE DE LOCATION DE SERVICE PROFESSIONNEL JURIDIQUE**

[72] LEACH, MICHAEL, CA
 [71] LEACH, MICHAEL, CA
 [22] 2020-12-30
 [41] 2022-06-29
 [30] US (17/137,303) 2020-12-29

[21] **3,104,837**
 [13] A1

[51] **Int.Cl. A01K 1/015 (2006.01)**

[25] EN
 [54] **PET BED**
 [54] **LIT POUR ANIMAL DE COMPAGNIE**

[72] ROMAYA, MARCELLA, US
 [71] ROMAYA, MARCELLA, US
 [22] 2020-12-30
 [41] 2022-06-30

[21] **3,104,932**
 [13] A1

[51] **Int.Cl. E04G 13/06 (2006.01)**

[25] EN
 [54] **CONCRETE FORM AND RELATED METHOD OF CREATING A CANTILEVER REVEAL**
 [54] **COFFRAGE A BETON ET METHODE CONNEXE DE CREATION D'UN DEVOILEMENT DE PORTE-A-FAUX**

[72] HANIMYAN, RAFFY, CA
 [71] ELITE DESIGNED CONCRETE INC., CA
 [22] 2021-01-02
 [41] 2022-07-02

[21] **3,105,358**
 [13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01)**

[25] EN
 [54] **INTELLIGENT REAL ESTATE AGENT360 EVALUATION SYSTEM**
 [54] **SYSTEME D'EVALUATION INTELLIGENT DES AGENTS IMMOBILIERS 360**

[72] GHAZALI BALKHKANLOU, HASSAN, CA
 [71] GHAZALI BALKHKANLOU, HASSAN, CA
 [22] 2021-01-02
 [41] 2022-07-02

[21] **3,106,760**
 [13] A1

[51] **Int.Cl. E21B 47/18 (2012.01)**

[25] EN
 [54] **WIRELESS TELEMETRY USING A PRESSURE SWITCH AND MECHANICAL THRESHOLDING OF THE SIGNAL**
 [54] **TELEMESURE SANS FIL AU MOYEN D'UN PRESSOSTAT ET LE SEUILLAGE MECANIQUE DU SIGNAL**

[72] WERKHEISER, GREGORY THOMAS, US
 [72] FRIPP, MICHAEL LINLEY, US
 [72] WILLOUGHBY, MATTHEW ARRAN, US
 [71] HALLIBURTON ENERGY SERVICES, INC., US
 [22] 2021-01-21
 [41] 2022-06-28
 [30] US (17/134,863) 2020-12-28

[21] **3,107,010**
 [13] A1

[51] **Int.Cl. B62B 3/04 (2006.01)**

[25] EN
 [54] **SELF-PROPELLED TIRE CART**
 [54] **CHARIOT A PNEUS AUTOPROPULSE**

[72] MARUSCHAK, JORDAN, CA
 [72] MCCARROLL, LEVI, CA
 [71] NBTECHNOLOGIES INC., CA
 [22] 2021-01-26
 [41] 2022-06-30
 [30] CA (3104502) 2020-12-30

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[21] **3,107,520**
[13] A1

[51] **Int.Cl. G05B 99/00 (2006.01) H04W 4/38 (2018.01) B60R 16/023 (2006.01) H04L 12/40 (2006.01) G01M 17/00 (2006.01)**

[25] EN

[54] **CENTRAL CONTROLLER AND MODULAR DEVICE**

[54] **CONTROLEUR CENTRAL ET DISPOSITIF MODULAIRE**

[72] KAUR, JASWINDER, CA

[72] SINGH, AMARINDER, CA

[71] KAUR, JASWINDER, CA

[71] SINGH, AMARINDER, CA

[22] 2021-01-29

[41] 2022-06-30

[30] US (17/139,038) 2020-12-31

[21] **3,108,210**
[13] A1

[51] **Int.Cl. E21B 43/08 (2006.01)**

[25] EN

[54] **TRACING COMPOSITE SCREEN PIPE**

[54] **TUBE FILTRE COMPOSITE DE TRACAGE**

[72] QIAO, HONGYUN, CN

[72] ZHANG, YONGHUA, CN

[72] DUAN, HUIZHU, CN

[71] ANTON OILFIELD SERVICES (GROUP) LTD., CN

[22] 2021-02-05

[41] 2022-06-29

[30] CN (CN 202011592613.0) 2020-12-29

[21] **3,109,764**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 10/04 (2012.01) G06Q 40/02 (2012.01)**

[25] EN

[54] **PREDICTION OF FUTURE OCCURRENCES OF EVENTS USING ADAPTIVELY TRAINED ARTIFICIAL-INTELLIGENCE PROCESSES**

[54] **PREDICTION D'INSTANCES FUTURES D'EVENEMENTS AU MOYEN DE PROCEDES D'INTELLIGENCE ARTIFICIELLE ENTRAINEE**

[72] DICKIE, PAIGE ELYSE, CA

[72] CRESSWELL, JESSE COLE, CA

[72] GORTI, SATYA KRISHNA, CA

[72] DONG, JIANJIN, CA

[72] RAZA, MOHAMMAD, CA

[72] CAROTHERS, CHRISTOPHER PATRICK, CA

[72] POUTANEN, TOMI JOHAN, CA

[72] VOLKOV, MAKSIMS, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2021-02-22

[41] 2022-06-30

[30] US (63/132,692) 2020-12-31

[30] US (17/180,745) 2021-02-20

[21] **3,111,245**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06N 20/00 (2019.01) G06Q 40/02 (2012.01)**

[25] EN

[54] **PREDICTION OF FUTURE OCCURRENCES OF EVENTS USING ADAPTIVELY TRAINED ARTIFICIAL-INTELLIGENCE PROCESSES AND CONTEXTUAL DATA**

[54] **PREDICTION D'INSTANCES FUTURES D'EVENEMENTS AU MOYEN DE PROCEDES ADAPTATIFS FONDES SUR L'INTELLIGENCE ARTIFICIELLE ENTRAINEE ET LES DONNEES CONTEXTUELLES**

[72] DICKIE, PAIGE ELYSE, CA

[72] DONG, JIANJIN, CA

[72] POUTANEN, TOMI JOHAN, CA

[72] VOLKOV, MAKSIMS, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2021-03-04

[41] 2022-06-30

[30] US (63/132,832) 2020-12-31

[30] US (17/190,992) 2021-03-03

[21] **3,111,944**
[13] A1

[51] **Int.Cl. E06B 9/56 (2006.01) A47H 5/02 (2006.01) F03G 1/08 (2006.01)**

[25] EN

[54] **CONSTANT FORCE MULTIPLE SPRING CURTAIN WINDING SYSTEM**

[54] **SYSTEME D'ENROULEMENT DE STORE A RESSORTS MULTIPLES DE FORCE CONSTANTE**

[72] ZHANG, NIANQING, CN

[72] WEI, SHEHUA, CN

[71] MINGYANG WINDECO TECHNOLOGY CORPORATION, CN

[22] 2021-03-12

[41] 2022-06-30

[30] CN (202011597191.6) 2020-12-30

[30] CN (202023260546.0) 2020-12-30

[21] **3,112,345**
[13] A1

[51] **Int.Cl. A63B 69/00 (2006.01) A43B 5/16 (2006.01) A63C 17/06 (2006.01)**

[25] EN

[54] **RESISTIVE SKATE DEVICE**

[54] **DISPOSITIF DE PATIN RESISTIF**

[72] SIROTKA, MICHAEL ROBERT, US

[72] CALDWELL, MARY DESCANT, US

[71] REVATHLETIC LLC/DBA REVSKATE, US

[22] 2021-03-05

[41] 2022-06-30

[30] US (17/138,070) 2020-12-30

[21] **3,113,240**
[13] A1

[51] **Int.Cl. A61K 31/4045 (2006.01) A61K 47/30 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **TRANSMUCOSAL PSYCHOACTIVE ALKALOID COMPOSITION AND PREPARATION THEREOF**

[54] **COMPOSITION D'ALCALOIDE PSYCHOACTIF TRANSMUCOSAL ET PREPARATION CONNEXE**

[72] MOSS, RYAN, CA

[72] LIGHTBURN, BENJAMIN, CA

[72] RANKEN, LISA, CA

[71] PSILO SCIENTIFIC LTD., CA

[22] 2021-03-24

[41] 2022-06-28

[30] US (63/131028) 2020-12-28

[30] US (63/139453) 2021-01-20

Demandes canadiennes mises à la disponibilité du public
26 juin 2022 au 2 juillet 2022

[21] **3,113,305**
 [13] A1

[51] **Int.Cl. F21V 21/04 (2006.01) F21S 8/02 (2006.01) F21V 21/14 (2006.01) F21V 21/34 (2006.01)**

[25] EN

[54] **METAL FLUSH-MOUNTED BOX FOR INSTALLING A LIGHT FITTING, KIT AND USING THE KIT**

[54] **BOITIER METALLIQUE INSTALLE A RAS BORD POUR L'INSTALLATION D'UN APPAREIL D'ECLAIRAGE, TROUSSE ET UTILISATION DE LA TROUSSE**

[72] AMELOOT, PETER, BE
 [72] DEQUAE, KOEN, BE
 [72] GAEREMYNCK, STEFAAN, BE
 [71] DELTA LIGHT NV, BE
 [22] 2021-03-25
 [41] 2022-06-30
 [30] BE (BE2020/5998) 2020-12-30

[21] **3,121,073**
 [13] A1

[51] **Int.Cl. F16L 37/30 (2006.01) B64G 1/64 (2006.01) F16L 37/56 (2006.01)**

[25] EN

[54] **CONNECTION SYSTEM AND CONNECTING METHOD FOR TRANSFERRING FLUIDS BETWEEN TWO VEHICLES OR BETWEEN A VEHICLE AND A FIXED STRUCTURE**

[54] **SYSTEME DE RACCORD ET METHODE DE RACCORD POUR LE TRANSFERT DE FLUIDES ENTRE DEUX VEHICULES OU ENTRE UN VEHICULE ET UNE STRUCTURE FIXEE**

[72] YBARRA MALO DE MOLINA, GABRIEL, ES
 [71] SENER AEROESPACIAL, S.A., ES
 [22] 2021-06-04
 [41] 2022-06-28
 [30] EP (EP20383162.3) 2020-12-28

[21] **3,122,982**
 [13] A1

[51] **Int.Cl. A61K 31/11 (2006.01) A61K 9/48 (2006.01) A61K 31/675 (2006.01) A61K 36/258 (2006.01) A61K 36/481 (2006.01) A61K 36/54 (2006.01) A61K 36/8962 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **ORAL COMPOSITIONS COMPRISING CINNAMALDEHYDE AND USES THEREOF**

[54] **COMPOSITIONS ORALES COMPRENANT DU CINNAMALDEHYDE ET UTILISATIONS CONNEXES**

[72] DAMAJ, BASSAM, US
 [71] INNOVUS PHARMACEUTICALS, INC., US
 [22] 2021-06-23
 [41] 2022-06-29
 [30] US (17/136,932) 2020-12-29

[21] **3,113,845**
 [13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 40/02 (2012.01)**

[25] EN

[54] **PREDICTING OCCURRENCES OF TEMPORALLY SEPARATED EVENTS USING ADAPTIVELY TRAINED ARTIFICIAL-INTELLIGENCE PROCESSES**

[54] **PREDICTION D'INSTANCES D'EVENEMENTS TEMPORAIREMENT SEPARES AU MOYEN DE PROCEDES ADAPTATIFS FONDES SUR L'INTELLIGENCE ARTIFICIELLE ENTRAINEE**

[72] STANEVICH, ILYA, CA
 [72] ZUBERI, SABA, CA
 [72] COX, NICOLE LOUISE, CA
 [72] WONG, NADIA POK-AH, CA
 [72] HAJARIAN, ELHAM, CA
 [72] VOLKOV, MAKSIMS, CA
 [72] POUTANEN, TOMI JOHAN, CA
 [71] THE TORONTO-DOMINION BANK, CA
 [22] 2021-03-31
 [41] 2022-06-30
 [30] US (63/133,063) 2020-12-31

[21] **3,122,479**
 [13] A1

[51] **Int.Cl. B60R 11/00 (2006.01) F16M 13/02 (2006.01)**

[25] EN

[54] **COLLAPSIBLE MULTIPURPOSE APPARATUS**

[54] **APPAREIL POLYVALENT REPLIABLE**

[72] ZIETARSKY, DARRELL, CA
 [72] SOPKA, JASON, CA
 [71] ZIETARSKY, DARRELL, CA
 [71] SOPKA, JASON, CA
 [22] 2021-06-16
 [41] 2022-06-27

[21] **3,123,774**
 [13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/10 (2006.01) A61K 9/70 (2006.01) A61K 31/4045 (2006.01) A61K 31/675 (2006.01)**

[25] EN

[54] **TRANSDERMAL PSYCHOACTIVE ALKALOID COMPOSITION AND PREPARATION THEREOF**

[54] **COMPOSITION D'ALCALOIDE PSYCHOACTIF TRANSDERMIQUE ET PREPARATION CONNEXE**

[72] MOSS, RYAN, CA
 [72] LIGHTBURN, BENJAMIN, CA
 [72] RANKEN, LISA, CA
 [71] PSILO SCIENTIFIC LTD., CA
 [22] 2021-07-01
 [41] 2022-06-28
 [30] US (63131028) 2020-12-28
 [30] US (63139453) 2021-01-20

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[21] **3,125,425**

[13] A1

- [51] **Int.Cl. B08B 5/02 (2006.01) B08B 9/093 (2006.01) B60P 1/56 (2006.01)**
 [25] EN
 [54] **ZONAL CLEANING SYSTEM FOR TRANSPORT CONTAINERS**
 [54]
 [72] SCHROEDER, THOMAS DALE, US
 [71] SCHROEDER, THOMAS DALE, US
 [22] 2021-07-21
 [41] 2022-06-26
 [30] US (63130681) 2020-12-26

[21] **3,127,289**

[13] A1

- [51] **Int.Cl. A47K 11/00 (2006.01) A61F 5/453 (2006.01) A61F 5/455 (2006.01)**
 [25] EN
 [54] **CAR URINAL DEVICE**
 [54] **DISPOSITIF D'URINAL POUR VOITURE**
 [72] PATTERSON, MICHAEL ROY, CA
 [71] PATTERSON, MICHAEL ROY, CA
 [22] 2021-08-09
 [41] 2022-06-29
 [30] CA (3,103,775) 2020-12-29

[21] **3,128,776**

[13] A1

- [51] **Int.Cl. E01D 19/04 (2006.01) F16C 29/02 (2006.01)**
 [25] EN
 [54] **UNI-DIRECTIONAL AND MULTI-DIRECTIONAL MECHANICAL STRUCTURAL BEARING**
 [54] **PALIER STRUCTURAL MECANIQUE UNIDIRECTIONNEL ET MUTIDIRECTIONNEL**
 [72] DE FLEURIOT DE LA COLINIÈRE, ERIC, CA
 [72] WANG, CASEY XI, CA
 [72] BOHLMANN, DUNCAN ROBERT, CA
 [71] MARCONMETALFAB INC., CA
 [22] 2021-08-23
 [41] 2022-06-29
 [30] US (63/131,521) 2020-12-29

[21] **3,132,263**

[13] A1

- [51] **Int.Cl. B29C 64/295 (2017.01) B29C 64/118 (2017.01) B29C 64/209 (2017.01)**
 [25] EN
 [54] **FLOW CONTROL OF MOLTEN MATERIAL AND GAS EXTRACTION VIA ELECTROLYSIS**
 [54] **REGULATION DU DEBIT D'UN MATERIAU FONDU ET EXTRACTION DE GAZ PAR ELECTROLYSE**
 [72] MISSOUT, ANTOINE, CA
 [71] KILNCORE INC., CA
 [22] 2021-09-28
 [41] 2022-06-30
 [30] US (63131964) 2020-12-30

[21] **3,139,757**

[13] A1

- [51] **Int.Cl. B29C 45/26 (2006.01) A42C 2/00 (2006.01) B29C 45/14 (2006.01) B29C 45/17 (2006.01)**
 [25] EN
 [54] **MOLD FOR THE MANUFACTURE OF SPORTING HELMETS, IN PARTICULAR CYCLING HELMETS AND RELATIVE PROCESS FOR MOLDING SUCH SPORTING HELMETS**
 [54] **MOULE POUR LA FABRICATION DE CASQUES DE SPORT, PLUS PRECISEMENT DES CASQUES DE VELO, ET PROCEDE RELATIF POUR LE MOULAGE DE TELS CASQUES DE SPORT**
 [72] GOTTI, ANGELO, IT
 [71] KASK S.P.A., IT
 [22] 2021-11-23
 [41] 2022-06-30
 [30] IT (10202000032948) 2020-12-31

[21] **3,140,832**

[13] A1

- [51] **Int.Cl. A61H 23/02 (2006.01) A63B 21/005 (2006.01) A63B 23/035 (2006.01)**
 [25] EN
 [54] **DEVICE AND METHOD FOR IMPROVED MUSCLE CONTRACTION**
 [54] **DISPOSITIF ET METHODE POUR UNE CONTRACTION MUSCULAIRE AMELIOREE**
 [72] MENEZES, JOSHUA, CA
 [71] LEVANTE STRENGTH, INC., CA
 [22] 2021-12-01
 [41] 2022-06-29
 [30] US (17/136,560) 2020-12-29

[21] **3,141,036**

[13] A1

- [51] **Int.Cl. B61D 17/22 (2006.01) B60D 5/00 (2006.01) B62D 25/07 (2006.01) B62D 47/02 (2006.01)**
 [25] EN
 [54] **CONTROLLED ROOF DRAINAGE VIA THE BELLOWS**
 [54] **DRAINAGE DE TOITURE CONTROLE AU MOYEN DU SOUFFLET**
 [72] HARTMANN, STEFAN, AT
 [72] SCHEIBENREIF, CHRISTIAN, AT
 [72] KRAPP, MAXIMILLIAN, AT
 [71] BOMBARDIER TRANSPORTATION GMBH, DE
 [22] 2021-12-03
 [41] 2022-06-28
 [30] EP (EP 20217464.5) 2020-12-28

[21] **3,141,138**

[13] A1

- [51] **Int.Cl. F16H 25/20 (2006.01) E21B 33/03 (2006.01) E21B 34/02 (2006.01)**
 [25] EN
 [54] **ACTUATOR ASSEMBLY**
 [54] **MECANISME DE COMMANDE**
 [72] SOMMERFELD, KYLE, US
 [71] SCHLUMBERGER CANADA LIMITED, CA
 [22] 2021-12-07
 [41] 2022-06-30
 [30] US (63/132280) 2020-12-30

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[21] **3,141,318**
 [13] A1

[51] **Int.Cl. A61B 90/30 (2016.01) A61B 90/20 (2016.01) F21V 21/084 (2006.01) F21V 23/04 (2006.01) G02B 5/20 (2006.01) G02B 23/00 (2006.01)**

[25] EN

[54] **USER WEARABLE FLUORESCENCE ENABLED VISUALIZATION SYSTEM**

[54]

[72] STEIER, LIVIU, US

[72] FEINBLOOM, RICHARD, E., US

[71] DESIGNS FOR VISION, INC., US

[22] 2021-12-08

[41] 2022-06-26

[30] US (17/134,309) 2020-12-26

[30] US (17/134,311) 2020-12-26

[21] **3,141,724**
 [13] A1

[51] **Int.Cl. G12B 9/08 (2006.01) A47K 10/32 (2006.01) B65F 1/00 (2006.01) B65H 26/00 (2006.01) G01D 11/30 (2006.01)**

[25] EN

[54] **SMART MODULE WITH ADJUSTABLE TIME OF FLIGHT SENSOR**

[54] **MODULE INTELLIGENT COMPRENANT UN CAPTEUR DE DUREE DE TRAJET AJUSTABLE**

[72] MURPHY, MARK, IE

[71] OP-HYGIENE IP GMBH, CH

[22] 2021-12-09

[41] 2022-06-30

[30] US (63/132,135) 2020-12-30

[21] **3,142,125**
 [13] A1

[51] **Int.Cl. C08L 83/04 (2006.01) C08J 3/20 (2006.01) C08K 5/5419 (2006.01)**

[25] EN

[54] **REACTIVE ORGANOSILICON THIXOTROPIC AGENT, ORGANOSILICON ENCAPSULATION ADHESIVE AND LED ELEMENT**

[54] **AGENT THIXOTROPIQUE D'ORGANOSILICIUM REACTIF, ADHESIF D'ENCAPSULATION D'ORGANOSILICIUM ET ELEMENT A DEL**

[72] DENG, ZUOZHU, CN

[72] MA, JING, CN

[72] LIU, HUIJUAN, CN

[71] BEIJING KMT TECHNOLOGY CO., LTD., CN

[22] 2021-12-14

[41] 2022-06-30

[30] CN (202011611398.4) 2020-12-30

[21] **3,142,578**
 [13] A1

[51] **Int.Cl. B60L 53/80 (2019.01) B60K 1/04 (2019.01)**

[25] EN

[54] **IMPROVED ELECTRIC TELEHANDLER**

[54] **CHARIOT TELESCOPIQUE ELECTRIQUE AMELIORE**

[72] IOTTI, MARCO, IT

[71] MANITOU ITALIA S.R.L., IT

[22] 2021-12-16

[41] 2022-06-28

[30] IT (102020000032532) 2020-12-28

[21] **3,142,798**
 [13] A1

[51] **Int.Cl. F23N 5/10 (2006.01) F27D 19/00 (2006.01) G01K 7/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR IMPROVING FURNACE TEMPERATURE UNIFORMITY**

[54] **METHODE ET APPAREIL D'AMELIORATION DE L'UNIFORMITE DE TEMPERATURE D'UN FOUR**

[72] ROBERTSON, THOMAS F., US

[72] WITOFF, BENJAMIN M., US

[72] DZIK, JUSTIN R., US

[71] FIVES NORTH AMERICAN COMBUSTION, INC., US

[22] 2021-12-17

[41] 2022-06-30

[30] US (17/137,603) 2020-12-30

[21] **3,143,191**
 [13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **SECURE CONTACTLESS CREDENTIAL EXCHANGE**

[54] **ECHANGE DE JUSTIFICATIFS SANS CONTACT SECURISE**

[72] WIEKER, JEFFREY CARLYLE, US

[72] MEDIN, ERIC, US

[72] WADHWANI, KAUSHAL, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2021-12-20

[41] 2022-06-28

[30] US (17/135,443) 2020-12-28

[21] **3,143,451**
 [13] A1

[51] **Int.Cl. B60K 17/34 (2006.01) B60K 23/04 (2006.01)**

[25] EN

[54] **CENTER DIFFERENTIAL AND DRIVE SYSTEM FOR FOUR-WHEEL DRIVE VEHICLE**

[54] **DIFFERENTIEL INTERPOINTS ET SYSTEME D'ENTRAINEMENT POUR UN VEHICULE A QUATRE ROUES MOTRICES**

[72] HASSON, JOHN MICHAEL, JR., US

[72] KNICKERBOCKER, HOWARD J., US

[72] PALMER, JAMES E., US

[71] THE HILLIARD CORPORATION, US

[22] 2021-12-21

[41] 2022-06-29

[30] US (17/136684) 2020-12-29

[21] **3,143,477**
 [13] A1

[51] **Int.Cl. B66F 9/06 (2006.01) B66F 9/075 (2006.01) B66F 17/00 (2006.01)**

[25] EN

[54] **TELEHANDER WITH FACILITATED ALIGNMENT ADJUSTMENT**

[54] **CHARIOT TELESCOPIQUE A AJUSTEMENT D'ALIGNEMENT SIMPLIFIE**

[72] IOTTI, MARCO, IT

[71] MANITOU ITALIA S.R.L., IT

[22] 2021-12-21

[41] 2022-06-30

[30] IT (102020000032828) 2020-12-30

**Canadian Applications Open to Public Inspection
June 26, 2022 to July 2, 2022**

[21] **3,143,611**
[13] A1

[51] **Int.Cl. F16K 31/126 (2006.01) F16K 1/00 (2006.01)**
[25] EN
[54] **OSCILLATING VALVE**
[54] **VANNE OSCILLANTE**
[72] FOWLER, JEFFREY M., US
[72] HAMILTON, DAVID, US
[71] NEPTUNE TECHNOLOGY GROUP INC., US
[22] 2021-12-22
[41] 2022-06-28
[30] US (63/130,967) 2020-12-28

[21] **3,143,677**
[13] A1

[51] **Int.Cl. B32B 7/05 (2019.01) A61B 46/00 (2016.01) A41D 13/00 (2006.01) A41D 13/12 (2006.01) A41D 31/02 (2019.01) B32B 5/26 (2006.01) D06M 17/00 (2006.01)**
[25] EN
[54] **COATED BARRIER FABRIC FOR A REUSABLE MEDICAL PRODUCT**
[54] **TISSU BARRIERE ENDUIT POUR UN PRODUIT MEDICAL REUTILISABLE**
[72] STEWART, RICHARD, US
[72] BUSHMAN, BRADLEY J., US
[71] STANDARD TEXTILE CO., INC., US
[22] 2021-12-22
[41] 2022-06-28
[30] US (17/135,069) 2020-12-28

[21] **3,143,753**
[13] A1

[51] **Int.Cl. A63B 21/072 (2006.01)**
[25] FR
[54] **BAR FOR PHYSICAL EXERCISE**
[54] **BARRE DESTINEE A LA PRATIQUE D'UN EXERCICE PHYSIQUE**
[72] GILLET, CAROLINE, FR
[72] DONY, LUCIEN, FR
[72] SOBON, MIKE, FR
[71] DECATHLON, FR
[22] 2021-12-22
[41] 2022-06-29
[30] FR (NO FR2014205) 2020-12-29

[21] **3,143,760**
[13] A1

[51] **Int.Cl. H04M 3/436 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR USE IN BLOCKING OF ROBOCALL AND SCAM CALL PHONE NUMBERS**
[54] **SYSTEMES ET METHODES DE BLOCAGE DES NUMEROS DE TELEPHONE D'APPELS AUTOMATISES ET FRAUDULEUX**
[72] VINCENT, DAVID, CA
[72] GADGIL, HARSH, CA
[72] ZHU, YUECAI, CA
[71] BCE INC., CA
[22] 2021-12-23
[41] 2022-06-30
[30] US (63/132,605) 2020-12-31

[21] **3,143,766**
[13] A1

[51] **Int.Cl. F28F 3/08 (2006.01) F24F 12/00 (2006.01) F28D 9/00 (2006.01) F28F 3/02 (2006.01)**
[25] EN
[54] **HEAT EXCHANGER**
[54] **ECHANGEUR THERMIQUE**
[72] WAN, ZIQIAN, CN
[72] HUANG, XI, CN
[72] CHEN, XIMAN, CN
[72] LIU, YANG, CN
[71] ZHONGSHAN FORTUNE WAY ENVIRONMENTAL TECHNOLOGY CO., LTD., CN
[22] 2021-12-23
[41] 2022-06-28
[30] CN (202011582385.9) 2020-12-28
[30] CN (202111438607.4) 2021-11-29

[21] **3,143,789**
[13] A1

[51] **Int.Cl. G06F 16/95 (2019.01) G06F 9/451 (2018.01) G06F 3/14 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PROVIDING A WEBSITE AND A STANDALONE APPLICATION ON A CLIENT DEVICE USING A SINGLE CODE BASE**
[54] **METHODE ET SYSTEME POUR FOURNIR UN SITE WEB ET UNE APPLICATION AUTONOME SUR UN DISPOSITIF CLIENT AU MOYEN D'UNE SEULE BASE DE CODE**
[72] VAN DER ZWAN, RONALD JOHANNES, CA
[71] EASYWEBAPP INC., CA
[22] 2021-12-23
[41] 2022-07-02
[30] US (63/133,317) 2021-01-02

[21] **3,143,808**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **EVENT PROMOTING METHOD, DEVICE, COMPUTER APPARATUS, AND STORAGE MEDIUM**
[54] **METHODE DE PROMOTION D'EVENEMENT, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] HE, XU, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-23
[41] 2022-06-30
[30] CN (202011621696.1) 2020-12-31

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[21] **3,143,810**
[13] A1

[51] **Int.Cl. B66D 1/12 (2006.01) H02K 7/14 (2006.01)**
 [25] EN
 [54] **ELECTRIC MOTOR ASSEMBLIES AND SPINDLE ASSEMBLIES FOR ROTATION**
 [54] **ENSEMBLES MOTEURS ELECTRIQUES ET ASSEMBLAGES DE TIGES AUX FINS DE ROTATION**
 [72] DELIZO, STAN, US
 [72] ROGERS, MIKE, US
 [72] CONLEY, JACOB, US
 [72] CHANG, DAVIS, US
 [71] PACCAR INC, US
 [22] 2021-12-23
 [41] 2022-06-30
 [30] US (17/139,559) 2020-12-31

[21] **3,143,840**
[13] A1

[51] **Int.Cl. H02J 3/38 (2006.01) H02J 3/18 (2006.01) H02M 5/04 (2006.01) H02M 5/32 (2006.01) H02M 7/44 (2006.01) H02M 7/54 (2006.01)**
 [25] EN
 [54] **METHOD FOR FEEDING ELECTRICAL POWER INTO AN ELECTRICAL SUPPLY NETWORK**
 [54] **METHODE D'ALIMENTATION ELECTRIQUE DANS UN RESEAU D'ALIMENTATION ELECTRIQUE**
 [72] BROMBACH, JOHANNES, DE
 [71] WOBLEN PROPERTIES GMBH, DE
 [22] 2021-12-22
 [41] 2022-06-30
 [30] EP (20217867.9) 2020-12-30

[21] **3,143,992**
[13] A1

[51] **Int.Cl. G01N 27/24 (2006.01) G01N 27/22 (2006.01)**
 [25] EN
 [54] **DETERMINING PLASTIC OR CELLULOSE LEVELS IN COMPOSITES**
 [54] **DETERMINATION DES NIVEAUX DE PLASTIQUE OU DE CELLULOSE DANS LES COMPOSITES**
 [72] WAN, VICTORIA L., US
 [72] WINTEROWD, JACK G., US
 [72] SCHNARRE, RICHARD, US
 [71] CONTINUUS MATERIALS HOLDCO, LLC, US
 [22] 2021-12-24
 [41] 2022-06-30
 [30] US (17/139,556) 2020-12-31

[21] **3,143,819**
[13] A1

[51] **Int.Cl. G06F 21/00 (2013.01) G06F 17/00 (2019.01) G06Q 30/00 (2012.01)**
 [25] EN
 [54] **BATCH-REGISTERING ACCOUNT IDENTIFICATION METHOD AND DEVICE**
 [54] **METHODE ET DISPOSITIF D'IDENTIFICATION DE COMPTES D'INSCRIPTION EN LOT**
 [72] ZHENG, QINGZHENG, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2021-12-23
 [41] 2022-06-30
 [30] CN (202011618561.X) 2020-12-31

[21] **3,143,841**
[13] A1

[51] **Int.Cl. H02J 3/46 (2006.01) H02J 3/50 (2006.01)**
 [25] EN
 [54] **METHOD FOR FEEDING ELECTRICAL POWER INTO AN ELECTRICAL SUPPLY NETWORK**
 [54] **METHODE D'ALIMENTATION ELECTRIQUE DANS UN RESEAU D'ALIMENTATION ELECTRIQUE**
 [72] BROMBACH, JOHANNES, DE
 [71] WOBLEN PROPERTIES GMBH, DE
 [22] 2021-12-22
 [41] 2022-06-30
 [30] EP (20217862.0) 2020-12-30

[21] **3,144,002**
[13] A1

[51] **Int.Cl. H04N 19/40 (2014.01)**
 [25] EN
 [54] **SYSTEMS AND METHODS FOR TRANSCODING CONTENT**
 [54] **SYSTEMES ET METHODES POUR LE TRANSCODAGE DU CONTENU**
 [72] HASSLER, GAREY, US
 [71] COMCAST CABLE COMMUNICATIONS, LLC, US
 [22] 2021-12-24
 [41] 2022-06-30
 [30] US (17/247,916) 2020-12-30

[21] **3,143,827**
[13] A1

[51] **Int.Cl. G06Q 40/06 (2012.01)**
 [25] EN
 [54] **FUND DATA PROCESSING METHOD, APPARATUS, COMPUTER DEVICE AND STORAGE MEDIUM**
 [54] **PROCEDE DE TRAITEMENT DE DONNEES SUR LES FONDS, APPAREIL, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
 [72] LIU, FENG, CN
 [72] SHI, CHAOYA, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2021-12-23
 [41] 2022-06-28
 [30] CN (202011575609.3) 2020-12-28

[21] **3,143,855**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 21/62 (2013.01) G06F 16/27 (2019.01)**
 [25] EN
 [54] **SYSTEMS AND METHODS FOR FEDERATED LEARNING ON BLOCKCHAIN**
 [54] **SYSTEMES ET METHODES D'APPRENTISSAGE FEDERE SUR LA CHAINE DE BLOCS**
 [72] DHUNAY, NAV, CA
 [72] NUSRI, SAEED EL KHAIR, CA
 [72] SABZEVAR, NIKOO, CA
 [71] ATB FINANCIAL, CA
 [22] 2021-12-23
 [41] 2022-06-30
 [30] US (63/131,995) 2020-12-30

[21] **3,144,007**
[13] A1

[51] **Int.Cl. E04F 19/02 (2006.01) E04F 13/06 (2006.01)**
 [25] EN
 [54] **CASING BEAD APPARATUS**
 [54] **APPAREIL DE BORDURE MOULEE**
 [72] BALTZ, GARY GEORGE, JR., US
 [71] ALABAMA METAL INDUSTRIES CORPORATION, US
 [22] 2021-12-23
 [41] 2022-06-28
 [30] US (63/131,041) 2020-12-28
 [30] US (63/202,518) 2021-06-15

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[21] **3,144,009**
[13] A1

[51] **Int.Cl. H04L 67/568 (2022.01) H04N 21/231 (2011.01) H04L 69/16 (2022.01) H04L 67/02 (2022.01)**

[25] EN

[54] **DATA FORWARDING IN A CONTENT DELIVERY NETWORK**

[54] **TRANSMISSION DE DONNEES DANS UN RESEAU DE DISTRIBUTION DE CONTENU**

[72] HASSLER, GAREY, US

[71] COMCAST CABLE COMMUNICATIONS, LLC, US

[22] 2021-12-24

[41] 2022-06-30

[30] US (17/247,931) 2020-12-30

[21] **3,144,015**
[13] A1

[51] **Int.Cl. B60S 1/38 (2006.01) B60S 1/40 (2006.01)**

[25] EN

[54] **WINDSHIELD WIPER**

[54] **ESSUIE-GLACE**

[72] CHANG, CHE-WEI, TW

[72] YANG, CHENG-KAI, TW

[71] DANYANG UPC AUTO PARTS CO., LTD., CN

[22] 2021-12-22

[41] 2022-06-30

[30] CN (202023338231.3) 2020-12-30

[21] **3,144,029**
[13] A1

[51] **Int.Cl. A45C 13/30 (2006.01) A45C 3/00 (2006.01) A45C 11/08 (2006.01) F41C 33/00 (2006.01)**

[25] EN

[54] **PADDED SLING SYSTEMS**

[54] **SYSTEMES DE BRETELLE COUSSINEE**

[72] LI, RAYMON, CN

[72] HEMEYER, WILLIAM, US

[72] KOENIGS, MONTE N., US

[72] MANNING, JEREMY, US

[71] VISTA OUTDOOR OPERATIONS LLC, US

[22] 2021-12-24

[41] 2022-06-30

[30] US (17/138,401) 2020-12-30

[21] **3,144,046**
[13] A1

[51] **Int.Cl. G06F 16/50 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD OF SYNCHRONIZING DATA IN NEO4J TO SEARCH SERVER**

[54] **SYSTEME ET METHODE DE SYNCHRONISATION DE DONNEES DANS UNE BASE DE DONNEES NEO4J A UN SERVEUR DE RECHERCHE**

[72] GE, YU, CN

[72] XU, ZHIXIN, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-24

[41] 2022-06-29

[30] CN (202011591917.5) 2020-12-29

[21] **3,144,051**
[13] A1

[51] **Int.Cl. G06F 7/24 (2006.01) G06F 16/20 (2019.01)**

[25] EN

[54] **DATA SORTING METHOD, DEVICE, AND SYSTEM**

[54] **METHODE, DISPOSITIF ET SYSTEME DE TRIAGE DE DONNEES**

[72] YU, WEIJIAN, CN

[72] WANG, ZHIWEI, CN

[72] XIE, QIAO, CN

[72] SUN, QIAN, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-24

[41] 2022-06-28

[30] CN (202011579026.8) 2020-12-28

[21] **3,144,052**
[13] A1

[51] **Int.Cl. G06F 16/21 (2019.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR RECOGNIZING NEW SQL STATEMENTS IN DATABASE AUDIT SYSTEMS**

[54] **METHODE ET APPAREIL DE RECONNAISSANCE D'ENONCE SQL DANS DES SYSTEMES DE VERIFICATION DE BASE DE DONNEES**

[72] WEI, JIANNING, CN

[72] GE, YI, CN

[72] LI, ZONGLIN, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-24

[41] 2022-06-28

[30] CN (202011579141.5) 2020-12-28

[21] **3,144,079**
[13] A1

[51] **Int.Cl. A61K 31/635 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING PAIN**

[54] **METHODES DE TRAITEMENT DE LA DOULEUR**

[72] MUNJAL, SAGAR, US

[72] GAUTAM, ANIRUDH, US

[71] BIODELIVERY SCIENCES INTERNATIONAL, INC., US

[22] 2021-12-27

[41] 2022-06-28

[30] US (63/131,172) 2020-12-28

[21] **3,144,091**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 10/04 (2012.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **COMPUTER SYSTEM**

[54] **SYSTEME INFORMATIQUE**

[72] SAMAHA, NICHOLAS JOSEPH, CA

[72] READE, GLYN DEVIN, CA

[72] DUNHAM, MICHAEL JAMES WILHELM, CA

[72] TORRIERI, SANDRO ANTONI, CA

[71] CARBEEZA LTD., CA

[22] 2021-12-28

[41] 2022-06-28

[30] US (63/131,277) 2020-12-28

[21] **3,144,122**
[13] A1

[51] **Int.Cl. G06F 7/00 (2006.01) G06F 16/00 (2019.01)**

[25] EN

[54] **DATA VERIFYING METHOD, DEVICE AND SYSTEM**

[54] **METHODE, DISPOSITIF ET SYSTEME DE VERIFICATION DE DONNEES**

[72] CAO, HAIYANG, CN

[72] WANG, ZHENZHEN, CN

[72] SUN, QIAN, CN

[72] GUO, WENPING, CN

[72] XU, WEI, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-29

[41] 2022-06-30

[30] CN (202011625467.7) 2020-12-31

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[21] **3,144,126**
[13] A1

[51] **Int.Cl. G06F 16/958 (2019.01)**
[25] EN
[54] **METHOD OF AND SYSTEM FOR CONSTRUCTING PAGE ACCESS PATH**
[54] **METHODE ET SYSTEME DE CREATION DE CHEMIN D'ACCES DE PAGE**
[72] LIU, YANG, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-29
[41] 2022-06-30
[30] CN (202011610978.1) 2020-12-30

[21] **3,144,128**
[13] A1

[51] **Int.Cl. G06F 40/30 (2020.01) G06N 5/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTING SEMANTIC CONFUSION**
[54] **METHODE ET SYSTEME DE DETECTION DE LA CONFUSION SEMANTIQUE**
[72] WANG, YANYAN, CN
[72] CHEN, SHU, CN
[72] SHEN, YI, CN
[72] ZHANG, BINGBING, CN
[72] ZHONG, TAO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-29
[41] 2022-06-29
[30] CN (202011586654.9) 2020-12-29

[21] **3,144,129**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **USER ACCESS DATA PROCESSING METHOD, DEVICE AND COMPUTER SYSTEM**
[54] **METHODE, DISPOSITIF, ET SYSTEME INFORMATIQUE POUR LE TRAITEMENT DE DONNEES D'ACCES D'UTILISATEUR**
[72] SHEN, ZHIMIN, CN
[72] PENG, HU, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-29
[41] 2022-06-28
[30] CN (202011579066.2) 2020-12-28

[21] **3,144,142**
[13] A1

[51] **Int.Cl. H04J 11/00 (2006.01) H04J 1/00 (2006.01)**
[25] EN
[54] **PROCEDES ET MODULES D'EMISSION ET DE RECEPTION DE TRAMES RADIO DE DUREE AUGMENTEE PAR RAPPORT A LA TECHNOLOGIES 5G NR**
[54] **INCREASED DURATION RADIO FRAME EMISSION AND RECEPTION METHODS AND MODULES RELATIVE TO 5G NR TECHNOLOGY**
[72] PANAITOPOL, DORIN, FR
[72] PERON, JEAN-LUC, FR
[71] THALES, FR
[22] 2021-12-29
[41] 2022-06-30
[30] FR (2014266) 2020-12-30

[21] **3,144,152**
[13] A1

[51] **Int.Cl. F24C 15/20 (2006.01) F23G 7/07 (2006.01) F24C 15/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING SMOKE DURING AIR FRYING IN A RANGE OR OVEN**
[54] **SYSTEME ET METHODE DE CONTROLE DE LA FUMEE PENDANT LA CUISSON A L'AIR DANS UN FOURNEAU**
[72] ROBINSON, JOHN W., JR, US
[71] CATALYTIC COMBUSTION CORPORATION, US
[22] 2021-12-29
[41] 2022-06-28
[30] US (63/131,061) 2020-12-28
[30] US (17/563,519) 2021-12-28

[21] **3,144,158**
[13] A1

[51] **Int.Cl. B66D 1/60 (2006.01) B60P 7/08 (2006.01) B65H 75/38 (2006.01) B66D 3/02 (2006.01)**
[25] EN
[54] **SELF-RETRACTING TIE DOWN WINCH**
[54] **TREUIL D'ATTACHE AUTO-ESCAMOTABLE**
[72] MASSICOTTE, LUC, CA
[71] MASSICOTTE, LUC, CA
[22] 2021-12-29
[41] 2022-07-01
[30] US (63/133,259) 2021-01-01

[21] **3,144,168**
[13] A1

[51] **Int.Cl. E02D 5/64 (2006.01) B29C 70/70 (2006.01) E02D 5/26 (2006.01)**
[25] EN
[54] **POLYMER COMPOSITE TIMBER PILE AND METHODS**
[54] **PILOT COMPOSITE POLYMER ET METHODES**
[72] BEHLING, JOSHUA, STEPHEN, US
[71] STRATA PRODUCTS WORLDWIDE, LLC, US
[22] 2021-12-29
[41] 2022-06-29
[30] US (63/131,579) 2020-12-29

[21] **3,144,178**
[13] A1

[51] **Int.Cl. A47J 43/18 (2006.01) A47J 37/07 (2006.01) A47J 37/10 (2006.01)**
[25] EN
[54] **COOKING APPARATUS**
[54] **APPAREIL DE CUISSON**
[72] AMBRIZ, DANIEL, US
[72] AMBRIZ, FEDERICO, US
[71] AMBRIZ, DANIEL, US
[71] AMBRIZ, FEDERICO, US
[22] 2021-12-29
[41] 2022-06-29
[30] US (63/131,715) 2020-12-29

[21] **3,144,184**
[13] A1

[51] **Int.Cl. H04L 67/568 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTING AND MANAGING SIMILAR CONTENT**
[54] **METHODE ET SYSTEME DE DETECTION ET DE GESTION DE CONTENUS SEMBLABLES**
[72] HASSLER, GAREY, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-12-29
[41] 2022-06-30
[30] US (17/247,934) 2020-12-30

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[21] **3,144,343**
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) F24F 11/50 (2018.01) F24F 11/62 (2018.01) H04W 4/33 (2018.01) H04W 4/70 (2018.01)**

[25] EN

[54] **OCCUPANCY TRACKING USING SOUND RECOGNITION**

[54] **SUIVI D'OCCUPATION A L'AIDE DE LA RECONNAISSANCE SONORE**

[72] BONDALAPATI, SUNIL, US

[72] MECHERI CHANDRAVIHAR, PRASAD, US

[71] LENNOX INDUSTRIES INC., US

[22] 2021-12-30

[41] 2022-06-30

[30] US (17/139,155) 2020-12-31

[21] **3,144,349**
[13] A1

[51] **Int.Cl. F24F 11/65 (2018.01) F24F 11/56 (2018.01)**

[25] EN

[54] **OCCUPANCY TRACKING USING USER DEVICE DETECTION**

[54] **SUIVI D'OCCUPATION A L'AIDE DE LA DETECTION D'UN DISPOSITIF UTILISATEUR**

[72] BONDALAPATI, SUNIL, US

[72] MECHERI CHANDRAVIHAR, PRASAD, US

[72] CHADIVE, BHAVANA, US

[72] KRITI, FNU, US

[71] LENNOX INDUSTRIES INC., US

[22] 2021-12-30

[41] 2022-06-30

[30] US (17/139,201) 2020-12-31

[21] **3,144,351**
[13] A1

[51] **Int.Cl. H04B 7/00 (2006.01)**

[25] FR

[54] **RADIO FRAME EMISSION METHOD AND MODULE, RADIO FRAME RECEPTION METHOD AND MODULE, ASSOCIATED RADIO FRAMES**

[54] **PROCEDE ET MODULE D'EMISSION DE TRAMES RADIO, PROCEDE ET MODULE DE RECEPTION DE TRAMES RADIO, TRAMES RADIO ASSOCIEE**

[72] PANAITOPOL, DORIN, FR

[72] PERON, JEAN-LUC, FR

[71] THALES, FR

[22] 2021-12-30

[41] 2022-06-30

[30] FR (2014251) 2020-12-30

[21] **3,144,355**
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) F24F 11/50 (2018.01) F24F 11/62 (2018.01) H04W 4/33 (2018.01) H04W 4/70 (2018.01) G01S 3/802 (2006.01)**

[25] EN

[54] **OCCUPANCY TRACKING USING WIRELESS SIGNAL DISTORTION**

[54] **SUIVI D'OCCUPATION A L'AIDE DE DISTORSION D'UN SIGNAL SANS FIL**

[72] BONDALAPATI, SUNIL, US

[72] MECHERI CHANDRAVIHAR, PRASAD, US

[72] KRITI, FNU, US

[71] LENNOX INDUSTRIES INC., US

[22] 2021-12-30

[41] 2022-06-30

[30] US (17/139,115) 2020-12-31

[21] **3,144,357**
[13] A1

[51] **Int.Cl. B31D 1/00 (2017.01) B31B 70/74 (2017.01) B65D 73/00 (2006.01)**

[25] EN

[54] **PAPERBOARD STRUCTURES AND METHODS FOR MANUFACTURING PAPERBOARD STRUCTURES**

[54] **STRUCTURES DE CARTON ET METHODES DE FABRICATION**

[72] DICKMAN, MATTHEW D., US

[72] KNIGHT, CHRISTOPHER B., US

[71] MULTI PACKAGING SOLUTIONS, INC., US

[22] 2021-12-30

[41] 2022-06-30

[30] US (63/131847) 2020-12-30

[21] **3,144,365**
[13] A1

[51] **Int.Cl. G06F 21/30 (2013.01) G06Q 20/40 (2012.01) G06F 16/95 (2019.01)**

[25] EN

[54] **VIRTUAL CREDENTIAL AUTHENTICATION BASED ON BROWSING CONTEXT**

[54] **AUTHENTIFICATION DE JUSTIFICATIFS VIRTUELS EN FONCTION DU CONTEXTE DE NAVIGATION**

[72] GUPTA, VARUN, US

[72] FENICHEL, ALLISON, US

[72] SNEIDER, AMANDA, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2021-12-29

[41] 2022-06-30

[30] US (17/139733) 2020-12-31

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[21] **3,144,381**
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) F24F 11/50 (2018.01) F24F 11/62 (2018.01) H04W 4/33 (2018.01) H04W 4/70 (2018.01)**

[25] EN

[54] **OCCUPANCY TRACKING USING ENVIRONMENTAL INFORMATION**

[54] **SUIVI D'OCCUPATION A L'AIDE DE RENSEIGNEMENTS ENVIRONNEMENTAUX**

[72] BONDALAPATI, SUNIL, US

[72] MECHERI CHANDRAVIHAR, PRASAD, US

[72] CHADIVE, BHAVANA, US

[72] KRITI, FNU, US

[71] LENNOX INDUSTRIES INC., US

[22] 2021-12-30

[41] 2022-06-30

[30] US (17/139,250) 2020-12-31

[21] **3,144,393**
[13] A1

[51] **Int.Cl. G01S 19/21 (2010.01) B64C 39/02 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING THE POSITION OF A DECOY USING AT LEAST ONE RECEIVER**

[54] **METHODE DE DETERMINATION DE LA POSITION D'UN LEURRE AU MOYEN D'AU MOINS UN RECEPTEUR**

[72] HEURGUIER, DOMINIQUE, FR

[72] SAMAMA, NEL, FR

[72] VERVISCH-PICOIS, ALEXANDRE, FR

[71] THALES, FR

[71] INSTITUT MINES TELECOM, FR

[22] 2021-12-30

[41] 2022-06-30

[30] FR (2014241) 2020-12-30

[21] **3,144,400**
[13] A1

[25] EN

[54] **METHOD AND DEVICE FOR PROCESSING LIQUID MANURE**

[54] **METHODE ET DISPOSITIF DE TRANSFORMATION DE PURIN**

[72] DE GROOT, LEONARDUS ADRIANUS, NL

[71] LABAERLE HOLDING BV, NL

[22] 2021-12-29

[41] 2022-06-30

[30] NL (2027252) 2020-12-30

[21] **3,144,403**
[13] A1

[51] **Int.Cl. H01P 5/20 (2006.01)**

[25] EN

[54] **WIDEBAND MAGIC TEE MICROWAVE JUNCTION**

[54] **JONCTION DE MICRO-ONDE EN TE MAGIQUE A LARGE BANDE**

[72] BRU, LAURENT, FR

[71] THALES, FR

[22] 2021-12-30

[41] 2022-06-30

[30] FR (2014259) 2020-12-30

[21] **3,144,405**
[13] A1

[51] **Int.Cl. G06V 30/10 (2022.01) G06V 30/18 (2022.01) G06V 30/19 (2022.01)**

[25] EN

[54] **TEXT INFORMATION RECOGNIZING METHOD, EXTRACTING METHOD, DEVICES AND SYSTEM**

[54] **METHODE DE RECONNAISSANCE DE RENSEIGNEMENTS EN FORMAT TEXTE, METHODE D'EXTRACTION, DISPOSITIFS ET SYSTEME**

[72] PAN, LEI, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-30

[41] 2022-06-30

[30] CN (202011625464.3) 2020-12-31

[21] **3,144,411**
[13] A1

[51] **Int.Cl. G06K 9/62 (2022.01)**

[25] EN

[54] **ACCOUNT PROCESSING METHOD, DEVICE, COMPUTER APPARATUS, AND STORAGE MEDIUM**

[54] **METHODE DE TRAITEMENT DE COMPTE, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] LI, XIA, CN

[71] 10353744 CANADA LTD., CA

[22] 2021-12-30

[41] 2022-06-30

[30] CN (202011617742.0) 2020-12-31

[21] **3,144,483**
[13] A1

[51] **Int.Cl. H04N 21/85 (2011.01) H04N 7/15 (2006.01)**

[25] EN

[54] **VIRTUAL ENVIRONMENTS ASSOCIATED WITH PROCESSED VIDEO STREAMS**

[54] **ENVIRONNEMENTS VIRTUELS ASSOCIES A DES DIFFUSIONS VIDEO TRAITEES**

[72] ADCOCK, LEE, US

[72] KAVURI, VAMSI, US

[72] RANGWALA, JIGNESH, US

[72] GARNARA, MEHULKUMAR JAYANTILAL, US

[72] VEMBULI, MUTHUKUMARAN, US

[72] SRIDHARAN, SANTHI, US

[72] RAY, SOUMYAJIT, US

[72] VOLTZ, STEVEN, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2021-12-30

[41] 2022-06-30

[30] US (17/139477) 2020-12-31

[21] **3,144,649**
[13] A1

[51] **Int.Cl. E21B 19/22 (2006.01) E21B 7/02 (2006.01) E21B 15/00 (2006.01) E21B 25/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF OBTAINING FORMATION SAMPLES USING COILED TUBING**

[54] **SYSTEME ET METHODE D'OBTENTION D'ECHANTILLONS DE FORMATIONS AU MOYEN D'UN TUBE DE PRODUCTION CONCENTRIQUE**

[72] RUS, GUSTAAF, CA

[71] RUS-TEC ENGINEERING, LTD., CA

[22] 2021-12-31

[41] 2022-06-30

[30] US (63/132,569) 2020-12-31

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[21] **3,144,677**

[13] A1

[51] **Int.Cl. H04L 67/141 (2022.01) H04L 43/08 (2022.01) H04L 65/402 (2022.01)**

[25] EN

[54] **AGGREGATED VIRTUAL SESSION FOR MULTIPLE VIRTUAL SESSIONS**

[54] **SESSION VIRTUELLE AGREGEE POUR DE MULTIPLES SESSIONS VIRTUELLES**

[72] ADCOCK, LEE, US

[72] KAVURI, VAMSI, US

[72] RANGWALA, JIGNESH, US

[72] GARNARA, MEHULKUMAR JAYANTILAL, US

[72] VEMBULI, MUTHUKUMARAN, US

[72] SRIDHARAN, SANTHI, US

[72] SOUNMYAJIT, RAY, US

[72] VOLTZ, STEVEN, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2021-12-31

[41] 2022-06-30

[30] US (17/139456) 2020-12-31

[21] **3,144,698**

[13] A1

[51] **Int.Cl. A01G 9/20 (2006.01) F21S 4/28 (2016.01)**

[25] EN

[54] **ADJUSTABLE GROW LIGHT SYSTEM FOR INTERLIGHTING**

[54] **SYSTEME DE LUMIERE DE CROISSANCE AJUSTABLE AUX FINS D'INTERECLAIRAGE**

[72] BILALOGLU, ERDEM, CA

[71] BILALOGLU, ERDEM, CA

[22] 2021-12-31

[41] 2022-06-30

[30] US (63/132587) 2020-12-31

[21] **3,149,902**

[13] A1

[51] **Int.Cl. B60S 1/32 (2006.01) B60S 1/40 (2006.01)**

[25] EN

[54] **WIPER**

[54] **ESSUIE-GLACE**

[72] CHANG, CHE-WEI, CN

[72] YANG, CHENG-KAI, CN

[71] DANYANG UPC AUTO PARTS CO., LTD., CN

[22] 2021-12-22

[41] 2022-06-30

[30] CN (202023330790.X) 2020-12-30

[21] **3,150,618**

[13] A1

[51] **Int.Cl. B04B 11/00 (2006.01)**

[25] EN

[54] **CENTRIFUGA SEMFUGA AUTONOMA**

[54] **CENTRIFUGA SEMFUGA AUTONOMA**

[72] RODRIGUES, RUBENS GIMENEZ, BR

[71] RODRIGUES, RUBENS GIMENEZ, BR

[22] 2022-02-28

[41] 2022-06-30

[30] BR (BR 10 2020 027103 2) 2020-12-31

[21] **3,154,509**

[13] A1

[51] **Int.Cl. E04C 5/16 (2006.01) E04C 5/03 (2006.01) E04C 5/18 (2006.01)**

[25] EN

[54] **REBAR COVER**

[54] **COUVERTURE DE BARRE D'ARMATURE**

[72] NICHOLLS, JOSEPH H., US

[71] NICHOLLS, JOSEPH H., US

[22] 2022-04-07

[41] 2022-06-29

[30] US (17/225,847) 2021-04-08

[21] **3,155,159**

[13] A1

[51] **Int.Cl. A01G 25/00 (2006.01) A01C 23/00 (2006.01)**

[25] EN

[54] **AUTONOMOUS SOLAR-POWERED IRRIGATION SYSTEM**

[54] **SYSTEME D'IRRIGATION AUTONOME A ENERGIE SOLAIRE**

[72] RENAUD, ANDREW, CA

[71] LEAF NINJAS INC., CA

[22] 2022-04-12

[41] 2022-06-29

[30] US (17/718,716) 2022-04-12

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[51] Int.Cl. C09D 4/02 (2006.01) C09D 7/63 (2018.01) C09D 7/65 (2018.01) [25] EN [54] WATER-BASED ACRYLIC EMULSION HAVING HIGH BARRIER AND HIGH WATER RESISTANCE AND PREPARATION METHOD THEREOF [54] EMULSION ACRYLIQUE A L'EAU AYANT UNE PROTECTION ELEVEE ET UNE RESISTANCEELEEVEE A L'EAU, ET METHODES DE PREPARATION [72] ZHU, QINGMEI, CN [72] HUANG, HONGCUN, CN [72] CHEN, XINSHENG, CN [71] HAINAN BNK WATER-BASED NEW MATERIALS CO., LTD, CN [85] 2021-09-15 [86] 2021-04-27 (PCT/CN2021/090134) [87] (3130962) [30] CN (202011577988.X) 2020-12-28	[51] Int.Cl. C07K 16/28 (2006.01) [25] EN [54] ANTI-IL-4R SINGLE-DOMAIN ANTIBODY AND USE THEREOF [54] ANTICORPS A DOMAINE UNIQUE ANTI-IL-4R ET SON UTILISATION [72] WAN, YAKUN, CN [72] ZHU, MIN, CN [72] GAI, JUNWEI, CN [72] SHEN, XIAONING, CN [71] SHANGHAI NOVAMAB BIOPHARMACEUTICALS CO., LTD., CN [85] 2022-04-26 [86] 2020-07-31 (PCT/CN2020/106311) [87] (WO2021/082573) [30] CN (201911054787.9) 2019-10-31	[51] Int.Cl. A61L 9/04 (2006.01) A61L 9/20 (2006.01) B01D 53/72 (2006.01) D06M 11/30 (2006.01) D06M 16/00 (2006.01) D06M 23/06 (2006.01) [25] EN [54] METHODS OF TREATMENT OF VOLATILE ORGANIC COMPOUNDS USING CHLORINE DIOXIDE [54] PROCEDES DE TRAITEMENT DE COMPOSES ORGANIQUES VOLATILS A L'AIDE DE DIOXYDE DE CHLORE [72] CUSHMAN, ALEX, US [72] LORENZ, BRET, US [71] PROKURE SOLUTIONS, LLC, US [85] 2022-05-10 [86] 2020-11-12 (PCT/US2020/060273) [87] (WO2021/097119) [30] US (62/933,860) 2019-11-11
[21] 3,133,722 [13] A1	[21] 3,157,550 [13] A1	[21] 3,158,028 [13] A1
[25] EN [54] METHOD AND APPARATUS FOR DISPLAYING VIRTUAL ENVIRONMENT PICTURE, DEVICE, AND STORAGE MEDIUM [54] [72] HU, XUN, CN [72] WENG, JIANMIAO, CN [72] WAN, YULIN, CN [72] SU, SHANDONG, CN [72] ZHANG, YONG, CN [71] TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED, CN [85] 2022-03-31 [86] 2021-03-08 (PCT/CN2021/079590) [87] (3133722) [30] CN (202010313797.6) 2020-04-20	[51] Int.Cl. A61K 9/08 (2006.01) A61K 31/4045 (2006.01) A61K 31/675 (2006.01) A61P 25/00 (2006.01) C07D 209/16 (2006.01) C07F 9/572 (2006.01) [25] EN [54] INJECTABLE PSYCHOACTIVE ALKALOID COMPOSITION AND PREPARATION THEREOF [54] COMPOSITION D'ALCALOIDE PSYCHOACTIF INJECTABLE ET PREPARATION CONNEXE [72] MOSS, RYAN, CA [72] LIGHTBURN, BENJAMIN, CA [72] RANKEN, LISA, CA [71] PSILO SCIENTIFIC LTD., CA [85] 2021-12-17 [86] 2021-12-17 (PCT/CA2021/051891) [87] (3157550) [30] US (63/131,028) 2020-12-28 [30] US (63/139,453) 2021-01-20	[51] Int.Cl. A61K 31/78 (2006.01) A61P 29/00 (2006.01) C08F 120/36 (2006.01) [25] EN [54] O-GLCNACYLATED PROTEIN-LIKE SUBSTANCE AND FIBROSIS THERAPEUTIC DRUG CONTAINING SAME [54] SUBSTANCE DE TYPE PROTEINE O-GLCNACYLEE ET MEDICAMENT THERAPEUTIQUE CONTRE LA FIBROSE LA CONTENANT [72] ISE, HIROHIKO, JP [72] MATSUO, SAORI, JP [71] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP [71] SOMAR CORPORATION, JP [85] 2022-05-11 [86] 2020-11-13 (PCT/JP2020/042362) [87] (WO2021/095828) [30] JP (2019-206265) 2019-11-14

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[21] **3,158,064**
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01)**
[25] EN
[54] **ADAPTER SYSTEM FOR NONRIBOSOMAL PEPTIDE SYNTHETASES AND POLYKETIDE SYNTHASES**
[54] **SYSTEME ADAPTATEUR POUR SYNTHETASES PEPTIDIQUES NON RIBOSOMIQUES ET POLYCETIDES SYNTHASES**
[72] BODE, HELGE, DE
[72] BOZHUYUK, KENAN, DE
[72] WATZEL, JONAS, DE
[71] JOHANN WOLFGANG GOETHE-UNIVERSITAT FRANKFURT AM MAIN, DE
[85] 2022-05-11
[86] 2020-11-12 (PCT/EP2020/081925)
[87] (WO2021/094462)
[30] EP (19208603.1) 2019-11-12

[21] **3,158,066**
[13] A1

[51] **Int.Cl. C21B 5/00 (2006.01)**
[25] EN
[54] **METHOD OF OPERATING BLAST FURNACE AND BLAST FURNACE ANCILLARY FACILITY**
[54] **PROCEDE DE FONCTIONNEMENT DE HAUT-FOURNEAU ET EQUIPEMENT AUXILIAIRE DE HAUT-FOURNEAU**
[72] KAWASHIRI, YUKI, JP
[72] OZAWA, SUMITO, JP
[72] TAKAHASHI, KOICHI, JP
[72] NOUCHI, TAIHEI, JP
[72] MORITA, YUYA, JP
[71] JFE STEEL CORPORATION, JP
[85] 2022-05-11
[86] 2020-12-14 (PCT/JP2020/046607)
[87] (WO2021/131866)
[30] JP (2019-236280) 2019-12-26

[21] **3,158,072**
[13] A1

[51] **Int.Cl. A47G 33/00 (2006.01) A47G 33/06 (2006.01) H01R 13/02 (2006.01) H01R 13/60 (2006.01) H01R 13/66 (2006.01) H01R 13/72 (2006.01)**
[25] EN
[54] **CONNECTOR SYSTEMS AND METHODS THERETO**
[54] **SYSTEMES DE CONNECTEUR ET PROCEDES ASSOCIES**
[72] LEUNG, CHI YIN ALAN, CN
[71] BELGRAVIA WOOD LIMITED, VG
[85] 2022-05-11
[86] 2020-11-12 (PCT/US2020/060267)
[87] (WO2021/097113)
[30] CN (201921963618.2) 2019-11-14
[30] CN (202020658115.0) 2020-04-27

[21] **3,158,074**
[13] A1

[51] **Int.Cl. A23J 3/20 (2006.01) A23L 11/50 (2021.01)**
[25] EN
[54] **MEAT ANALOGUE COMPRISING LAB FERMENTED MATERIAL**
[54] **ANALOGUE DE VIANDE COMPRENANT UNE MATIERE FERMENTEE EN LABORATOIRE**
[72] LEGARTH, JENS HOFFNER, DK
[72] KJAERULFF, SOREN, DK
[71] FERMENTATIONEXPERTS A/S, DK
[85] 2022-05-11
[86] 2020-11-13 (PCT/EP2020/081987)
[87] (WO2021/094500)
[30] DK (PA 2019 01336) 2019-11-14

[21] **3,158,075**
[13] A1

[51] **Int.Cl. C12Q 1/689 (2018.01) C12Q 1/6883 (2018.01) C12Q 1/6893 (2018.01)**
[25] EN
[54] **IDENTIFICATION OF HOST RNA BIOMARKERS OF INFECTION**
[54] **IDENTIFICATION DE BIOMARQUEURS D'ARN HOTE D'UNE INFECTION**
[72] SAWYER, SARA L., US
[72] DOWELL, ROBIN, US
[72] YANG, QING, US
[72] MEYERSON, NICHOLAS R., US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO A BODY CORPORATE, US
[85] 2022-05-11
[86] 2020-11-13 (PCT/US2020/060572)
[87] (WO2021/097336)
[30] US (62/934,873) 2019-11-13
[30] US (63/006,561) 2020-04-07

[21] **3,158,077**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01) C12N 15/12 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **METHOD AND A KIT TO REPROGRAM SOMATIC CELLS**
[54] **METHODE ET KIT DE REPROGRAMMATION DE CELLULES SOMATIQUES**
[72] OCHI, ATSUO, US
[71] OCHI, ATSUO, US
[85] 2022-05-11
[86] 2020-11-11 (PCT/US2020/060071)
[87] (WO2021/096998)
[30] US (62/933,926) 2019-11-11

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[21] **3,158,078**
[13] A1

[51] **Int.Cl. A61F 2/86 (2013.01) A61F 2/89 (2013.01) A61F 2/95 (2013.01) A61F 2/82 (2013.01) A61F 2/90 (2013.01)**

[25] EN

[54] **STENT DELIVERY SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE POSE D'ENDOPROTHESE**

[72] RANGWALA, HUSSAIN S., US

[72] DHOLAKIA, RONAK, US

[72] TROM, STEVE, US

[71] MICROVENTION, INC., US

[85] 2022-05-11

[86] 2020-11-12 (PCT/US2020/060268)

[87] (WO2021/097114)

[30] US (62/934,410) 2019-11-12

[21] **3,158,079**
[13] A1

[51] **Int.Cl. A61P 25/02 (2006.01) A61P 25/28 (2006.01) C07D 207/06 (2006.01) C07D 209/08 (2006.01) C07D 211/14 (2006.01) C07D 211/38 (2006.01) C07D 211/46 (2006.01) C07D 217/04 (2006.01) C07D 277/32 (2006.01) C07D 295/04 (2006.01) C07D 295/205 (2006.01) C07D 333/18 (2006.01) C07D 333/24 (2006.01) C07D 333/70 (2006.01) C07D 401/12 (2006.01) C07D 409/04 (2006.01) C07D 471/08 (2006.01)**

[25] EN

[54] **HETEROCYCLIC TRPML1 AGONISTS**

[54] **AGONISTES DE TRPML1 HETEROCYCLIQUES**

[72] PEVARELLO, PAOLO, IT

[72] CUSANO, VALENTINA, IT

[72] SODANO, MARIANGELA, IT

[72] TORINO, DOMENICA, IT

[72] VITALONE, ROCCO, IT

[72] LIBERATI, CHIARA, IT

[72] PISCITELLI, FRANCESCO, IT

[71] LIBRA THERAPEUTICS, INC., US

[85] 2022-05-11

[86] 2020-11-12 (PCT/IB2020/060659)

[87] (WO2021/094974)

[30] EP (19208888.8) 2019-11-13

[21] **3,158,080**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12Q 1/6809 (2018.01) C12Q 1/6816 (2018.01) C12N 15/11 (2006.01)**

[25] EN

[54] **COMPOSITIONS, SETS, AND METHODS RELATED TO TARGET ANALYSIS**

[54] **COMPOSITIONS, ENSEMBLES ET METHODES ASSOCIES A UNE ANALYSE CIBLE**

[72] NGUYEN, HUY QUOC, US

[72] CHATTORAJ, SHYAMTANU, US

[72] WU, CHAO-TING, US

[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2022-05-11

[86] 2020-11-24 (PCT/US2020/061956)

[87] (WO2021/108370)

[30] US (62/940,638) 2019-11-26

[21] **3,158,082**
[13] A1

[51] **Int.Cl. E21B 47/14 (2006.01) E21B 47/095 (2012.01) E21B 47/135 (2012.01)**

[25] EN

[54] **DRIFT CORRECTION IN A FIBER OPTIC DISTRIBUTED ACOUSTIC SENSING SYSTEM**

[54] **CORRECTION DE DERIVE DANS UN SYSTEME DE DETECTION ACOUSTIQUE DISTRIBUE A FIBRE OPTIQUE**

[72] JOHNSTON, WILLIAM ALBERT, US

[72] BARRY, ALEXANDER MICHAEL, US

[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US

[85] 2022-05-11

[86] 2020-11-16 (PCT/US2020/060683)

[87] (WO2021/101828)

[30] US (16/690,950) 2019-11-21

[21] **3,158,083**
[13] A1

[51] **Int.Cl. B01J 10/00 (2006.01) B01J 12/00 (2006.01) B01J 19/00 (2006.01) B01J 19/24 (2006.01) C07C 2/08 (2006.01) C07C 2/38 (2006.01) C08F 10/00 (2006.01)**

[25] FR

[54] **GAS/LIQUID OLIGOMERIZATION REACTOR HAVING SUCCESSIVE ZONES WITH VARIABLE DIAMETERS**

[54] **REACTEUR GAZ/LIQUIDE D'OLIGOMERISATION A ZONES SUCCESSIVES DE DIAMETRE VARIABLE**

[72] AUGIER, FREDERIC, FR

[72] VONNER, ALEXANDRE, FR

[72] MAXIMIANO RAIMUNDO, PEDRO, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2022-05-11

[86] 2020-12-08 (PCT/EP2020/085019)

[87] (WO2021/122140)

[30] FR (FR1914756) 2019-12-18

[21] **3,158,084**
[13] A1

[51] **Int.Cl. G06F 1/20 (2006.01)**

[25] EN

[54] **EXTERNAL ROBOTIC SYSTEM FOR LIQUID IMMERSION COOLING PLATFORM**

[54] **SYSTEME ROBOTIQUE EXTERNE POUR PLATEFORME DE REFROIDISSEMENT PAR IMMERSION DANS UN LIQUIDE**

[72] ENRIGHT, JOHN DAVID, US

[72] MERTEL, JACOB, US

[71] TMGCORE, LLC, US

[85] 2022-05-11

[86] 2020-11-10 (PCT/US2020/059833)

[87] (WO2021/096858)

[30] US (62/933,803) 2019-11-11

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[21] **3,158,085**
[13] A1

[51] **Int.Cl. H04N 7/10 (2006.01) H04N 21/61 (2011.01) H04J 3/16 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **R-PHY MAP ADVANCE TIME MEASUREMENT**

[54] **MESURE DE TEMPS D'AVANCE DE MAP DE R-PHY**

[72] FOLEY, STEPHEN ANDREW, US

[71] ARRIS ENTERPRISES LLC, US

[85] 2022-05-11

[86] 2020-11-25 (PCT/US2020/062375)

[87] (WO2021/108673)

[30] US (62/940,688) 2019-11-26

[21] **3,158,088**
[13] A1

[51] **Int.Cl. G06F 40/30 (2020.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DIALOG MANAGEMENT**

[54] **SYSTEMES ET PROCEDES DE GESTION DE DIALOGUE**

[72] ORR, MICHAEL, GB

[72] BURNS, NICOLA, GB

[72] WYSS, FELIX IMMANUEL, US

[71] GREENEDEN U.S. HOLDINGS II, LLC, US

[85] 2022-05-11

[86] 2020-11-20 (PCT/US2020/061536)

[87] (WO2021/102278)

[30] US (62/939,183) 2019-11-22

[21] **3,158,089**
[13] A1

[51] **Int.Cl. H04L 47/36 (2022.01)**

[25] EN

[54] **DISCOVERY AND ADJUSTMENT OF PATH MAXIMUM TRANSMISSION UNIT**

[54] **DECOUVERTE ET REGLAGE D'UNE UNITE DE TRANSMISSION MAXIMALE DE CHEMIN**

[72] MOMCHILOV, GEORGY, US

[72] JHA, RAKESH RANJAN, US

[72] HOLSAPPLE, JEFFREY, US

[72] RAJAGOPALAN, SRIDHARAN, US

[71] CITRIX SYSTEMS, INC., US

[85] 2022-05-11

[86] 2020-06-24 (PCT/US2020/039333)

[87] (WO2021/112921)

[30] US (62/942,620) 2019-12-02

[30] US (16/890,661) 2020-06-02

[21] **3,158,090**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/02 (2006.01) C07K 14/725 (2006.01)**

[25] EN

[54] **THERAPY FOR HEMATOPOIETIC CELL MALIGNANCIES USING GENETICALLY ENGINEERED T CELLS TARGETING CD70**

[54] **THERAPIE POUR LES MALIGNITES DES CELLULES HEMATOPOIETIQUES UTILISANT DES LYMPHOCYTES T GENETIQUEMENT MODIFIES CIBLANT CD70**

[72] DEQUEANT, MARY-LEE, US

[72] TERRETT, JONATHAN ALEXANDER, US

[72] WILL, MATTHIAS, US

[71] CRISPR THERAPEUTICS AG, CH

[85] 2022-05-11

[86] 2020-11-13 (PCT/IB2020/060718)

[87] (WO2021/095009)

[30] US (62/934,945) 2019-11-13

[30] US (63/034,510) 2020-06-04

[21] **3,158,091**
[13] A1

[51] **Int.Cl. B32B 7/12 (2006.01) B32B 17/06 (2006.01) E06B 3/67 (2006.01) E06B 9/24 (2006.01)**

[25] EN

[54] **COIL SKEW CORRECTION TECHNIQUES FOR ELECTRIC POTENTIALLY-DRIVEN SHADE, AND/OR ASSOCIATED METHODS**

[54] **TECHNIQUES DE CORRECTION DE DESALIGNEMENT DE BOBINES POUR STORES ELECTRIQUES COMMANDES PAR POTENTIEL, ET/OU PROCEDES ASSOCIES**

[72] GU, YABEI, US

[72] PETRMICHL, RUDOLPH, US

[71] GUARDIAN GLASS, LLC, US

[85] 2022-05-11

[86] 2021-02-17 (PCT/IB2021/051326)

[87] (WO2021/165844)

[30] US (16/792,348) 2020-02-17

[21] **3,158,092**
[13] A1

[51] **Int.Cl. C07C 51/16 (2006.01) B01J 23/42 (2006.01) B01J 23/52 (2006.01) C07C 59/01 (2006.01) C07C 59/245 (2006.01)**

[25] EN

[54] **PROCESSES FOR PREPARING ALDARIC, ALDONIC, AND URONIC ACIDS**

[54] **PROCEDES DE PREPARATION D'ACIDES ALDARIQUES, ALDONIQUES ET URONIQUES**

[72] ALBRECHT, KARL, US

[72] BRAZDIL, JAMES, US

[71] ARCHER DANIELS MIDLAND COMPANY, US

[85] 2022-05-11

[86] 2020-11-13 (PCT/US2020/060499)

[87] (WO2021/101810)

[30] US (62/936,861) 2019-11-18

[30] EP (20154275.0) 2020-01-29

[21] **3,158,093**
[13] A1

[51] **Int.Cl. F24H 1/18 (2022.01) F24H 1/20 (2006.01) F24H 9/12 (2022.01) F24H 9/18 (2022.01) F24H 9/20 (2022.01)**

[25] FR

[54] **TANK OF LIQUID ABLE TO BE HEATED**

[54] **RESERVOIR DE LIQUIDE APTE A ETRE CHAUFFE**

[72] BARENDRECHT, NATHALIE, FR

[72] SALLES, AURELIEN, FR

[71] SOCIETE COMMERCIALE ET D'ENGINEERING, FR

[85] 2022-05-11

[86] 2020-11-25 (PCT/FR2020/052169)

[87] (WO2021/105611)

[30] FR (FR1913518) 2019-11-29

[30] FR (FR1913514) 2019-11-29

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[21] **3,158,095**
[13] A1

[51] **Int.Cl. A61M 39/20 (2006.01)**
[25] EN
[54] **SINGLE USE CAPS AND COVERS FOR VASCULAR ACCESS DEVICES, AND KITS AND METHODS FOR USING THE SAME**
[54] **CAPUCHONS ET COUVERCLES A USAGE UNIQUE POUR DISPOSITIFS D'ACCES VASCULAIRE, ET KITS ET PROCEDES POUR UTILISER CEUX-CI**
[72] GRANT, JOHN, US
[72] CHAMBERS, DANIEL M., US
[71] CLEANSITE MEDICAL, INC., US
[85] 2022-05-11
[86] 2020-11-12 (PCT/US2020/060310)
[87] (WO2021/097147)
[30] US (62/933,661) 2019-11-11
[30] US (62/938,374) 2019-11-21
[30] US (62/940,886) 2019-11-27

[21] **3,158,097**
[13] A1

[51] **Int.Cl. F24D 17/00 (2022.01) F24H 1/18 (2022.01) F24H 1/20 (2006.01) F24H 9/12 (2022.01) F24H 9/18 (2022.01) F24H 9/20 (2022.01)**
[25] FR
[54] **DEVICE FOR PRODUCING HOT LIQUID**
[54] **DISPOSITIF DE PRODUCTION DE FLUIDE CHAUD**
[72] BARENDRECHT, NATHALIE, FR
[72] SALLES, AURELIEN, FR
[71] SOCIETE COMMERCIALE ET D'ENGINEERING, FR
[85] 2022-05-11
[86] 2020-11-25 (PCT/FR2020/052168)
[87] (WO2021/105610)
[30] FR (FR1913514) 2019-11-29
[30] FR (FR1913518) 2019-11-29

[21] **3,158,098**
[13] A1

[51] **Int.Cl. B01J 10/00 (2006.01) B01J 19/00 (2006.01) B01J 19/24 (2006.01) C07C 2/06 (2006.01) C07C 11/02 (2006.01) C07C 2/08 (2006.01) C07C 2/10 (2006.01) C07C 2/32 (2006.01)**
[25] FR
[54] **GAS/LIQUID OLIGOMERIZATION REACTOR COMPRISING TRANSVERSE INTERNALS**
[54] **REACTEUR GAZ/LIQUIDE D'OLIGOMERISATION COMPRENANT DES INTERNES TRANSVERSAX**
[72] AUGIER, FREDERIC, FR
[72] VONNER, ALEXANDRE, FR
[72] MAXIMIANO RAIMUNDO, PEDRO, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2022-05-11
[86] 2020-12-08 (PCT/EP2020/085018)
[87] (WO2021/122139)
[30] FR (FR1914760) 2019-12-18

[21] **3,158,099**
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01) C08B 30/12 (2006.01) C09J 103/02 (2006.01)**
[25] EN
[54] **SLURRY COMPRISING ACID-MODIFIED FLOUR, GYPSUM BOARD MADE FROM THIS SLURRY AND METHOD TO MAKE THIS GYPSUM BOARD**
[54] **SUSPENSION COMPRENANT DE LA FARINE MODIFIEE PAR UN ACIDE, PLAQUE DE PLATRE FABRIQUEE A PARTIR DE CETTE SUSPENSION ET PROCEDE DE FABRICATION DE CETTE PLAQUE DE PLATRE**
[72] SANG, YIJUN, US
[72] HEMPHILL, MARK, US
[71] UNITED STATES GYPSUM COMPANY, US
[85] 2022-05-11
[86] 2020-11-18 (PCT/US2020/061003)
[87] (WO2021/101960)
[30] US (62/939,173) 2019-11-22
[30] US (17/025,003) 2020-09-18

[21] **3,158,100**
[13] A1

[51] **Int.Cl. G01V 3/08 (2006.01) E21B 47/12 (2012.01) G01V 3/12 (2006.01)**
[25] EN
[54] **MAGNETIC SUSCEPTIBILITY AND CONDUCTIVITY MODULE**
[54] **MODULE DE SUSCEPTIBILITE ET DE CONDUCTIVITE MAGNETIQUE**
[72] WILSON, CORY BRYCE, US
[72] PRICE, TIMOTHY MERLE, US
[72] KOPLAN, CHRISTOPHER THOMAS, US
[71] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU
[85] 2022-05-11
[86] 2020-12-01 (PCT/AU2020/051307)
[87] (WO2021/108849)
[30] US (62/942,360) 2019-12-02

[21] **3,158,101**
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01) G16B 40/20 (2019.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EVALUATING LONGITUDINAL BIOLOGICAL FEATURE DATA**
[54] **SYSTEMES ET PROCEDES POUR EVALUER DES DONNEES DE CARACTERISTIQUE BIOLOGIQUE LONGITUDINALE**
[72] MAHER, M. CYRUS, US
[72] ARAVANIS, ALEX, US
[72] LAI, ANGELA, US
[72] VENN, OLIVER CLAUDE, US
[72] RAVA, RICHARD, US
[72] XIANG, JING, US
[72] MARCUS, JOSEPH, US
[71] GRAIL, LLC, US
[85] 2022-05-11
[86] 2020-11-25 (PCT/US2020/062350)
[87] (WO2021/108654)
[30] US (62/941,012) 2019-11-27

PCT Applications Entering the National Phase

[21] **3,158,102**
[13] A1

[51] **Int.Cl. E21B 21/12 (2006.01) E21B 17/04 (2006.01) E21B 17/18 (2006.01)**

[25] EN

[54] **IMPROVEMENT RELATING TO DRILL RODS**

[54] **AMELIORATION CONCERNANT DES TIGES DE FORAGE**

[72] SCHICKER, OWEN, NZ

[72] LYONS, GARETH, NZ

[71] FLEXIDRILL LIMITED, NZ

[85] 2022-05-11

[86] 2020-11-26 (PCT/IB2020/061162)

[87] (WO2021/105910)

[30] NZ (759597) 2019-11-27

[21] **3,158,103**
[13] A1

[51] **Int.Cl. A61K 31/513 (2006.01) A61P 31/04 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL COMPOUNDS AND METHODS**

[54] **COMPOSES ANTIMICROBIENS ET PROCEDES**

[72] SEBAHAR, PAUL R., US

[72] LOOPER, RYAN E., US

[72] TESTA, CHARLES A., US

[72] TRESKO, BENISAAC C., US

[72] HAUSSENER, TRAVIS J., US

[72] REDDY, HARIPRASADA R. KANNA, US

[72] GRANT, SETH, US

[71] CURZA GLOBAL, LLC, US

[71] THE UNIVERSITY OF UTAH RESEARCH FOUNDATION, US

[85] 2022-05-11

[86] 2020-11-12 (PCT/US2020/060185)

[87] (WO2021/097061)

[30] US (62/934,853) 2019-11-13

[21] **3,158,104**
[13] A1

[51] **Int.Cl. H04N 21/61 (2011.01) H04L 41/0895 (2022.01) H04L 47/70 (2022.01) H04J 11/00 (2006.01) H04L 12/64 (2006.01) H04L 27/34 (2006.01) H04N 7/10 (2006.01)**

[25] EN

[54] **AUTOMATED LIFECYCLE MANAGEMENT FLEXIBLE SCALING AND DYNAMIC RESOURCE ALLOCATION FOR VIRTUALIZED CABLE DATA PLANE APPLICATIONS**

[54] **ECHELONNEMENT SOUPLE ET ATTRIBUTION DYNAMIQUE DE RESSOURCES EN GESTION AUTOMATISEE DU CYCLE DE VIE POUR DES APPLICATIONS VIRTUALISEES DE PLAN DE DONNEES DE CABLE**

[72] ORBAN, MIRCEA, CA

[72] VIRAG, DAVID E., US

[72] CHARI, SANTHANA, US

[71] ARRIS ENTERPRISES LLC, US

[85] 2022-05-11

[86] 2020-11-20 (PCT/US2020/061468)

[87] (WO2021/108247)

[30] US (62/939,832) 2019-11-25

[21] **3,158,105**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING BOTULINUM TOXIN**

[54] **PROCEDE DE PRODUCTION DE TOXINE BOTULINIQUE**

[72] STAHL, ULF, SE

[72] FRANK, PETER, SE

[72] JARSTAD, ANDERS, SE

[72] PICKETT, ANDREW, SE

[71] GALDERMA HOLDING SA, CH

[71] IPSEN BIOPHARM LIMITED, GB

[85] 2022-05-11

[86] 2020-12-19 (PCT/IB2020/062252)

[87] (WO2021/124296)

[30] US (62/951,549) 2019-12-20

[21] **3,158,106**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C07K 1/14 (2006.01) C12M 3/06 (2006.01) C12N 9/48 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR GENERATING BIOLOGICAL MOLECULES**

[54] **PROCEDES ET SYSTEMES DE GENERATION DE MOLECULES BIOLOGIQUES**

[72] MARASH, DAVID, US

[71] CIPO, CA

[71] MACHINE BIO INC., US

[85] 2022-05-11

[86] 2020-11-13 (PCT/US2020/060585)

[87] (WO2021/097349)

[30] US (62/935,637) 2019-11-15

[21] **3,158,110**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01)**

[25] EN

[54] **RENAL CELL CARCINOMA (RCC) THERAPY USING GENETICALLY ENGINEERED T CELLS TARGETING CD70**

[54] **THERAPIE DU CARCINOME DES CELLULES RENALES (RCC) UTILISANT DES LYMPHOCYTES T GENETIQUEMENT MODIFIES CIBLANT CD70**

[72] TERRETT, JONATHAN ALEXANDER, US

[72] DEQUEANT, MARY-LEE, US

[72] WILL, MATTHIAS, US

[71] CRISPR THERAPEUTICS AG, CH

[85] 2022-05-11

[86] 2020-11-13 (PCT/IB2020/060719)

[87] (WO2021/095010)

[30] US (62/934,961) 2019-11-13

[30] US (63/034,552) 2020-06-04

Demandes PCT entrant en phase nationale

[21] **3,158,114**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01)**

[25] EN

[54] **CD70+ SOLID TUMOR THERAPY USING GENETICALLY ENGINEERED T CELLS TARGETING CD70**

[54] **THERAPIE CONTRE LES TUMEURS SOLIDES CD70+ FAISANT APPEL A DES LYMPHOCYTES T GENETIQUEMENT MODIFIES CIBLANT LE CD70**

[72] TERRETT, JONATHAN ALEXANDER, US

[72] DEQUEANT, MARY-LEE, US

[72] WILL, MATTHIAS, US

[71] CRISPR THERAPEUTICS AG, CH

[85] 2022-05-11

[86] 2020-11-13 (PCT/IB2020/060720)

[87] (WO2021/095011)

[30] US (62/934,975) 2019-11-13

[30] US (63/034,563) 2020-06-04

[21] **3,158,115**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 13/60 (2016.01) A23L 29/269 (2016.01) A23L 35/00 (2016.01)**

[25] EN

[54] **MOLDED-FOOD PROCESSING COMPOSITION**

[54] **COMPOSITION DE TRAITEMENT D'ALIMENT MOULE**

[72] KITAMURA, SHINGO, JP

[72] KISHIE, NAOKO, JP

[72] MATSUYAMA, YUSUKE, JP

[71] MITSUBISHI CORPORATION LIFE SCIENCES LIMITED, JP

[85] 2022-05-11

[86] 2020-11-18 (PCT/JP2020/043016)

[87] (WO2021/100766)

[30] JP (2019-207976) 2019-11-18

[21] **3,158,118**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C12N 5/0783 (2010.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **METHODS OF MANUFACTURING CAR-T CELLS**

[54] **PROCEDES DE FABRICATION DE LYMPHOCYTES CAR-T**

[72] CARSON, JULIE, US

[72] KALAITZIDIS, DEMETRIOS, US

[72] TAN, SIYUAN, US

[72] YU, HUI, US

[71] CRISPR THERAPEUTICS AG, CH

[85] 2022-05-11

[86] 2020-11-13 (PCT/IB2020/060722)

[87] (WO2021/095012)

[30] US (62/934,999) 2019-11-13

[21] **3,158,119**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 38/17 (2006.01) A61K 47/14 (2017.01) A61K 47/18 (2017.01)**

[25] EN

[54] **SUSTAINED RELEASE FORMULATIONS USING NON-AQUEOUS EMULSIONS**

[54] **FORMULATIONS A LIBERATION PROLONGEE UTILISANT DES EMULSIONS NON AQUEUSES**

[72] ZHAO, YIMING, US

[72] CHEN, HUNTER, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2022-05-11

[86] 2020-11-25 (PCT/US2020/062228)

[87] (WO2021/108548)

[30] US (62/940,009) 2019-11-25

[21] **3,158,122**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C12N 5/0783 (2010.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **MANUFACTURING PROCESS FOR MAKING T CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS**

[54] **PROCEDE POUR LA FABRICATION DE LYMPHOCYTES T EXPRIMANT DES RECEPTEURS CHIMERIQUES A L'ANTIGENE**

[72] YU, HUI, US

[72] KALAITZIDIS, DEMETRIOS, US

[72] TAN, SIYUAN, US

[71] CRISPR THERAPEUTICS AG, CH

[85] 2022-05-11

[86] 2020-11-13 (PCT/IB2020/060723)

[87] (WO2021/095013)

[30] US (62/934,991) 2019-11-13

[21] **3,158,123**
[13] A1

[51] **Int.Cl. C07D 407/12 (2006.01) C07D 409/12 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **AMIDE DERIVATIVE AND PREPARATION METHOD THEREFORE AND USE THEREOF IN MEDICINE**

[54] **DERIVE D'AMIDE ET SON PROCEDE DE PREPARATION ET SON APPLICATION EN MEDECINE**

[72] WEI, YONGGANG, CN

[72] CHU, HONGZHU, CN

[72] GAO, YUE, CN

[72] XIONG, LINGFENG, CN

[72] SU, GUIZHUAN, CN

[72] WANG, MEIWEI, CN

[72] SUN, YI, CN

[71] CHENGDU BAIYU PHARMACEUTICAL CO., LTD., CN

[85] 2022-05-11

[86] 2020-11-12 (PCT/CN2020/128446)

[87] (WO2021/093820)

[30] CN (201911103612.2) 2019-11-12

[30] CN (202010326231.7) 2020-04-23

[30] CN (202010679491.2) 2020-07-15

PCT Applications Entering the National Phase

[21] **3,158,133**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**
[25] EN
[54] **METHODS FOR CULTURING CELLS**
[54] **PROCEDES DE CULTURE DE CELLULES**
[72] VODNALA, SUMAN KUMAR, US
[72] EIL, ROBERT LANGLAND, US
[72] RESTIFO, NICHOLAS P., US
[71] LYELL IMMUNOPHARMA, INC., US
[85] 2022-05-11
[86] 2021-04-28 (PCT/US2021/029762)
[87] (WO2021/222479)
[30] US (63/016,907) 2020-04-28

[21] **3,158,139**
[13] A1

[51] **Int.Cl. F24F 11/52 (2018.01) H04W 4/38 (2018.01)**
[25] EN
[54] **APPARATUS FOR INTERPRETING, DISPLAYING AND TRANSMITTING STATUS AND ERROR OR FAULT CODES DISPLAYED ON AN ANOTHER DISPLAY**
[54] **MONITEUR D'AFFICHAGE**
[72] ETEMADI, SOBHAN, CA
[71] SOBIE SYSTEMS INC., CA
[85] 2022-05-11
[86] 2020-11-11 (PCT/IB2020/060628)
[87] (WO2021/094954)
[30] US (62/933,663) 2019-11-11

[21] **3,158,140**
[13] A1

[51] **Int.Cl. G01V 5/04 (2006.01) E21B 47/07 (2012.01) E21B 47/11 (2012.01) E21B 47/06 (2012.01) E21B 47/08 (2012.01) E21B 47/12 (2012.01) G01V 5/06 (2006.01) G01V 5/12 (2006.01)**
[25] EN
[54] **FIT FOR PURPOSE MEASUREMENT SYSTEM FOR DRILL HOLE LOGGING**
[54] **SYSTEME DE MESURE CONCU POUR L'USAGE PREVU POUR DIAGRAPHIE DE TROU DE FORAGE**
[72] LAWIE, DAVID CHARLES, AU
[72] KOPLAN, CHRISTOPHER THOMAS, US
[72] JACKSON, JOHN CARL, AU
[72] WILSON, CORY BRYCE, US
[72] HITCHEN, JOEL, US
[72] PELL, CHRISTOPHER, US
[72] BLAINE, FREDERICK, AU
[72] GUTTERUD, ERIK, US
[71] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU
[85] 2022-05-11
[86] 2020-12-01 (PCT/AU2020/051305)
[87] (WO2021/108847)
[30] US (62/942,353) 2019-12-02

[21] **3,158,141**
[13] A1

[51] **Int.Cl. A61F 5/00 (2006.01) A61F 5/01 (2006.01)**
[25] EN
[54] **LOWER LIMB EXOSKELETON**
[54] **EXOSQUELETTE DE MEMBRE INFERIEUR**
[72] MOONEY, LUKE, US
[72] DUVAL, JEAN-FRANCOIS, US
[72] BENZ, NICHOLAS, US
[72] CUMMINGS, JONATHAN, US
[72] MARVIN, WILLIAM, US
[71] DEPHY, INC., US
[85] 2022-05-12
[86] 2020-11-10 (PCT/US2020/059866)
[87] (WO2021/096874)
[30] US (62/934,111) 2019-11-12
[30] US (62/985,397) 2020-03-05

[21] **3,158,147**
[13] A1

[51] **Int.Cl. B61L 7/00 (2006.01) B61L 25/02 (2006.01) G01C 21/10 (2006.01) G01S 13/58 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO SUPERVISE VEHICLE POSITIONING INTEGRITY**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE L'INTEGRITE DE POSITIONNEMENT D'UN VEHICULE**
[72] GREEN, ALON, CA
[72] TOBIN, JAMES KEVIN, CA
[72] BATCHELOR, ANDREW, CA
[71] THALES CANADA INC., CA
[85] 2022-05-12
[86] 2020-12-10 (PCT/IB2020/061788)
[87] (WO2021/116982)
[30] US (62/946,024) 2019-12-10

[21] **3,158,160**
[13] A1

[51] **Int.Cl. B29C 48/25 (2019.01)**
[25] EN
[54] **EXTRUDER SCREW HANDLING DEVICE**
[54] **DISPOSITIF DE MANIPULATION DE VIS D'EXTRUDEUSE**
[72] KRISCHE, ANDREAS, CH
[72] VENKATESH, MANJUNATHA MUTAGUPPE, IN
[71] BUHLER AG, CH
[85] 2022-05-12
[86] 2020-06-11 (PCT/EP2020/066165)
[87] (WO2020/249658)
[30] CN (PCT/CN2019/090752) 2019-06-11

[21] **3,158,168**
[13] A1

[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 34/32 (2016.01) A61B 34/37 (2016.01) B25J 9/16 (2006.01)**
[25] EN
[54] **SURGICAL ROBOTIC SYSTEM**
[54] **SYSTEME ROBOTIQUE CHIRURGICAL**
[72] ARMAND, DAVID, FR
[72] LAVALLEE, STEPHANE, FR
[71] ECENTIAL ROBOTICS, FR
[85] 2022-05-12
[86] 2020-11-12 (PCT/EP2020/081903)
[87] (WO2021/094448)
[30] EP (19306463.1) 2019-11-12

Demandes PCT entrant en phase nationale

[21] **3,158,175**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 5/00 (2006.01) C07D 281/10 (2006.01)**

[25] EN

[54] **BENZOTHIAZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**

[54] **COMPOSES DE BENZOTHIAZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**

[72] GILLBERG, PER-GORAN, SE
[72] STARKE, INGEMAR, SE
[72] KULKARNI, SANTOSH S., IN
[71] ALBIREO AB, SE
[85] 2022-05-12
[86] 2020-12-04 (PCT/EP2020/084571)
[87] (WO2021/110887)
[30] IN (201911049985) 2019-12-04

[21] **3,158,177**
[13] A1

[51] **Int.Cl. A63B 9/00 (2006.01) A63F 9/00 (2006.01) A63F 9/24 (2006.01) A63G 31/00 (2006.01) G06F 3/01 (2006.01) G06F 3/16 (2006.01)**

[25] EN

[54] **INTERACTIVE PLAY SYSTEM**

[54] **SYSTEME DE JEU INTERACTIF**

[72] KELLER, THOMAS L., US
[72] BOWMAN, BRUCE M., US
[72] SIMMONS, RONALD V., US
[72] KIERSTEIN, LAU K., DK
[71] LANDSCAPE STRUCTURES INC., US

[85] 2022-05-12
[86] 2020-11-13 (PCT/US2020/060446)
[87] (WO2021/097232)
[30] US (62/935,262) 2019-11-14

[21] **3,158,181**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 5/00 (2006.01) C07D 281/10 (2006.01)**

[25] EN

[54] **BENZOTHIA(DI)AZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**

[54] **COMPOSES DE BENZOTHIA(DI)AZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**

[72] STARKE, INGEMAR, SE
[72] KULKARNI, SANTOSH S., IN
[72] GILLBERG, PER-GORAN, SE
[71] ALBIREO AB, SE
[85] 2022-05-12
[86] 2020-12-04 (PCT/EP2020/084570)
[87] (WO2021/110886)
[30] IN (201911049984) 2019-12-04

[21] **3,158,176**
[13] A1

[51] **Int.Cl. A61K 33/242 (2019.01) A61K 47/54 (2017.01) A61K 47/64 (2017.01) A61P 37/02 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR TREATMENT OF MULTIPLE SCLEROSIS**

[54] **COMPOSITION ET PROCEDE DE TRAITEMENT DE LA SCLEROSE EN PLAQUES**

[72] SUN, TAOLEI, CN
[71] WUHAN VAST CONDUCT SCIENCE FOUNDATION CO., LTD., CN
[85] 2022-05-12
[86] 2019-12-27 (PCT/CN2019/129264)
[87] (WO2021/128292)

[21] **3,158,179**
[13] A1

[51] **Int.Cl. H04J 3/06 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR LARGE PHASE CORRECTION IN R-PHY NETWORK ARCHITECTURES**

[54] **SYSTEMES ET PROCEDES DE CORRECTION MAJEURE DE PHASE DANS DES ARCHITECTURES DE RESEAU R-PHY**

[72] NEUGEBOREN, YAIR, IL
[71] ARRIS ENTERPRISES LLC, US
[85] 2022-05-12
[86] 2020-12-10 (PCT/US2020/064343)
[87] (WO2021/119336)
[30] US (62/946,308) 2019-12-10

[21] **3,158,182**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **CANNABIDIOL-TYPE CANNABINOID COMPOUND**

[54] **COMPOSE CANNABINOIDE DE TYPE CANNABIDIOL**

[72] GUY, GEOFFREY, GB
[72] KNAPPERTZ, VOLKER, GB
[72] WHALLEY, BENJAMIN, GB
[72] WOOLLEY-ROBERTS, MARIE, GB
[71] GW RESEARCH LIMITED, GB
[85] 2022-05-12
[86] 2020-11-18 (PCT/GB2020/052942)
[87] (WO2021/099781)
[30] GB (1916974.7) 2019-11-21

PCT Applications Entering the National Phase

[21] **3,158,184**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 1/16 (2006.01) A61P 3/06 (2006.01) A61P 9/00 (2006.01) C07D 285/36 (2006.01)**

[25] EN

[54] **BENZOTHIADIAZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**

[54] **COMPOSES DE BENZOTHIADIAZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**

[72] GILLBERG, PER-GORAN, SE

[72] STARKE, INGEMAR, SE

[72] KULKARNI, SANTOSH S., IN

[71] ALBIREO AB, SE

[85] 2022-05-12

[86] 2020-12-04 (PCT/EP2020/084569)

[87] (WO2021/110885)

[30] IN (201911049980) 2019-12-04

[21] **3,158,190**
[13] A1

[51] **Int.Cl. F24H 3/02 (2022.01) F02B 63/04 (2006.01)**

[25] EN

[54] **POWER AND HEAT GENERATOR SYSTEM AND RELATED METHODS**

[54] **SYSTEME GENERATEUR D'ENERGIE ET DE CHALEUR ET PROCEDES ASSOCIES**

[72] BOWEN, QUINN, CA

[71] THERMAL INTELLIGENCE INC., CA

[85] 2022-05-12

[86] 2020-11-20 (PCT/CA2020/051588)

[87] (WO2021/097580)

[30] US (62/939,058) 2019-11-22

[21] **3,158,192**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **CANNABIDIOL-TYPE CANNABINOID COMPOUND**

[54] **COMPOSE CANNABINOIDE DE TYPE CANNABIDIOL**

[72] GUY, GEOFFREY, GB

[72] KNAPPERTZ, VOLKER, GB

[72] WHALLEY, BENJAMIN, GB

[72] WOOLLEY-ROBERTS, MARIE, GB

[71] GW RESEARCH LIMITED, GB

[85] 2022-05-12

[86] 2020-11-18 (PCT/GB2020/052944)

[87] (WO2021/099783)

[30] GB (1916977.0) 2019-11-21

[21] **3,158,195**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 5/00 (2006.01) C07D 281/10 (2006.01)**

[25] EN

[54] **BENZOTHIA(DI)AZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**

[54] **COMPOSES DE BENZOTHIA(DI)AZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**

[72] GILLBERG, PER-GORAN, SE

[72] STARKE, INGEMAR, SE

[72] KULKARNI, SANTOSH S., IN

[71] ALBIREO AB, SE

[85] 2022-05-12

[86] 2020-12-04 (PCT/EP2020/084567)

[87] (WO2021/110883)

[30] IN (201911049982) 2019-12-04

[21] **3,158,199**
[13] A1

[51] **Int.Cl. G06K 19/077 (2006.01)**

[25] EN

[54] **CONTACTLESS CARD AND METHOD OF ASSEMBLY**

[54] **CARTE SANS CONTACT ET PROCEDE D'ASSEMBLAGE**

[72] OSBORN, KEVIN, US

[72] WURMFELD, DAVID, US

[71] CAPITAL ONE SERVICES, LLC, US

[85] 2022-05-12

[86] 2020-11-30 (PCT/US2020/062581)

[87] (WO2021/137987)

[30] US (16/731,337) 2019-12-31

[21] **3,158,206**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61B 6/00 (2006.01) A61K 38/00 (2006.01) A61K 51/04 (2006.01) A61P 25/28 (2006.01) C07F 5/02 (2006.01)**

[25] EN

[54] **MODIFIED IMMUNOGLOBULINS FOR TARGETING AMYLOID DEPOSITS CROSS-REFERENCE TO RELATED APPLICATIONS**

[54] **IMMUNOGLOBULINES MODIFIEES POUR CIBLER LES DEPOTS D'AMYLOIDE EN RENVOI ADES APPLICATIONS CONNEXES**

[72] WALL, JONATHAN S., US

[72] FOSTER, JAMES S., US

[72] GUTHRIE, SPENCER, US

[71] UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION, US

[71] ATTRALUS, INC., US

[85] 2022-05-12

[86] 2020-11-13 (PCT/US2020/060596)

[87] (WO2021/097360)

[30] US (62/936,002) 2019-11-15

[30] US (63/074,912) 2020-09-04

[21] **3,158,207**
[13] A1

[51] **Int.Cl. B29B 11/14 (2006.01) B29C 49/00 (2006.01) B29C 49/02 (2006.01) B32B 7/06 (2019.01) B65D 83/00 (2006.01) B29C 49/10 (2006.01) B29C 59/14 (2006.01) B67D 1/08 (2006.01) C08J 7/04 (2020.01)**

[25] EN

[54] **CONTAINER WITH A COATING LAYER**

[54] **CONTENANT PRESENTANT UNE COUCHE DE REVETEMENT**

[72] BAX, BART JAN, NL

[72] HEYBERGER, REGIS, FR

[72] SCHELTJENS, GILL, BE

[72] BOREK-DONTEN, JOANNA, BE

[71] HEINEKEN SUPPLY CHAIN B.V., NL

[85] 2022-05-12

[86] 2020-11-23 (PCT/NL2020/050735)

[87] (WO2021/101384)

[30] NL (2024298) 2019-11-22

Demandes PCT entrant en phase nationale

[21] **3,158,209**
[13] A1

[51] **Int.Cl. B65D 71/42 (2006.01)**
[25] EN
[54] **ARTICLE CARRIER AND BLANK THERFOR**
[54] **SUPPORT D'ARTICLE ET EBAUCHE ASSOCIEE**
[72] CHESNET, LAUREN N., US
[72] ZACHERLE, MATTHEW E., US
[72] WALLING, BRAD J., US
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2022-05-12
[86] 2020-11-09 (PCT/US2020/059717)
[87] (WO2021/101746)
[30] US (62/936,712) 2019-11-18

[21] **3,158,210**
[13] A1

[51] **Int.Cl. C08L 95/00 (2006.01) C08K 3/22 (2006.01) C08L 91/00 (2006.01)**
[25] EN
[54] **METHOD FOR THE PREPARATION OF BITUMEN AND INTERMEDIARY COMPOSITIONS**
[54] **PROCEDE POUR LA PREPARATION DE BITUME ET DE COMPOSITIONS INTERMEDIAIRES**
[72] OEST, STEFAN, DE
[72] SCHROEDER, SOENKE, DE
[72] ANDRESEN, THOMAS, DE
[71] TOTALENERGIES ONE TECH, FR
[85] 2022-05-12
[86] 2020-12-10 (PCT/EP2020/085553)
[87] (WO2021/116296)
[30] EP (19306626.3) 2019-12-11

[21] **3,158,212**
[13] A1

[51] **Int.Cl. H04B 1/525 (2015.01) H04B 7/06 (2006.01)**
[25] EN
[54] **TRANSMITTER SIGNAL CANCELLATION IN PHASED ARRAY TRANSCEIVERS**
[54] **ANNULATION DE SIGNAL D'EMETTEUR DANS DES EMETTEURS-RECEPTEURS A RESEAU A COMMANDE DE PHASE**
[72] NARDOZZA, GREGG S., US
[71] BLUE DANUBE SYSTEMS, INC., US
[85] 2022-05-12
[86] 2020-11-06 (PCT/US2020/059330)
[87] (WO2021/096770)
[30] US (62/934,148) 2019-11-12

[21] **3,158,213**
[13] A1

[51] **Int.Cl. B29B 11/14 (2006.01) B29C 49/00 (2006.01) B29C 49/02 (2006.01) B29C 49/22 (2006.01) B32B 7/06 (2019.01) B65D 83/00 (2006.01) C08J 7/18 (2006.01) B29C 49/10 (2006.01) B29C 59/14 (2006.01) B67D 1/08 (2006.01) C08J 7/04 (2020.01)**
[25] EN
[54] **BAG-IN-CONTAINER WITH A COATING LAYER**
[54] **CAISSE-OUTRE DOTEES D'UNE COUCHE DE REVETEMENT**
[72] BAX, BART JAN, NL
[72] HEYBERGER, REGIS, FR
[72] SCHELTJENS, GILL, BE
[72] BOREK-DONTEN, JOANNA, BE
[71] HEINEKEN SUPPLY CHAIN B.V., NL
[85] 2022-05-12
[86] 2020-11-23 (PCT/NL2020/050736)
[87] (WO2021/101385)
[30] NL (2024296) 2019-11-22

[21] **3,158,214**
[13] A1

[51] **Int.Cl. A61F 5/453 (2006.01) A61F 5/44 (2006.01) A61F 5/455 (2006.01)**
[25] EN
[54] **FLUID COLLECTION ASSEMBLIES INCLUDING ONE OR MORE LEAK PREVENTION FEATURES**
[54] **ENSEMBLES DE COLLECTE DE FLUIDE COMPRENANT UN OU PLUSIEURS ELEMENTS DE PREVENTION DE FUITE**
[72] ALDER, LARRY DEAN, US
[72] BARNES, NATHANIEL, US
[72] BOWLES, CAITLIN, US
[72] CHANCY, PATRICK HUDSON, US
[72] CHEN, JINGKUANG, US
[72] CISNEROS, JUAN ALEJANDRO SAAVEDRA, US
[72] DAVIS, BRANDT, US
[72] DAW, KYLE, US
[72] FERNANDEZ, RODRIGO, US
[72] FILBRUN, JOSEPH, US
[72] FRANKLIN, JEFF EDWARD, US
[72] GLOECKNER, CLAIRE, US
[72] HIETT, GINGER, US
[72] HINESLEY, HANNAH, US
[72] HUANG, PING, US
[72] HUGHETT, JAMES DAVID SR., US
[72] YOUNG JOYNER, MELISSA, US
[72] KNOLLMAN, KEVIN MICHAEL, US
[72] LAI, KUILIN, US
[72] LAMBERT, MICHAEL, US
[72] MADIGAN, HENRI, US
[72] SALIFU, HASSANA, US
[72] SAVAGE, MISTY, US
[72] SCHNELL, MICHELLE, US
[72] SIMIELE, DAVID, US
[72] TOURCHAK, MICHELLE, US
[72] WESNER, KYRA KORMOS, US
[72] WIER, MACKENZIE, US
[72] YANG, WANFEI, US
[71] PUREWICK CORPORATION, US
[85] 2022-05-12
[86] 2021-04-09 (PCT/US2021/026607)
[87] (WO2021/207621)
[30] US (63/008,112) 2020-04-10

PCT Applications Entering the National Phase

[21] **3,158,215**
[13] A1

[51] **Int.Cl. C07F 7/24 (2006.01) H01L 51/00 (2006.01) H01L 51/42 (2006.01) H01L 51/44 (2006.01)**

[25] EN

[54] **PEROVSKITE MATERIAL PHOTOVOLTAIC DEVICE AND METHOD FOR ASSEMBLY**

[54] **DISPOSITIF PHOTOVOLTAIQUE EN MATERIAU PEROVSKITE ET PROCEDE D'ASSEMBLAGE**

[72] IRWIN, MICHAEL, US

[72] HOLLAND, MICHAEL, US

[71] CUBICPV INC., US

[85] 2022-05-12

[86] 2020-11-04 (PCT/US2020/058874)

[87] (WO2021/096740)

[30] US (16/682,254) 2019-11-13

[21] **3,158,220**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SATELLITE CONSTELLATION MANAGEMENT AND SCHEDULING**

[54] **SYSTEME ET PROCEDE DE GESTION ET DE PLANIFICATION DE CONSTELLATION DE SATELLITES**

[72] SCHLOEMER, JEFFREY D., US

[72] THORPE, THOMAS W., US

[71] RAYTHEON COMPANY, US

[85] 2022-05-12

[86] 2021-03-08 (PCT/US2021/021408)

[87] (WO2021/211223)

[30] US (16/852,214) 2020-04-17

[21] **3,158,229**
[13] A1

[51] **Int.Cl. B05C 13/02 (2006.01) B05D 7/22 (2006.01)**

[25] EN

[54] **RESIN ADHESION FAILURE DETECTION**

[54] **DETECTION DE DEFAUT D'ADHERENCE DE RESINE**

[72] KITCHEN, RYAN SCOTT, US

[72] FISHER, BENJAMIN D., US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2022-05-12

[86] 2020-11-20 (PCT/US2020/061411)

[87] (WO2021/108233)

[30] US (62/941,183) 2019-11-27

[30] US (16/951,543) 2020-11-18

[21] **3,158,217**
[13] A1

[51] **Int.Cl. H01C 7/12 (2006.01)**

[25] EN

[54] **FAST ACTIVATION THERMAL FUSE FOR SHORT CIRCUIT CURRENT PROTECTION**

[54] **FUSIBLE THERMIQUE A ACTIVATION RAPIDE POUR PROTECTION CONTRE UN COURANT DE COURT-CIRCUIT**

[72] MIN, LONG, CN

[72] LU, LIBING, CN

[72] SONG, DONGJIAN, CN

[71] DONGGUAN LITTELFUSE ELECTRONICS COMPANY LIMITED, CN

[85] 2022-05-12

[86] 2020-05-11 (PCT/CN2020/089639)

[87] (WO2021/169046)

[30] CN (202020218035.3) 2020-02-27

[21] **3,158,221**
[13] A1

[51] **Int.Cl. A61K 51/10 (2006.01) A61N 5/10 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD FOR TREATING HEMATOLOGIC CANCERS**

[54] **COMPOSITION ET METHODE DE TRAITEMENT DE CANCERS HEMATOLOGIQUES**

[72] WACHTER, ERIC A., US

[72] JAIN, MOHIT, CA

[72] SWIFT, LUCY, CA

[72] THAKUR, SATBIR, CA

[72] RODRIGUES, DOMINIC, US

[72] ZHANG, CHUNFEN, CA

[72] NARENDRAN, ARU, CA

[71] PROTECTUS PHARMATECH, INC., US

[71] UTI LIMITED PARTNERSHIP, CA

[85] 2022-05-12

[86] 2019-11-19 (PCT/US2019/062184)

[87] (WO2021/101521)

[21] **3,158,233**
[13] A1

[51] **Int.Cl. B60C 27/18 (2006.01)**

[25] EN

[54] **SNOW COVER FOR TYRES**

[54] **CHAUSSETTE A NEIGE POUR DES PNEUS**

[72] SOUYRI, PHILIPPE, US

[72] IGIER, EMMANUEL, US

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2022-05-12

[86] 2019-12-30 (PCT/IB2019/061440)

[87] (WO2021/136955)

[21] **3,158,234**
[13] A1

[51] **Int.Cl. C07D 239/70 (2006.01) C07D 405/12 (2006.01)**

[25] EN

[54] **MATRIX METALLOPROTEINASE (MMP) INHIBITORS AND METHODS OF USE THEREOF**

[54] **INHIBITEURS DE METALLOPROTEINASE MATRICIELLE (MMP) ET LEURS PROCEDES D'UTILISATION**

[72] YANG, WENJIN, US

[72] CHANG, KAI-WEI, US

[71] FORESEE PHARMACEUTICALS CO., LTD., TW

[85] 2022-05-12

[86] 2020-11-13 (PCT/US2020/060387)

[87] (WO2021/097190)

[30] US (62/935,358) 2019-11-14

Demandes PCT entrant en phase nationale

[21] **3,158,235**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-B7-H3 MONOCLONAL ANTIBODY AND METHODS OF USE THEREOF**
[54] **ANTICORPS MONOCLONAL ANTI-B7-H3 ET SES PROCÉDES D'UTILISATION**
[72] PIWNICA-WORMS, DAVID, US
[72] GAMMON, SETH, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-05-12
[86] 2020-11-18 (PCT/US2020/061050)
[87] (WO2021/101991)
[30] US (62/936,783) 2019-11-18

[21] **3,158,237**
[13] A1

[51] **Int.Cl. G21C 7/22 (2006.01) G21C 9/033 (2006.01) G21D 3/04 (2006.01)**
[25] EN
[54] **DRY STAND-BY LIQUID CONTROL SYSTEM FOR A NUCLEAR REACTOR**
[54] **SYSTÈME DE COMMANDE DE LIQUIDE DE RÉSERVE SÈCHE POUR UN REACTEUR NUCLEAIRE**
[72] ANTHONY, GARY M., US
[71] GE-HITACHI NUCLEAR ENERGY AMERICAS LLC, US
[85] 2022-05-12
[86] 2020-12-28 (PCT/US2020/067144)
[87] (WO2021/138251)
[30] US (16/729,968) 2019-12-30

[21] **3,158,240**
[13] A1

[51] **Int.Cl. A61M 25/10 (2013.01) A61M 25/02 (2006.01) A61M 27/00 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **CATHETER AND CLICK CONNECTOR**
[54] **CATHETER ET CONNECTEUR A CLIQUET**
[72] DONG, MEILIN, US
[72] ELLIOTT, CHRISTOPHER STEPHEN, US
[72] MASSOUDI, RUSTIN, US
[71] CRM MEDICAL DEVICES, INC., US
[85] 2022-05-12
[86] 2021-01-05 (PCT/US2021/012195)
[87] (WO2021/141905)
[30] US (62/957,933) 2020-01-07

[21] **3,158,241**
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **ROCK INHIBITOR AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **INHIBITEUR DE ROCK, SON PROCÉDE DE PRÉPARATION ET SON UTILISATION**
[72] LI, JINPING, CN
[72] LOU, JUN, CN
[72] GUO, XIAODAN, CN
[72] ZENG, XIAN, CN
[72] CHEN, YONGKAI, CN
[72] ZHANG, YIHAN, CN
[72] PENG, WEI, CN
[72] WANG, CHAODONG, CN
[71] WUHAN LL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., CN
[85] 2022-05-12
[86] 2020-11-12 (PCT/CN2020/128244)
[87] (WO2021/093795)
[30] CN (201911121236.X) 2019-11-15

[21] **3,158,242**
[13] A1

[51] **Int.Cl. A61K 31/663 (2006.01) A61P 31/04 (2006.01) C07F 9/40 (2006.01)**
[25] EN
[54] **LIPOPHOSPHONOXINS, THEIR PREPARATION AND USE**
[54] **LIPOPHOSPHONOXINES, LEUR PRÉPARATION ET LEUR UTILISATION**
[72] REJMAN, DOMINIK, CZ
[72] POHL, RADEK, CZ
[72] MOJR, VIKTOR, CZ
[72] DO PHAM, DU Y DINH, CZ
[72] KOLAR, MILAN, CZ
[72] KRASNY, LIBOR, CZ
[71] USTAV ORGANICKE CHEMIE A BIOCHEMIE AV CR, V.V.I., CZ
[71] MIKROBIOLOGICKY USTAV AV CR, V.V.I., CZ
[71] UNIVERZITA PALACKEHO V OLOMOUCI, CZ
[85] 2022-05-12
[86] 2020-12-09 (PCT/CZ2020/050095)
[87] (WO2021/115503)
[30] CZ (PV 2019-769) 2019-12-12

[21] **3,158,243**
[13] A1

[51] **Int.Cl. A61F 2/14 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **STABLE FORMULATIONS OF SILK-DERIVED PROTEIN**
[54] **FORMULATIONS STABLES DE PROTEINE DERIVEE DE LA SOIE**
[72] LAWRENCE, BRIAN D., US
[72] INFANGER, DAVID W., US
[72] BAI, YUE, US
[72] PAULSON, NICHOLAS, US
[71] SILK TECHNOLOGIES, LTD., US
[85] 2022-05-12
[86] 2020-11-16 (PCT/US2020/060781)
[87] (WO2021/141672)
[30] US (62/936,294) 2019-11-15
[30] US (63/094,709) 2020-10-21
[30] US (63/094,748) 2020-10-21

PCT Applications Entering the National Phase

[21] **3,158,244**
[13] A1

[51] **Int.Cl. D21D 1/00 (2006.01) D21C 9/02 (2006.01)**
[25] EN
[54] **PREDICTIVE CONTROL SYSTEM AND METHOD FOR BROWN WASHING TREATMENT IN PULP MILLS**
[54] **SYSTEME ET PROCEDE DE COMMANDE PREDICTIVE POUR UN TRAITEMENT DE LAVAGE BRUN DANS DES USINES DE PATE A PAPIER**
[72] SCHROEN, MARK D., US
[72] ARREOLA, SERGIO, US
[72] WHITE, ROBERT BRIAN, US
[72] LUSK, RICHARD, US
[72] BRANDEBURG, NATE, US
[71] BUCKMAN LABORATORIES INTERNATIONAL, INC., US
[85] 2022-05-12
[86] 2020-11-13 (PCT/US2020/060507)
[87] (WO2021/097280)
[30] US (62/935,418) 2019-11-14

[21] **3,158,251**
[13] A1

[51] **Int.Cl. A63B 21/00 (2006.01)**
[25] EN
[54] **AUTOMATIC ARM TRAINING DEVICE, SYSTEM, AND METHOD**
[54] **DISPOSITIF, SYSTEME, ET PROCEDE D'ENTRAINEMENT AUTOMATISE DE BRAS**
[72] ROY, ANINDO, US
[72] MACKO, RICHARD F., US
[72] HENNESSIE, BRADLEY, US
[71] UNIVERSITY OF MARYLAND, BALTIMORE, US
[71] NEXTSTEP ROBOTICS, INC., US
[85] 2022-05-12
[86] 2020-12-17 (PCT/US2020/065605)
[87] (WO2021/127173)
[30] US (62/949,128) 2019-12-17

[21] **3,158,252**
[13] A1

[51] **Int.Cl. C07K 14/33 (2006.01)**
[25] EN
[54] **METHOD OF PURIFYING BOTULINUM TOXIN**
[54] **PROCEDE DE PURIFICATION DE LA TOXINE BOTULIQUE**
[72] STAHL, ULF, SE
[72] FRANK, PETER, SE
[72] JARSTAD, ANDERS, SE
[72] MUL, SEBASTIAAN, SE
[72] NOLIN, JOHN, SE
[72] NODQVIST, LENA, SE
[72] ABERG, SIMON, SE
[71] GALDERMA HOLDING SA, CH
[71] IPSEN BIOPHARM LIMITED, GB
[85] 2022-05-12
[86] 2020-12-19 (PCT/IB2020/062249)
[87] (WO2021/124295)
[30] US (62/951,828) 2019-12-20

[21] **3,158,255**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01)**
[25] EN
[54] **DEVICE FOR THE CERTIFIED MEASUREMENT OF ELECTRIC PARAMETERS AND CUSTOMERS' FLEXIBILITY BEHAVIOUR, AND FOR COMMUNICATING WITH A DISTRIBUTION SYSTEM OPERATOR**
[54] **DISPOSITIF DESTINE A LA MESURE CERTIFIEE DE PARAMETRES ELECTRIQUES ET DE COMPORTEMENT DE FLEXIBILITE DE CLIENTS ET A LA COMMUNICATION AVEC UN OPERATEUR DE SYSTEME DE DISTRIBUTION**
[72] DE LUCA, ERCOLE, IT
[72] RUGGIERI, FRANCESCO, IT
[72] DI BERARDINO, LORENZO, IT
[71] ACEA S.P.A., IT
[71] INDRA ITALIA S.P.A., IT
[71] APIO S.R.L., IT
[85] 2022-05-12
[86] 2020-11-13 (PCT/IB2020/060693)
[87] (WO2021/094994)
[30] IT (102019000021162) 2019-11-14

[21] **3,158,256**
[13] A1

[51] **Int.Cl. A61K 31/40 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **DRUG FORMULATIONS AND METHODS OF TREATMENT FOR METABOLIC DISORDERS**
[54] **FORMULATIONS MEDICAMENTEUSES ET METHODES DE TRAITEMENT DE TROUBLES METABOLIQUES**
[72] EDINGER, AIMEE, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-05-12
[86] 2020-11-13 (PCT/US2020/060513)
[87] (WO2021/097286)
[30] US (62/934,941) 2019-11-13

[21] **3,158,259**
[13] A1

[51] **Int.Cl. G02B 23/24 (2006.01) G01N 21/954 (2006.01)**
[25] EN
[54] **BORESCOPE**
[54] **BOROSCOPE**
[72] PETERS, JAN OKE, DE
[72] THIES, MICHAEL, DE
[72] RUEGG, THOMAS, CH
[72] WEDOW, SOREN, DE
[72] RASCHE, SVEN, DE
[72] TUPPATSCH, JENS-PETER, DE
[72] BAHR, SONKE, DE
[72] BATH, LUKAS, DE
[72] SCHUPPSTUHL, THORSTEN, DE
[72] MOSTAFA, TAREK, DE
[72] NEUMANN, OLIVER, DE
[71] LUFTHANSA TECHNIK AG, DE
[85] 2022-05-12
[86] 2020-11-13 (PCT/EP2020/082058)
[87] (WO2021/094533)
[30] DE (10 2019 130 949.2) 2019-11-15

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[21] **3,158,260**
[13] A1

[51] **Int.Cl. B25J 19/06 (2006.01)**
[25] EN
[54] **METHOD AND SETUP FOR FENCELESS ROBOTICS**
[54] **PROCEDE ET CONFIGURATION DANS LE CADRE DE LA ROBOTIQUE SANS BARRIERE**
[72] ZAK, ALEXANDER, US
[72] HARTLIEB, JOHANNES, AT
[71] MAGNA INTERNATIONAL INC., CA
[85] 2022-05-12
[86] 2020-12-04 (PCT/US2020/063234)
[87] (WO2021/113589)
[30] US (62/944,029) 2019-12-05

[21] **3,158,261**
[13] A1

[51] **Int.Cl. F41G 1/30 (2006.01) F41G 1/06 (2006.01) G02B 23/10 (2006.01) G03H 1/22 (2006.01)**
[25] EN
[54] **WEAPON SIGHT WITH TAPERED HOUSING**
[54] **UISEUR D'ARME A BOITIER EFFILE**
[72] SCHULTE, MARK EDWIN, US
[72] HEATH, ANTHONY, US
[71] EOTECH, LLC, US
[85] 2022-05-12
[86] 2020-11-16 (PCT/US2020/060702)
[87] (WO2021/113066)
[30] US (16/690,706) 2019-11-21

[21] **3,158,262**
[13] A1

[51] **Int.Cl. B29D 11/00 (2006.01) B29C 64/124 (2017.01) B29C 64/188 (2017.01) B33Y 40/20 (2020.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING AN OPTICAL COMPONENT WITH IMPROVED QUALITY SURFACE USING ADDITIVE MANUFACTURING**
[54] **PROCEDE DE FABRICATION D'UN COMPOSANT OPTIQUE A SURFACE DE QUALITE AMELIORE PAR FABRICATION ADDITIVE**
[72] LECOMPERE, MAXIME, FR
[72] LEITE, PIERRE, FR
[72] PADIOU, JEAN-MARC, FR
[72] THEODET, MANUEL, FR
[71] ESSILOR INTERNATIONAL, FR
[85] 2022-05-12
[86] 2020-12-23 (PCT/EP2020/087737)
[87] (WO2021/130293)
[30] EP (19306752.7) 2019-12-23

[21] **3,158,263**
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01)**
[25] EN
[54] **BORESCOPE WITH PATTERN PROJECTION**
[54] **BOROSCOPE A PROJECTION DE MOTIF**
[72] PETERS, JAN OKE, DE
[72] THIES, MICHAEL, DE
[72] WEDOW, SOREN, DE
[72] BLOCHER, RONALD, DE
[72] NEUMANN, OLIVER, DE
[72] MOSTAFA, TAREK, DE
[72] NEDDERMEYER, WERNER, LU
[72] BAHR, SONKE, DE
[72] RASCHE, SVEN, DE
[71] LUFTHANSA TECHNIK AG, DE
[85] 2022-05-12
[86] 2020-11-13 (PCT/EP2020/082059)
[87] (WO2021/094534)
[30] DE (10 2019 130 950.6) 2019-11-15

[21] **3,158,268**
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01)**
[25] EN
[54] **EMERGENCY AUTOMATIC INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION AUTOMATIQUE D'URGENCE**
[72] CARMEL, EHOUD, IL
[72] SHAKED, TSACHI, IL
[72] SARKOROV, DMITRI, IL
[72] RADAY, LIOR, IL
[72] DAILY, DAVID, IL
[71] E3D A.C.A.L, IL
[85] 2022-05-12
[86] 2020-11-18 (PCT/IL2020/051192)
[87] (WO2021/100039)
[30] US (62/937,264) 2019-11-19

[21] **3,158,269**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01)**
[25] EN
[54] **FILTER APPARATUS AND METHOD FOR PURIFYING BIOLOGICAL PROCESSES AND CELL POPULATIONS**
[54] **APPAREIL DE FILTRATION ET PROCEDE DE PURIFICATION DE PROCESSUS BIOLOGIQUES ET DE POPULATIONS DE CELLULES**
[72] LEVINSON, YONATAN, US
[72] SARGENT, ALEX, US
[72] UTH, NICHOLAS, US
[72] SHAFIGHI, FARJAD, US
[71] LONZA WALKERSVILLE, INC., US
[85] 2022-05-12
[86] 2021-01-08 (PCT/US2021/012639)
[87] (WO2021/142218)
[30] US (62/959,511) 2020-01-10
[30] US (62/959,555) 2020-01-10
[30] US (62/959,575) 2020-01-10
[30] US (63/109,991) 2020-11-05

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[21] **3,158,270**
[13] A1

[51] **Int.Cl. G01M 3/02 (2006.01) B65B 31/02 (2006.01) G01M 3/06 (2006.01) G01M 3/36 (2006.01) G01M 3/38 (2006.01)**

[25] EN
[54] **APPARATUS AND METHOD FOR TESTING PACKAGE INTEGRITY**
[54] **APPAREIL ET PROCEDURE POUR TESTER L'INTEGRITE D'UN EMBALLAGE**

[72] HAUG, BRIAN, US
[71] HAUG QUALITY, INC., US
[85] 2022-05-12
[86] 2020-12-04 (PCT/US2020/063350)
[87] (WO2021/113664)
[30] US (16/705,090) 2019-12-05

[21] **3,158,271**
[13] A1

[51] **Int.Cl. A47B 81/00 (2006.01) A63B 60/56 (2015.01)**

[25] EN
[54] **PORTABLE MOUNTABLE SPORTS STICK RACK**
[54] **RATELIER POUR BATONS DE SPORT PORTATIF ET MONTABLE**

[72] RICHARD, AARON, CA
[71] RICHARD, AARON, CA
[85] 2022-05-12
[86] 2020-11-12 (PCT/CA2020/051531)
[87] (WO2021/092685)
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[21] **3,158,273**
[13] A1

[51] **Int.Cl. B01D 69/14 (2006.01) B01D 71/68 (2006.01)**

[25] EN
[54] **POROUS MEMBRANES COMPRISING SORBENT PARTICLES FOR IMPROVED UREA CAPTURE**
[54] **MEMBRANES POREUSES COMPRENANT DES PARTICULES SORBANTES POUR CAPTURE AMELIOREE D'UREE**

[72] STAMATIALLIS, DIMITRIOS, NL
[72] GEREMIA, ILARIA, IT
[72] VAN NOSTRUM, CORNELUS FRANCISCUS, NL
[72] GUO, YONG, CN
[72] GERRITSEN, KARIN GERARDA FREDERIKA, NL
[72] SMAKMAN, ROBERT, NL
[72] HENNINK, WILHELMUS EVERHARDUS, NL
[72] JONG, JACOBUS ADRIANUS WILHELMUS, NL
[71] UMC UTRECHT HOLDING B.V., NL
[71] UNIVERSITEIT UTRECHT HOLDING B.V., NL
[71] UNIVERSITEIT TWENTE MESA RESEARCH INSTITUUT, NL
[71] STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN, NL

[85] 2022-05-12
[86] 2020-11-20 (PCT/EP2020/082897)
[87] (WO2021/099578)
[30] EP (19211034.4) 2019-11-22

[21] **3,158,275**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) G16B 30/00 (2019.01) G16B 40/00 (2019.01) G16B 40/20 (2019.01)**

[25] EN
[54] **CLASSIFIER MODELS TO PREDICT TISSUE OF ORIGIN FROM TARGETED TUMOR DNA SEQUENCING**
[54] **MODELES DE CLASSIFICATEUR POUR PREDIRE UN TISSU D'ORIGINE A PARTIR D'UN SEQUENCAGE D'ADN TUMORAL CIBLE**

[72] BERGER, MICHAEL F., US
[72] TAYLOR, BARRY S., US
[72] PENSON, ALEXANDER, US
[72] CAMACHO, NIEDZICA, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[85] 2022-05-12
[86] 2020-11-11 (PCT/US2020/059977)
[87] (WO2021/096932)
[30] US (62/934,848) 2019-11-13
[30] US (63/104,323) 2020-10-22

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[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) C07D 281/10 (2006.01)**

[25] EN
[54] **BENZOTHIA(DI)AZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**
[54] **COMPOSES DE BENZOTHIA(DI)AZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS D'ACIDE BILIAIRE**

[72] GILLBERG, PER-GORAN, SE
[72] STARKE, INGEMAR, SE
[72] KULKARNI, SANTOSH S., IN
[71] ALBIREO AB, SE

[85] 2022-05-12
[86] 2020-12-04 (PCT/EP2020/084568)
[87] (WO2021/110884)
[30] IN (201911049983) 2019-12-04

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[51] Int.Cl. C08F 12/14 (2006.01) A61K 31/765 (2006.01) A61P 13/12 (2006.01) B01J 20/26 (2006.01) C08F 2/20 (2006.01) C08F 8/06 (2006.01) C08F 8/20 (2006.01) C08J 9/28 (2006.01) C08L 25/18 (2006.01) C07C 45/52 (2006.01) C07C 45/62 (2006.01) C07C 45/64 (2006.01) C07C 45/66 (2006.01) C07C 49/794 (2006.01) C07C 49/80 (2006.01) C07C 49/835 (2006.01) C07C 49/86 (2006.01) C07D 317/26 (2006.01) C08F 8/10 (2006.01) C08F 8/12 (2006.01) C08F 112/14 (2006.01) C08F 212/08 (2006.01) C08F 212/14 (2006.01) C08F 212/36 (2006.01) C08L 25/08 (2006.01)	[51] Int.Cl. G06T 7/00 (2017.01) G06T 17/05 (2011.01) G06T 7/32 (2017.01)	[51] Int.Cl. G06T 7/10 (2017.01) G06T 17/05 (2011.01) G06T 7/11 (2017.01) G06T 7/12 (2017.01) G06T 7/50 (2017.01)
[25] EN	[25] EN	[25] EN
[54] MACROMOLECULAR COMPOSITIONS FOR BINDING SMALL MOLECULES	[54] TOPOGRAPHICAL BALLISTIC IDENTIFICATION WITH SECTION PROFILES AND COMPARISON SYSTEM	[54] METHOD AND SYSTEM FOR SCENE IMAGE MODIFICATION
[54] COMPOSITIONS MACROMOLECULAIRES POUR LA LIAISON DE PETITES MOLECULES	[54] IDENTIFICATION BALISTIQUE TOPOGRAPHIQUE AU MOYEN DE PROFILS DE SECTION ET SYSTEME DE COMPARAISON	[54] PROCEDE ET SYSTEME DE MODIFICATION D'IMAGES DE SCENE
[72] SMAKMAN, ROBERT, NL	[72] DERYA, VURAL, TR	[72] PUGH, BRIAN, US
[72] HENNINK, WILHELMUS EVERHARDUS, NL	[71] DERYA, VURAL, TR	[72] DORBIE, ANGUS, US
[72] GERRITSEN, KARIN GERARDA FREDERIKA, NL	[85] 2022-05-12	[72] JIDDI, SALMA, US
[72] JONG, JACOBUS ADRIANUS WILHELMUS, NL	[86] 2020-11-13 (PCT/TR2020/051099)	[72] DAI, QIQIN, US
[72] VAN NOSTRUM, CORNELUS FRANCISCUS, NL	[87] (WO2021/096476)	[72] GAUTHIER, PAUL, US
[71] STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN, NL	[30] TR (2019/17866) 2019-11-15	[72] EDER, MARC, US
[71] UNIVERSITEIT UTRECHT HOLDING B.V., NL		[72] YIN, JIANFENG, US
[71] UMC UTRECHT HOLDING B.V., NL	[21] 3,158,280 [13] A1	[72] MORALES, LUIS PUIG, US
[85] 2022-05-12	[51] Int.Cl. A61K 31/57 (2006.01) C12Q 1/68 (2018.01)	[72] OTRADA, MICHAEL, US
[86] 2020-11-20 (PCT/EP2020/082895)	[25] EN	[72] LIANOS, KONSTANTINOS NEKTARIOS, US
[87] (WO2021/099577)	[54] GANAXOLONE FOR USE IN TREATING TUBEROUS SCLEROSIS COMPLEX	[72] GUINDI, PHILIP, US
[30] EP (19210947.8) 2019-11-22	[54] GANAXOLONE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT DU COMPLEXE DE LA SCLEROSE TUBEREUSE	[72] TOTTY, BRIAN, US
	[72] AIMETTI, ALEX, US	[71] GEOMAGICAL LABS, INC., US
	[72] HULIHAN, JOSEPH, US	[85] 2022-05-12
	[72] BRAUNSTEIN, SCOTT, US	[86] 2020-11-12 (PCT/US2020/060280)
	[71] MARINUS PHARMACEUTICALS, INC., US	[87] (WO2021/097126)
	[85] 2022-05-12	[30] US (62/934,387) 2019-11-12
	[86] 2020-12-07 (PCT/US2020/063648)	
	[87] (WO2021/113834)	
	[30] US (62/944,549) 2019-12-06	

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[13] A1

[51] **Int.Cl. C07D 239/48 (2006.01) C07D 213/81 (2006.01) C07D 251/18 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 403/06 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **HETEROARYL COMPOUNDS AND THERAPEUTIC USES THEREOF IN CONDITIONS ASSOCIATED WITH THE ALTERATION OF THE ACTIVITY OF BETA-GLUCOCEREBROSIDASE**

[54] **COMPOSES HETEROARYLE ET LEURS UTILISATIONS THERAPEUTIQUES DANS DES CONDITIONS ASSOCIEES A L'ALTERATION DE L'ACTIVITE DE LA BETA-GLUCOCEREBROSIDASE**

[72] GARCIA COLLAZO, ANA MARIA, ES

[72] CUBERO JORDA, ELENA, ES

[72] BELLOTTO, MANOLO, CH

[72] FERNANDEZ IGLESIAS, ENRIQUE, ES

[71] GAIN THERAPEUTICS SA, CH

[85] 2022-05-12

[86] 2020-11-25 (PCT/IB2020/061158)

[87] (WO2021/105908)

[30] EP (19383037.9) 2019-11-25

[21] **3,158,289**
[13] A1

[51] **Int.Cl. A61K 9/68 (2006.01) A61K 47/56 (2017.01) A61K 31/05 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)**

[25] EN

[54] **CHEWING GUM CONTAINING SYNERGISTIC MEDICINAL COMPOUNDS**

[54] **GOMME A MACHER CONTENANT DES COMPOSES MEDICINAUX SYNERGIQUES**

[72] MOUSTAFA, MAHMOUD MOHAMED ABDRABO, CA

[71] LONDON PHARMACEUTICALS AND RESEARCH CORPORATION, CA

[85] 2022-05-12

[86] 2020-11-12 (PCT/CA2020/051530)

[87] (WO2021/092684)

[30] US (62/934,061) 2019-11-12

[21] **3,158,290**
[13] A1

[51] **Int.Cl. C07C 233/80 (2006.01) A61K 31/4178 (2006.01) A61K 31/4184 (2006.01) A61K 31/443 (2006.01) A61K 31/4725 (2006.01) C07C 237/40 (2006.01) C07C 311/21 (2006.01) C07D 213/40 (2006.01) C07D 237/20 (2006.01) C07D 307/16 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **ARYL AND HETEROARYL COMPOUNDS, AND THERAPEUTIC USES THEREOF IN CONDITIONS ASSOCIATED WITH THE ALTERATION OF THE ACTIVITY OF GALACTOCEREBROSIDASE**

[54] **COMPOSES ARYLE ET HETEROARYLE, LEURS UTILISATIONS THERAPEUTIQUES DANS DES CONDITIONS ASSOCIEES A L'ALTERATION DE L'ACTIVITE DE LA GALACTOCEREBROSIDASE**

[72] GARCIA COLLAZO, ANA MARIA, ES

[72] CUBERO JORDA, ELENA, ES

[72] BARRIL ALONSO, XAVIER, ES

[72] BELLOTTO, MANOLO, CH

[71] GAIN THERAPEUTICS SA, CH

[85] 2022-05-12

[86] 2020-11-25 (PCT/IB2020/061156)

[87] (WO2021/105906)

[30] EP (19383036.1) 2019-11-25

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[13] A1

[51] **Int.Cl. C09J 123/20 (2006.01)**

[25] EN

[54] **METALLOCENE-CATALYZED POLYBUTENE-1 HOT MELT ADHESIVE COMPOSITION AND ARTICLES INCLUDING THE SAME**

[54] **COMPOSITION ADHESIVE THERMOFUSIBLE A BASE DE POLYBUT-1-ENE FORME PAR CATALYSE AVEC UN METALLOCENE ET ARTICLES COMPRENANT CELLE-CI**

[72] DAVIS, KEVIN P., US

[72] WELTON, JAMES E., US

[72] PEDERSON, ADAM M., US

[71] H.B. FULLER COMPANY, US

[85] 2022-05-12

[86] 2020-12-18 (PCT/US2020/065876)

[87] (WO2021/127351)

[30] US (62/951,855) 2019-12-20

[21] **3,158,292**
[13] A1

[51] **Int.Cl. A61K 31/4965 (2006.01) A61K 45/06 (2006.01) A61P 9/12 (2006.01)**

[25] EN

[54] **METHODS OF TREATING PULMONARY ARTERIAL HYPERTENSION**

[54] **METHODES DE TRAITEMENT DE L'HYPERTENSION ARTERIELLE PULMONAIRE**

[72] MARESTA, ALESSANDRO, CH

[72] PERCHENET, LOIC, CH

[71] ACTELION PHARMACEUTICALS LTD, CH

[85] 2022-05-12

[86] 2020-11-27 (PCT/EP2020/083593)

[87] (WO2021/105331)

[30] US (62/941,910) 2019-11-29

[30] US (63/023,452) 2020-05-12

[30] US (63/076,149) 2020-09-09

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[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 47/18 (2017.01)**
[25] EN
[54] **LIPID COMPOSITION**
[54] **COMPOSITION LIPIDIQUE**
[72] SEKIGUCHI, TAKAHIRO, JP
[72] ENDO, TAISUKE, JP
[72] KANEUMI, SHUN, JP
[72] NORO, MASAKI, JP
[72] TANABE, SHINTARO, JP
[72] YAMAMOTO, MASAHIKO, JP
[71] FUJIFILM CORPORATION, JP
[85] 2022-05-12
[86] 2020-11-13 (PCT/JP2020/042513)
[87] (WO2021/095876)
[30] JP (2019-207118) 2019-11-15

[21] **3,158,294**
[13] A1

[51] **Int.Cl. B64D 27/26 (2006.01) B64F 5/50 (2017.01) B64D 27/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF RETROFITTING AN AIRCRAFT ENGINE TO AN AIRCRAFT**
[54] **SYSTEMES ET PROCEDES D'ADAPTATION D'UN MOTEUR D'AERONEF A UN AERONEF**
[72] MILLS, JAMES M., US
[71] AERO INNOVATIONS LLC, US
[85] 2022-05-12
[86] 2020-11-16 (PCT/US2020/060723)
[87] (WO2021/097422)
[30] US (62/936,060) 2019-11-15

[21] **3,158,295**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01)**
[25] EN
[54] **HUMANIZED MOUSE MODEL WITH HUMAN IMMUNE SYSTEM**
[54] **MODELE DE SOURIS HUMANISE AVEC SYSTEME IMMUNITAIRE HUMAIN**
[72] CHUPP, DANIEL, US
[72] ZAN, HONG, US
[72] CASALI, PAOLO, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-05-12
[86] 2020-11-13 (PCT/US2020/060409)
[87] (WO2021/097203)
[30] US (62/935,708) 2019-11-15

[21] **3,158,311**
[13] A1

[51] **Int.Cl. B02C 18/22 (2006.01) B02C 7/06 (2006.01) B02C 21/02 (2006.01)**
[25] EN
[54] **WASTE DESTRUCTION DEVICE FOR SHARPS, NEEDLES AND SOLID WASTE**
[54] **DISPOSITIF DE DESTRUCTION DE DECHETS POUR OBJETS TRANCHANTS, AIGUILLES ET DECHETS SOLIDES**
[72] DAVIS, MARK, US
[72] KEMP, ELIZABETH, US
[71] SAFE MEDICAL TECHNOLOGY, INC., US
[71] KEMP, ELIZABETH, US
[85] 2022-05-12
[86] 2020-11-17 (PCT/US2020/060856)
[87] (WO2021/101873)
[30] US (16/691,723) 2019-11-22

[21] **3,158,312**
[13] A1

[51] **Int.Cl. G02B 6/24 (2006.01)**
[25] EN
[54] **APPARATUS TO FABRICATE FIBER OPTIC SENSOR PROBES AND METHOD OF FABRICATION THEREOF**
[54] **APPAREIL DE FABRICATION DE SONDES DE CAPTEURS A FIBRES OPTIQUES ET SON PROCEDE DE FABRICATION**
[72] SAI, RAGHAVENDRA V.V., IN
[72] SWAMY, LAKSHMANA V.V., IN
[71] INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS), IN
[71] RICOVR HEALTHCARE INC., US
[85] 2022-05-12
[86] 2020-11-16 (PCT/IN2020/050962)
[87] (WO2021/095060)
[30] IN (201941046643) 2019-11-15

[21] **3,158,324**
[13] A1

[51] **Int.Cl. B64C 1/14 (2006.01)**
[25] FR
[54] **AIRCRAFT PRESSURIZED CABIN DOOR WITH A STRUCTURE FORMED BY BEAMS HAVING A VARYING CROSS-SECTION**
[54] **PORTE DE CABINE PRESURISEE D'AERONEF A STRUCTURE FORMEE DE POUTRES A SECTION EVOLUTIVE**
[72] KLISKY, MILOSLAV, CZ
[72] BORLOT, JEAN MICHEL, FR
[72] KRENA, JOSEF, CZ
[71] LATECOERE, FR
[85] 2022-05-13
[86] 2020-11-30 (PCT/EP2020/083831)
[87] (WO2021/110569)
[30] FR (FR1913588) 2019-12-02

[21] **3,158,338**
[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01)**
[25] EN
[54] **DRESSING COMPOSITION COMPRISING MICROALGAE PROTEIN**
[54] **COMPOSITION DE PANSEMENT COMPRENANT UNE PROTEINE DE MICRO-ALGUES**
[72] BOUWENS, ELISABETH CORNELIA MARIA, NL
[72] DRAAISMA, RENE BERNARDUS, NL
[71] UNILEVER IP HOLDINGS B.V., NL
[85] 2022-05-12
[86] 2020-11-05 (PCT/EP2020/081198)
[87] (WO2021/115691)
[30] EP (19216166.9) 2019-12-13

PCT Applications Entering the National Phase

[21] **3,158,352**
[13] A1

[51] **Int.Cl. A61K 31/4015 (2006.01) A61P 25/06 (2006.01) A61P 25/28 (2006.01) C07D 207/263 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07D 413/06 (2006.01)**

[25] EN

[54] **HETEROCYCLIC NMDA ANTAGONISTS**

[54] **ANTAGONISTES HETEROCYCLIQUES DE NMDA**

[72] IKEDA, SHUHEI, JP

[72] KAMATA, MAKOTO, JP

[72] OGURO, YUYA, JP

[72] AIDA, JUMPEI, JP

[72] TAWARAI, TAISUKE, JP

[72] WAKABAYASHI, TAKESHI, JP

[72] OYABU, NORIO, JP

[72] OCHIDA, ATSUKO, JP

[72] IWANAGA, KOUICHI, JP

[72] YAMAMOTO, SATOSHI, JP

[72] MURAKAMI, MASATAKA, JP

[72] NAKAMURA, MINORU, JP

[72] YAMAGUCHI, FUMIE, JP

[72] YUKAWA, TAKAFUMI, JP

[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2022-05-13

[86] 2020-11-12 (PCT/IB2020/000962)

[87] (WO2021/094832)

[30] JP (2019-206311) 2019-11-14

[21] **3,158,364**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 49/16 (2006.01)**

[25] EN

[54] **ANTI-ALPHA-SYNUCLEIN MONOCLONAL ANTIBODIES, AND METHODS USING SAME**

[54] **ANTICORPS MONOCLONAUX ANTI-ALPHA-SYNUCLEINE, ET PROCEDES D'UTILISATION CORRESPONDANTS**

[72] LUK, KELVIN C., US

[72] LEE, VIRGINIA M.Y., US

[72] TROJANOWSKI, JOHN Q., US

[72] BRUNDEN, KURT R., US

[72] COVELL, DUSTIN, US

[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US

[85] 2022-05-13

[86] 2020-11-19 (PCT/US2020/061376)

[87] (WO2021/102197)

[30] US (62/937,636) 2019-11-19

[21] **3,158,371**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01)**

[25] EN

[54] **COMPOUNDS, COMPOSITIONS, AND METHODS FOR TREATING ISCHEMIA-REPERFUSION INJURY AND/OR LUNG INJURY**

[54] **COMPOSES, COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE LESION D'ISCHEMIE-REPERFUSION ET/OU D'UNE LESION PULMONAIRE**

[72] WU, DIANQING, US

[72] YUAN, QIANYING, US

[72] TANG, WENWEN, US

[71] YALE UNIVERSITY, US

[85] 2022-05-13

[86] 2020-11-17 (PCT/US2020/060906)

[87] (WO2021/101902)

[30] US (62/938,083) 2019-11-20

[21] **3,158,372**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01) G01N 33/497 (2006.01)**

[25] EN

[54] **LIFECYCLE ASSESSMENT SYSTEMS AND METHODS FOR DETERMINING EMISSIONS FROM ANIMAL PRODUCTION**

[54] **SYSTEMES ET PROCEDES D'EVALUATION DE CYCLE DE VIE POUR DETERMINER DES EMISSIONS PROVENANT DE LA PRODUCTION ANIMALE**

[72] BEAL, COLIN, US

[71] LOW CARBON BEEF LLC, US

[85] 2022-05-13

[86] 2020-11-15 (PCT/US2020/060640)

[87] (WO2021/097388)

[30] US (62/935,774) 2019-11-15

[30] US (17/098,415) 2020-11-15

[21] **3,158,373**
[13] A1

[51] **Int.Cl. B05B 1/08 (2006.01)**

[25] EN

[54] **SWEEPING JET DEVICE WITH MULTIDIRECTIONAL OUTPUT**

[54] **DISPOSITIF A JET DE BALAYAGE A SORTIE MULTIDIRECTIONNELLE**

[72] TOMAC, MEHMET, US

[71] OHIO STATE INNOVATION FOUNDATION, US

[85] 2022-05-13

[86] 2019-11-14 (PCT/US2019/061505)

[87] (WO2021/096515)

[21] **3,158,375**
[13] A1

[51] **Int.Cl. H05K 7/14 (2006.01)**

[25] EN

[54] **ELECTRONIC APPARATUS, CIRCUIT ASSEMBLY, AND ASSOCIATED METHOD**

[54] **APPAREIL ELECTRONIQUE, ENSEMBLE CIRCUIT ET PROCEDE ASSOCIE**

[72] PAWAR, PRATIK NARENDRA, IN

[72] YEMAWAR, SAURABH SURESH, IN

[71] EATON INTELLIGENT POWER LIMITED, IE

[85] 2022-05-13

[86] 2020-11-12 (PCT/EP2020/025512)

[87] (WO2021/093994)

[30] US (16/683,676) 2019-11-14

[21] **3,158,376**
[13] A1

[51] **Int.Cl. B01J 8/44 (2006.01) C07C 253/26 (2006.01)**

[25] EN

[54] **GAS DISTRIBUTION PLATE, FLUIDIZING DEVICE AND REACTION METHOD**

[54] **PLAQUE DE DISTRIBUTION DE GAZ, DISPOSITIF DE FLUIDISATION ET PROCEDE DE REACTION**

[72] ZHAO, LE, CN

[72] WU, LIANGHUA, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY SINOPEC, CN

[85] 2022-05-13

[86] 2020-11-18 (PCT/CN2020/129819)

[87] (WO2021/098728)

[30] CN (201911153609.1) 2019-11-20

[21] **3,158,378**
[13] A1

[51] **Int.Cl. F03G 1/04 (2006.01) F03G 1/08 (2006.01)**

[25] EN

[54] **ELASTIC MOTOR**

[54] **MOTEUR ELASTIQUE**

[72] SANGEORZAN, PAUL, RO

[72] SANGEORZAN, MIRCEA, RO

[72] SANGEORZAN, PATRICK, RO

[71] SANGEORZAN, MIRCEA, RO

[85] 2022-05-13

[86] 2020-11-17 (PCT/RO2020/050011)

[87] (WO2021/101400)

[30] RO (A2019 00756) 2019-11-18

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,158,379 [13] A1</p> <p>[51] Int.Cl. C07D 237/14 (2006.01) A61P 5/16 (2006.01) C07D 237/16 (2006.01) C07D 237/18 (2006.01) C07D 403/10 (2006.01) C07D 403/12 (2006.01)</p> <p>[25] EN</p> <p>[54] 1,2,4-TRIAZINE-3,5-DIONE COMPOUND, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF</p> <p>[54] COMPOSE DE 1,2,4-TRIAZINE-3,5-DIONE, SON PROCEDE DE PREPARATION ET SON UTILISATION</p> <p>[72] LV, HEJUN, CN [72] WANG, PENG, CN [72] LIANG, HUI, CN [72] GUO, FEI, CN [72] YE, WENWU, CN [72] REN, LIFENG, CN [72] LIU, JUN, CN [71] KPC PHARMACEUTICALS, INC., CN [71] SHANGHAI KUNHENG PHARMA-TECH CO., LTD, CN [85] 2022-05-13 [86] 2020-11-25 (PCT/CN2020/131367) [87] (WO2021/104288) [30] CN (201911177482.7) 2019-11-26</p>	<p style="text-align: center;">[21] 3,158,383 [13] A1</p> <p>[51] Int.Cl. B01J 8/24 (2006.01) C07C 253/26 (2006.01) C07C 255/08 (2006.01)</p> <p>[25] EN</p> <p>[54] FLUIDIZED BED REACTOR, HEAT REMOVAL WATER PIPE AND APPLICATION THEREOF IN ACRYLONITRILE PRODUCTION</p> <p>[54] REACTEUR A LIT FLUIDISE, TUYAU D'EAU CHAUDE RETIRE ET APPLICATION DE CELUI-CI DANS LA PRODUCTION D'ACRYLONITRILE</p> <p>[72] ZHAO, LE, CN [72] WU, LIANGHUA, CN [71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN [71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY SINOPEC, CN [85] 2022-05-13 [86] 2020-11-18 (PCT/CN2020/129820) [87] (WO2021/098729) [30] CN (201911152105.8) 2019-11-20</p>	<p style="text-align: center;">[21] 3,158,387 [13] A1</p> <p>[51] Int.Cl. A41C 3/04 (2006.01) A41C 1/06 (2006.01)</p> <p>[25] EN</p> <p>[54] MOISTURE RETAINING ARTICLE</p> <p>[54] ARTICLE DE RETENTION D'HUMIDITE</p> <p>[72] RIHA-SCOTT, FRANTISEK, NZ [71] RSD HOLDINGS LIMITED, NZ [85] 2022-05-13 [86] 2020-11-19 (PCT/IB2020/060882) [87] (WO2021/099972) [30] NZ (759341) 2019-11-19</p>
<p style="text-align: center;">[21] 3,158,382 [13] A1</p> <p>[51] Int.Cl. C12Q 1/6806 (2018.01)</p> <p>[25] EN</p> <p>[54] NUCLEIC ACID PURIFICATION METHOD</p> <p>[54] PROCEDE DE RAFFINAGE D'ACIDES NUCLEIQUES</p> <p>[72] LIM, HWAYEON, KR [72] KIM, MIN JONG, KR [72] OH, CHANGYUB, KR [72] KIM, IL CHUL, KR [72] KIM, GYEONGHWAN, KR [72] KIM, YU SHIN, KR [71] CJ CHEILJEDANG CORPORATION, KR [85] 2022-05-13 [86] 2020-09-09 (PCT/KR2020/012166) [87] (WO2021/101042) [30] KR (10-2019-0149798) 2019-11-20</p>	<p style="text-align: center;">[21] 3,158,384 [13] A1</p> <p>[51] Int.Cl. A61K 31/05 (2006.01) A61K 31/222 (2006.01) A61K 36/63 (2006.01) A61P 19/02 (2006.01)</p> <p>[25] EN</p> <p>[54] COMBINATION CANNABINOID-PHENYLETHANOID FORMULATION FOR TREATMENT OF INFLAMMATION AND METHODS RELATED THERETO</p> <p>[54] FORMULATION DE COMBINAISON CANNABINOIDE-PHENYLETHANOIDE POUR LE TRAITEMENT D'UNE INFLAMMATION ET PROCEDES ASSOCIES</p> <p>[72] SCHMIDT, DAVID BRADLEY, US [72] GRAY, ALANA L., US [72] COLEMAN, DAVID T., US [71] CANOLE LLC, US [85] 2022-05-13 [86] 2020-11-20 (PCT/US2020/061655) [87] (WO2021/102358) [30] US (62/938,123) 2019-11-20</p>	<p style="text-align: center;">[21] 3,158,388 [13] A1</p> <p>[51] Int.Cl. A23L 11/00 (2021.01)</p> <p>[25] FR</p> <p>[54] METHOD FOR ANNEALING PEA STARCH</p> <p>[54] PROCEDE D'ANNEALING DE L'AMIDON DE POIS</p> <p>[72] PARCQ, JULIEN, FR [72] DUPONT, ALBAN, FR [72] ALBERT, MARIE, FR [72] DESAILLY, FABRICE, FR [71] ROQUETTE FRERES, FR [85] 2022-05-13 [86] 2020-11-19 (PCT/FR2020/052134) [87] (WO2021/099747) [30] FR (FR1913099) 2019-11-22 [30] US (62/976,508) 2020-02-14</p>

PCT Applications Entering the National Phase

[21] **3,158,390**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/4045 (2006.01) A61K 31/706 (2006.01) A61P 19/02 (2006.01)**

[25] EN

[54] **COMBINATION CANNABINOID-NAD+ PRECURSOR FORMULATION FOR TREATMENT OF INFLAMMATION AND METHODS RELATED THERETO**

[54] **FORMULATION COMBINANT UN CANNABINOIDE ET UN PRECURSEUR DE NAD+ POUR LE TRAITEMENT D'UNE INFLAMMATION ET PROCEDES ASSOCIES**

[72] SCHMIDT, DAVID BRADLEY, US
[72] GRAY, ALANA L., US
[72] COLEMAN, DAVID T., US
[71] CANOLE LLC, US
[85] 2022-05-13
[86] 2020-11-20 (PCT/US2020/061648)
[87] (WO2021/102353)
[30] US (62/938,099) 2019-11-20

[21] **3,158,398**
[13] A1

[51] **Int.Cl. E01C 13/08 (2006.01) B01J 20/04 (2006.01)**

[25] EN

[54] **ARAGONITE BASED GROUND COVERING**

[54] **RETELEMENT DE SOL A BASE D'ARAGONITE**

[72] MEHERG, HAROLD, US
[72] MYERS, ANTHONY, US
[72] SOON-SHIONG, PATRICK, US
[71] CALCEAN MINERALS AND MATERIALS, LLC, US
[71] NANT HOLDINGS IP, LLC, US
[85] 2022-05-13
[86] 2020-11-13 (PCT/IB2020/060721)
[87] (WO2021/123951)
[30] US (62/948,746) 2019-12-16

[21] **3,158,401**
[13] A1

[51] **Int.Cl. A61K 39/42 (2006.01) A61K 38/10 (2006.01) A61K 39/12 (2006.01) A61K 39/39 (2006.01) A61P 31/14 (2006.01) C07K 7/08 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **HUMAN ANTIBODIES THAT NEUTRALIZE ZIKA VIRUS AND METHODS OF USE THEREFOR**

[54] **ANTICORPS HUMAINS NEUTRALISANT LE VIRUS ZIKA ET LEURS PROCEDES D'UTILISATION**

[72] CROWE, JAMES E. JR., US
[72] CARNAHAN, ROBERT H., US
[72] GILCHUK, PAVLO, US
[71] VANDERBILT UNIVERSITY, US
[85] 2022-05-13
[86] 2020-11-09 (PCT/US2020/059604)
[87] (WO2021/101739)
[30] US (62/937,603) 2019-11-19

[21] **3,158,402**
[13] A1

[51] **Int.Cl. F01K 23/08 (2006.01) F01K 23/12 (2006.01) F01K 25/10 (2006.01)**

[25] EN

[54] **PLANT BASED UPON COMBINED JOULE-BRAYTON AND RANKINE CYCLES WORKING WITH DIRECTLY COUPLED RECIPROCATING MACHINES**

[54] **INSTALLATION FONDEE SUR DES CYCLES DE JOULE-BRAYTON ET DE RANKINE COMBINES FONCTIONNANT AVEC DES MACHINES A MOUVEMENT ALTERNATIF ACCOUPLEES DIRECTEMENT**

[72] NASINI, ERNESTO, IT
[72] SANTINI, MARCO, IT
[72] BAGAGLI, RICCARDO, IT
[72] BELLANTONE, FRANCESCO, IT
[72] CHIESI, FRANCESCO, IT
[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2022-05-13
[86] 2020-11-12 (PCT/EP2020/025513)
[87] (WO2021/098985)
[30] IT (102019000021987) 2019-11-22

[21] **3,158,403**
[13] A1

[51] **Int.Cl. C07K 14/195 (2006.01) A61K 38/46 (2006.01) C12N 9/22 (2006.01) C12Q 1/34 (2006.01)**

[25] EN

[54] **CRISPR-CAS EFFECTOR POLYPEPTIDES AND METHODS OF USE THEREOF**

[54] **POLYPEPTIDES EFFECTEURS CRISPR-CAS ET LEURS METHODES D'UTILISATION**

[72] DOUDNA, JENNIFER A., US
[72] AL-SHAYEB, BASEM, US
[72] BANFIELD, JILLIAN F., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-05-13
[86] 2020-12-22 (PCT/US2020/066672)
[87] (WO2021/133829)
[30] US (62/952,909) 2019-12-23

[21] **3,159,858**
[13] A1

[51] **Int.Cl. F04D 13/06 (2006.01) F04D 15/00 (2006.01) H02J 9/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MANAGING TRANSIENT POWER DISRUPTIONS ON ESP MOTOR DRIVES**

[54] **SYSTEME ET PROCEDE DE GESTION DES PERTURBATIONS D'ENERGIE TRANSITOIRES DE L'ALIMENTATION SUR DES ENTRAINEMENTS A MOTEURS ESP**

[72] WILLIAMS, GARY, US
[72] TYSHKO, ALEXEY, US
[72] REEVES, BRIAN, US
[72] JOHNSON, CURTIS, US
[72] ETTER, NATHAN, US
[72] OUF, MOHAMED, US
[72] JOSHI, MAHENDRA, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-05-27
[86] 2020-12-14 (PCT/US2020/064915)
[87] (WO2021/119608)
[30] US (62/947,382) 2019-12-12

Demandes PCT entrant en phase nationale

[21] **3,159,861**
[13] A1

[51] **Int.Cl. F01D 11/02 (2006.01) F01D 25/24 (2006.01) F16J 15/44 (2006.01) F16J 15/447 (2006.01)**

[25] EN

[54] **COMPOSITE SEAL STRUCTURE FOR A MACHINE, AND METHOD OF MANUFACTURING THE COMPOSITE SEAL STRUCTURE**

[54] **STRUCTURE DE JOINT COMPOSITE POUR UNE MACHINE, ET PROCEDE DE FABRICATION DE LA STRUCTURE DE JOINT COMPOSITE**

[72] RIZZO, EMANUELE, IT
[72] TEMPESTINI, MASSIMILIANO, IT
[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT

[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/025545)
[87] (WO2021/115626)
[30] IT (102019000023850) 2019-12-12

[21] **3,160,092**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 47/08 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) C08J 3/24 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **BIODEGRADABLE POLYMERIC COMPOSITIONS, METHODS OF PREPARATION AND USES THEREOF**

[54] **COMPOSITIONS POLYMERES BIODEGRADABLES, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS**

[72] SINTOV, AMNON, IL
[71] B.G. NEGEV TECHNOLOGIES AND APPLICATIONS LTD., AT BENGURION UNIVERSITY, IL

[85] 2022-05-31
[86] 2020-12-03 (PCT/IL2020/051248)
[87] (WO2021/111446)
[30] US (62/943,824) 2019-12-05

[21] **3,161,946**
[13] A1

[51] **Int.Cl. C01B 32/05 (2017.01) B01J 23/06 (2006.01) B01J 23/843 (2006.01) B01J 31/02 (2006.01) B01J 35/12 (2006.01) C01B 3/26 (2006.01)**

[25] EN

[54] **LIQUID METAL CONDENSATE CATALYZED HYDROCARBON PYROLYSIS**

[54] **PYROLYSE D'HYDROCARBURES CATALYSEE PAR UN CONDENSAT DE METAL LIQUIDE**

[72] RIVEST, JESSICA LOUIS BAKER, US
[72] DESAI, DIVYARAJ, US
[72] BOYSEN, DANE ANDREW, US
[72] PATTEKAR, ASHISH V., US
[71] PALO ALTO RESEARCH CENTER INCORPORATED, US

[85] 2022-05-13
[86] 2020-12-02 (PCT/US2020/062787)
[87] (WO2021/113288)
[30] US (62/944,513) 2019-12-06
[30] US (17/022,503) 2020-09-16

[21] **3,160,053**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 25/00 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR TREATING FAMILIAL DYSAUTONOMIA**

[54] **COMPOSES POUR LE TRAITEMENT DE LA DYSAUTONOMIE FAMILIALE**

[72] ZHANG, NANJING, US
[72] ARNOLD, MICHAEL A., US
[72] DAKKA, AMAL, US
[72] KARP, GARY MITCHELL, US
[72] LUONG, TOM TUAN, US
[72] MORRILL, CHRISTIE, US
[72] NARASIMHAN, JANA, US
[72] NARYSHKIN, NIKOLAI A., US
[72] TURPOFF, ANTHONY, US
[72] WANG, JIASHI, US
[72] ZHANG, XIAOYAN, US
[71] PTC THERAPEUTICS, INC., US

[85] 2022-05-30
[86] 2020-12-07 (PCT/US2020/063612)
[87] (WO2021/118929)
[30] US (62/947,049) 2019-12-12

[21] **3,160,985**
[13] A1

[25] EN

[54] **EXPERT MATCHING THROUGH WORKLOAD INTELLIGENCE**

[54] **CORRESPONDANCE D'EXPERT AU MOYEN DES RENSEIGNEMENTS DE CHARGE DE TRAVAIL**

[72] NGUYEN, QUANG, US
[72] BEERHAM, DIVYA, US
[72] LI, YUNQI, US
[72] BROWN, STEVEN JAMES, US
[72] YUCHEN, NEO, US
[71] INTUIT INC., US

[85] 2022-05-30
[86] 2021-12-16 (PCT/US2021/063655)
[87] (3160985)
[30] US (63/128,410) 2020-12-21
[30] US (17/189,812) 2021-03-02

[21] **3,162,422**
[13] A1

[51] **Int.Cl. C10B 53/07 (2006.01) C10G 1/00 (2006.01) C10G 1/06 (2006.01) C10G 1/10 (2006.01) C10G 3/00 (2006.01) C10G 9/36 (2006.01) C10G 19/02 (2006.01) C10G 21/00 (2006.01) C10G 55/04 (2006.01)**

[25] EN

[54] **METHOD FOR UPGRADING LIQUEFIED WASTE PLASTICS**

[54] **PROCEDE DE VALORISATION DE DECHETS PLASTIQUES LIQUEFIES**

[72] PASANEN, JUKKA-PEKKA, FI
[72] PAASIKALLIO, VILLE, FI
[72] VAPOLA, RISTO, FI
[72] OJALA, ANTTI, FI
[71] NESTE OYJ, FI

[85] 2022-05-20
[86] 2020-11-27 (PCT/EP2020/083583)
[87] (WO2021/105327)
[30] FI (20196035) 2019-11-29

[21] **3,161,576**
[13] A1

[25] EN

[54] **MAGNETIC NERVE STIMULATOR**

[54] **STIMULATEUR DE NERF MAGNETIQUE**

[72] PAULUS, KENNETH, US
[71] PAULUS, KENNETH, US

[85] 2022-06-01
[86] 2020-12-04 (PCT/US2020/063271)
[87] (3161576)
[30] US (62/943,660) 2019-12-04
[30] US (17/111,833) 2020-12-04

PCT Applications Entering the National Phase

[21] **3,162,707**
[13] A1

[51] **Int.Cl. H04N 19/12 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **COEFFICIENT GROUP BASED RESTRICTION ON MULTIPLE TRANSFORM SELECTION SIGNALING IN VIDEO CODING**

[54] **RESTRICTION D'APRES DES GROUPES DE COEFFICIENTS SUR UNE SIGNALISATION DE SELECTION DE TRANSFORMATIONS MULTIPLES EN CODAGE VIDEO**

[72] COBAN, MUHAMMED ZEYD, US
[72] KARCZEWICZ, MARTA, US
[72] EGILMEZ, HILMI ENES, US
[72] SEREGIN, VADIM, US
[71] QUALCOMM INCORPORATED, US

[85] 2022-05-24
[86] 2020-12-18 (PCT/US2020/065963)
[87] (WO2021/127402)
[30] US (62/951,975) 2019-12-20
[30] US (17/125,159) 2020-12-17

[21] **3,162,708**
[13] A1

[51] **Int.Cl. H04N 19/31 (2014.01) H04N 19/423 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **SHARED DECODER PICTURE BUFFER FOR MULTIPLE LAYERS**

[54] **TAMPON D'IMAGE DE DECODEUR PARTAGE DESTINE A DE MULTIPLES COUCHES**

[72] SEREGIN, VADIM, US
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[72] COBAN, MUHAMMED ZEYD, US
[71] QUALCOMM INCORPORATED, US

[85] 2022-05-24
[86] 2020-12-22 (PCT/US2020/066583)
[87] (WO2021/133788)
[30] US (62/953,394) 2019-12-24
[30] US (17/128,767) 2020-12-21

[21] **3,162,869**
[13] A1

[51] **Int.Cl. H01M 4/66 (2006.01) H01G 11/00 (2013.01) H01M 10/0525 (2010.01)**

[25] EN

[54] **ALUMINUM ANODE CURRENT COLLECTORS FOR LITHIUM ION BATTERIES**

[54] **COLLECTEURS DE COURANT D'ANODE EN ALUMINIUM POUR BATTERIES AU LITHIUM-ION**

[72] MAJUMDAR, DIPTARKA, US
[72] SUNDARAM, VENKATESH, US
[72] MCDOWELL, MATTHEW, US
[72] QUINTERO CORTES, FRANCISCO J., US
[72] KANG, DAEHOON, US
[71] NOVELIS INC., US
[71] GEORGIA TECH RESEARCH CORPORATION, US

[85] 2022-05-24
[86] 2021-03-08 (PCT/US2021/070250)
[87] (WO2021/184035)
[30] US (62/987,103) 2020-03-09
[30] US (63/107,289) 2020-10-29

[21] **3,162,878**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 17/00 (2006.01) A61B 17/32 (2006.01) A61B 18/18 (2006.01) A61B 90/00 (2016.01) A61B 18/00 (2006.01)**

[25] EN

[54] **ELECTROSURGICAL RESECTOR TOOL**

[54] **OUTIL DE RESECTION ELECTROCHIRURGICAL**

[72] HANCOCK, CHRISTOPHER PAUL, GB
[72] TURNER, LOUIS, GB
[72] MONICO, ROHAN, GB
[72] WHITE, MALCOLM, GB
[72] MEADOWCROFT, SIMON, GB
[72] MORRIS, STEVEN, GB
[72] ULLRICH, GEORGE CHRISTIAN, GB
[71] CREO MEDICAL LTD, GB

[85] 2022-05-25
[86] 2020-11-24 (PCT/EP2020/083227)
[87] (WO2021/105131)
[30] GB (1917324.4) 2019-11-28

[21] **3,162,879**
[13] A1

[51] **Int.Cl. B23K 26/21 (2014.01) B23K 26/0622 (2014.01) B23K 26/323 (2014.01) B23K 26/06 (2014.01) B23K 26/073 (2006.01) B23K 35/30 (2006.01)**

[25] EN

[54] **METHOD FOR WELDING COATED STEEL SHEETS**

[54] **PROCEDE POUR SOUDER DES TOLES D'ACIER REVETUES**

[72] BRUGGER, GERALD, AT
[71] VOESTALPINE AUTOMOTIVE COMPONENTS LINZ GMBH, AT

[85] 2022-05-25
[86] 2020-11-26 (PCT/EP2020/083526)
[87] (WO2021/105294)
[30] DE (10 2019 131 908.0) 2019-11-26

[21] **3,162,880**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 7/00 (2006.01) A61P 7/06 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **TREATMENT FOR PHYSIOLOGICAL IRON OVERLOAD**

[54] **TRAITEMENT DE SURCHARGE DE FER PHYSIOLOGIQUE**

[72] WAKE, MATTHEW, GB
[72] GERMASCHEWSKI, VOLKER, GB
[72] THEURL, IGOR, GB
[72] PAPWORTH, JONATHAN LESLIE, GB
[72] MEYNARD, DELPHINE, FR
[71] KYMAB LIMITED, GB

[85] 2022-05-25
[86] 2020-11-27 (PCT/EP2020/083677)
[87] (WO2021/105389)
[30] GB (1917524.9) 2019-11-29
[30] GB (1917882.1) 2019-12-06

Demandes PCT entrant en phase nationale

[21] **3,162,881**
[13] A1

[51] **Int.Cl. C07C 17/20 (2006.01) C07C 17/383 (2006.01) C07C 19/075 (2006.01)**

[25] EN

[54] **IMPROVED PROCESS FOR PREPARING BROMOCHLOROMETHANE**

[54] **PROCEDE AMELIORE DE PREPARATION DE BROMOCHLOROMETHANE**

[72] GROSSMANN, ANDRE, DE

[71] SALTIGO GMBH, DE

[85] 2022-05-25

[86] 2020-11-27 (PCT/EP2020/083710)

[87] (WO2021/105412)

[30] EP (19212198.6) 2019-11-28

[21] **3,162,882**
[13] A1

[51] **Int.Cl. C09D 163/00 (2006.01) C08K 3/32 (2006.01)**

[25] EN

[54] **LOW SOLVENT COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT A FAIBLE TENEUR EN SOLVANT**

[72] KIM, MIHYANG, KR

[72] MIN, SEONGWOON, KR

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

[85] 2022-05-25

[86] 2020-12-03 (PCT/EP2020/084451)

[87] (WO2021/110829)

[30] EP (19213944.2) 2019-12-05

[30] EP (19217045.4) 2019-12-17

[21] **3,162,883**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61P 35/00 (2006.01) C07D 403/12 (2006.01)**

[25] EN

[54] **NEW METHYLQUINAZOLINONE DERIVATIVES**

[54] **NOUVEAUX DERIVES DE METHYLQUINAZOLINONE**

[72] DOLENTE, COSIMO, CH

[72] HEWINGS, DAVID STEPHEN, CH

[72] HUNZIKER, DANIEL, CH

[72] KRUMMENACHER, DANIELA, CH

[72] PETTAZZONI, PIERGIORGIO FRANCESCO TOMMASO, CH

[72] WICHMANN, JUERGEN, CH

[71] F. HOFFMANN-LA ROCHE AG, CH

[85] 2022-05-25

[86] 2020-12-08 (PCT/EP2020/084976)

[87] (WO2021/116055)

[30] EP (19214941.7) 2019-12-10

[21] **3,162,884**
[13] A1

[51] **Int.Cl. B64C 39/02 (2006.01) G01C 13/00 (2006.01) G01F 1/00 (2022.01) G01F 1/66 (2022.01) G01F 23/284 (2006.01) G01S 7/00 (2006.01) G01S 13/58 (2006.01) G01S 13/92 (2006.01) G01S 17/58 (2006.01) G05D 1/10 (2006.01) H01Q 1/00 (2006.01) H01Q 21/00 (2006.01)**

[25] EN

[54] **NON-INVASIVE METHOD AND DEVICE TO MEASURE THE FLOW RATE OF A RIVER, OPEN CHANNEL OR FLUID FLOWING IN AN UNDERGROUND PIPE OR CHANNEL**

[54] **PROCEDE ET DISPOSITIF NON INVASIF PERMETTANT DE MESURER LE DEBIT D'UNE RIVIERE, D'UN CANAL OUVERT OU D'UN FLUIDE S'ECOULANT DANS UN TUYAU OU DANS UN CANAL SOUTERRAIN**

[72] SEVAR, JEAN-MARIE, BE

[71] FLOW-TRONIC S.A., BE

[85] 2022-05-25

[86] 2020-12-15 (PCT/EP2020/086307)

[87] (WO2021/122659)

[30] EP (19216692.4) 2019-12-16

[21] **3,162,896**
[13] A1

[51] **Int.Cl. C12N 5/09 (2010.01) A61K 35/17 (2015.01) C12N 15/90 (2006.01)**

[25] EN

[54] **ENGINEERED T CELLS AND TUMOR-INFILTRATING LYMPHOCYTES TO OVERCOME IMMUNOSUPPRESSION IN THE TUMOR MICROENVIRONMENT**

[54] **LYMPHOCYTES T MODIFIES ET LYMPHOCYTES INFILTRANT LES TUMEURS POUR SURMONTER L'IMMUNOSUPPRESSION DANS LE MICRO-ENVIRONNEMENT TUMORAL**

[72] FIX, SAMANTHA MARIE, US

[72] REZVANI, KATY, US

[72] HWU, PATRICK, US

[72] PUNT, SIMONE, US

[72] MANRIQUE, SORAYA ZORRO, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2022-05-25

[86] 2020-11-25 (PCT/US2020/062311)

[87] (WO2021/108619)

[30] US (62/941,670) 2019-11-27

[21] **3,162,913**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 1/00 (2006.01) A61P 29/00 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**

[25] EN

[54] **IMMUNOGLOBULIN SINGLE DOMAIN ANTIBODIES FOR DELIVERY OF MUCOSAL VACCINES**

[54] **ANTICORPS A DOMAINE UNIQUE D'IMMUNOGLOBULINE POUR L'ADMINISTRATION DE VACCINS MUQUEUX**

[72] COX, ERIC, BE

[72] DEVRIENDT, BERT, BE

[72] DEPICKER, ANNA, BE

[71] UNIVERSITEIT GENT, BE

[71] VIB VZM, BE

[85] 2022-05-25

[86] 2021-01-15 (PCT/EP2021/050798)

[87] (WO2021/144415)

[30] EP (20152428.7) 2020-01-17

PCT Applications Entering the National Phase

[21] **3,162,920**
[13] A1

[51] **Int.Cl. H05K 9/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR NEUTRALISING THE TRANSMISSION OF ELECTROMAGNETIC WAVES BY SHIELDING, BY MEANS OF A CONTAINER FOR THE HOLDING OF ELECTRICAL OR ELECTRONIC DEVICES WHICH ELECTROMAGNETICALLY PROTECTS THE SAME AND RENDERS THEM ELECTROMAGNETICALLY UNDETECTABLE**

[54] **DISPOSITIF ET PROCEDE POUR NEUTRALISER LA TRANSMISSION D'ONDES ELECTROMAGNETIQUES PAR ECRANTAGE AU MOYEN D'UN CONTENANT PORTEUR DE DISPOSITIFS ELECTRIQUES OU ELECTRONIQUES QUI LES PROTEGE ELECTROMAGNETIQUEMENT ET LES REND INDETECTABLES ELECTROMAGNETIQUEMENT**

[72] PEREZ SANTAFE, JESUS, ES
[72] PEREZ SANTAFE, FRANCISCO FRANCISCO, ES
[71] PEREZ SANTAFE, JESUS, ES
[85] 2022-05-25
[86] 2020-11-04 (PCT/ES2020/070675)
[87] (WO2021/105532)
[30] ES (P201930967) 2019-11-25

[21] **3,162,929**
[13] A1

[51] **Int.Cl. G10L 19/09 (2013.01) G10L 19/02 (2013.01)**
[25] EN
[54] **ENCODER, DECODER, ENCODING METHOD AND DECODING METHOD FOR FREQUENCY DOMAIN LONG-TERM PREDICTION OF TONAL SIGNALS FOR AUDIO CODING**

[54] **CODEUR, DECODEUR, PROCEDE DE CODAGE ET PROCEDE DE DECODAGE POUR LA PREDICTION A LONG TERME DANS LE DOMAINE FREQUENTIEL DE SIGNAUX DE TONALITE POUR UN CODAGE AUDIO**

[72] GUO, NING, DE
[72] EDLER, BERND, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2022-05-26
[86] 2019-11-27 (PCT/EP2019/082802)
[87] (WO2021/104623)

[21] **3,162,931**
[13] A1

[51] **Int.Cl. C03B 37/083 (2006.01) C03B 37/08 (2006.01) C03B 37/092 (2006.01) C03B 37/095 (2006.01)**
[25] EN
[54] **TIP PLATE AND CORRESPONDING BUSHING**

[54] **PLAQUE D'EXTREMITE ET FILIERE CORRESPONDANTE**

[72] BECKER, THILO, DE
[72] GRIES, THOMAS, DE
[72] CAMPBELL, IAN, GB
[72] DORVLO, SELASSIE, GB
[71] COOKSON PRECIOUS METALS LTD., GB
[85] 2022-05-26
[86] 2019-12-20 (PCT/EP2019/086511)
[87] (WO2021/121614)

[21] **3,162,933**
[13] A1

[51] **Int.Cl. C11D 1/94 (2006.01) C11D 3/20 (2006.01) C11D 3/30 (2006.01) C11D 3/48 (2006.01) C11D 11/00 (2006.01) C11D 1/75 (2006.01) C11D 1/90 (2006.01)**
[25] EN
[54] **TWO-IN-ONE DISHWASH DETERGENT**

[54] **DETERGENT DEUX EN UN POUR LAVE-VAISSELLE**

[72] LOCHER, SASCHA, DE
[72] KILLEEN, JONATHAN SCOTT, DE
[72] CARDENAL PAC, CARMEN, DE
[72] PEITERSEN, NATHAN, US
[72] PRIDEAUX, ALLISON, US
[72] MCSHERRY, DAVID, US
[71] ECOLAB USA INC., US
[85] 2022-05-26
[86] 2019-12-23 (PCT/EP2019/086964)
[87] (WO2021/129930)

[21] **3,162,936**
[13] A1

[51] **Int.Cl. G01S 7/4865 (2020.01) G01S 17/931 (2020.01) G01S 7/497 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR GENERATING TEST DATA FOR TESTING A DISTANCE DETERMINATION IN AN OPTICAL TIME-OF-FLIGHT MEASUREMENT**

[54] **DISPOSITIF ET PROCEDE DE GENERATION DE DONNEES DE TEST POUR TESTER UNE DETERMINATION DE DISTANCE DANS UNE MESURE OPTIQUE DE TEMPS DE VOL**

[72] BEUSCHEL, RALF, DE
[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE
[85] 2022-05-26
[86] 2020-09-25 (PCT/EP2020/076839)
[87] (WO2021/115652)
[30] DE (10 2019 219 330.7) 2019-12-11

Demandes PCT entrant en phase nationale

[21] **3,162,939**
[13] A1

[51] **Int.Cl. C25B 9/65 (2021.01) C25B 9/19 (2021.01) C25B 9/77 (2021.01) C25B 15/023 (2021.01) C25B 1/04 (2021.01)**

[25] EN

[54] **ELECTROLYSIS SYSTEM FOR BREAKING DOWN WATER INTO HYDROGEN AND OXYGEN AND A METHOD FOR OPERATING THE ELECTROLYSIS SYSTEM**

[54] **SYSTEME D'ELECTROLYSE POUR DECOMPOSER DE L'EAU EN HYDROGENE ET EN OXYGENE, ET PROCEDE DE FONCTIONNEMENT DU SYSTEME D'ELECTROLYSE**

[72] SCHACHERER, CHRISTIAN, DE

[72] WOLF, ERIK, DE

[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE

[85] 2022-05-26

[86] 2020-10-15 (PCT/EP2020/079046)

[87] (WO2021/104744)

[30] EP (19212114.3) 2019-11-28

[21] **3,162,942**
[13] A1

[51] **Int.Cl. G01N 23/20025 (2018.01) G01N 23/205 (2018.01)**

[25] EN

[54] **DEVICE FOR HOSTING A PROBE SOLUTION OF MOLECULES IN A PLURALITY OF INDEPENDENT CELLS**

[54] **DISPOSITIF D'HEBERGEMENT D'UNE SOLUTION DE MOLECULES-SONDE DE DANS UNE PLURALITE DE CELLULES INDEPENDANTES**

[72] TSUJINO, SOICHIRO, CH

[72] TOMIZAKI, TAKASHI, CH

[71] PAUL SCHERRER INSTITUT, CH

[85] 2022-05-26

[86] 2020-11-16 (PCT/EP2020/082185)

[87] (WO2021/104906)

[30] EP (19212142.4) 2019-11-28

[21] **3,162,943**
[13] A1

[51] **Int.Cl. E21B 17/07 (2006.01) E21B 10/36 (2006.01)**

[25] EN

[54] **A DRILL BIT ASSEMBLY FOR FLUID-OPERATED PERCUSSION DRILL TOOLS**

[54] **ENSEMBLE TREPAN POUR OUTILS DE FORAGE A PERCUSSION ACTIONNE PAR FLUIDE**

[72] PURCELL, JOSEPH, IE

[71] MINCON INTERNATIONAL LIMITED, IE

[85] 2022-05-26

[86] 2020-11-24 (PCT/EP2020/083185)

[87] (WO2021/105109)

[30] IE (S2019/0203) 2019-11-28

[21] **3,162,944**
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06F 9/4401 (2018.01) G07F 7/08 (2006.01)**

[25] EN

[54] **METHOD OF COMMUNICATION BETWEEN TWO SUB-SYSTEMS CONSTITUTING A MODULAR PAYMENT TERMINAL**

[54] **PROCEDE DE COMMUNICATION ENTRE DEUX SOUS-SYSTEMES CONSTITUTIFS D'UN TERMINAL DE PAIEMENT MODULAIRE**

[72] POUHAER, BENOIT, FR

[72] SCHANG, BERNARD, FR

[72] CAZOU, DOMINIQUE, FR

[72] AUFRAY, CHRISTOPHE, FR

[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR

[85] 2022-05-26

[86] 2020-11-25 (PCT/EP2020/083424)

[87] (WO2021/105245)

[30] FR (FR1913497) 2019-11-29

[21] **3,162,946**
[13] A1

[51] **Int.Cl. G08B 21/04 (2006.01) G08B 29/18 (2006.01) G08B 29/26 (2006.01)**

[25] EN

[54] **PERSONALIZED FALL DETECTOR**

[54] **DETECTEUR PERSONNALISE DE CHUTES**

[72] TEN KATE, WARNER RUDOLPH THEOPHILE, NL

[71] LIFELINE SYSTEMS COMPANY, US

[85] 2022-05-26

[86] 2020-11-27 (PCT/EP2020/083660)

[87] (WO2021/105378)

[30] EP (19212671.2) 2019-11-29

[21] **3,162,948**
[13] A1

[51] **Int.Cl. G08B 21/04 (2006.01) G08B 29/18 (2006.01) G08B 29/26 (2006.01)**

[25] EN

[54] **PERSONALIZED FALL DETECTOR**

[54] **DETECTEUR DE CHUTE PERSONNALISE**

[72] TEN KATE, WARNER RUDOLPH THEOPHILE, NL

[71] LIFELINE SYSTEMS COMPANY, US

[85] 2022-05-26

[86] 2020-11-27 (PCT/EP2020/083679)

[87] (WO2021/105390)

[30] EP (19212671.2) 2019-11-29

[21] **3,162,950**
[13] A1

[51] **Int.Cl. A61B 90/00 (2016.01) A61B 17/00 (2006.01)**

[25] EN

[54] **MARKING ELEMENT FOR MARKING TISSUE**

[54] **ELEMENT DE MARQUAGE POUR MARQUER UN TISSU**

[72] HORNSCHEIDT, DIRK, DE

[71] SOMATEX MEDICAL TECHNOLOGIES GMBH, DE

[85] 2022-05-26

[86] 2020-11-30 (PCT/EP2020/083949)

[87] (WO2021/105506)

[30] DE (10 2019 132 558.7) 2019-11-29

PCT Applications Entering the National Phase

[21] **3,162,953**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 1/005 (2006.01) A61B 1/018 (2006.01)**

[25] EN

[54] **ELECTROSURGICAL INSTRUMENT**

[54] **INSTRUMENT ELECTROCHIRURGICAL**

[72] HANCOCK, CHRISTOPHER PAUL, GB

[72] TURNER, LOUIS, GB

[72] MEADOWCROFT, SIMON, GB

[72] ULLRICH, GEORGE CHRISTIAN, GB

[72] WEBB, DAVID EDWARD, GB

[71] CREO MEDICAL LIMITED, GB

[85] 2022-05-26

[86] 2020-12-01 (PCT/EP2020/084128)

[87] (WO2021/110677)

[30] GB (1917619.7) 2019-12-03

[21] **3,162,956**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61K 45/06 (2006.01) A61P 11/06 (2006.01)**

[25] EN

[54] **USE OF MASITINIB FOR THE TREATMENT OF EOSINOPHILIC ASTHMA**

[54] **UTILISATION DE MASITINIB POUR LE TRAITEMENT DE L'ASTHME EOSINOPHILIQUE**

[72] MOUSSY, ALAIN, FR

[72] KINET, JEAN-PIERRE, US

[71] AB SCIENCE, FR

[85] 2022-05-26

[86] 2020-12-02 (PCT/EP2020/084251)

[87] (WO2021/110737)

[30] EP (19306550.5) 2019-12-02

[30] US (62/942,377) 2019-12-02

[21] **3,162,958**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61K 47/68 (2017.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **REACTIVE CONJUGATES**

[54] **CONJUGUES REACTIFS**

[72] NYANGUILE, ORIGENE FRANZ, CH

[72] SEGURA, JEAN-MANUEL, CH

[72] GARROUSTE, PATRICK, CH

[72] POSTUPALENKO, VIKTORIIA, CH

[72] MARX, LEO, CH

[72] LEVY, FREDERIC, CH

[71] DEBIOPHARM RESEARCH & MANUFACTURING S.A., CH

[85] 2022-05-26

[86] 2020-12-03 (PCT/EP2020/084512)

[87] (WO2021/110860)

[30] EP (PCT/EP2019/083542) 2019-12-03

[21] **3,162,965**
[13] A1

[51] **Int.Cl. A61B 5/01 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **INVASIVE TEMPERATURE SENSOR SYSTEM**

[54] **SYSTEME INVASIF DE CAPTEUR DE TEMPERATURE**

[72] VAN DEN BOSSCHE, JOHAN, BE

[72] BOGERS, JOHN-PAUL, BE

[72] BRANCATO, LUIGI, BE

[71] ELMEDIX NV, BE

[85] 2022-05-26

[86] 2020-12-07 (PCT/EP2020/084959)

[87] (WO2021/111014)

[30] EP (19213934.3) 2019-12-05

[21] **3,162,994**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **SALMONELLA-BASED DNA VACCINES IN COMBINATION WITH AN ANTIBIOTIC**

[54] **VACCINS A ADN A BASE DE SALMONELLA EN COMBINAISON AVEC UN ANTIBIOTIQUE**

[72] LUBENAU, HEINZ, DE

[71] VAXIMM AG, CH

[85] 2022-05-26

[86] 2021-01-12 (PCT/EP2021/050470)

[87] (WO2021/144254)

[30] EP (20151519.4) 2020-01-13

[30] EP (20174083.4) 2020-05-12

[21] **3,162,995**
[13] A1

[51] **Int.Cl. A61K 35/745 (2015.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61K 9/00 (2006.01) A61K 9/02 (2006.01) A61K 9/06 (2006.01) A61K 9/08 (2006.01) A61K 9/10 (2006.01) A61K 9/107 (2006.01) A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61P 3/00 (2006.01)**

[25] EN

[54] **PROBIOTIC COMPOSITION FOR USE AS AN ANTIOXIDANT**

[54] **COMPOSITION PROBIOTIQUE DESTINEE A ETRE UTILISEE EN TANT QU'ANTIOXYDANT**

[72] CHENOLL CUADROS, MARIA EMPAR, ES

[72] MARTORELL GUEROLA, PATRICIA, ES

[72] GENOVES MARTINEZ, SALVADOR, ES

[72] RAMON VIDAL, DANIEL, ES

[72] LOPEZ ROMAN, FRANCISCO JAVIER, ES

[72] AVILA GANDIA, VICENTE, ES

[72] CANOVAS GARCIA, FERNANDO, ES

[71] BIOPOLIS, S.L., ES

[85] 2022-05-26

[86] 2021-01-14 (PCT/EP2021/050631)

[87] (WO2021/144333)

[30] EP (20382019.6) 2020-01-15

[21] **3,163,020**
[13] A1

[51] **Int.Cl. G06F 16/16 (2019.01) G06F 21/62 (2013.01) G06F 16/182 (2019.01)**

[25] EN

[54] **INFORMATION DELETION ASSURANCE SYSTEM USING DISTRIBUTED LEDGER**

[54] **SYSTEME D'ASSURANCE DE SUPPRESSION D'INFORMATIONS UTILISANT UN REGISTRE DISTRIBUE**

[72] DONGIEUX, RAYNOR, US

[71] DONGIEUX, RAYNOR, US

[85] 2022-06-23

[86] 2020-10-20 (PCT/US2020/056521)

[87] (WO2021/118691)

[30] US (62/948,008) 2019-12-13

[30] US (63/035,077) 2020-06-05

[30] US (17/066,212) 2020-10-08

Demandes PCT entrant en phase nationale

[21] **3,163,031**
[13] A1

[51] **Int.Cl. A61K 47/36 (2006.01) A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/357 (2006.01) A61K 47/20 (2006.01) A61K 47/28 (2006.01) A61P 1/00 (2006.01) A61P 31/04 (2006.01) A61P 35/00 (2006.01) C07D 493/18 (2006.01)**

[25] EN
[54] **EXTENDED RELEASE GASTRORETENTIVE FORMULATION AGAINST HELICOBACTER PYLORI**

[54] **FORMULATION A RETENTION GASTRIQUE ET A LIBERATION PROLONGEE CONTRE HELICOBACTER PYLORI**

[72] LE, TIEN CANH, CA
[72] BALTZIS, DIONISSIOS, CA
[72] ARELLA, MAX, CA
[71] SOLSTAR PHARMA, CA
[85] 2022-06-23
[86] 2020-06-26 (PCT/CA2020/050885)
[87] (WO2020/257936)
[30] US (62/867,951) 2019-06-28

[21] **3,163,034**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61P 25/28 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **METHODS FOR TREATING HUNTINGTON'S DISEASE**

[54] **METHODES DE TRAITEMENT DE LA MALADIE DE HUNTINGTON**

[72] LOW, SIEWHUI, US
[72] XIAO, XIAO, US
[72] XIAO, BIN, US
[72] MOULLIER, PHILIPPE, US
[71] ASKLEPIOS BIOPHARMACEUTICAL, INC., US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2022-06-23
[86] 2020-12-18 (PCT/US2020/066039)
[87] (WO2021/127455)
[30] US (62/951,582) 2019-12-20

[21] **3,163,067**
[13] A1

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/06 (2006.01) A61N 1/36 (2006.01) A61N 1/40 (2006.01)**

[25] EN
[54] **THERAPEUTIC DEVICE FOR CELL THERAPY OR CELL STIMULATION**

[54] **DISPOSITIF THERAPEUTIQUE POUR UNE THERAPIE CELLULAIRE OU UNE STIMULATION CELLULAIRE**

[72] ERDMANN, RAIMUND, CH
[72] LAUBSCHER, URS, CH
[71] ACTIVCELL GROUP AG, CH
[85] 2022-06-24
[86] 2020-12-11 (PCT/EP2020/085655)
[87] (WO2021/116358)
[30] EP (19214663.7) 2019-12-10

[21] **3,163,068**
[13] A1

[51] **Int.Cl. C08B 37/08 (2006.01) C08F 8/34 (2006.01) C08F 16/06 (2006.01) C08F 20/20 (2006.01) C08G 65/334 (2006.01)**

[25] EN
[54] **THIOL-MODIFIED POLYMER COMPOUND, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**

[54] **COMPOSE POLYMERE MODIFIE PAR UN THIOL, PROCEDE DE PREPARATION ASSOCIE ET APPLICATION ASSOCIEE**

[72] WANG, WENXIN, IE
[71] BLAFAR BIOTECHNOLOGY (HANGZHOU) LTD, CN
[85] 2022-06-24
[86] 2020-03-18 (PCT/CN2020/079820)
[87] (WO2021/098097)
[30] CN (201911129095.6) 2019-11-18

[21] **3,163,069**
[13] A1

[51] **Int.Cl. C08J 3/24 (2006.01) A61K 47/36 (2006.01) C08J 3/075 (2006.01)**

[25] EN
[54] **HYDROGEL OF MERCAPTO-MODIFIED MACROMOLECULAR COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **HYDROGEL DE COMPOSE MACROMOLECULAIRE MODIFIE PAR MERCAPTO, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION CORRESPONDANTE**

[72] WANG, WENXIN, IE
[71] BLAFAR BIOTECHNOLOGY (HANGZHOU) LTD, CN
[85] 2022-06-24
[86] 2020-03-18 (PCT/CN2020/079823)
[87] (WO2021/098099)
[30] CN (201911130069.5) 2019-11-18

[21] **3,163,070**
[13] A1

[51] **Int.Cl. C08B 37/08 (2006.01)**

[25] EN
[54] **SULFHYDRYL MODIFIED HYALURONIC ACID, PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **ACIDE HYALURONIQUE MODIFIE PAR DU SULFHYDRYLE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION CORRESPONDANTE**

[72] WANG, WENXIN, IE
[71] BLAFAR BIOTECHNOLOGY (HANGZHOU) LTD, CN
[85] 2022-06-24
[86] 2020-03-18 (PCT/CN2020/079821)
[87] (WO2021/098098)
[30] CN (201911130065.7) 2019-11-18

PCT Applications Entering the National Phase

[21] **3,163,079**
[13] A1

[51] **Int.Cl. C07D 498/12 (2006.01)**
[25] EN
[54] **PROCESS FOR THE SYNTHESIS OF BUPRENORPHINE**
[54] **PROCEDE DE SYNTHESE DE BUPRENORPHINE**
[72] ZINSER, HARTMUT, CH
[72] DANIELYAN, TAMAR, AM
[72] GRIGORYAN, MERI, AM
[72] GHARIBYAN, MARIAM, AM
[72] MOVSISYAN, MIKAYEL, AM
[72] NERKARARYAN, KRISTINE K., AM
[71] AZAD PHARMA AG, CH
[85] 2022-05-26
[86] 2021-01-27 (PCT/EP2021/051785)
[87] (WO2021/151908)
[30] GB (2001121.9) 2020-01-27

[21] **3,163,080**
[13] A1

[51] **Int.Cl. F24F 1/0328 (2019.01) F24F 1/029 (2019.01) F24F 8/10 (2021.01) F24F 8/22 (2021.01) A61G 10/00 (2006.01) A61L 9/20 (2006.01) A61L 9/22 (2006.01) B01D 46/02 (2006.01)**
[25] EN
[54] **BREATHING TREATMENT EQUIPMENT**
[54] **EQUIPEMENT DE TRAITEMENT RESPIRATOIRE**
[72] LLANA GARCIA, PEDRO LUIS, ES
[71] BIOWAIR TOTAL SYSTEMS, S.L., ES
[85] 2022-05-26
[86] 2020-11-27 (PCT/ES2020/070744)
[87] (WO2021/105543)
[30] EP (19383056.9) 2019-11-28

[21] **3,163,081**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 34/10 (2016.01) A61B 34/20 (2016.01)**
[25] EN
[54] **PLANNING AND REAL-TIME UPDATING A 3D TRAJECTORY OF A MEDICAL INSTRUMENT**
[54] **PLANIFICATION ET MISE A JOUR EN TEMPS REEL D'UNE TRAJECTOIRE 3D D'UN INSTRUMENT MEDICAL**
[72] SHOCHAT, MORAN, IL
[72] ROTH, IDO, IL
[72] OHEV-ZION, ALON, IL
[71] XACT ROBOTICS LTD., IL
[85] 2022-05-25
[86] 2020-11-26 (PCT/IL2020/051219)
[87] (WO2021/105992)
[30] US (62/941,586) 2019-11-27

[21] **3,163,082**
[13] A1

[51] **Int.Cl. C12Q 1/689 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTION OF EXTRAIESTINAL E. COLI STRAINS PATHOGENIC TO POULTRY**
[54] **PROCEDE ET SYSTEME DE DETECTION DE SOUCHES D'E. COLI EXTRA-INTESTINALES PATHOGENES POUR LA VOLAILLE**
[72] DASTYCH, JAROSLAW, PL
[72] KAZIMIERCZAK, JOANNA, PL
[72] POSPIECH, KAROLINA, PL
[72] SOWINSKA, PATRYCJA, PL
[72] WOJCIK, EWELINA A., PL
[72] STANCZYK, MALGORZATA, PL
[72] ANDRYSIK, JUSTYNA, PL
[72] STRAPAGIEL, DOMINIK, PL
[72] MARCINIAK, BLAZEJ, PL
[72] BOROWKA, PAULINA, PL
[72] LIS, MARCIN WOJCIECH, PL
[71] PROTEON PHARMACEUTICALS S.A., PL
[85] 2022-05-25
[86] 2020-11-26 (PCT/PL2020/050089)
[87] (WO2021/107795)
[30] PL (P.431942) 2019-11-26

[21] **3,163,083**
[13] A1

[51] **Int.Cl. H01M 10/058 (2010.01) H01M 50/536 (2021.01) H01M 4/66 (2006.01)**
[25] EN
[54] **BATTERY CONNECTIONS AND METALIZED FILM COMPONENTS IN ENERGY STORAGE DEVICES HAVING INTERNAL FUSES**
[54] **CONNEXIONS DE BATTERIE ET COMPOSANTS DE FILM METALLISES DANS DES DISPOSITIFS DE STOCKAGE D'ENERGIE A FUSIBLES INTERNES**
[72] MORIN, BRIAN G., US
[72] HU, CARL C., US
[71] SOTERIA BATTERY INNOVATION GROUP INC., US
[85] 2022-05-26
[86] 2020-11-10 (PCT/US2020/059794)
[87] (WO2021/108119)
[30] US (16/698,936) 2019-11-27
[30] US (16/732,139) 2019-12-31

[21] **3,163,084**
[13] A1

[51] **Int.Cl. G06T 7/50 (2017.01) A61B 5/107 (2006.01) A61C 9/00 (2006.01)**
[25] EN
[54] **DIGITAL 3D MODELS OF DENTAL ARCHES WITH ACCURATE ARCH WIDTH**
[54] **MODELES TRIDIMENSIONNELS NUMERIQUES D'ARCADES DENTAIRES AVEC UNE LARGEUR D'ARCADE PRECISE**
[72] SAPHIER, OFER, IL
[72] KOPELMAN, AVI, US
[71] ALIGN TECHNOLOGY, INC., US
[85] 2022-04-26
[86] 2020-11-12 (PCT/US2020/060283)
[87] (WO2021/097128)
[30] US (62/934,438) 2019-11-12
[30] US (17/095,659) 2020-11-11

Demandes PCT entrant en phase nationale

[21] **3,163,085**
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 15/29 (2006.01)**

[25] EN

[54] **GENE MUTATIONS IN TOMATO TO YIELD COMPACT AND EARLY YIELDING FORMS SUITABLE FOR URBAN AGRICULTURE**

[54] **MUTATIONS GENIQUES CHEZ LA TOMATE POUR PRODUIRE DES FORMES COMPACTES ET A HAUT RENDEMENT APPROPRIEES POUR L'AGRICULTURE URBAINE**

[72] LIPPMAN, ZACHARY, US
[72] KWON, CHOON-TAK, US
[71] COLD SPRING HARBOR LABORATORY, US

[85] 2022-05-26
[86] 2020-11-20 (PCT/US2020/061613)
[87] (WO2021/108272)
[30] US (62/940,873) 2019-11-26
[30] US (62/948,167) 2019-12-13
[30] US (62/952,096) 2019-12-20

[21] **3,163,086**
[13] A1

[51] **Int.Cl. A61G 7/05 (2006.01) A61G 7/00 (2006.01) A61G 7/002 (2006.01) A61G 7/005 (2006.01) A61G 7/012 (2006.01) G01G 19/44 (2006.01)**

[25] EN

[54] **PATIENT SUPPORT APPARATUS WITH LOAD CELL ASSEMBLIES**

[54] **APPAREIL DE SUPPORT DE PATIENT DOTE D'ENSEMBLES DE CELLULES A QUARTZ**

[72] CERNY, JASON JAMES, CA
[72] SHIERY, JEFFREY C., US
[72] MACKELLAR, MEGAN GRACE, US
[72] DACEY, ALFRED JAMES, US
[71] STRYKER CORPORATION, US

[85] 2022-05-26
[86] 2020-11-24 (PCT/US2020/061966)
[87] (WO2021/108377)
[30] US (62/941,095) 2019-11-27

[21] **3,163,087**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/63 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ACTIVATING GENE EXPRESSION**

[54] **SYSTEME ET METHODES D'ACTIVATION D'EXPRESSION GENIQUE**

[72] JOUNG, J. KEITH, US
[72] TAK, Y. ESTHER, US
[71] THE GENERAL HOSPITAL CORPORATION, US

[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062166)
[87] (WO2021/108501)
[30] US (62/941,334) 2019-11-27

[21] **3,163,088**
[13] A1

[51] **Int.Cl. A61K 49/14 (2006.01) A61K 49/06 (2006.01) A61K 49/08 (2006.01) A61K 49/10 (2006.01)**

[25] EN

[54] **PLATELET DIAGNOSTIC IMAGING AGENTS**

[54] **AGENTS D'IMAGERIE POUR LE DIAGNOSTIC DE PLAQUETTES**

[72] SHEIK, DANIEL ALLEN, US
[72] MOSKOWITZ, KEITH ANDREW, US
[71] CELLPHIRE, INC., US

[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062216)
[87] (WO2021/108539)
[30] US (62/941,508) 2019-11-27

[21] **3,163,089**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/661 (2006.01) A61K 31/662 (2006.01)**

[25] EN

[54] **NOVEL THYROMIMETICS**

[54] **NOUVEAUX THYROMIMETIQUES**

[72] GELDERN, THOMAS VON, US
[72] BACKES, BRADLEY, US
[72] HE, BAOKU, CN
[72] HARRIS, JASON, US
[71] AUTOBAHN THERAPEUTICS, INC., US

[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062229)
[87] (WO2021/108549)
[30] CN (PCT/CN2019/122062) 2019-11-29
[30] CN (PCT/CN2020/088540) 2020-05-01

[21] **3,163,090**
[13] A1

[51] **Int.Cl. F16D 25/00 (2006.01) F16D 25/06 (2006.01) F16D 31/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR HYDRAULIC TRANSFORMER CLUTCHES**

[54] **SYSTEME ET PROCEDE D'EMBRAYAGE DE TRANSFORMATEUR HYDRAULIQUE**

[72] ABAITANCEI, HORIA, RO
[72] THOMAS, CHRISTOPHER, US
[71] A & A INTERNATIONAL, LLC, US
[71] ABAITANCEI, HORIA, RO
[71] THOMAS, CHRISTOPHER, US

[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062283)
[87] (WO2021/108596)
[30] US (62/940,843) 2019-11-26

PCT Applications Entering the National Phase

[21] **3,163,091**
[13] A1

[51] **Int.Cl. A61K 31/438 (2006.01) A61P 25/00 (2006.01) C07D 491/107 (2006.01)**

[25] EN

[54] **FORMULATIONS OF ION CHANNEL MODULATORS AND METHODS OF PREPARATION AND USE OF ION CHANNEL MODULATORS**

[54] **FORMULATIONS DE MODULATEURS DE CANAUX IONIQUES, ET PROCEDES DE PREPARATION ET D'UTILISATION DE MODULATEURS DE CANAUX IONIQUES**

[72] MARTINEZ BOTELLA, GABRIEL, US

[72] LUNSMANN, WALTER J., US

[72] GARAD, SAPNA MAKHIJA, US

[72] REED, DAVID, US

[72] GRIFFIN, ANDREW MARK, CA

[72] KAHLIG, MICHAEL KRISTOPHER MATHIEU, US

[72] MARRON, BRIAN EDWARD, US

[72] LOYA, CARLOS, US

[71] PRAXIS PRECISION MEDICINES, INC., US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062317)

[87] (WO2021/108625)

[30] US (62/941,322) 2019-11-27

[30] US (62/941,319) 2019-11-27

[30] US (63/001,801) 2020-03-30

[30] US (63/001,906) 2020-03-30

[30] US (63/028,229) 2020-05-21

[30] US (63/082,857) 2020-09-24

[30] US (63/082,864) 2020-09-24

[21] **3,163,092**
[13] A1

[51] **Int.Cl. A24F 40/51 (2020.01) A24F 40/53 (2020.01) A61M 15/06 (2006.01)**

[25] EN

[54] **VAPORIZER DEVICE WITH RESPONSIVE INHALATION DETECTION**

[54] **DISPOSITIF VAPORISATEUR A DETECTION D'INHALATION SENSIBLE**

[72] FISHWICK, ALEXANDER, US

[72] ADAMS, AMANDA, US

[72] AMORDE, ERIC, US

[72] CZAPAR, MATTHEW, US

[71] JUUL LABS, INC., US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062331)

[87] (WO2021/108638)

[21] **3,163,093**
[13] A1

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

[25] EN

[54] **TLR7 AGONISTS**

[54] **AGONISTES DE TLR7**

[72] WEBBER, STEPHEN E., US

[72] APPLEMAN, JAMES RICHARD, US

[71] PRIMMUNE THERAPEUTICS, INC., US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062344)

[87] (WO2021/108649)

[30] US (62/940,622) 2019-11-26

[21] **3,163,094**
[13] A1

[51] **Int.Cl. B23Q 5/12 (2006.01) B23Q 5/00 (2006.01) B23Q 5/04 (2006.01) B23Q 5/46 (2006.01) B23Q 5/48 (2006.01) B25F 5/00 (2006.01) F16H 1/28 (2006.01)**

[25] EN

[54] **TOOL DRIVE ASSEMBLY WITH INTEGRATED LEAD DRIVE SHAFT**

[54] **ENSEMBLE D'ENTRAINEMENT D'OUTIL A ARBRE D'ENTRAINEMENT PRINCIPAL INTEGRE**

[72] WASON, PETER MATTHEW, US

[71] HUBBELL INCORPORATED, US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062346)

[87] (WO2021/108651)

[30] US (62/941,412) 2019-11-27

[30] US (62/987,730) 2020-03-10

[21] **3,163,095**
[13] A1

[51] **Int.Cl. B60H 1/32 (2006.01) F24F 5/00 (2006.01) F25B 23/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY INVOLVING DIARYL MACROCYCLIC COMPOUNDS**

[54] **POLYTHERAPIE IMPLIQUANT DES COMPOSES MACROCYCLIQUES DE DIARYLE**

[72] DENG, WEI, US

[72] ZHAI, DAYONG, US

[72] RODON, LAURA, US

[72] MURRAY, BRION W., US

[72] CUI, JINGRONG J., US

[72] LEE, NATHAN V., US

[71] TURNING POINT THERAPEUTICS, INC., US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062374)

[87] (WO2021/108672)

[30] US (62/941,031) 2019-11-27

[30] US (62/941,033) 2019-11-27

[30] US (62/992,573) 2020-03-20

[21] **3,163,096**
[13] A1

[51] **Int.Cl. H04N 21/4227 (2011.01) H04N 21/436 (2011.01) H04N 21/44 (2011.01) H04N 21/462 (2011.01) G06F 3/14 (2006.01) G09B 5/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR REDUCING LATENCY ON A COLLABORATIVE PLATFORM**

[54] **PROCEDES ET SYSTEMES DE REDUCTION DE LATENCE SUR UNE PLATEFORME COLLABORATIVE**

[72] VU, CHUONG, US

[72] EHLENBERGER, MIKE, US

[72] LI, WEI, US

[72] CHANG, DEAN, US

[72] LI, CHUANG, US

[71] SCREENBEAM INC., US

[85] 2022-05-26

[86] 2020-11-25 (PCT/US2020/062427)

[87] (WO2021/108716)

[30] US (62/941,677) 2019-11-27

Demandes PCT entrant en phase nationale

[21] **3,163,097**
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) H05B 6/06 (2006.01) H05B 6/10 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR DETERMINING A CHARACTERISTIC OF AN INDUCTION HEATING CIRCUIT**

[54] **SYSTEME, PROCEDE, ET PRODUIT-PROGRAMME INFORMATIQUE PERMETTANT DE DETERMINER UNE CARACTERISTIQUE D'UN CIRCUIT DE CHAUFFAGE PAR INDUCTION**

[72] NYSEN, PETER, US
[72] BLELOCH, ANDREW L., US
[71] LOTO LABS, INC., US
[85] 2022-05-26
[86] 2020-11-27 (PCT/US2020/062476)
[87] (WO2021/108749)
[30] US (62/940,987) 2019-11-27

[21] **3,163,098**
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) G16H 10/40 (2018.01) G16H 10/60 (2018.01) A61K 49/16 (2006.01) C07K 16/24 (2006.01)**

[25] EN

[54] **METHODS OF IMAGING USING MULTIPLE IMAGING AGENTS**

[54] **PROCEDES D'IMAGERIE UTILISANT DE MULTIPLES AGENTS D'IMAGERIE**

[72] MASCIONI, ALESSANDRO, US
[72] WILSON, IAN ANDREW, US
[72] PLAVEC, IVAN, US
[72] LE, WILLIAM HUY, US
[71] IMAGINAB, INC., US
[85] 2022-05-26
[86] 2020-12-03 (PCT/US2020/063023)
[87] (WO2021/113450)
[30] US (62/944,183) 2019-12-05

[21] **3,163,099**
[13] A1

[51] **Int.Cl. F16F 15/00 (2006.01) E21B 7/24 (2006.01) E21B 17/00 (2006.01) E21B 17/07 (2006.01) F16F 15/36 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DAMPING/ABSORBING ROTATIONAL VIBRATIONS/OSCILLATIONS**

[54] **PROCEDE ET APPAREIL POUR AMORTIR/ABSORBER DES VIBRATIONS/OSCILLATIONS DE ROTATION**

[72] VOLGMANN, MARCO, US
[72] DENZEL, WILLIAM E., US
[71] SCIENTIFIC DRILLING INTERNATIONAL, INC., US
[85] 2022-05-26
[86] 2020-12-19 (PCT/US2020/066263)
[87] (WO2021/127599)
[30] US (62/952,233) 2019-12-21
[30] US (62/976,898) 2020-02-14

[21] **3,163,100**
[13] A1

[51] **Int.Cl. C12N 15/52 (2006.01) A61K 38/16 (2006.01) A61K 48/00 (2006.01) C12N 9/02 (2006.01) C12N 9/04 (2006.01)**

[25] EN

[54] **TARGETED EXPRESSION OF MICROBIAL CHOLESTEROL CATALYSIS GENES REDUCES EXCESS LIPID**

[54] **EXPRESSION CIBLEE DE GENES MICROBIENS DE CATALYSE DU CHOLESTEROL POUR REDUIRE L'EXCES DE LIPIDE**

[72] TOPORS, MOURAD, CA
[72] PERDIGAO DE OLIVEIRA, GUILHERME CHERMAN, BR
[72] REASON, US
[72] RIDILLA, MARC, US
[72] MUKHERJEE, JAYANTA, US
[72] MACKENZIE-LIU, DAVID, US
[72] STROUGH, GARRETT, US
[72] THOMAS, DAVID, US
[71] REPAIR BIOTECHNOLOGIES, INC., US
[85] 2022-05-26
[86] 2021-02-26 (PCT/US2021/020053)
[87] (WO2021/174100)
[30] US (62/983,102) 2020-02-28
[30] US (63/094,075) 2020-10-20

[21] **3,163,101**
[13] A1

[51] **Int.Cl. A23L 29/20 (2016.01) A23L 29/206 (2016.01) A23L 29/25 (2016.01) A23L 29/269 (2016.01) A23L 29/30 (2016.01) A23L 3/34 (2006.01)**

[25] EN

[54] **FOOD THICKENER COMPOSITION AND METHOD**

[54] **COMPOSITION D'EPAISSISSANT ALIMENTAIRE ET PROCEDE**

[72] XU, JIANTENG, US
[71] GRAIN PROCESSING CORPORATION, US
[85] 2022-05-26
[86] 2021-10-14 (PCT/US2021/054942)
[87] (WO2022/086776)
[30] US (63/104,012) 2020-10-22
[30] US (17/500,223) 2021-10-13

[21] **3,163,102**
[13] A1

[51] **Int.Cl. G06F 30/18 (2020.01) H02S 40/36 (2014.01) H02J 3/38 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR STRING CONNECTING PHOTOVOLTAIC MODULES, DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE CONNEXION EN CHAINE DE MODULES PHOTOVOLTAIQUES, DISPOSITIF ET SUPPORT DE STOCKAGE**

[72] HU, YIJIE, CN
[72] XU, NING, CN
[72] ZHANG, CHEN, CN
[72] JIANG, XIU, CN
[72] HUANG, GUOKUN, CN
[72] ZHENG, TIANMIN, CN
[71] ENVISION DIGITAL INTERNATIONAL PTE. LTD., SG
[71] SHANGHAI ENVISION DIGITAL CO., LTD., CN
[85] 2022-05-25
[86] 2020-11-25 (PCT/SG2020/050692)
[87] (WO2021/107873)
[30] CN (201911175761.X) 2019-11-26

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[21] 3,163,103 [13] A1	[21] 3,163,104 [13] A1	[21] 3,163,105 [13] A1
[51] Int.Cl. A61K 31/506 (2006.01) A61P 31/04 (2006.01) A61P 31/06 (2006.01) C07D 403/12 (2006.01)	[51] Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01)	[51] Int.Cl. A61K 31/4353 (2006.01) A61P 35/00 (2006.01) C07D 403/04 (2006.01)
[25] EN	[25] EN	[25] EN
[54] COMPOUNDS FOR TREATING TUBERCULOSIS	[54] CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF	[54] SUBSTITUTED AMINOQUINOLONES AS DGKALPHA INHIBITORS FOR IMMUNE ACTIVATION
[54] COMPOSES POUR LE TRAITEMENT DE LA TUBERCULOSE	[54] RECEPTEURS ANTIGENIQUES CHIMERIQUES ET LEURS UTILISATIONS	[54] AMINOQUINOLONES SUBSTITUEES EN TANT QU'INHIBITEURS DE DGKALPHA POUR ACTIVATION IMMUNITAIRE
[72] GRUBER, GERHARD, SG	[72] GREENE, MICHAEL R., US	[72] SCHMEES, NORBERT, DE
[72] BATES, RODERICK WAYLAND, SG	[72] ABUJOUR, AIDA, US	[72] WORTMANN, LARS, DE
[72] NG, SHUYI PEARLY, SG	[72] BLANKENSHIP, JOHN, US	[72] KIRCHHOFF, DENNIS, DE
[71] NANYANG TECHNOLOGICAL UNIVERSITY, SG	[72] BONDANZA, ATTILIO, CH	[72] NGUYEN, THI THANH UYEN, DE
[71] AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, SG	[72] BROGDON, JENNIFER, US	[72] WERBECK, NICOLAS, DE
[85] 2022-05-25	[72] BU, DEXIU, US	[72] BOMER, ULF, DE
[86] 2020-11-26 (PCT/SG2020/050695)	[72] DE VITA, SERENA, US	[72] PETERSEN, KIRSTIN, DE
[87] (WO2021/107876)	[72] DRANOFF, GLENN, US	[72] KOBER, CHRISTINA, DE
[30] SG (10201911205R) 2019-11-26	[72] ENGELS, BORIS, US	[72] STOCKIGT, DETLEF, DE
	[72] FLEMING, TONY, US	[72] LECHNER, CHRISTIAN, DE
	[72] HACK, ANNIESHA, US	[72] MEIER, ROBIN MICHAEL, DE
	[72] HOLMBERG, BRIAN, US	[72] HERBERT, SIMON ANTHONY, DE
	[72] HONG, CONNIE, US	[72] KERSCHGENS, ISABEL PATRIZIA, DE
	[72] HUANG, LU, US	[72] KOSEMUND, DIRK, DE
	[72] KODRASI, OLJA, US	[72] OFFRINGA, RIENK, DE
	[72] LIM, HYUNGWOOK, US	[72] GREES, MAREIKE, DE
	[72] PRATICO, ELIZABETH DOROTHY, US	[71] BAYER AKTIENGESELLSCHAFT, DE
	[72] PRICE, ANDREW, US	[71] BAYER PHARMA AKTIENFESELLSCHAFT, DE
	[72] SOHONI, AKASH, US	[85] 2022-05-25
	[72] STEIN, ANDREW MARC, US	[86] 2020-11-24 (PCT/EP2020/083198)
	[72] TREANOR, LOUISE, US	[87] (WO2021/105117)
	[72] ZHANG, CHONGHUI, US	[30] EP (19212252.1) 2019-11-28
	[72] GRANDA, BRIAN WALTER, US	[30] EP (20181065.2) 2020-06-19
	[72] LAM, JONI WAIEE, US	
	[72] GUIMARAES, CARLA PATRICIA, US	
	[72] ZHU, XU, US	
	[71] NOVARTIS AG, CH	
	[85] 2022-05-26	
	[86] 2020-11-25 (PCT/US2020/062357)	
	[87] (WO2021/108661)	
	[30] US (62/940,509) 2019-11-26	

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[21] **3,163,106**
[13] A1

[51] **Int.Cl. F16L 37/092 (2006.01)**
[25] EN
[54] **A PIPE COUPLING FOR RECEIVING, HOLDING AND RELEASING A PIPE AND A METHOD OF ASSEMBLING A PIPE COUPLING**
[54] **RACCORD DE TUYAU PERMETTANT DE RECEVOIR, DE MAINTENIR ET DE LIBERER UN TUYAU AINSI QUE PROCEDE D'ASSEMBLAGE D'UN RACCORD DE TUYAU**
[72] FARDON, MARK, NL
[72] ALLEN, JOSEF LUKE, NL
[72] FARQUHAR, GORDON JOHN ALEXANDER, NL
[72] ROSS, OLIVER MACPHERSON, NL
[71] WAVIN B.V., NL
[85] 2022-05-24
[86] 2020-11-20 (PCT/NL2020/050733)
[87] (WO2021/101383)
[30] NL (2024297) 2019-11-22

[21] **3,163,107**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 9/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **SUBSTITUTED AMINOQUINOLONES AS DGKALPHA INHIBITORS FOR IMMUNE ACTIVATION**
[54] **AMINOQUINOLONES SUBSTITUEES UTILISEES EN TANT QU'INHIBITEURS DE DGKALPHA POUR ACTIVATION IMMUNITAIRE**
[72] SCHMEES, NORBERT, DE
[72] WORTMANN, LARS, DE
[72] KIRCHHOFF, DENNIS, DE
[72] NGUYEN, THI THANH UYEN, DE
[72] WERBECK, NICOLAS, DE
[72] BOMER, ULF, DE
[72] PETERSEN, KIRSTIN, DE
[72] KOBER, CHRISTINA, DE
[72] STOCKIGT, DETLEF, DE
[72] LECHNER, CHRISTIAN, DE
[72] OFFRINGA, RIENK, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2022-05-25
[86] 2020-11-24 (PCT/EP2020/083197)
[87] (WO2021/105116)
[30] EP (19212257.0) 2019-11-28

[21] **3,163,108**
[13] A1

[51] **Int.Cl. C12N 9/34 (2006.01) C12P 7/06 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **YEAST EXPRESSING HETEROLOGOUS GLUCOAMYLASE**
[54] **LEVURE EXPRIMANT UNE GLUCOAMYLASE HETEROLOGUE**
[72] ARGYROS, AARON, US
[72] PANAITIU, ALEXANDRA, US
[72] RICE, CHARLES F, US
[72] BARRETT, KENNETH, US
[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU
[71] BASF SE, DE
[85] 2022-05-27
[86] 2020-11-25 (PCT/EP2020/025538)
[87] (WO2021/104672)
[30] US (62/941,967) 2019-11-29
[30] US (63/078,135) 2020-09-14

[21] **3,163,110**
[13] A1

[51] **Int.Cl. E02F 9/20 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING TRANSPORT VEHICLE**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN VEHICULE DE TRANSPORT**
[72] SHIMADA, KENJIRO, JP
[72] OHKUMA, AYUMI, JP
[72] LELOUVIER, AARON, JP
[72] MORALES, PAULO, JP
[72] HAYASHI, KAZUHIKO, JP
[71] KOMATSU LTD., JP
[85] 2022-05-25
[86] 2021-03-04 (PCT/JP2021/008450)
[87] (WO2021/182297)
[30] JP (2020-040660) 2020-03-10

[21] **3,163,112**
[13] A1

[51] **Int.Cl. F16F 1/18 (2006.01)**
[25] EN
[54] **LEAF SPRING DEVICE**
[54] **DISPOSITIF DE RESSORTS A LAMES**
[72] EGUCHI, TAKASHI, JP
[72] TANAKA, YUSUKE, JP
[71] NHK SPRING CO., LTD., JP
[85] 2022-05-25
[86] 2020-11-27 (PCT/JP2020/044143)
[87] (WO2021/107070)
[30] JP (2019-214204) 2019-11-27

[21] **3,163,113**
[13] A1

[51] **Int.Cl. G02B 6/122 (2006.01) G02B 6/125 (2006.01)**
[25] EN
[54] **OPTICAL WAVEGUIDE**
[54] **GUIDE D'ONDES OPTIQUE**
[72] GO, TAKASHI, JP
[72] SUZUKI, KENYA, JP
[72] YAMAGUCHI, KEITA, JP
[72] YANAGIHARA, AI, JP
[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2022-05-25
[86] 2019-11-26 (PCT/JP2019/046244)
[87] (WO2021/106091)

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[21] **3,163,115**
[13] A1

[51] **Int.Cl. A23L 29/30 (2016.01) A23L 3/3562 (2006.01)**
[25] EN
[54] **COMPOSITION FOR INHIBITING HMF PRODUCTION COMPRISING ALLULOSE DISACCHARIDE**
[54] **COMPOSITION POUR INHIBER LA PRODUCTION DE HMF COMPRENANT DE L'ALLULOSE DISACCHARIDE**
[72] KIM, MINHOE, KR
[72] CHOI, JONGMIN, KR
[72] KIM, SU-JEONG, KR
[72] BAK, YOUN-KYUNG, KR
[72] BYUN, SUNG BAE, KR
[72] LEE, SUNGKYUN, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2022-05-25
[86] 2020-11-23 (PCT/KR2020/016562)
[87] (WO2021/107526)
[30] KR (10-2019-0156760) 2019-11-29

[21] **3,163,118**
[13] A1

[51] **Int.Cl. A01K 41/00 (2006.01) A01K 41/02 (2006.01)**
[25] EN
[54] **INCUBATOR**
[54] **INCUBATEUR**
[72] FARSCHI, AMIR, ZA
[71] OVO INCUBATORS (PTY) LTD, ZA
[85] 2022-05-26
[86] 2020-11-25 (PCT/ZA2020/050067)
[87] (WO2021/108818)
[30] ZA (2019/07813) 2019-11-26

[21] **3,163,119**
[13] A1

[51] **Int.Cl. C08L 23/26 (2006.01) C08J 11/10 (2006.01) C08F 8/46 (2006.01) C08F 10/06 (2006.01) C08L 23/12 (2006.01)**
[25] EN
[54] **COMPOSITION OF POLYMERS DERIVED THROUGH THE MALEATION OF DEPOLYMERIZED POLYPROPYLENE**
[54] **COMPOSITION DE POLYMERES DERIVES DE LA MODIFICATION AVEC DE L'ACIDE MALEIQUE DE POLYPROPYLENE DEPOLYMERISE**
[72] DI MONDO, DOMENIC, CA
[72] FENTON, IRINA, CA
[71] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA
[85] 2022-05-27
[86] 2020-12-11 (PCT/CA2020/000141)
[87] (WO2021/113951)
[30] US (62/946,647) 2019-12-11

[21] **3,163,121**
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01) A61K 31/05 (2006.01) A61K 36/185 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **SOLVENT-BASED EXTRACTION METHODS**
[54] **PROCEDES D'EXTRACTION A BASE DE SOLVANT**
[72] LANDER, SHANE, CA
[72] JOZSA, TAMAS, CA
[71] SOMA LABS SCIENTIFIC INC., CA
[85] 2022-05-27
[86] 2020-03-19 (PCT/CA2020/050362)
[87] (WO2021/102552)
[30] US (16/697,733) 2019-11-27

[21] **3,163,123**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **RANDOM ACCESS METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL POUR UN ACCES ALEATOIRE**
[72] HUANG, HUANG, CN
[72] SHAO, HUA, CN
[72] YAN, MAO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-05-27
[86] 2019-11-29 (PCT/CN2019/121924)
[87] (WO2021/102895)

[21] **3,163,125**
[13] A1

[51] **Int.Cl. E21B 4/16 (2006.01) E21B 3/035 (2006.01) E21B 17/07 (2006.01)**
[25] EN
[54] **DRILLING TOOL**
[54] **OUTIL DE FORAGE**
[72] LU, BAOPING, CN
[72] ZHANG, HAIPING, CN
[72] SUN, MINGGUANG, CN
[72] WANG, JIACHANG, CN
[72] ZANG, YANBIN, CN
[72] TAO, XINGHUA, CN
[72] XUAN, LINGCHAO, CN
[72] LIU, XIAODAN, CN
[72] ZHANG, RENLONG, CN
[72] WANG, LISHUANG, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC PETROLEUM ENGINEERING TECHNOLOGY RESEARCH INSTITUTE CO., LTD., CN
[85] 2022-05-27
[86] 2020-09-11 (PCT/CN2020/114860)
[87] (WO2021/120722)
[30] CN (201911295604.2) 2019-12-16

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[21] **3,163,127**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01)**
[25] EN
[54] **METHOD FOR ASSOCIATING WITH EXPRESSION LEVEL OF AKR1C3 ENZYME VIA CONTENT OF PROSTAGLANDIN, AND USE OF SCREENING FOR DRUG ADMINISTRATION**
[54] **PROCEDE D'ASSOCIATION AVEC UN NIVEAU D'EXPRESSION D'UNE ENZYME AKR1C3 PAR L'INTERMEDIAIRE D'UNE TENEUR EN PROSTAGLANDINE, ET UTILISATION DE CRIBLAGE POUR L'ADMINISTRATION DE MEDICAMENT**
[72] DUAN, JIANXIN, CN
[72] XIE, YANBIN, CN
[72] JI, JINFENG, CN
[71] ASCENTAWITS PHARMACEUTICALS, LTD., CN
[85] 2022-05-27
[86] 2020-12-03 (PCT/CN2020/133538)
[87] (WO2021/110085)
[30] CN (201911219742.2) 2019-12-03

[21] **3,163,128**
[13] A1

[51] **Int.Cl. A61F 2/08 (2006.01)**
[25] EN
[54] **SELF-SWITCHING TRANSMISSION ASSEMBLY, BALLOON, AND PROSTHESIS FOR USE IN SHOULDER JOINT**
[54] **ENSEMBLE DE TRANSMISSION A COMMUTATION AUTOMATIQUE, BALLONNET ET PROTHESE DESTINES A ETRE UTILISES DANS UNE ARTICULATION D'EPAULE**
[72] JI, XIAOFEI, CN
[72] LIU, CHEN, CN
[72] YUE, BIN, CN
[71] SHANGHAI ENDOPHIX CO., LTD., CN
[85] 2022-05-27
[86] 2020-12-10 (PCT/CN2020/135270)
[87] (WO2021/115378)
[30] CN (201911268570.8) 2019-12-11

[21] **3,163,130**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 47/54 (2017.01) A61K 47/65 (2017.01) A61K 47/68 (2017.01) A61K 38/07 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **ANTI-CEA ANTIBODY-EXATECAN ANALOG CONJUGATE AND PHARMACEUTICAL USE THEREOF**
[54] **CONJUGUE ANTICORPS ANTI-CEA-ANALOGUE D'EXATECAN ET UTILISATION PHARMACEUTIQUE DE CELUI-CI**
[72] YING, HUA, CN
[72] MAO, LANGYONG, CN
[72] WANG, SIJIA, CN
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2022-05-27
[86] 2020-12-15 (PCT/CN2020/136396)
[87] (WO2021/121204)
[30] CN (201911294912.3) 2019-12-16

[21] **3,163,131**
[13] A1

[51] **Int.Cl. C12P 7/06 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **PROCESS FOR DISPLACING AN EXOGENOUS ENZYME**
[54] **PROCEDE DE DEPLACEMENT D'UNE ENZYME EXOGENE**
[72] ARGYROS, AARON, US
[72] PANAITIU, ALEXANDRA, US
[72] RICE, CHARLES F., US
[72] BARRETT, KENNETH E., US
[72] RICHARDS, MATTHEW B., US
[72] STOUGHTENGER, TERA, US
[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU
[71] BASF SE, DE
[85] 2022-05-27
[86] 2020-11-25 (PCT/EP2020/025539)
[87] (WO2021/104673)
[30] US (62/941,967) 2019-11-29
[30] US (63/078,135) 2020-09-14
[30] US (63/078,139) 2020-09-14

[21] **3,163,132**
[13] A1

[51] **Int.Cl. G08B 25/01 (2006.01) G08B 29/18 (2006.01)**
[25] EN
[54] **A PERSONAL HELP BUTTON AND ADMINISTRATOR SYSTEM FOR A PERSONAL EMERGENCY RESPONSE SYSTEM (PERS)**
[54] **BOUTON D'AIDE PERSONNEL ET SYSTEME ADMINISTRATEUR POUR SYSTEME DE REPOSE D'URGENCE PERSONNEL**
[72] VAN DEN DUNGEN, WILHELMUS ANDREAS MARINUS ARNOLDUS MARIA, NL
[71] LIFELINE SYSTEMS COMPANY, US
[85] 2022-05-27
[86] 2020-11-24 (PCT/EP2020/083132)
[87] (WO2021/105085)
[30] EP (19212635.7) 2019-11-29

[21] **3,163,135**
[13] A1

[51] **Int.Cl. F01D 25/28 (2006.01) F01D 5/06 (2006.01)**
[25] EN
[54] **METHOD OF ASSEMBLING AND DISASSEMBLING A GAS TURBINE ENGINE MODULE AND AN ASSEMBLY THEREFOR**
[54] **PROCEDE D'ASSEMBLAGE ET DE DEMONTAGE D'UN MODULE DE MOTEUR A TURBINES A GAZ ET UN ENSEMBLE POUR CELUI-CI**
[72] BATT, STEPHEN, GB
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083671)
[87] (WO2021/105385)
[30] GB (1917397.0) 2019-11-29

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[21] **3,163,139**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) C07K 14/705 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING CANCER**

[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DU CANCER**

[72] REBEL, VIVIENNE I., US

[72] ELZI, DAVID J., US

[72] BAUTA, WILLIAM E., US

[71] BIOAFFINITY TECHNOLOGIES, INC., US

[85] 2022-06-27

[86] 2019-12-23 (PCT/US2019/068423)

[87] (WO2020/139866)

[30] US (62/785,592) 2018-12-27

[21] **3,163,173**
[13] A1

[51] **Int.Cl. A61K 41/13 (2020.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **HYPERACTIVE DENDRITIC CELLS ENABLE DURABLE ADOPTIVE CELL TRANSFER-BASED ANTI-TUMOR IMMUNITY**

[54] **CELLULES DENDRITIQUES HYPERACTIVES PERMETTANT UNE IMMUNITE ANTITUMORALE DURABLE BASEE SUR LE TRANSFERT ADOPTIF DE CELLULES**

[72] KAGAN, JONATHAN C., US

[72] ZHIVAKI, DANIA, US

[71] CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2022-05-17

[86] 2020-11-18 (PCT/US2020/061132)

[87] (WO2021/102057)

[30] US (62/937,075) 2019-11-18

[21] **3,163,174**
[13] A1

[51] **Int.Cl. A63F 13/235 (2014.01) A63F 13/245 (2014.01) A63F 13/95 (2014.01) A63F 13/98 (2014.01)**

[25] FR

[54] **PLAY SET**

[54] **ENSEMBLE DE JEU**

[72] GOULOIS, JULIEN, FR

[71] GOULOIS, JULIEN, FR

[85] 2022-05-27

[86] 2020-11-19 (PCT/EP2020/082764)

[87] (WO2021/110422)

[30] FR (FR1913663) 2019-12-03

[21] **3,163,175**
[13] A1

[51] **Int.Cl. H01H 3/42 (2006.01) H01H 33/02 (2006.01) H01H 33/50 (2006.01) H01H 33/70 (2006.01)**

[25] EN

[54] **CIRCUIT BREAKER WITH SIMPLIFIED NON-LINEAR DOUBLE MOTION**

[54] **DISJONCTEUR A DOUBLE MOUVEMENT NON LINEAIRE SIMPLIFIE**

[72] ROGNARD, QUENTIN, FR

[72] LAURENT, JEROME, FR

[72] BERARD, DAVID, FR

[71] GENERAL ELECTRIC TECHNOLOGY GMBH, CH

[85] 2022-05-27

[86] 2020-11-26 (PCT/EP2020/083447)

[87] (WO2021/105259)

[30] EP (19212719.9) 2019-11-29

[21] **3,163,176**
[13] A1

[51] **Int.Cl. A61K 31/501 (2006.01) A61K 45/06 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**

[25] FR

[54] **N2-ARYLMETHYL-4-HALOALKYL-PYRIDAZIN-3-ONE CFTR MODULATORS FOR THE TREATMENT OF CYSTIC FIBROSIS**

[54] **MODULATEURS DE CFTR DE TYPE N2-ARYLMETHYL-4-HALOALKYL-PYRIDAZIN-3-ONE POUR LE TRAITEMENT DE LA MUCOVISCIDOSE**

[72] GERARD, STEPHANE, FR

[72] BOUILLON, JEAN-PHILIPPE, FR

[72] BENTAHER, ABDERRAZZAQ, FR

[72] HENON, ERIC, FR

[72] JACQUOT, JACKY, FR

[72] SAPI, JANOS, FR

[72] VELARD, FREDERIC, FR

[71] UNIVERSITE DE REIMS CHAMPAGNE-ARDENNE, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] UNIVERSITE DE ROUEN-NORMANDIE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.R.S.), FR

[71] INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE ROUEN (INSA), FR

[71] ECOLE NORMALE SUPERIEURE DE LYON, FR

[71] UNIVERSITE CLAUDE BERNARD LYON 1 (UCBL), FR

[85] 2022-05-27

[86] 2020-11-30 (PCT/FR2020/052228)

[87] (WO2021/105641)

[30] FR (FR19 13404) 2019-11-28

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[21] **3,163,177**
[13] A1

[51] **Int.Cl. G09B 23/28 (2006.01)**
[25] EN
[54] **JAW MODEL, TOOTH MODEL AND SYSTEM FOR PRACTICING TECHNIQUES OF OPERATIVE DENTISTRY**

[54] **MODELE DE MACHOIRE, MODELE DE DENT ET SYSTEME PERMETTANT DE PRATIQUER DES TECHNIQUES DE DENTISTERIE OPERATOIRE**

[72] REMPLBAUER, STEFAN, AT
[72] VALEAN, ADRIAN, AT
[71] 3D MEDICAL PRINT KG, AT
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083624)
[87] (WO2021/105354)
[30] EP (19212561.5) 2019-11-29

[21] **3,163,178**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 3/10 (2006.01) C07K 14/62 (2006.01)**
[25] EN
[54] **METHODS FOR STRATIFYING DIABETES PATIENTS**

[54] **PROCEDES POUR STRATIFIER DES PATIENTS ATTEINTS DE DIABETE**

[72] CARLIER, VINCENT, BE
[71] IMCYSE SA, BE
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083642)
[87] (WO2021/105371)
[30] EP (19211796.8) 2019-11-27

[21] **3,163,179**
[13] A1

[51] **Int.Cl. A61M 25/02 (2006.01)**
[25] EN
[54] **CATHETER RETAINING DEVICE**

[54] **DISPOSITIF DE RETENUE DE CATHETER**

[72] VAN DAMME, ALEXANDER, BE
[72] CALLAERTS, SIMON, BE
[71] BEDAL NV, BE
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083714)
[87] (WO2021/105415)
[30] EP (19212594.6) 2019-11-29

[21] **3,163,180**
[13] A1

[51] **Int.Cl. A01G 23/083 (2006.01) A01G 23/099 (2006.01)**
[25] EN
[54] **HARVESTING HEAD FOR FORESTRY AND A METHOD FOR DETERMINING A THICKNESS OF A TREE TRUNK IN A HARVESTING HEAD FOR FORESTRY**

[54] **TETE DE RECOLTE POUR SYLVICULTURE ET PROCEDE DE DETERMINATION D'UNE EPAISSEUR D'UN TRONC D'ARBRE DANS UNE TETE DE RECOLTE POUR SYLVICULTURE**

[72] JOHANSSON, ANDERS, SE
[71] SP MASKINER I LJUNGBY AB, SE
[85] 2022-05-27
[86] 2020-12-02 (PCT/EP2020/084293)
[87] (WO2021/110755)
[30] SE (1951383-7) 2019-12-03

[21] **3,163,181**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **USE OF CELL FREE NUCLEOSOMES AS BIOMARKERS**

[54] **UTILISATION DE NUCLEOSOMES ACELLULAIRES EN TANT QUE BIOMARQUEURS**

[72] MICALLEF, JACOB VINCENT, BE
[72] WILSON-ROBLES, HEATHER, BE
[72] ECCLESTON, MARK EDWARD, BE
[72] HERZOG, MARIELLE CHANTAL ANDREE, BE
[72] TERRELL, JASON BRADLEY, BE
[71] BELGIAN VOLITION SRL, BE
[85] 2022-05-27
[86] 2020-12-02 (PCT/EP2020/084328)
[87] (WO2021/110776)
[30] US (62/942,596) 2019-12-02
[30] US (63/088,408) 2020-10-06

[21] **3,163,182**
[13] A1

[51] **Int.Cl. A23G 9/28 (2006.01) A23G 9/22 (2006.01) G07F 13/06 (2006.01) G07F 13/10 (2006.01) G07F 17/00 (2006.01)**
[25] EN
[54] **MACHINE FOR MAKING FROZEN CONFECTIONARY PRODUCT IN RE-USEABLE PRODUCT TUBES**

[54] **MACHINE POUR FABRIQUER UN PRODUIT DE CONFISERIE CONGELE DANS DES TUBES DE PRODUIT REUTILISABLES**

[72] KRAPPEN, EDGAR HEINRICH, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-05-27
[86] 2020-12-03 (PCT/EP2020/084356)
[87] (WO2021/110788)
[30] EP (19214256.0) 2019-12-06

[21] **3,163,183**
[13] A1

[51] **Int.Cl. C08F 290/06 (2006.01) C08G 18/09 (2006.01) C08G 18/18 (2006.01) C08G 18/20 (2006.01) C08G 18/48 (2006.01) C08G 18/67 (2006.01) C08G 18/76 (2006.01) C08G 18/79 (2006.01) C08G 18/81 (2006.01) C08J 9/14 (2006.01) C08K 5/523 (2006.01) C08K 5/54 (2006.01)**
[25] EN
[54] **FLAME, SMOKE AND TOXICITY RETARDANT COMPOSITION FOR USE IN POLYURETHANE/POLYISOCYANURATE COMPRISING FOAMS**

[54] **COMPOSITION RETARDATRICE DE FLAMME, DE FUMEE ET DE TOXICITE DESTINEE A ETRE UTILISEE DANS DES MOUSSES COMPRENANT DU POLYURETHANE/POLYISOCYANURATE**

[72] KLEIN, RENE ALEXANDER, BE
[72] ESMAEILI, NIMA, BE
[72] RICHTER, NADJA KATHRIN, BE
[72] GAJENDRAN, RAJESH KUMAR, BE
[72] GUO, XIAODONG, BE
[72] JONCHERAY, THOMAS JULIEN, BE
[72] VANDENBROECK, JAN, BE
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2022-05-27
[86] 2020-12-22 (PCT/EP2020/087586)
[87] (WO2021/130205)
[30] EP (19219225.0) 2019-12-23

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[21] **3,163,184**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01)**
[25] EN
[54] **ELECTROSURGICAL INSTRUMENT, GENERATOR AND APPARATUS**
[54] **INSTRUMENT ELECTROCHIRURGICAL, GENERATEUR ET APPAREIL**
[72] HANCOCK, CHRISTOPHER PAUL, GB
[71] CREO MEDICAL LIMITED, GB
[85] 2022-05-27
[86] 2020-12-03 (PCT/EP2020/084490)
[87] (WO2021/110847)
[30] GB (1917752.6) 2019-12-05

[21] **3,163,185**
[13] A1

[51] **Int.Cl. E06B 11/00 (2006.01) E01F 13/02 (2006.01) E01F 13/04 (2006.01) E06B 11/02 (2006.01) E06B 11/08 (2006.01)**
[25] EN
[54] **PERSON-SEPARATING INSTALLATION**
[54] **SYSTEME DE REGULATION DE FLUX DE PIETONS**
[72] BODA, DIRK, DE
[71] EPS HOLDING GMBH, DE
[85] 2022-05-27
[86] 2020-12-04 (PCT/EP2020/084729)
[87] (WO2021/110962)
[30] DE (10 2019 133 253.2) 2019-12-05

[21] **3,163,186**
[13] A1

[51] **Int.Cl. B32B 3/06 (2006.01) B32B 3/08 (2006.01) B32B 3/12 (2006.01) B32B 3/18 (2006.01) B32B 3/30 (2006.01) B32B 7/08 (2019.01) B32B 7/12 (2006.01) B32B 15/10 (2006.01) B32B 21/02 (2006.01) B32B 21/06 (2006.01) B32B 29/00 (2006.01) E04C 2/34 (2006.01)**
[25] EN
[54] **METAL REINFORCED BOARD**
[54] **PANNEAU RENFORCE PAR DES METAUX**
[72] KALL, HAKAN, SE
[71] IKEA SUPPLY AG, CH
[85] 2022-05-27
[86] 2020-12-08 (PCT/EP2020/085123)
[87] (WO2021/122174)
[30] SE (1951475-1) 2019-12-17

[21] **3,163,188**
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **IN VITRO AND IN VIVO GENE DELIVERY TO IMMUNE EFFECTOR CELLS USING NANOPARTICLES FUNCTIONALIZED WITH DESIGNED ANKYRIN REPEAT PROTEINS (DARPINS)**
[54] **DELIVRANCE DE GENES IN VITRO ET IN VIVO DANS DES CELLULES EFFECTRICES IMMUNES A L'AIDE DE NANOPARTICULES FONCTIONNALISEES AVEC DES PROTEINES DE REPETITION D'ANKYRINE CONCUES (DARPINS)**
[72] FRANK, ANNIKA, DE
[72] HARTMANN, JESSICA, DE
[72] BUCHHOLZ, CHRISTIAN, DE
[72] RENGSTL, BENJAMIN, DE
[72] BILLMEIER, ARNE MARTEN, DE
[72] SAHIN, UGUR, DE
[72] SCHMOLDT, HANS-ULRICH, DE
[72] HELLER, PHILIPP, DE
[72] LUI, BONNY GABY, DE
[72] SCHLEGEL, ANNE, DE
[71] BIONTECH CELL & GENE THERAPIES GMBH, DE
[85] 2022-05-27
[86] 2020-12-22 (PCT/EP2020/087627)
[87] (WO2021/130225)
[30] EP (PCT/EP2019/087110) 2019-12-27

[21] **3,163,189**
[13] A1

[51] **Int.Cl. F16L 57/04 (2006.01) F16L 5/04 (2006.01) F16L 59/12 (2006.01) F16L 59/14 (2006.01) F24F 13/02 (2006.01)**
[25] EN
[54] **A FIRE RESISTANT VENTILATION DUCT AND A METHOD OF MANUFACTURING AND INSTALLING SUCH VENTILATION DUCT**
[54] **CONDUIT DE VENTILATION RESISTANT AU FEU ET PROCEDE DE FABRICATION ET D'INSTALLATION D'UN TEL CONDUIT DE VENTILATION**
[72] PEDERSEN, KURT MUNK, DK
[72] RODENBERGER, JURG DIETER STEFAN, DK
[72] THOMA, MARKUS, DK
[71] ROCKWOOL A/S, DK
[85] 2022-05-27
[86] 2020-12-11 (PCT/EP2020/085771)
[87] (WO2021/116411)
[30] EP (19215568.7) 2019-12-12

[21] **3,163,190**
[13] A1

[51] **Int.Cl. G06K 9/00 (2022.01) G06K 9/62 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ARTIFICIAL INTELLIGENCE-BASED IMAGE ANALYSIS FOR DETECTION AND CHARACTERIZATION OF LESIONS**
[54] **SYSTEMES ET PROCEDES D'ANALYSE D'IMAGE BASEE SUR L'INTELLIGENCE ARTIFICIELLE POUR LA DETECTION ET LA CARACTERISATION DE LESIONS**
[72] BRYNOLFSSON, JOHAN MARTIN, SE
[72] JOHNSON, KERSTIN ELSA MARIA, SE
[72] SAHLSTEDT, HANNICKA MARIA ELEONORA, SE
[72] RICHTER, JENS FILIP ANDREAS, SE
[71] EXINI DIAGNOSTICS AB, SE
[85] 2022-05-27
[86] 2021-07-02 (PCT/EP2021/068337)
[87] (WO2022/008374)
[30] US (63/048,436) 2020-07-06
[30] US (17/008,411) 2020-08-31
[30] US (63/127,666) 2020-12-18
[30] US (63/209,317) 2021-06-10

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[21] **3,163,192**
[13] A1

[51] **Int.Cl. B61L 23/04 (2006.01) B60M 1/28 (2006.01) B61L 27/00 (2022.01) G01B 11/02 (2006.01) G01B 11/06 (2006.01) G01S 17/87 (2020.01) G01S 17/88 (2006.01)**

[25] EN

[54] **METHOD FOR IN-SITU AND REAL-TIME COLLECTION AND PROCESSING OF GEOMETRIC PARAMETERS OF RAILWAY LINES**

[54] **PROCEDE DE CAPTURE ET DE TRAITEMENT IN SITU ET EN TEMPS REEL DE PARAMETRES GEOMETRIQUES DE LIGNES FERROVIAIRES**

[72] GONZALEZ ALVAREZ, CESAREO, ES

[72] PUENTE MARTINEZ, RUBEN, ES

[72] SUAREZ GONZALEZ, ADRIAN, ES

[72] GALLACH PEREZ, DARIO, ES

[72] LANZA LOPEZ, BORJA JAVIER, ES

[71] TELEFONOS, LINEAS Y CENTRALES, S.A., ES

[85] 2022-05-27

[86] 2019-12-17 (PCT/ES2019/070857)

[87] (WO2021/123463)

[21] **3,163,193**
[13] A1

[51] **Int.Cl. C08G 18/08 (2006.01) C08G 18/50 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **POLYUREA COPOLYMER**

[54] **COPOLYMERE DE POLYUREE**

[72] KOENIG, SANDRA GLORIA, DE

[72] ENGERT, SUSANNE CARINA, DE

[72] QUELL, AGGELIKI, DE

[72] HAYDL, ALEXANDER MICHAEL, DE

[72] ZEILINGER, MICHAEL, DE

[72] WIEBELHAUS, DAG, DE

[71] BASF SE, DE

[85] 2022-05-27

[86] 2020-12-14 (PCT/EP2020/086033)

[87] (WO2021/122480)

[30] EP (19216776.5) 2019-12-17

[21] **3,163,194**
[13] A1

[51] **Int.Cl. A47G 25/28 (2006.01) A47G 25/14 (2006.01)**

[25] EN

[54] **A HANGER ARRANGEMENT**

[54] **DISPOSITIF D'ACCROCHAGE**

[72] TAYLOR, GUY, GB

[71] THE JANGER LIMITED, GB

[85] 2022-05-27

[86] 2020-11-23 (PCT/GB2020/052979)

[87] (WO2021/105655)

[30] GB (1917456.4) 2019-11-29

[21] **3,163,196**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/10 (2009.01)**

[25] EN

[54] **METHOD FOR SELECTING UPLINK TRANSMISSION RESOURCE AND TERMINAL**

[54] **PROCEDE POUR SELECTIONNER UNE RESSOURCE DE TRANSMISSION EN LIAISON MONTANTE ET TERMINAL**

[72] BAO, WEI, CN

[72] WU, YUMIN, CN

[71] VIVO MOBILE COMMUNICATION CO., LTD., CN

[85] 2022-05-27

[86] 2020-12-03 (PCT/CN2020/133515)

[87] (WO2021/110080)

[30] CN (201911236410.5) 2019-12-05

[21] **3,163,197**
[13] A1

[51] **Int.Cl. D06M 15/356 (2006.01) C08J 5/06 (2006.01) D06M 13/322 (2006.01) D06M 13/395 (2006.01) D06M 15/55 (2006.01)**

[25] EN

[54] **SURFACE-MODIFIED FIBERS, REINFORCING FIBERS, AND MOLDED ARTICLE USING SAME**

[54] **FIBRES MODIFIEES EN SURFACE, FIBRES DE RENFORCEMENT ET ARTICLE MOULE LES UTILISANT**

[72] ISHIDA, EIICHI, JP

[72] KODA, DAISUKE, JP

[72] ASADA, TORU, JP

[72] TAKEMOTO, SHINICHI, JP

[72] YORIMITSU, SHUHEI, JP

[72] KAWAI, HIROYUKI, JP

[71] KURARAY CO., LTD., JP

[85] 2022-05-27

[86] 2020-11-10 (PCT/JP2020/041979)

[87] (WO2021/106559)

[30] JP (2019-214432) 2019-11-27

[21] **3,163,198**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/58 (2006.01) A61P 27/00 (2006.01) A61P 27/02 (2006.01) A61P 27/14 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING BUDESONIDE FOR OPHTHALMIC USE**

[54] **COMPOSITION COMPRENANT DU BUDESONIDE POUR USAGE OPHTHALMIQUE**

[72] MARCELLONI, LUCIANO, IT

[72] BERTOCCHI, FEDERICO, IT

[71] NTC S.R.L., IT

[85] 2022-05-27

[86] 2020-12-03 (PCT/IB2020/061444)

[87] (WO2021/111358)

[30] IT (102019000022860) 2019-12-03

[30] IT (102019000022881) 2019-12-03

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[21] **3,163,200**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/444 (2006.01) A61P 3/04 (2006.01) A61P 5/50 (2006.01) A61P 9/04 (2006.01) A61P 19/08 (2006.01) A61P 23/00 (2006.01) A61P 25/16 (2006.01) A61P 25/20 (2006.01) A61P 25/26 (2006.01) A61P 25/28 (2006.01) A61P 43/00 (2006.01) C07D 455/02 (2006.01) C07D 471/04 (2006.01)**

[25] EN
[54] **HETEROCYCLIC COMPOUND**
[54] **COMPOSE HETEROCYCLIQUE**
[72] ITO, YOSHITERU, JP
[72] MIYANO HANA, YUHEI, JP
[72] KAJITA, YUICHI, JP
[72] HOASHI, YASUTAKA, JP
[72] HATTORI, YASUSHI, JP
[72] KOIKE, TATSUKI, JP
[72] TOKUNAGA, NORIHITO, JP
[72] KIMURA, EIJI, JP
[72] PAWLICZEK, ALEXANDER MARTIN, JP
[72] PIRA, MARILENA, JP
[72] MIGUELEZ-RAMOS, JAVIER, JP
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2022-05-27
[86] 2020-11-26 (PCT/JP2020/043924)
[87] (WO2021/106975)
[30] JP (2019-214206) 2019-11-27
[30] JP (2020-093604) 2020-05-28

[21] **3,163,203**
[13] A1

[51] **Int.Cl. H01M 8/1004 (2016.01) H01M 8/1023 (2016.01) H01M 8/1025 (2016.01) H01M 8/1032 (2016.01) H01M 4/88 (2006.01) H01M 8/10 (2016.01)**

[25] EN
[54] **MANUFACTURING METHOD AND MANUFACTURING DEVICE FOR FILM/CATALYST ASSEMBLY**
[54] **PROCEDE DE FABRICATION ET DISPOSITIF DE FABRICATION POUR ENSEMBLE FILM/CATALYSEUR**
[72] SHINTAKU, YUTA, JP
[72] SAKASHITA, RYUTA, JP
[72] IZUHARA, DAISUKE, JP
[72] MINOURA, KIYOSHI, JP
[72] KUMAGAI, MEI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2022-05-27
[86] 2020-12-21 (PCT/JP2020/047640)
[87] (WO2021/132137)
[30] JP (2019-231591) 2019-12-23

[21] **3,163,205**
[13] A1

[51] **Int.Cl. G06K 1/12 (2006.01) B21D 26/033 (2011.01) G06Q 50/04 (2012.01)**

[25] EN
[54] **INFORMATION PROVIDING DEVICE AND DETERMINATION SYSTEM**
[54] **DISPOSITIF DE FOURNITURE D'INFORMATIONS ET SYSTEME DE DETERMINATION**
[72] ISHIZUKA, MASAYUKI, JP
[72] UENO, NORIEDA, JP
[71] SUMITOMO HEAVY INDUSTRIES, LTD., JP
[85] 2022-05-27
[86] 2021-01-13 (PCT/JP2021/000874)
[87] (WO2021/176851)
[30] JP (2020-034940) 2020-03-02

[21] **3,163,206**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61K 31/407 (2006.01) A61K 31/4155 (2006.01) A61K 31/416 (2006.01) A61K 31/4184 (2006.01) A61K 31/4427 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61K 31/551 (2006.01) A61P 7/00 (2006.01) A61P 21/00 (2006.01) A61P 25/00 (2006.01) A61P 25/04 (2006.01) A61P 29/00 (2006.01) A61P 31/12 (2006.01) A61P 33/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 35/04 (2006.01) A61P 43/00 (2006.01) C07D 209/42 (2006.01) C07D 209/96 (2006.01) C07D 213/75 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/10 (2006.01) C07D 491/107 (2006.01)**

[25] EN
[54] **G9A INHIBITOR**
[54] **INHIBITEUR DE G9A**
[72] SUMIYA, TATSUNOBU, JP
[72] NISHIGAYA, YOSUKE, JP
[72] NAMIE, RYOSUKE, JP
[72] HASHIMOTO, NORIAKI, JP
[72] ITO, AKIHIRO, JP
[72] SHIRAI, FUMIYUKI, JP
[72] KIKUZATO, KO, JP
[72] YOSHIDA, MINORU, JP
[71] RIKEN, JP
[71] TOKYO UNIVERSITY OF PHARMACY AND LIFE SCIENCES, JP
[71] MICROBIAL CHEMISTRY RESEARCH FOUNDATION, JP
[85] 2022-05-27
[86] 2020-11-26 (PCT/JP2020/043966)
[87] (WO2021/106988)
[30] JP (2019-213990) 2019-11-27

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[21] **3,163,209**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) C07K 14/52 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **LARGE-SCALE COMBINED CAR TRANSDUCTION AND CRISPR GENE EDITING OF T CELLS**

[54] **TRANSDUCTION DE CAR COMBINEE A GRANDE ECHELLE ET EDITION DE GENE CRISPR DE LYMPHOCYTES T**

[72] REZVANI, KATY, US

[72] BASAR, RAFET, US

[72] GOKDEMIR, ELIF, US

[72] SHANLEY, MAYRA, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2022-05-25

[86] 2020-11-25 (PCT/US2020/062324)

[87] (WO2021/108631)

[30] US (62/941,638) 2019-11-27

[30] US (63/022,828) 2020-05-11

[21] **3,163,210**
[13] A1

[51] **Int.Cl. B65G 11/16 (2006.01) B65G 15/00 (2006.01) B65G 39/02 (2006.01) B65G 43/02 (2006.01) B65G 47/18 (2006.01) B65G 47/44 (2006.01)**

[25] EN

[54] **CONVEYOR COMPONENT MONITORING**

[54] **SURVEILLANCE D'UN COMPOSANT DE TRANSPORTEUR**

[72] MORRIS, BART DANIEL, AU

[72] AFRIDI, MUHAMMAD MUSABB ALAM, AU

[72] HAPGOOD-STRICKLAND, RONALD, AU

[71] COLORADO CONVEYORS, INC., US

[85] 2022-05-30

[86] 2020-11-19 (PCT/AU2020/051249)

[87] (WO2021/108835)

[30] AU (2019904631) 2019-12-06

[21] **3,163,211**
[13] A1

[51] **Int.Cl. B01J 19/24 (2006.01) A61L 27/28 (2006.01) C09D 4/02 (2006.01)**

[25] EN

[54] **REACTORS FOR COATING DEVICES AND RELATED SYSTEMS AND METHODS**

[54] **REACTEURS POUR DISPOSITIFS DE REVETEMENT ET SYSTEMES ET PROCEDES ASSOCIES**

[72] KANOATOV, MIRZO, CA

[72] CONANT, GENEVIEVE, CA

[72] KNIGHT, DARRYL, CA

[72] SIVAKUMARAN, DARYL, CA

[71] COVALON TECHNOLOGIES LTD., CA

[85] 2022-05-30

[86] 2020-12-16 (PCT/CA2020/051728)

[87] (WO2021/119812)

[30] US (62/948,923) 2019-12-17

[21] **3,163,212**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61B 17/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS FOR CLAMPING A MITRAL VALVE**

[54] **APPAREIL ET PROCEDES DE SERRAGE D'UNE VALVE MITRALE**

[72] SKARSGARD, PETER LLOYD, CA

[71] VESALIUS CARDIOVASCULAR INC., CA

[85] 2022-05-30

[86] 2021-03-05 (PCT/CA2021/050296)

[87] (WO2021/179065)

[30] US (62/987,240) 2020-03-09

[21] **3,163,213**
[13] A1

[51] **Int.Cl. E21B 4/16 (2006.01)**

[25] EN

[54] **DRILLING SPEED INCREASING DEVICE**

[54] **DISPOSITIF D'AUGMENTATION DE VITESSE DE FORAGE**

[72] WANG, JIACHANG, CN

[72] ZHANG, HAIPING, CN

[72] ZANG, YANBIN, CN

[72] SUN, MINGGUANG, CN

[72] MA, GUANGJUN, CN

[72] WANG, LISHUANG, CN

[72] XUAN, LINGCHAO, CN

[72] LIU, XIAODAN, CN

[72] ZHANG, RENLONG, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC PETROLEUM ENGINEERING TECHNOLOGY RESEARCH INSTITUTE CO., LTD., CN

[85] 2022-05-30

[86] 2020-09-11 (PCT/CN2020/114861)

[87] (WO2021/120723)

[30] CN (201911294230.2) 2019-12-16

[21] **3,163,218**
[13] A1

[51] **Int.Cl. C07D 491/052 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **OXYGEN-CONTAINING HETEROCYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **COMPOSE HETEROCYCLIQUE CONTENANT DE L'OXYGENE, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] XU, ZUSHENG, CN

[72] LOU, YANGTONG, CN

[72] XIE, TIEGANG, CN

[71] SHANGHAI YINGLI PHARMACEUTICAL CO., LTD, CN

[85] 2022-05-30

[86] 2020-10-21 (PCT/CN2020/122335)

[87] (WO2021/109737)

[30] CN (201911212840.3) 2019-12-02

[30] CN (202010368798.0) 2020-04-29

[30] CN (202011077052.0) 2020-10-10

PCT Applications Entering the National Phase

[21] **3,163,220**
[13] A1

[51] **Int.Cl. H02M 3/06 (2006.01)**
[25] EN
[54] **DC-DC STEP UP CONVERTER SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES POUR CONVERTISSEUR ELEVATEUR CC-CC**

[72] ANDREWS, MICHAEL, CA
[72] HE, WILSON, CA
[71] TIGER TOOL INTERNATIONAL INCORPORATED, CA

[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062395)
[87] (WO2021/108687)
[30] US (62/941,554) 2019-11-27
[30] US (62/945,737) 2019-12-09

[21] **3,163,221**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **CAPSULE FOR PREPARING A BEVERAGE, MADE OF AN ALUMINIUM ALLOY**
[54] **CAPSULE CONSTITUEE D'UN ALLIAGE D'ALUMINIUM POUR LA PREPARATION D'UNE BOISSON**

[72] BEHRMANN, VEITH, CH
[72] MUELLER, MARTIN GUILLERMO, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2022-05-30
[86] 2020-12-16 (PCT/EP2020/086329)
[87] (WO2021/122676)
[30] EP (19216926.6) 2019-12-17

[21] **3,163,222**
[13] A1

[51] **Int.Cl. C10G 9/16 (2006.01) C10L 3/00 (2006.01)**
[25] EN
[54] **ANTIFOULANT COMPOSITION AND METHOD FOR A NATURAL GAS PROCESSING PLANT**
[54] **COMPOSITION ANTISALISSURE ET PROCEDE POUR UNE INSTALLATION DE TRAITEMENT DE GAZ NATUREL**

[72] YU, GUANGZHE, US
[72] LE, ERIC, US
[72] FIELDS, TONY, US
[71] BL TECHNOLOGIES, INC., US

[85] 2022-05-27
[86] 2020-09-15 (PCT/US2020/050815)
[87] (WO2021/118668)
[30] US (62/948,216) 2019-12-14

[21] **3,163,223**
[13] A1

[51] **Int.Cl. A23J 1/14 (2006.01) A23L 33/185 (2016.01) C07K 14/415 (2006.01) A01H 6/54 (2018.01)**
[25] EN
[54] **RAPESEED PROTEIN COMPOSITION WITH HIGH PROTEIN QUALITY**
[54] **COMPOSITION DE PROTEINE DE COLZA A HAUTE QUALITE DE PROTEINE**

[72] SEIN, ARJEN, NL
[72] BRUINS, MAAIKE JOHANNA, NL
[72] WARNKE, INES, NL
[71] DSM IP ASSETS B.V., NL

[85] 2022-05-30
[86] 2020-12-17 (PCT/EP2020/086864)
[87] (WO2021/123049)
[30] EP (19219166.6) 2019-12-20

[21] **3,163,226**
[13] A1

[51] **Int.Cl. C08F 290/06 (2006.01) C08G 18/02 (2006.01) C08G 18/09 (2006.01) C08G 18/18 (2006.01) C08G 18/20 (2006.01) C08G 18/48 (2006.01) C08G 18/67 (2006.01) C08G 18/76 (2006.01) C08G 18/79 (2006.01) C08G 18/81 (2006.01) C08J 9/14 (2006.01) C08K 5/54 (2006.01)**
[25] EN
[54] **A METHOD FOR IMPROVING THE FLAME, SMOKE AND/OR TOXICITY RETARDANCY IN POLYISOCYANURATE / POLYURETHANE (PIR/PUR) COMPRISING MATERIALS**
[54] **PROCEDE PERMETTANT D'AMELIORER L'ININFLAMMABILITE, LA RESISTANCE AUX FUMES ET/OU A LA TOXICITE DANS DES MATERIAUX COMPRENANT DU POLYISOCYANURATE/POLYURETHANE (PIR/PUR)**

[72] KLEIN, RENE ALEXANDER, BE
[72] ESMAEILI, NIMA, BE
[72] RICHTER, NADJA KATHRIN, BE
[72] GAJENDRAN, RAJESH KUMAR, BE
[72] GUO, XIAODONG, BE
[72] JONCHERAY, THOMAS JULIEN, BE
[72] VANDENBROECK, JAN, BE
[71] HUNTSMAN INTERNATIONAL LLC, US

[85] 2022-05-30
[86] 2020-12-22 (PCT/EP2020/087582)
[87] (WO2021/130201)
[30] EP (19219222.7) 2019-12-23

[21] **3,163,228**
[13] A1

[51] **Int.Cl. B27M 1/06 (2006.01) B27K 5/00 (2006.01) F26B 3/02 (2006.01) F26B 3/347 (2006.01)**
[25] EN
[54] **METHOD FOR A CONTINUOUS WOOD MODIFICATION BY HEATING**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT THERMIQUE DE MODIFICATION CONTINUE DU BOIS**

[72] ZHOU, MING WU, US
[72] WANG, XIONG, CN
[71] ZHOU, MING WU, US

[85] 2022-05-27
[86] 2020-11-11 (PCT/US2020/059900)
[87] (WO2021/108127)
[30] CN (201911182130.0) 2019-11-27
[30] US (16/882,755) 2020-05-26

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[21] **3,163,230**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 50/06 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ACQUIRING, TRACKING, AND TESTING ASSET SAMPLE DATA**
[54] **PROCEDE ET SYSTEME D'ACQUISITION, DE SUIVI ET DE TEST DE DONNEES D'ECHANTILLONS D'ACTIFS**
[72] REED, SCOTT D., US
[71] MVA DIAGNOSTICS, INC., US
[85] 2022-05-27
[86] 2020-11-19 (PCT/US2020/061345)
[87] (WO2021/108226)
[30] US (16/698,416) 2019-11-27

[21] **3,163,235**
[13] A1

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/10 (2006.01) G02B 21/26 (2006.01) G02B 21/34 (2006.01)**
[25] EN
[54] **AUTOMATED AND HIGH THROUGHPUT IMAGING MASS CYTOMETRY**
[54] **CYTOMETRIE DE MASSE D'IMAGERIE AUTOMATISEE ET A HAUT RENDEMENT**
[72] SANDKUIJL, DAAF, CA
[72] LOBODA, ALEXANDER, CA
[72] YEH, VINCENT YI-CHING, CA
[72] GHEIRATMAND, LADAN, CA
[71] STANDARD BIOTOOLS CANADA INC., CA
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062268)
[87] (WO2021/108584)
[30] US (62/941,028) 2019-11-27
[30] US (63/045,512) 2020-06-29

[21] **3,163,236**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/053 (2021.01) A61B 5/06 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR TISSUE ANALYSIS, LOCATION DETERMINATION AND TISSUE ABLATION**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES D'ANALYSE DE TISSUE, DE DETERMINATION D'EMPLACEMENT ET D'ABLATION DE TISSU**
[72] TING, JOE, US
[72] TO, TANIA, US
[72] ZUO, VINCENT, US
[72] WRIGHT, JAMES, US
[72] APOLLONIO, BEN, US
[72] HOLLAND DRESSER, CHARLES, US
[71] BLOSSOM INNOVATIONS, LLC, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062415)
[87] (WO2021/108704)
[30] US (62/941,213) 2019-11-27

[21] **3,163,238**
[13] A1

[51] **Int.Cl. H04W 12/06 (2021.01) G06Q 20/32 (2012.01) G06Q 20/00 (2012.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR REDUCING A TIME TO AUTHENTICATE A USER**
[54] **PROCEDE ET SYSTEME DE REDUCTION D'UN TEMPS D'AUTHENTIFICATION D'IDENTITE D'UN UTILISATEUR**
[72] WHITE, BRETT ANDREW, ZA
[71] GELLINER LIMITED, GB
[85] 2022-05-30
[86] 2020-12-04 (PCT/GB2020/053131)
[87] (WO2021/116667)
[30] GB (1918343.3) 2019-12-12
[30] GB (2008983.5) 2020-06-12

[21] **3,163,239**
[13] A1

[51] **Int.Cl. H01R 4/2406 (2018.01) H01R 4/2404 (2018.01) H01R 13/08 (2006.01)**
[25] EN
[54] **SEMICONDUCTOR DEVICE, PRINTED CIRCUIT BOARD (PCB), AND METHOD OF INTERFACING CONTROL PIN (GATE PIN) OF A POWER SEMICONDUCTOR DEVICE (MOSFET) TO A PRINTED CIRCUIT BOARD (PCB) IN A BATTERY MANAGEMENT SYSTEM (BMS)**
[54] **DISPOSITIF A SEMI-CONDUCTEUR, CARTE DE CIRCUIT IMPRIME (PCB), ET PROCEDE D'INTERFACAGE DE BROCHE DE COMMANDE (BROCHE DE GRILLE) DE DISPOSITIF A SEMI-CONDUCTEUR DE PUISSANCE (MOSFET) SUR UNE CARTE DE CIRCUIT IMPRIME (PCB) DANS UN SYSTEME DE GESTION DE BATTERIE (BMS)**
[72] MCBRIDE, JAMES P., US
[72] STANFIELD, JAMES RICHARD, US
[71] THE NOCO COMPANY, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062417)
[87] (WO2021/108706)
[30] US (29/715,103) 2019-11-27
[30] US (29/715,105) 2019-11-27
[30] US (62/941,275) 2019-11-27

[21] **3,163,241**
[13] A1

[51] **Int.Cl. E01F 15/00 (2006.01) E01F 15/04 (2006.01)**
[25] EN
[54] **STRAPPING APPARATUS**
[54] **APPAREIL DE CERCLAGE**
[72] SCHOLFIELD, DALE, GB
[71] THREE SMITH GROUP LIMITED, GB
[85] 2022-05-30
[86] 2020-12-08 (PCT/GB2020/053139)
[87] (WO2021/116669)
[30] GB (1918407.6) 2019-12-13

PCT Applications Entering the National Phase

[21] **3,163,242**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 25/28 (2006.01) C07D 239/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **TREATING COGNITIVE DISORDERS USING TRAPIDIL**

[54] **TRAITEMENT DE TROUBLES COGNITIFS A L'AIDE DE TRAPIDIL**

[72] BORDBAR, AARASH, US

[71] SINOPIA BIOSCIENCES, INC., US

[85] 2022-05-27

[86] 2020-12-01 (PCT/US2020/062751)

[87] (WO2021/113266)

[30] US (62/942,645) 2019-12-02

[21] **3,163,243**
[13] A1

[51] **Int.Cl. A61K 31/438 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 9/12 (2006.01) C07D 498/10 (2006.01)**

[25] EN

[54] **SSTR5 ANTAGONISTS**

[54] **ANTAGONISTES DE SSTR5**

[72] SEBHAT, IYASSU, US

[72] HE, SHUWEN, US

[71] KALLYOPE, INC., US

[85] 2022-05-27

[86] 2020-12-02 (PCT/US2020/062890)

[87] (WO2021/113362)

[30] US (62/943,099) 2019-12-03

[21] **3,163,245**
[13] A1

[51] **Int.Cl. B60T 7/12 (2006.01) B60T 13/66 (2006.01)**

[25] EN

[54] **A METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR SELECTING A KIT OF PARTS THAT TRAVERSE AN INCLINE**

[54] **PROCEDE, APPAREIL ET PRODUIT-PROGRAMME D'ORDINATEUR POUR SELECTIONNER UN KIT DE PIECES QUI TRAVERSENT UNE INCLINAISON**

[72] HORTON, ROBERT, GB

[72] PRIOR, LEE, GB

[72] GASKIN, NATHAN, GB

[71] ISLAND MOBILITY LTD, GB

[85] 2022-05-30

[86] 2020-12-11 (PCT/GB2020/053188)

[87] (WO2021/144549)

[30] GB (2000677.1) 2020-01-16

[30] GB (2006601.5) 2020-05-05

[21] **3,163,247**
[13] A1

[51] **Int.Cl. A61L 24/00 (2006.01) C08K 5/00 (2006.01) C09J 9/00 (2006.01) C09J 11/00 (2006.01) C09J 105/08 (2006.01) C09J 151/00 (2006.01)**

[25] EN

[54] **BODY FLUID RESISTANT TISSUE ADHESIVES**

[54] **ADHESIFS TISSULAIRES RESISTANT AUX FLUIDES CORPORELS**

[72] ZHAO, XUANHE, US

[72] YUK, HYUNWOO, US

[72] MAO, XINYU, US

[72] NABZDYK, CHRISTOPH, US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2022-05-27

[86] 2020-12-03 (PCT/US2020/063057)

[87] (WO2021/194566)

[30] US (62/942,874) 2019-12-03

[21] **3,163,248**
[13] A1

[51] **Int.Cl. B82Y 5/00 (2011.01) A61B 5/0536 (2021.01) A61B 5/00 (2006.01) A61N 1/32 (2006.01) A61N 1/40 (2006.01) A61B 5/055 (2006.01) A61K 9/00 (2006.01) A61K 41/00 (2020.01) A61K 49/18 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR IMAGING A CELL**

[54] **COMPOSITIONS ET PROCEDES POUR L'IMAGERIE D'UNE CELLULE**

[72] VOLOSHIN-SELA, TAL, IL

[72] HERSHKOVICH, HADAS, IL

[72] BOMZON, ZE'EV, IL

[71] NOVOCURE GMBH, CH

[85] 2022-05-30

[86] 2020-11-30 (PCT/IB2020/000984)

[87] (WO2021/116748)

[30] US (62/946,803) 2019-12-11

[21] **3,163,249**
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01) G01N 15/14 (2006.01) G01N 21/64 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **IMPROVED METHODS AND DEVICES FOR MEASURING CELL NUMBERS AND/OR CELL PROPERTIES**

[54] **PROCEDES ET DISPOSITIFS AMELIORES POUR MESURER DES NOMBRES DE CELLULES ET/OU DES PROPRIETES DE CELLULES**

[72] SHINE, IAN BASIL, US

[72] SHINE, THOMAS ADAM, US

[71] SHINE, IAN BASIL, US

[71] SHINE, THOMAS ADAM, US

[85] 2022-05-27

[86] 2020-12-04 (PCT/US2020/063335)

[87] (WO2021/113652)

[30] US (62/943,757) 2019-12-04

Demandes PCT entrant en phase nationale

[21] **3,163,257**
[13] A1

[51] **Int.Cl. C09K 8/04 (2006.01) C09K 8/58 (2006.01) E21B 43/22 (2006.01)**

[25] EN

[54] **SILICA NANOPARTICLES FOR CRUDE OIL RECOVERY USING CARBON DIOXIDE, AND CRUDE OIL RECOVERY METHOD**

[54] **NANOPARTICULES DE SILICE POUR LA RECUPERATION DE PETROLE BRUT UTILISANT DU DIOXYDE DE CARBONE, ET PROCEDE DE RECUPERATION DE PETROLE BRUT**

[72] HIRAOKA, TAKASHI, JP
[72] YONEBAYASHI, HIDEHARU, JP
[72] MIYAGAWA, YOSHIHIRO, JP
[72] SAGISAKA, MASANOBU, JP
[72] ABE, MASASHI, JP
[71] INPEX CORPORATION, JP
[71] HIROSAKI UNIVERSITY, JP
[71] NISSAN CHEMICAL CORPORATION, JP
[85] 2022-05-27
[86] 2020-11-26 (PCT/JP2020/044098)
[87] (WO2021/107048)
[30] JP (2019-215612) 2019-11-28

[21] **3,163,258**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) C07K 14/705 (2006.01)**

[25] EN

[54] **LARGE-SCALE COMBINED CAR TRANSDUCTION AND CRISPR GENE EDITING OF NK CELLS**

[54] **TRANSDUCTION DE CAR COMBINEE A GRANDE ECHELLE ET EDITION DE GENE CRISPR DE CELLULES NK**

[72] REZVANI, KATY, US
[72] BASAR, RAFET, US
[72] DAHER, MAY, US
[72] MARIN COSTA, DAVID, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062372)
[87] (WO2021/108671)
[30] US (62/941,134) 2019-11-27

[21] **3,163,260**
[13] A1

[51] **Int.Cl. A61N 1/32 (2006.01) A61N 1/40 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF ALTERING THE ELECTRIC IMPEDANCE TO AN ALTERNATING ELECTRIC FIELD**

[54] **PROCEDES DE MODIFICATION DE L'IMPEDANCE ELECTRIQUE EN UN CHAMP ELECTRIQUE ALTERNATIF**

[72] HERSHKOVICH, HADAS, IL
[72] VOLOSHIN-SELA, TALI, IL
[72] BOMZON, ZE'EV, IL
[71] NOVOCURE GMBH, CH
[85] 2022-05-30
[86] 2020-11-30 (PCT/IB2020/001002)
[87] (WO2021/116753)
[30] US (62/946,798) 2019-12-11

[21] **3,163,262**
[13] A1

[51] **Int.Cl. A61N 1/40 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF ALTERING THE ELECTRIC IMPEDANCE TO AN ALTERNATING ELECTRIC FIELD**

[54] **COMPOSITIONS ET PROCEDES DE MODIFICATION DE L'IMPEDANCE ELECTRIQUE D'UN CHAMP ELECTRIQUE ALTERNATIF**

[72] HERSHKOVICH, HADAS, IL
[72] VOLOSHIN-SELA, TALI, IL
[72] BOMZON, ZE'EV, IL
[71] NOVOCURE GMBH, CH
[85] 2022-05-30
[86] 2020-11-30 (PCT/IB2020/001016)
[87] (WO2021/116754)
[30] US (62/946,793) 2019-12-11

[21] **3,163,263**
[13] A1

[51] **Int.Cl. A61L 33/06 (2006.01) C08F 218/02 (2006.01) C09D 183/04 (2006.01) C09D 183/07 (2006.01)**

[25] EN

[54] **COATING AGENT AND MEDICAL MATERIAL USING SAME**

[54] **AGENT DE REVETEMENT ET MATERIAU MEDICAL L'UTILISANT**

[72] USHIRO, SUGURU, JP
[72] IIMORI, HIROKAZU, JP
[72] SAKAGUCHI, HIROKAZU, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2022-05-30
[86] 2021-03-12 (PCT/JP2021/010029)
[87] (WO2021/182608)
[30] JP (2020-043014) 2020-03-12

[21] **3,163,264**
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01) A61K 9/127 (2006.01) A61K 31/713 (2006.01) A61K 47/14 (2017.01) A61K 47/22 (2006.01) A61K 47/28 (2006.01) A61K 48/00 (2006.01) A61P 13/02 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING DOUBLE-STRANDED RIBONUCLEIC ACID INHIBITING EXPRESSION OF COMPLEMENT C5**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT DE L'ACIDE RIBONUCLEIQUE DOUBLE BRIN INHIBANT L'EXPRESSION DU COMPLEMENT C5**

[72] TAKEMOTO, SEIJI, JP
[72] ARASE, SHUNTARO, JP
[72] SUZUKI, YUTA, JP
[71] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2022-05-30
[86] 2020-12-24 (PCT/JP2020/048441)
[87] (WO2021/132462)
[30] JP (2019-236918) 2019-12-26

PCT Applications Entering the National Phase

[21] **3,163,266**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/77 (2006.01) C12P 13/06 (2006.01) C12P 13/08 (2006.01) C12P 13/12 (2006.01)**

[25] EN

[54] **NOVEL MODIFIED POLYPEPTIDE WITH ATTENUATED ACTIVITY OF CITRATE SYNTHASE AND METHOD FOR PRODUCING L-AMINO ACID USING THE SAME**

[54] **NOUVEAU POLYPEPTIDE MUTANT A ACTIVITE ATTENUEE DE CITRATE SYNTHASE ET PROCEDE DE PRODUCTION DE L-ACIDE AMINE L'UTILISANT**

[72] AHN, CHAN HONG, KR
[72] KIM, JU EUN, KR
[72] BAE, HYUN-JUNG, KR
[72] LEE, IMSANG, KR
[72] LEE, JI HYE, KR
[72] LEE, HAYUN, KR
[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2022-05-30
[86] 2020-08-04 (PCT/KR2020/010243)
[87] (WO2021/153866)
[30] KR (10-2020-0010823) 2020-01-30

[21] **3,163,312**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 9/16 (2006.01) A61K 31/00 (2006.01) A61K 47/14 (2017.01) A61K 47/24 (2006.01) A61K 47/36 (2006.01)**

[25] EN

[54] **FORMULATIONS COMPRISING A MINERAL AND/OR A VITAMIN AND A POLYSACCHARIDE, COMPOSITIONS THEREOF AND USE THEREOF IN SUPPLEMENTING SAID MINERAL AND/OR VITAMIN**

[54] **FORMULATIONS COMPRENANT UN MINERAL ET/OU UNE VITAMINE ET UN POLYSACCHARIDE, LEURS COMPOSITIONS ET LEUR UTILISATION POUR UNE SUPPLEMENTATION EN LEDIT MINERAL ET/OU LADITE VITAMINE**

[72] LACORTE, ANDREA, IT
[72] TARANTINO, GERMANO, IT
[72] BRILLI, ELISA, IT
[71] ALESCO S.R.L., IT

[85] 2022-05-30
[86] 2020-12-04 (PCT/IB2020/061521)
[87] (WO2021/111404)
[30] IT (102019000023016) 2019-12-04

[21] **3,163,313**
[13] A1

[51] **Int.Cl. C21D 8/00 (2006.01) C21D 8/02 (2006.01) C21D 8/04 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**

[25] EN

[54] **HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**

[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET PROCEDE DE FABRICATION DE CELLE-CI**

[72] SIEBENTRITT, MATTHIEU, FR
[72] LAMOUCHE, JULIEN, FR
[72] DE KNIJF, DORIEN, BE
[71] ARCELORMITTAL, LU

[85] 2022-05-30
[86] 2020-12-10 (PCT/IB2020/061765)
[87] (WO2021/116976)
[30] IB (PCT/IB2019/060741) 2019-12-13

[21] **3,163,314**
[13] A1

[51] **Int.Cl. B33Y 80/00 (2015.01) B22F 9/08 (2006.01) C22C 33/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/14 (2006.01)**

[25] EN

[54] **METAL POWDER FOR ADDITIVE MANUFACTURING**

[54] **POUDRE METALLIQUE POUR FABRICATION ADDITIVE**

[72] REMENTERIA FERNANDEZ, ROSALIA, ES
[72] BONNET, FREDERIC, FR
[72] CORRAL CORRALES, MARIA ELENA, ES
[72] OBERBILLIG, CARLA, FR
[71] ARCELORMITTAL, LU

[85] 2022-05-30
[86] 2020-12-14 (PCT/IB2020/061889)
[87] (WO2021/124069)
[30] IB (PCT/IB2019/061165) 2019-12-20

[21] **3,163,315**
[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01) G06F 1/02 (2006.01) H02M 1/00 (2007.10) H02M 7/5387 (2007.01)**

[25] EN

[54] **HIGH VOLTAGE, HIGH EFFICIENCY SINE WAVE GENERATOR THAT PREVENTS SPIKES DURING AMPLITUDE ADJUSTMENTS AND SWITCHING OF CHANNELS**

[54] **GENERATEUR D'ONDES SINUSOIDALES A HAUTE TENSION ET HAUTE EFFICACITE QUI EMPECHE LES AJUSTEMENTS D'AMPLITUDE ET LA COMMUTATION DE CANAUX**

[72] WASSERMAN, YORAM, IL
[71] NOVOCURE GMBH, CH

[85] 2022-05-30
[86] 2020-12-17 (PCT/IB2020/062147)
[87] (WO2021/137085)
[30] US (62/955,673) 2019-12-31
[30] US (62/981,875) 2020-02-26

Demandes PCT entrant en phase nationale

[21] **3,163,316**
[13] A1

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **ARRAYS FOR DELIVERING TUMOR TREATING FIELDS (TTFIELDS) WITH INDIVIDUALLY ACCESSIBLE ELECTRODE ELEMENTS AND TEMPERATURE SENSORS**

[54] **RESEAUX DESTINES A EMETTRE DES CHAMPS DE TRAITEMENT DE TUMEUR (CHAMPS TT) AU MOYEN D'ELEMENTS D'ELECTRODE ACCESSIBLES INDIVIDUELLEMENT ET DE CAPTEURS DE TEMPERATURE**

[72] WASSERMAN, YORAM, IL
[71] NOVOCURE GMBH, CH
[85] 2022-05-30
[86] 2020-12-21 (PCT/IB2020/062309)
[87] (WO2021/137094)
[30] US (62/955,664) 2019-12-31

[21] **3,163,318**
[13] A1

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND APPARATUSES FOR MANAGING TEMPERATURES INDUCED BY ALTERNATING FIELDS**

[54] **PROCEDES, SYSTEMES ET APPAREILS POUR GERER DES TEMPERATURES INDUITES PAR DES CHAMPS ALTERNATIFS**

[72] CARLSON, KRISTEN W., US
[72] BOMZON, ZEEV, IL
[71] NOVOCURE GMBH, CH
[85] 2022-05-30
[86] 2020-12-29 (PCT/IB2020/001142)
[87] (WO2021/136972)
[30] US (62/955,747) 2019-12-31
[30] US (17/118,056) 2020-12-10

[21] **3,163,321**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) A61P 25/18 (2006.01)**

[25] EN

[54] **METHODS FOR DOSE INITIATION OF ARIPIRAZOLE TREATMENTS**

[54] **PROCEDES D'INITIATION DE DOSE DE TRAITEMENTS D'ARIPIRAZOLE**

[72] HARLIN, MATTHEW, JP
[72] WANG, XIAOFENG, JP
[72] WANG, YANLIN, JP
[72] RAOUFINIA, ARASH, JP
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2022-05-27
[86] 2021-04-01 (PCT/JP2021/014194)
[87] (WO2021/201239)
[30] US (63/003,544) 2020-04-01

[21] **3,163,317**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) G16H 20/40 (2018.01) G16H 30/20 (2018.01) G16H 50/50 (2018.01) A61N 1/36 (2006.01) A61N 1/40 (2006.01) G06T 17/00 (2006.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61N 1/04 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND APPARATUSES FOR GUIDING TRANSDUCER PLACEMENTS FOR TUMOR TREATING FIELDS**

[54] **METHODES, SYSTEMES ET APPAREILS POUR GUIDER DES PLACEMENTS DE TRANSDUCTEUR POUR DES CHAMPS DE TRAITEMENT DE TUMEUR**

[72] SHAMIR, REUBEN RUBY, IL
[72] URMAN, NOA, IL
[72] BOMZON, ZEEV, IL
[72] PELES, OREN, IL
[71] NOVOCURE GMBH, CH
[85] 2022-05-30
[86] 2021-03-30 (PCT/IB2021/052594)
[87] (WO2021/198882)
[30] US (63/002,937) 2020-03-31
[30] US (63/056,262) 2020-07-24
[30] US (17/210,339) 2021-03-23

[21] **3,163,319**
[13] A1

[51] **Int.Cl. C12Q 1/6804 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6813 (2018.01)**

[25] EN

[54] **PAN-CANCER PLATINUM RESPONSE PREDICTOR**

[54] **PREDICTEUR DE REPONSE AU PLATINE DANS UNE APPROCHE PAN-CANCER**

[72] ABRAHAM, JIM, US
[72] KORN, WOLFGANG MICHAEL, US
[72] SPETZLER, DAVID, US
[71] CARIS MPI, INC., US
[85] 2022-05-30
[86] 2020-06-03 (PCT/US2020/035990)
[87] (WO2021/112918)
[30] US (PCT/US2019/064078) 2019-12-02
[30] US (62/965,601) 2020-01-24
[30] US (63/005,105) 2020-04-03
[30] US (63/012,740) 2020-04-20

[21] **3,163,322**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 47/54 (2017.01) C12N 15/63 (2006.01)**

[25] EN

[54] **RNAI CONSTRUCTS AND METHODS FOR INHIBITING LPA EXPRESSION**

[54] **CONSTRUCTIONS D'ARNI ET PROCEDES D'INHIBITION DE L'EXPRESSION DE LPA**

[72] WU, BIN, US
[72] OLLMANN, MICHAEL, US
[72] HOMANN, OLIVER, US
[72] CHENG, YUAN, US
[71] AMGEN INC., US
[85] 2022-05-27
[86] 2020-12-08 (PCT/US2020/063844)
[87] (WO2021/119034)
[30] US (62/945,777) 2019-12-09

PCT Applications Entering the National Phase

[21] **3,163,323**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/02 (2012.01) G06Q 20/40 (2012.01) G06Q 40/04 (2012.01)**

[25] EN

[54] **ELECTRONIC TRADING AND SETTLEMENT SYSTEM FOR BLOCKCHAIN-INTEGRATED CRYPTOGRAPHIC DIFFICULTY-BASED FINANCIAL INSTRUMENTS**

[54] **SYSTEME DE NEGOCIATION ELECTRONIQUE ET DE REGLEMENT POUR INSTRUMENTS FINANCIERS BASES SUR LA DIFFICULTE CRYPTOGRAPHIQUE INTEGRES PAR CHAINE DE BLOCS**

[72] TRUDEAU, MATTHEW, US

[72] MCGLAWN, JOSEPH, US

[72] CHIPPAS, THOMAS, US

[71] ERIS DIGITAL HOLDINGS, LLC, US

[85] 2022-05-27

[86] 2020-12-09 (PCT/US2020/064130)

[87] (WO2021/119210)

[30] US (62/945,505) 2019-12-09

[21] **3,163,324**
[13] A1

[51] **Int.Cl. A61C 5/40 (2017.01) A61B 34/10 (2016.01) A61C 1/08 (2006.01) A61C 9/00 (2006.01)**

[25] EN

[54] **CUSTOM ENDODONTIC DRILL GUIDE AND METHOD, SYSTEM, AND COMPUTER READABLE STORAGE MEDIA FOR PRODUCING A CUSTOM ENDODONTIC DRILL GUIDE**

[54] **GUIDE DE FORET D'ENDODONTIE PERSONNALISE ET PROCEDE, SYSTEME ET SUPPORT DE STOCKAGE LISIBLE PAR ORDINATEUR POUR PRODUIRE UN GUIDE DE FORET D'ENDODONTIE PERSONNALISE**

[72] SHOTTON, VINCENT, US

[72] WILKINSON, KEVIN, US

[71] DENTSPLY SIRONA INC., US

[85] 2022-05-27

[86] 2020-12-17 (PCT/US2020/065466)

[87] (WO2021/127083)

[30] US (62/948,916) 2019-12-17

[21] **3,163,325**
[13] A1

[51] **Int.Cl. E21B 47/13 (2012.01) E21B 41/00 (2006.01) H01L 41/12 (2006.01) H02N 2/18 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ACTUATING DOWNHOLE DEVICES AND ENABLING DRILLING WORKFLOWS FROM THE SURFACE**

[54] **SYSTEMES ET PROCEDES POUR ACTIONNER DES DISPOSITIFS DE FOND DE TROU ET PERMETTRE DES FLUX DE TRAVAUX DE FORAGE A PARTIR DE LA SURFACE**

[72] GOONERATNE, CHINTHAKA PASAN, SA

[72] RAMASAMY, JOTHIBASU, SA

[72] LI, BODONG, SA

[72] AL-BADRAN, MOHAMMAD SAUD, SA

[72] MOELLENDICK, TIMOTHY ERIC, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2022-05-29

[86] 2020-12-17 (PCT/US2020/065736)

[87] (WO2021/127264)

[30] US (16/720,159) 2019-12-19

[21] **3,163,326**
[13] A1

[51] **Int.Cl. A47L 15/44 (2006.01) D06F 39/02 (2006.01) D06F 39/08 (2006.01)**

[25] EN

[54] **SOLID DETERGENT DISPENSER FOR A WASHING MACHINE**

[54] **DISTRIBUTEUR DE DETERGENT SOLIDE POUR UNE MACHINE A LAVER**

[72] JAIRAM, RAHUL BHARATH, US

[72] ANDERSON, DANIEL DAVIS, US

[72] LUNDBERG, STEVEN JAMES, US

[72] LAVENTURE, THOMAS DAVID, US

[72] YORK, MARVIN HARRIS, US

[72] KREMER, MICHAEL PATRICK, US

[71] ECOLAB USA INC., US

[85] 2022-05-27

[86] 2020-12-22 (PCT/US2020/066687)

[87] (WO2021/133834)

[30] US (62/952,844) 2019-12-23

[21] **3,163,327**
[13] A1

[51] **Int.Cl. C02F 3/30 (2006.01) C02F 3/00 (2006.01)**

[25] EN

[54] **BIOREACTOR SYSTEM AND METHOD FOR NITRIFICATION AND DENITRIFICATION**

[54] **SYSTEME DE BIOREACTEUR ET PROCEDE DE NITRIFICATION ET DE DENITRIFICATION**

[72] RUSSO, FRANK M., US

[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US

[85] 2022-05-27

[86] 2021-01-05 (PCT/US2021/012145)

[87] (WO2021/141877)

[30] US (62/957,555) 2020-01-06

[30] US (63/107,686) 2020-10-30

[21] **3,163,328**
[13] A1

[51] **Int.Cl. B65D 71/50 (2006.01) C08L 23/04 (2006.01) C08L 23/06 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **POLYOLEFIN ELASTOMER IN MULTI-PACKAGING CARRIER ELASTOMERE POLYOLEFINIQUE DANS UN SUPPORT D'EMBALLAGE MULTIPLE**

[72] SAMARAS, CHRISTOPHER J., US

[72] SLOVIK, RACHELL L., US

[72] VAN THOLEN, PATRICK R., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2022-05-28

[86] 2021-01-08 (PCT/US2021/012610)

[87] (WO2021/146100)

[30] US (16/741,149) 2020-01-13

[30] US (63/052,868) 2020-07-16

[30] US (17/143,884) 2021-01-07

Demandes PCT entrant en phase nationale

[21] **3,163,329**
[13] A1

[51] **Int.Cl. F24F 11/50 (2018.01) F24F 11/58 (2018.01) G08B 17/10 (2006.01) G08B 21/14 (2006.01)**

[25] EN

[54] **DEVICES FOR USE IN AN INDOOR AIR QUALITY SYSTEM**

[54] **DISPOSITIFS DESTINES A ETRE UTILISES DANS UN SYSTEME DE QUALITE D'AIR INTERIEUR**

[72] SINUR, RICHARD R., US

[72] ANDERSON, KYLE, US

[72] YINGST, JEREMY, US

[72] THERIAULT, ERIC, US

[72] ARES, LOIC, US

[72] ASMUS, JASON, US

[72] ROUGAB, SEDDIK, US

[71] BROAN-NUTONE LLC, US

[85] 2022-05-27

[86] 2021-01-08 (PCT/US2021/012661)

[87] (WO2021/146106)

[30] US (62/962,710) 2020-01-17

[21] **3,163,330**
[13] A1

[51] **Int.Cl. G01R 31/50 (2020.01) G01R 31/52 (2020.01) G01R 31/62 (2020.01) G01R 31/72 (2020.01) H02H 3/32 (2006.01) H02H 7/04 (2006.01)**

[25] EN

[54] **TRANSFORMER FAULT DETECTION SYSTEM**

[54] **SYSTEME DE DETECTION DE DEFAILLANCE DE TRANSFORMATEUR**

[72] MAUNEY, MARSHALL, US

[71] S&C ELECTRIC COMPANY, US

[85] 2022-05-27

[86] 2021-01-14 (PCT/US2021/013349)

[87] (WO2021/146365)

[30] US (62/961,008) 2020-01-14

[21] **3,163,331**
[13] A1

[51] **Int.Cl. G01N 11/00 (2006.01) G01N 11/08 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR MONITORING MACHINE FLUIDS**

[54] **PROCEDES ET DISPOSITIFS DE SURVEILLANCE DE LIQUIDES DE MACHINE**

[72] GILLETTE, WILLIAM J., US

[72] DIRKS, KEITH, US

[71] LOGILUBE, LLC, US

[85] 2022-05-27

[86] 2021-01-27 (PCT/US2021/015342)

[87] (WO2021/154896)

[30] US (62/966,484) 2020-01-27

[21] **3,163,332**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06N 20/20 (2019.01) G06F 11/34 (2006.01) G06N 3/04 (2006.01) G06Q 10/00 (2012.01)**

[25] EN

[54] **ACCOUNT PREDICTION USING MACHINE LEARNING**

[54] **PREDICTION DE COMPTE A L'AIDE D'UN APPRENTISSAGE AUTOMATIQUE**

[72] TUO, SHANSHAN, US

[72] YUCHEN, NEO, US

[72] BEERAM, DIVYA, US

[72] VRZHESHCH, VALENTIN, US

[72] TAL, TOMER, US

[72] HO, NGOC NHUNG, US

[71] INTUIT INC., US

[85] 2022-05-27

[86] 2021-05-13 (PCT/US2021/032158)

[87] (WO2022/015405)

[30] US (16/927,655) 2020-07-13

[21] **3,163,333**
[13] A1

[51] **Int.Cl. H04N 19/103 (2014.01) H04N 19/119 (2014.01) H04N 19/132 (2014.01) H04N 19/174 (2014.01) H04N 19/176 (2014.01) H04N 19/423 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **SLICE AND TILE CONFIGURATION FOR IMAGE/VIDEO CODING**

[54] **CONFIGURATION DE TRANCHE ET DE TUILE POUR CODAGE D'IMAGE/DE VIDEO**

[72] HENDRY, HENDRY, KR

[72] PALURI, SEETHAL, KR

[72] KIM, SEUNGHWAN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-05-27

[86] 2020-11-26 (PCT/KR2020/016883)

[87] (WO2021/107621)

[30] US (62/941,846) 2019-11-28

[21] **3,163,334**
[13] A1

[51] **Int.Cl. G06F 12/02 (2006.01)**

[25] EN

[54] **INTEGRATED REFERENCE AND SECONDARY MARKING**

[54] **REFERENCE INTEGREE ET MARQUAGE SECONDAIRE**

[72] STEPHENS, MAONI ZHANG, US

[72] DUSSUD, PATRICK HENRI, US

[71] MICROSOFT TECHNOLOGY LICENSING, LLC, US

[85] 2022-05-30

[86] 2020-11-13 (PCT/US2020/060320)

[87] (WO2021/126429)

[30] US (16/724,143) 2019-12-20

[21] **3,163,335**
[13] A1

[51] **Int.Cl. A47B 47/04 (2006.01) A47B 96/20 (2006.01) F16B 12/12 (2006.01) F16B 12/24 (2006.01) F16B 12/26 (2006.01) F16B 12/44 (2006.01) F16B 12/46 (2006.01)**

[25] EN

[54] **SET OF PANELS WITH A MECHANICAL LOCKING DEVICE**

[54] **ENSEMBLE DE PANNEAUX DOTES D'UN DISPOSITIF DE VERROUILLAGE MECANIQUE**

[72] DERELOV, PETER, SE

[71] VALINGE INNOVATION AB, SE

[85] 2022-05-30

[86] 2020-12-18 (PCT/SE2020/051239)

[87] (WO2021/126070)

[30] SE (1951508-9) 2019-12-19

PCT Applications Entering the National Phase

[21] **3,163,336**
[13] A1

[51] **Int.Cl. A61M 39/02 (2006.01) A61J 1/14 (2006.01) A61M 39/04 (2006.01) A61M 39/10 (2006.01) A61M 39/20 (2006.01) B29C 45/17 (2006.01)**

[25] EN

[54] **AN INJECTION PORT FOR CONNECTING WITH A MEDICAL FLUID CONTAINER AND METHODS FOR THE PRODUCTION OF SAME**

[54] **ORIFICE D'INJECTION DESTINE AU RACCORDEMENT A UN RECIPIENT DE FLUIDE MEDICAL ET SES PROCEDES DE PRODUCTION**

[72] KEHNE, TERRY B., US
[72] KING, DONALD L., JR., US
[71] FRESenius MEDICAL CARE HOLDINGS, INC., US

[85] 2022-05-30
[86] 2020-12-02 (PCT/US2020/062760)
[87] (WO2021/118832)
[30] US (62/946,987) 2019-12-12

[21] **3,163,337**
[13] A1

[51] **Int.Cl. A61K 31/70 (2006.01) A61K 31/7048 (2006.01) C07H 17/08 (2006.01)**

[25] EN

[54] **SALTS AND POLYMORPHS OF CETHROMYCIN FOR THE TREATMENT OF DISEASE SALTS AND POLYMORPHS OF CETHROMYCIN**

[54] **SELS ET POLYMORPHES DE CETHROMYCINE POUR LE TRAITEMENT DE SELS ET DE POLYMORPHES DE CETHROMYCINE**

[72] SULLIVAN, DAVID, US
[72] HILL, AMANDA, US
[72] WITTERING, KATE, US
[72] TAPPER, AMY, US
[72] KALUDOV, NIKOLA, US
[71] ALIQUANTUMRX, INC., US

[85] 2022-05-30
[86] 2020-12-02 (PCT/US2020/062882)
[87] (WO2021/113357)
[30] US (62/942,508) 2019-12-02

[21] **3,163,338**
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 31/4184 (2006.01) A61K 31/4192 (2006.01)**

[25] EN

[54] **INHIBITORS OF HIF-2ALPHA**

[54] **INHIBITEURS DE HIF-2 ALPHA**

[72] BEATTY, JOEL WORLEY, US
[72] DREW, SAMUEL LAWRIE, US
[72] FOURNIER, JEREMY THOMAS ANDRE, US
[72] GUNEY, TEZCAN, US
[72] JACOB, STEVEN DONALD, US
[72] LAWSON, KENNETH VICTOR, US
[72] LELETI, MANMOHAN REDDY, US
[72] LINDSEY, ERICK ALLEN, US
[72] MANDAL, DEBASHIS, US
[72] MATA, GUILLAUME, US
[72] POWERS, JAY PATRICK, US
[72] ROSEN, BRANDON REID, US
[72] SU, YONGLI, US
[72] TRAN, ANH THU, US
[72] YAN, XUELEI, US
[71] ARCUS BIOSCIENCES, INC., US

[85] 2022-05-30
[86] 2020-12-03 (PCT/US2020/063000)
[87] (WO2021/113436)
[30] US (62/943,632) 2019-12-04

[21] **3,163,339**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 21/00 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR ACTIVATION OF INTEGRINS**

[54] **COMPOSITIONS ET METHODES POUR L'ACTIVATION D'INTEGRINES**

[72] ANDRE, PATRICK, US
[72] CHEN, CHUN, US
[72] TURNER, SCOTT, US
[71] PLIANT THERAPEUTICS, INC., US

[85] 2022-05-12
[86] 2020-11-13 (PCT/US2020/060574)
[87] (WO2021/097338)
[30] US (62/935,732) 2019-11-15
[30] US (63/009,020) 2020-04-13
[30] US (63/029,070) 2020-05-22

[21] **3,163,340**
[13] A1

[51] **Int.Cl. C08L 63/00 (2006.01) B29C 70/06 (2006.01) C08J 5/10 (2006.01)**

[25] EN

[54] **CURABLE RESIN COMPOSITIONS CONTAINING AN ALIPHATIC POLYKETONE TOUGHENER AND COMPOSITES MADE THEREFROM**

[54] **COMPOSITIONS DE RESINE DURCISSABLE CONTENANT UN DURCISSEUR DE POLYKETONE ALIPHATIQUE ET COMPOSITES FABRIQUES A PARTIR DE CELLES-CI**

[72] WACKER, KEVIN, US
[72] LE, DONG, US
[72] KINCAID, DEREK, US
[71] HUNTSMAN ADVANCED MATERIALS AMERICAS LLC, US

[85] 2022-05-30
[86] 2020-12-04 (PCT/US2020/063265)
[87] (WO2021/118875)
[30] US (62/946,085) 2019-12-10

[21] **3,163,342**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/60 (2006.01) A61K 31/616 (2006.01)**

[25] EN

[54] **ACYLATED ACTIVE AGENTS AND METHODS OF THEIR USE FOR THE TREATMENT OF METABOLIC DISORDERS AND NONALCOHOLIC FATTY LIVER DISEASE**

[54] **AGENTS ACTIFS ACYLES ET LEURS PROCEDES D'UTILISATION POUR LE TRAITEMENT DE TROUBLES METABOLIQUES ET D'UNE STEATOSE HEPATIQUE NON ALCOOLIQUE**

[72] CASEY, JOHN PATRICK JR., US
[72] BERRY, DAVID ARTHUR, US
[72] BRIGGS, TIMOTHY F., US
[72] BUCKBINDER, LEONARD, US
[72] KIM, MI-JEONG, US
[72] LIANG, ANNA, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US

[85] 2022-05-30
[86] 2020-12-04 (PCT/US2020/063281)
[87] (WO2021/113620)
[30] US (62/944,282) 2019-12-05
[30] US (63/074,785) 2020-09-04

Demandes PCT entrant en phase nationale

[21] **3,163,343**
[13] A1

[51] **Int.Cl. A47C 21/04 (2006.01) A47C 27/08 (2006.01) A47C 27/12 (2006.01) A47C 27/14 (2006.01)**

[25] EN

[54] **MATTRESS ASSEMBLIES INCLUDING AT LEAST ONE ENCAPSULATED PANEL INCLUDING A HEAT ABSORBING MATERIAL**

[54] **ENSEMBLES MATELAS COMPRENANT AU MOINS UN PANNEAU ENCAPSULE COMPRENANT UN MATERIAU ABSORBANT LA CHALEUR**

[72] CHUNGLO, CHRISTOPHER F., US
[71] DREAMWELL, LTD., US
[85] 2022-05-30
[86] 2021-01-14 (PCT/US2021/013344)
[87] (WO2021/146362)
[30] US (16/741,888) 2020-01-14

[21] **3,163,344**
[13] A1

[51] **Int.Cl. E21B 33/128 (2006.01) E21B 23/04 (2006.01) E21B 23/06 (2006.01)**

[25] EN

[54] **HIGH PERFORMANCE REGULAR AND HIGH EXPANSION ELEMENTS FOR OIL AND GAS APPLICATIONS**

[54] **ELEMENTS A HAUTE PERFORMANCE ET A HAUTE DILATATION POUR DES APPLICATIONS PETROLIERES ET GAZIERES**

[72] ZHONG, XIAO GUANG ALLAN, US
[72] PHAN, ANTHONY, US
[72] GLAESMAN, CHAD WILLIAM, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-05-30
[86] 2021-01-20 (PCT/US2021/014087)
[87] (WO2021/150547)
[30] US (62/965,539) 2020-01-24
[30] US (17/152,887) 2021-01-20

[21] **3,163,345**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/70 (2006.01) C12P 19/34 (2006.01)**

[25] EN

[54] **NUCLEIC ACID COMPOSITIONS**

[54] **COMPOSITIONS D'ACIDES NUCLEIQUES**

[72] ABSHIRE, JAMES ROBBINS, US
[72] DHAMANKAR, HIMANSHU, US
[72] FARMER, WILLIAM, US
[72] GREGG, CHRISTOPHER, US
[71] GREENLIGHT BIOSCIENCES, INC., US
[85] 2022-05-30
[86] 2020-12-04 (PCT/US2020/063490)
[87] (WO2021/113774)
[30] US (62/944,824) 2019-12-06

[21] **3,163,346**
[13] A1

[51] **Int.Cl. C22C 21/06 (2006.01) C22C 21/10 (2006.01) C22F 1/047 (2006.01) C22F 1/053 (2006.01)**

[25] EN

[54] **SUPPRESSION OF STRESS CORROSION CRACKING IN HIGH MAGNESIUM ALLOYS THROUGH THE ADDITION OF CALCIUM**

[54] **SUPPRESSION DE LA FISSURATION PAR CORROSION SOUS CONTRAINTE DANS DES ALLIAGES A HAUTE TENEUR EN MAGNESIUM PAR L'ADDITION DE CALCIUM**

[72] WAGSTAFF, SAMUEL ROBERT, US
[72] WAGSTAFF, ROBERT BRUCE, US
[71] NOVELIS INC., US
[85] 2022-05-30
[86] 2020-12-10 (PCT/US2020/064283)
[87] (WO2021/126665)
[30] US (62/949,286) 2019-12-17

[21] **3,163,347**
[13] A1

[51] **Int.Cl. C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22F 1/057 (2006.01)**

[25] FR

[54] **ALUMINUM-COPPER-LITHIUM ALLOY THIN SHEETS WITH IMPROVED TOUGHNESS, AND PROCESS FOR MANUFACTURING AN ALUMINUM-COPPER-LITHIUM ALLOY THIN SHEET**

[54] **TOLES MINCES EN ALLIAGE D'ALUMINIUM-CUIVRE-LITHIUM A TENACITE AMELIORE ET PROCEDE DE FABRICATION D'UNE TOLE MINCE EN ALLIAGE D'ALUMINIUM-CUIVRE-LITHIUM**

[72] GODIN, HELENE, FR
[72] NIZERY, EREMBERT, FR
[71] CONSTELLIUM ISSOIRE, FR
[85] 2022-05-30
[86] 2020-11-30 (PCT/FR2020/052226)
[87] (WO2021/111069)
[30] FR (1913889) 2019-12-06

[21] **3,163,348**
[13] A1

[51] **Int.Cl. E21B 23/08 (2006.01) E21B 47/06 (2012.01)**

[25] EN

[54] **SPECTRAL ANALYSIS AND MACHINE LEARNING OF ACOUSTIC SIGNATURE OF WIRELINE STICKING**

[54] **ANALYSE SPECTRALE ET APPRENTISSAGE AUTOMATIQUE D'UNE SIGNATURE ACOUSTIQUE DE COLLAGE DE CABLE METALLIQUE**

[72] THOMPSON, REID DANIEL, US
[72] ROSE, JEFFREY NEAL, US
[72] ROSE, JONATHAN SWANSON, US
[71] ORIGIN ROSE LLC, US
[85] 2022-05-30
[86] 2020-12-10 (PCT/US2020/064303)
[87] (WO2021/119306)
[30] US (62/945,929) 2019-12-10
[30] US (62/945,949) 2019-12-10
[30] US (62/945,953) 2019-12-10
[30] US (62/945,957) 2019-12-10
[30] US (63/058,534) 2020-07-30
[30] US (63/058,548) 2020-07-30

PCT Applications Entering the National Phase

[21] **3,163,349**
[13] A1

[51] **Int.Cl. E21B 47/00 (2012.01) E21B 43/26 (2006.01) E21B 47/14 (2006.01) G01V 1/40 (2006.01) G01V 1/52 (2006.01)**

[25] EN

[54] **SPECTRAL ANALYSIS AND MACHINE LEARNING FOR DETERMINING CLUSTER EFFICIENCY DURING FRACKING OPERATIONS**

[54] **ANALYSE SPECTRALE ET APPRENTISSAGE AUTOMATIQUE POUR DETERMINER L'EFFICACITE DE GRAPPE PENDANT DES OPERATIONS DE FRACTURATION**

[72] THOMPSON, REID DANIEL, US
[72] ROSE, JEFFREY NEAL, US
[72] ROSE, JONATHAN SWANSON, US
[71] ORIGIN ROSE LLC, US
[85] 2022-05-30
[86] 2020-12-10 (PCT/US2020/064327)
[87] (WO2021/119324)
[30] US (62/945,929) 2019-12-10
[30] US (62/945,949) 2019-12-10
[30] US (62/945,953) 2019-12-10
[30] US (62/945,957) 2019-12-10
[30] US (63/058,534) 2020-07-30
[30] US (63/058,548) 2020-07-30

[21] **3,163,350**
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/44 (2006.01) A61Q 11/00 (2006.01) A61Q 17/00 (2006.01)**

[25] EN

[54] **ORAL CARE PRODUCT AND METHODS OF USE AND MANUFACTURE THEREOF**

[54] **PRODUIT DE SOIN BUCCAL ET PROCEDES D'UTILISATION ET DE FABRICATION DE CELUI-CI**

[72] LAVENDER, STACEY, US
[72] RINAUDI MARRON, LUCIANA, US
[72] XU, YUN, US
[72] LASKOWSKI, ERIN, US
[72] PILCH, SHIRA, US
[72] SCULLOS, ZOE, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2022-05-30
[86] 2020-12-04 (PCT/US2020/070858)
[87] (WO2021/113871)
[30] US (62/944,696) 2019-12-06

[21] **3,163,351**
[13] A1

[51] **Int.Cl. B61L 23/00 (2006.01) B61L 3/00 (2006.01)**

[25] EN

[54] **RAILWAY MANAGEMENT SYSTEM WITH BRAKE CALCULATION AND RELATED METHOD**

[54] **SYSTEME DE GESTION FERROVIAIRE A CALCUL DE FREINAGE ET PROCEDE ASSOCIE**

[72] VERELLEN, JENNIFER, CA
[72] MIRZA, MUSTAFA, CA
[72] WON, HERMAN, CA
[72] GENKIN, CINDY, CA
[72] MARKEWITZ, GRANT, CA
[72] GIRON, GINA, CA
[71] WSP GLOBAL INC., CA
[85] 2022-05-31
[86] 2020-12-02 (PCT/CA2020/051651)
[87] (WO2021/108905)
[30] US (62/942,374) 2019-12-02
[30] US (62/942,395) 2019-12-02
[30] US (62/942,413) 2019-12-02

[21] **3,163,353**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **CONTROLLED STRAND-DISPLACEMENT FOR PAIRED-END SEQUENCING**

[54] **DEPLACEMENT DE BRIN CONTROLE POUR SEQUENCAGE D'EXTREMITES APPARIEES**

[72] DRMANAC, RADOJE, US
[72] CALLOW, MATTHEW J., US
[71] MGI TECH CO., LTD., CN
[85] 2022-05-31
[86] 2020-12-23 (PCT/CN2020/000311)
[87] (WO2021/128441)
[30] US (62/952,713) 2019-12-23

[21] **3,163,355**
[13] A1

[51] **Int.Cl. A01G 7/04 (2006.01)**

[25] EN

[54] **AGRICULTURAL SUNLIGHT TRANSMISSION LIGHTING SYSTEM, SUPPORTING GREENHOUSE AND LIGHTING METHOD**

[54] **SYSTEME AGRICOLE D'ECLAIRAGE PAR TRANSMISSION DE LUMIERE SOLAIRE, SERRE DE SUPPORT ET PROCEDE D'ECLAIRAGE DE SUPPORT**

[72] YUAN, TINGSHAN, CN
[71] YUAN, TINGSHAN, CN
[85] 2022-05-31
[86] 2020-11-16 (PCT/CN2020/128918)
[87] (WO2021/109842)
[30] CN (201911209799.4) 2019-12-01

[21] **3,163,356**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 31/20 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **INTERFERON-ASSOCIATED ANTIGEN BINDING PROTEINS FOR USE IN TREATING HEPATITIS B INFECTION**

[54] **PROTEINES DE LIAISON A L'ANTIGENE ASSOCIEES A L'INTERFERON, DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT D'INFECTION PAR LE VIRUS DE L'HEPATITE B**

[72] ALAM, ANTOINE, FR
[71] EVOTEC INTERNATIONAL GMBH, DE
[71] SANOFI, FR
[85] 2022-05-31
[86] 2020-11-27 (PCT/EP2020/083737)
[87] (WO2021/110561)
[30] EP (19306551.3) 2019-12-03
[30] EP (19306572.9) 2019-12-04

Demandes PCT entrant en phase nationale

[21] **3,163,357**
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01) H04W 48/16 (2009.01) H04W 52/02 (2009.01)**

[25] EN

[54] **TERMINAL DEVICE AND COMMUNICATION METHOD**

[54] **DISPOSITIF TERMINAL ET PROCEDE DE COMMUNICATION**

[72] LUO, QIAO, CN
[72] YUAN, KAI, CN
[72] ZHAO, LIANYI, CN
[72] HE, YANZHAO, CN
[72] MA, HONGYANG, CN
[72] WANG, XIAOYAN, CN
[72] WANG, DING, CN
[71] HONOR DEVICE CO., LTD., CN
[85] 2022-05-31
[86] 2020-11-16 (PCT/CN2020/128944)
[87] (WO2021/115030)
[30] CN (201911259929.5) 2019-12-10

[21] **3,163,358**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 31/20 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **INTERFERON-ASSOCIATED ANTIGEN BINDING PROTEINS AND USES THEREOF**

[54] **PROTEINES DE LIAISON A L'ANTIGENE ASSOCIEES A L'INTERFERON ET LEURS UTILISATIONS**

[72] ALAM, ANTOINE, FR
[71] EVOTEC INTERNATIONAL GMBH, DE
[71] SANOFI, FR
[85] 2022-05-31
[86] 2020-11-27 (PCT/EP2020/083745)
[87] (WO2021/110562)
[30] EP (19306552.1) 2019-12-03
[30] EP (19306573.7) 2019-12-04

[21] **3,163,359**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **FUSION OF SITE-SPECIFIC RECOMBINASES FOR EFFICIENT AND SPECIFIC GENOME EDITING**

[54] **FUSION DE RECOMBINASES SPECIFIQUES A UN SITE POUR UNE EDITION DE GENOME EFFICACE ET SPECIFIQUE**

[72] BUCHHOLZ, FRANK, DE
[72] LANSING, FELIX, DE
[72] KARPINSKI, JANET, DE
[72] ROJO ROMANOS, TERESA, DE
[72] SONNTAG, JAN, DE
[72] MUKHAMETZYANOVA, LILIYA, DE
[71] TECHNISCHE UNIVERSITAT DRESDEN, DE
[85] 2022-05-31
[86] 2020-12-03 (PCT/EP2020/084489)
[87] (WO2021/110846)
[30] EP (19214152.1) 2019-12-06

[21] **3,163,360**
[13] A1

[51] **Int.Cl. A61F 13/02 (2006.01)**

[25] EN

[54] **DOUBLE COATING FOR WOUND DRESSINGS**

[54] **DOUBLE REVETEMENT POUR PANSEMENTS**

[72] JOHANNISON, ULF, SE
[72] SODERSTROM, BENGT, SE
[72] GERGELY, ANNBRITT, SE
[72] HALLDIN, KRISTINA, SE
[71] MOLNLYCKE HEALTH CARE AB, SE
[85] 2022-05-31
[86] 2020-12-16 (PCT/EP2020/086387)
[87] (WO2021/122720)
[30] EP (19218022.2) 2019-12-19

[21] **3,163,363**
[13] A1

[51] **Int.Cl. G06F 30/20 (2020.01) G06F 30/17 (2020.01)**

[25] EN

[54] **METHOD FOR DESIGNING WIDTH OF ISOLATION COAL PILLAR AND GASIFIER IN UNDERGROUND GASIFICATION UNDER AQUIFER FACING OVERLYING STRATA**

[54] **PROCEDE DE CONCEPTION DE LA LARGEUR D'UN PILIER DE CHARBON D'ISOLATION ET D'UN GAZEIFIEUR DANS UNE GAZEIFICATION SOUTERRAINE SOUS UN AQUIFERE FAISANT FACE A DES STRATES DE SUPERPOSITION**

[72] LI, HUAIZHAN, CN
[72] GUO, GUANGLI, CN
[72] ZHA, JIANFENG, CN
[72] XU, YOUYOU, CN
[72] LIU, XIAOPENG, CN
[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[85] 2022-05-31
[86] 2020-11-27 (PCT/CN2020/132020)
[87] (WO2021/109922)
[30] CN (201911220977.3) 2019-12-03

[21] **3,163,365**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 401/06 (2006.01)**

[25] EN

[54] **BTK INHIBITORS**

[54] **INHIBITEURS DE BTK**

[72] ZHOU, QUAN, CN
[72] SHEN, CHANGMAO, CN
[72] CHEN, XIANG, CN
[72] LIU, WENGENG, CN
[72] WANG, RUMIN, CN
[72] ZENG, QINGBEI, CN
[72] TSUI, HONCHUNG, CN
[72] YANG, ZHENFAN, CN
[72] ZHANG, XIAOLIN, CN
[71] DIZAL (JIANGSU) PHARMACEUTICAL CO., LTD., CN
[85] 2022-05-31
[86] 2020-12-29 (PCT/CN2020/140517)
[87] (WO2021/136219)
[30] CN (PCT/CN2020/070034) 2020-01-02
[30] CN (PCT/CN2020/134601) 2020-12-08

PCT Applications Entering the National Phase

[21] **3,163,369**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01)**
[25] EN
[54] **VARIANT CAS9**
[54] **VARIANT CAS9**
[72] WELKER, ERVIN, HU
[72] KULCSAR, PETER, HU
[72] TALAS, ANDRAS, HU
[72] TOTH, ESZTER, HU
[72] LIGETI, ZOLTAN, HU
[72] NYESTE, ANTAL, HU
[72] WELKER, ZSOMBOR, HU
[71] BIOSPIRAL-2006 FEJLESZTO ES TANACSADO KFT., HU
[85] 2022-05-31
[86] 2021-02-25 (PCT/HU2021/050015)
[87] (WO2021/171048)
[30] HU (HU/P2000068) 2020-02-25
[30] HU (HU/P2000072) 2020-02-26
[30] HU (HU/P2000083) 2020-03-06
[30] HU (PCT/HU2020/050063) 2020-12-23

[21] **3,163,374**
[13] A1

[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/058 (2006.01)**
[25] EN
[54] **ORTHOSIS FOR PLACEMENT ON A HUMAN HAND**
[54] **ORTHESE POUR PLACEMENT SUR UNE MAIN HUMAINE**
[72] SMAKMAN, PIETER, NL
[72] DOOLEY, ERIN RAE, NL
[72] JANSSEN, DAAN ISKANDER, NL
[72] HALM, MAX, NL
[71] MANOMETRIC HOLDING B.V., NL
[85] 2022-05-31
[86] 2020-12-19 (PCT/EP2020/087349)
[87] (WO2021/123401)
[30] EP (19218315.0) 2019-12-19

[21] **3,163,376**
[13] A1

[51] **Int.Cl. C21D 8/00 (2006.01) C21D 8/02 (2006.01) C21D 8/04 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**
[25] EN
[54] **HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET PROCEDE DE FABRICATION DE CELLE-CI**
[72] SIEBENTRITT, MATTHIEU, FR
[72] DE KNIJF, DORIEN, BE
[72] LAMOUCHE, JULIEN, FR
[71] ARCELORMITTAL, LU
[85] 2022-05-31
[86] 2019-12-13 (PCT/IB2019/060741)
[87] (WO2021/116740)

[21] **3,163,377**
[13] A1

[51] **Int.Cl. C23C 4/134 (2016.01) C23C 4/137 (2016.01) H05H 1/42 (2006.01)**
[25] EN
[54] **IMPROVED SHIELD FOR ATMOSPHERIC PRESSURE PLASMA JET COATING DEPOSITION ON A SUBSTRATE**
[54] **PROTECTION AMELIOREE POUR DEPOT DE REVETEMENT PAR JET DE PLASMA SOUS PRESSION ATMOSPHERIQUE SUR UN SUBSTRAT**
[72] SCHELTJENS, GILL, BE
[72] DONTEN, JOANNA, BE
[72] SCHONS, BERTRAND, FR
[72] HEYBERGER, REGIS, FR
[71] MOLECULAR PLASMA GROUP SA, LU
[85] 2022-05-31
[86] 2020-12-21 (PCT/EP2020/087400)
[87] (WO2021/123414)
[30] EP (19219095.7) 2019-12-20

[21] **3,163,378**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/50 (2006.01) A61K 31/00 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **DOSAGE FORM WITH SUSTAINED RELEASE MELATONIN PELLETS**
[54] **FORME POSOLOGIQUE A COMPRIMES DE MELATONINE A LIBERATION PROLONGEE**
[72] SHAH, SYED M., US
[72] HASSAN, DANIEL, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-05-31
[86] 2021-01-15 (PCT/EP2021/050770)
[87] (WO2021/144403)
[30] US (62/962,574) 2020-01-17

[21] **3,163,379**
[13] A1

[51] **Int.Cl. C08J 7/04 (2020.01) C08K 3/04 (2006.01) C08K 3/08 (2006.01) C08K 7/00 (2006.01) C08K 7/02 (2006.01) C08K 7/16 (2006.01) C08K 9/02 (2006.01)**
[25] EN
[54] **ELECTRICALLY CONDUCTIVE PASTE**
[54] **PATE ELECTRIQUEMENT CONDUCTRICE**
[72] SCHMIDT, STANISLAUS, DE
[72] SCHMIED, BENNO, DE
[72] SCHMALZEL, IVAN, DE
[72] SUTTER, MARCO, DE
[71] CARL FREUDENBERG KG, DE
[85] 2022-05-31
[86] 2021-03-04 (PCT/EP2021/055434)
[87] (WO2021/175976)
[30] DE (10 2020 106 131.5) 2020-03-06

Demandes PCT entrant en phase nationale

[21] **3,163,381**
[13] A1

[51] **Int.Cl. B23K 26/38 (2014.01) B23K 26/322 (2014.01) B23K 26/70 (2014.01) B23K 26/12 (2014.01) B23K 26/24 (2014.01) B32B 15/01 (2006.01)**

[25] EN

[54] **LASER CUTTING OF A PRE-COATED STEEL BLANK AND ASSOCIATED BLANK**

[54] **DECOUPE AU LASER D'UNE EBAUCHE D'ACIER PRE-REJETUE ET EBAUCHE ASSOCIEE**

[72] BERNARDI, QUENTIN, FR

[72] LUQUET, BERNARD, FR

[71] ARCELORMITTAL, LU

[85] 2022-05-31

[86] 2019-12-19 (PCT/IB2019/061122)

[87] (WO2021/123891)

[21] **3,163,383**
[13] A1

[51] **Int.Cl. E03B 7/07 (2006.01) E03B 7/02 (2006.01) F16K 31/46 (2006.01) F16K 37/00 (2006.01) F17D 5/00 (2006.01)**

[25] EN

[54] **FLUID FLOW CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE D'ECOULEMENT DE FLUIDE**

[72] AUBREY, PAUL, GB

[72] TALKES, ANDREW, GB

[71] SMARTVALVE LIMITED, GB

[85] 2022-05-31

[86] 2020-05-14 (PCT/GB2020/051183)

[87] (WO2020/229833)

[30] GB (1906785.9) 2019-05-14

[21] **3,163,384**
[13] A1

[51] **Int.Cl. A61F 13/15 (2006.01) A61F 13/02 (2006.01) A61F 13/53 (2006.01)**

[25] EN

[54] **ABSORBENT PADS FOR WOUND DRESSINGS**

[54] **TAMPONS ABSORBANTS POUR PANSEMENTS**

[72] JOHNSON, NEIL, GB

[72] HAYNES, JENNIFER, GB

[71] MEDTRADE PRODUCTS LIMITED, GB

[85] 2022-05-31

[86] 2020-12-04 (PCT/GB2020/053132)

[87] (WO2021/111151)

[30] GB (1917732.8) 2019-12-04

[21] **3,163,385**
[13] A1

[51] **Int.Cl. F16B 13/06 (2006.01) F16B 13/14 (2006.01)**

[25] EN

[54] **ANCHOR ASSEMBLY**

[54] **ENSEMBLE D'ANCRAGE**

[72] SMITH, LUKE, GB

[71] THREE SMITH GROUP LIMITED, GB

[85] 2022-05-31

[86] 2020-12-14 (PCT/GB2020/053208)

[87] (WO2021/123746)

[30] GB (1918546.1) 2019-12-16

[21] **3,163,391**
[13] A1

[51] **Int.Cl. G01J 3/46 (2006.01)**

[25] EN

[54] **COLORIMETRY SYSTEM FOR TRANSFORMATION FROM A NON-UNIFORM COLOR SPACE TO A SUBSTANTIALLY UNIFORM COLOR SPACE**

[54] **SYSTEME DE COLORIMETRIE POUR TRANSFORMATION D'UN ESPACE DE COULEUR NON UNIFORME A UN ESPACE DE COULEUR SENSIBLEMENT UNIFORME**

[72] FAIRMAN, HUGH S., US

[72] HACKL, JOACHIM, US

[72] TOMSIA, THOMAS P., US

[71] BENJAMIN MOORE & CO., US

[85] 2022-05-16

[86] 2020-11-19 (PCT/US2020/061232)

[87] (WO2021/113082)

[30] US (16/706,048) 2019-12-06

[21] **3,163,393**
[13] A1

[51] **Int.Cl. G01S 17/34 (2020.01) G01S 7/40 (2006.01) G01S 7/497 (2006.01) G01S 17/00 (2020.01) G01S 17/48 (2006.01) G01S 17/58 (2006.01)**

[25] FR

[54] **LIDAR SYSTEM CALIBRATION**

[54] **CALIBRATION D'UN SYSTEME LIDAR**

[72] MICHEL, DAVID TOMLINE, FR

[72] GUSTAVE, FRANCOIS, FR

[71] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR

[85] 2022-05-31

[86] 2020-12-07 (PCT/EP2020/084844)

[87] (WO2021/122093)

[30] FR (FR1915061) 2019-12-20

[21] **3,163,395**
[13] A1

[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) C22C 33/02 (2006.01)**

[25] EN

[54] **PROCESS FOR THE ADDITIVE MANUFACTURING OF MARAGING STEELS**

[54] **PROCEDE DE FABRICATION ADDITIVE D'ACIERS MARAGING**

[72] MARTINEZ, ANA, ES

[72] MOLI, LAURA, BE

[72] DEL RIO FERNANDEZ, LAURA, ES

[72] VAN STEENBERGE, NELE, BE

[72] DUPREZ, LODE, BE

[71] ARCELORMITTAL, LU

[85] 2022-05-31

[86] 2019-12-20 (PCT/IB2019/061158)

[87] (WO2021/123894)

[21] **3,163,400**
[13] A1

[51] **Int.Cl. H04N 19/103 (2014.01) H04N 19/174 (2014.01) H04N 19/176 (2014.01) H04N 19/423 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE/VIDEO CODING METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE CODAGE D'IMAGE/DE VIDEO**

[72] HENDRY, HENDRY, KR

[72] PALURI, SEETHAL, KR

[72] KIM, SEUNGHWAN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-05-27

[86] 2020-11-26 (PCT/KR2020/016884)

[87] (WO2021/107622)

[30] US (62/941,862) 2019-11-28

PCT Applications Entering the National Phase

[21] **3,163,401**
[13] A1

[51] **Int.Cl. H04N 19/119 (2014.01) H04N 19/136 (2014.01) H04N 19/174 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR SIGNALING PICTURE PARTITIONING INFORMATION**

[54] **PROCEDE ET APPAREIL DE SIGNALISATION D'INFORMATIONS DE PARTITIONNEMENT D'IMAGE**

[72] HENDRY, HENDRY, KR
[72] PALURI, SEETHAL, KR
[72] KIM, SEUNGHWAN, KR
[71] LG ELECTRONICS INC., KR
[85] 2022-05-27
[86] 2020-11-26 (PCT/KR2020/016944)
[87] (WO2021/107634)
[30] US (62/941,662) 2019-11-27

[21] **3,163,402**
[13] A1

[51] **Int.Cl. H04N 19/174 (2014.01) H04N 19/119 (2014.01) H04N 19/136 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **METHOD AND DEVICE FOR SIGNALING SLICE-RELATED INFORMATION**

[54] **PROCEDE ET DISPOSITIF DE SIGNALISATION D'INFORMATIONS RELATIVES A DES TRANCHES**

[72] HENDRY, HENDRY, KR
[72] PALURI, SEETHAL, KR
[72] KIM, SEUNGHWAN, KR
[71] LG ELECTRONICS INC., KR
[85] 2022-05-27
[86] 2020-11-26 (PCT/KR2020/016962)
[87] (WO2021/107638)
[30] US (62/941,666) 2019-11-27

[21] **3,163,403**
[13] A1

[51] **Int.Cl. C07C 319/14 (2006.01) C07C 321/14 (2006.01)**

[25] EN

[54] **IMPROVED PROCESS FOR PREPARING UNSYMMETRICAL DIALKYL SULFIDES**

[54] **PROCEDE AMELIORE DE PREPARATION DE SULFURES DE DIALKYLE ASYMETRIQUES**

[72] GROSSMANN, ANDRE, DE
[71] SALTIGO GMBH, DE
[85] 2022-05-25
[86] 2020-11-27 (PCT/EP2020/083655)
[87] (WO2021/105376)
[30] EP (19212191.1) 2019-11-28

[21] **3,163,405**
[13] A1

[51] **Int.Cl. G16B 10/00 (2019.01) G16B 20/20 (2019.01) G16B 20/30 (2019.01) G16B 30/10 (2019.01) G16B 40/20 (2019.01) G06N 3/08 (2006.01)**

[25] EN

[54] **ARTIFICIAL INTELLIGENCE-BASED CHROMOSOMAL ABNORMALITY DETECTION METHOD**

[54] **METHODE DE DETECTION D'ANOMALIES CHROMOSOMIQUES FAISANT APPEL A L'INTELLIGENCE ARTIFICIELLE**

[72] KI, CHANG-SEOK, KR
[72] CHO, EUN HAE, KR
[72] LEE, JUNNAM, KR
[72] LEE, TAE-RIM, KR
[72] AHN, JIN MO, KR
[71] GC GENOME CORPORATION, KR
[85] 2022-05-27
[86] 2020-11-27 (PCT/KR2020/017065)
[87] (WO2021/107676)
[30] KR (10-2019-0157257) 2019-11-29

[21] **3,163,416**
[13] A1

[51] **Int.Cl. B60K 1/04 (2019.01)**

[25] EN

[54] **REINFORCED CARRIER DEVICE FOR A BATTERY PACK AND PROCESS FOR THE ASSEMBLING OF A REINFORCED BATTERY PACK**

[54] **DISPOSITIF DE SUPPORT RENFORCE DESTINE A UN BLOC-BATTERIE ET PROCEDE D'ASSEMBLAGE D'UN BLOC-BATTERIE RENFORCE**

[72] SCHNEIDER, NICOLAS, FR
[71] ARCELORMITTAL, LU
[85] 2022-05-31
[86] 2019-12-24 (PCT/IB2019/061326)
[87] (WO2021/130522)

[21] **3,163,421**
[13] A1

[51] **Int.Cl. A61K 31/505 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED NUCLEOSIDE ANALOGS AS PRMT5 INHIBITORS**

[54] **ANALOGUES NUCLEOSIDIQUES SUBSTITUES EN TANT QU'INHIBITEURS DE PRMT5**

[72] NAIR, PRATHAP SREEDHARAN, IN
[72] GUDADE, GANESH BHAUSAHEB, IN
[72] BHAGWAT, SHANKAR BHASKAR, IN
[72] YADAV, AMOL MARUTI, IN
[72] KULKARNI, CHAITANYA PRABHAKAR, IN
[72] SINDKHEDKAR, MILIND DATTATRAYA, IN
[72] PALLE, VENKATA P., IN
[72] KAMBOJ, RAJENDER KUMAR, IN
[71] LUPIN LIMITED, IN
[85] 2022-05-31
[86] 2020-12-02 (PCT/IB2020/061372)
[87] (WO2021/111322)
[30] IN (201921049775) 2019-12-03

Demandes PCT entrant en phase nationale

[21] **3,163,422**
[13] A1

[51] **Int.Cl. B65D 55/02 (2006.01) B65D 47/08 (2006.01)**
[25] EN
[54] **TAMPER-PROOF CONTAINER**
[54] **RECIPIENT INVIOLE**
[72] ATHAY, BRADLEY ROBERT, CH
[72] BERNASCONI LECOULTRE, PAOLA, CH
[72] ROZWADOWSKA, MALGORZATA URSZULA, CH
[72] SABHERWAL, AMIT, IN
[71] GSK CONSUMER HEALTH S.A.R.L., CH
[85] 2022-05-31
[86] 2020-12-03 (PCT/IB2020/061456)
[87] (WO2021/111367)
[30] US (62/943,433) 2019-12-04

[21] **3,163,425**
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01)**
[25] EN
[54] **LUBRICATING OIL**
COMPOSITIONS COMPRISING A POLYALPHAOLEFIN
[54] **COMPOSITIONS D'HUILE LUBRIFIANTE COMPRENANT UNE POLYALPHAOLEFINE**
[72] HOGENDOORN, RICHARD, NL
[72] ZEVENBERGEN, KEVIN, NL
[71] CHEVRON ORONITE TECHNOLOGY B.V., NL
[85] 2022-05-31
[86] 2020-12-10 (PCT/IB2020/061727)
[87] (WO2021/124030)
[30] US (62/951,249) 2019-12-20

[21] **3,163,428**
[13] A1

[51] **Int.Cl. A61K 8/9728 (2017.01) A23L 31/00 (2016.01) A23L 33/10 (2016.01) A61K 8/73 (2006.01) A61Q 19/00 (2006.01) A61Q 19/08 (2006.01) C12N 1/14 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING THE TREMELLA FUCIFORMIS CULTURE MEDIUM EXTRACT**
[54] **COMPOSITION COMPRENANT UN EXTRAIT DE MILIEU DE CULTURE DE TREMELLA FUCIFORMIS**
[72] YEOM, HYUN SOOK, KR
[72] OH, WON BO, KR
[72] KIM, JI HYE, KR
[72] LEE, HYE JA, KR
[72] PARK, JIN OH, KR
[72] LEE, JI WON, KR
[72] KIM, CHUL HO, KR
[72] OH, BAEK ROCK, KR
[72] KIM, MIN SOO, KR
[72] HEO, SUN YEON, KR
[72] SEO, JEONG WOO, KR
[71] DAEBONG LS, LTD, KR
[85] 2022-04-29
[86] 2020-09-29 (PCT/KR2020/013429)
[87] (WO2021/085876)
[30] KR (10-2019-0138381) 2019-11-01

[21] **3,163,458**
[13] A1

[51] **Int.Cl. G01N 33/549 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **NON-INVASIVE ASSAY FOR DIFFERENTIATING BETWEEN BACTERIAL AND VIRAL INFECTIONS**
[54] **ESSAI NON INVASIF POUR DIFFERENCIER DES INFECTIONS BACTERIENNES ET VIRALES**
[72] SHENHAR-TSARFATY, SHANI, IL
[72] BERLINER, SHLOMO AVRAHAM, IL
[72] ROGOWSKI, ORI, IL
[72] FISHER, EYAL, IL
[72] SILBERMAN, ADI, IL
[71] ICHILOV TECH LTD., IL
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL
[85] 2022-05-31
[86] 2020-12-10 (PCT/IL2020/051277)
[87] (WO2021/117044)
[30] US (62/946,437) 2019-12-11

[21] **3,163,468**
[13] A1

[51] **Int.Cl. E04H 4/06 (2006.01) A61H 33/00 (2006.01) E04H 4/08 (2006.01) E04H 4/10 (2006.01)**
[25] EN
[54] **SWIM SPA COVER**
[54] **COUVERCLE DE SPA DE BAIN**
[72] MACKAY, ANDREW, CA
[71] HYDROPOOL INC., CA
[85] 2022-05-25
[86] 2020-11-26 (PCT/CA2020/051617)
[87] (WO2021/102575)
[30] US (62/940,464) 2019-11-26

[21] **3,163,469**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **RACK STORAGE SYSTEM WITH IMPROVED TRANSPORT VEHICLE LIFTING DEVICE**
[54] **SYSTEME D'EMMAGASINAGE A RAYONNAGE COMPORANT UN DISPOSITIF DE LEVAGE AMELIORE DE VEHICULE DE TRANSPORT**
[72] SCHAUER, JOHANNES, AT
[72] GLUCK, STEFAN, AT
[72] WIMMER, THOMAS, AT
[71] TGW MECHANICS GMBH, AT
[85] 2022-05-26
[86] 2020-12-04 (PCT/AT2020/060434)
[87] (WO2021/108827)
[30] AT (A 51067/2019) 2019-12-06

PCT Applications Entering the National Phase

[21] **3,163,470**
[13] A1

[51] **Int.Cl. G06F 16/242 (2019.01) G06N 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS PROVIDING CONTEXTUAL EXPLANATIONS FOR DOCUMENT UNDERSTANDING**

[54] **SYSTEMES ET PROCEDES FOURNISSANT DES EXPLICATIONS CONTEXTUELLES PERMETTANT LA COMPREHENSION DE DOCUMENTS**

[72] LI, TAK YIU DANIEL, US

[72] RAJENDRAN, PRIYADARSHINI, US

[72] MOHAPATRA, DEEPANKAR, US

[72] KIM, SUNGJAE, US

[71] INTUIT INC., US

[85] 2022-05-26

[86] 2021-09-24 (PCT/US2021/051935)

[87] (WO2022/072231)

[30] US (17/062,250) 2020-10-02

[21] **3,163,471**
[13] A1

[51] **Int.Cl. A23L 7/109 (2016.01) A21C 3/02 (2006.01)**

[25] EN

[54] **FOOD DOUGH FORMING DEVICE**

[54] **DISPOSITIF DE MISE EN FORME DE PATE**

[72] NAKAYAMA, ATSUO, JP

[72] NARABU, MIKIO, JP

[72] KOMINATO, SUSUMU, JP

[71] RHEON AUTOMATIC MACHINERY CO., LTD., JP

[85] 2022-05-31

[86] 2020-11-30 (PCT/JP2020/044426)

[87] (WO2021/112026)

[30] JP (2019-218222) 2019-12-02

[21] **3,163,472**
[13] A1

[51] **Int.Cl. F23J 15/02 (2006.01) B01D 53/14 (2006.01) B01D 53/62 (2006.01) B01D 53/78 (2006.01) B01D 53/96 (2006.01) F01K 23/10 (2006.01) F02G 5/02 (2006.01)**

[25] EN

[54] **BOILER PLANT AND CARBON DIOXIDE REMOVAL METHOD**

[54] **INSTALLATION DE CHAUDIERE ET PROCEDE D'ELIMINATION DE DIOXYDE DE CARBONE**

[72] TSUTSUMI, ATSUSHI, JP

[72] ISHII, HIROMI, JP

[72] TANAKA, TETSUYA, JP

[72] NAGAFUCHI, NAOYUKI, JP

[72] KAMIJO, TAKASHI, JP

[71] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP

[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP

[85] 2022-05-31

[86] 2020-12-07 (PCT/JP2020/045388)

[87] (WO2021/131629)

[30] JP (2019-238846) 2019-12-27

[21] **3,163,473**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G01N 35/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHODS FOR LAB AUTOMATION DATA SHARING**

[54] **SYSTEME ET PROCEDES POUR PARTAGE DE DONNEES D'AUTOMATISATION DE LABORATOIRE**

[72] LANPHEER, JOHN, US

[71] GEN-PROBE INCORPORATED, US

[85] 2022-05-26

[86] 2020-12-01 (PCT/US2020/062703)

[87] (WO2021/113238)

[30] US (62/942,539) 2019-12-02

[30] US (62/947,979) 2019-12-13

[21] **3,163,474**
[13] A1

[51] **Int.Cl. A01N 65/16 (2009.01) A01N 43/16 (2006.01) A61K 31/05 (2006.01)**

[25] EN

[54] **COMPOSITION ENRICHED IN POLYPHENOLS AND FLAVONOIDS FOR USE AS BIOSTIMULANT AND ANTIMICROBIAL FOR AGRICULTURE APPLICATIONS**

[54] **COMPOSITION RICHE EN POLYPHENOLS ET FLAVONOIDES A UTILISER COMME BIOSTIMULANT ET ANTIMICROBIEN EN AGRICULTURE**

[72] LEYTON, ALLISON, CL

[72] VAISMAN, DANIELA, CL

[71] BOTANITEC SPA, CL

[85] 2022-06-01

[86] 2019-12-02 (PCT/CL2019/050128)

[87] (WO2021/108932)

[21] **3,163,475**
[13] A1

[51] **Int.Cl. B26D 1/01 (2006.01) B26D 3/08 (2006.01) B26D 7/01 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PRODUCING A CUTTING GEOMETRY IN A CLOSURE CAP FOR A CONTAINER**

[54] **APPAREIL ET PROCEDE DE PRODUCTION D'UNE GEOMETRIE DE COUPE DANS UN CAPUCHON DE FERMETURE POUR UN RECIPIENT**

[72] FLUKIGER, PAUL, CH

[71] PACKSYS GLOBAL AG, CH

[85] 2022-06-01

[86] 2020-11-05 (PCT/EP2020/081151)

[87] (WO2021/110350)

[30] EP (19213894.9) 2019-12-05

Demandes PCT entrant en phase nationale

[21] **3,163,476**
[13] A1

[51] **Int.Cl. H04M 9/08 (2006.01) G10L 21/0208 (2013.01) H04M 1/725 (2021.01)**

[25] EN

[54] **METHOD, SERVER, AND CLIENT FOR PROCESSING NOISE**

[54] **PROCEDE DE TRAITEMENT DE BRUIT, EXTREME DE SERVICE ET CLIENT**

[72] LIU, RUYI, CN
[72] WU, KEWEI, CN
[72] LIU, BINGBING, CN
[72] SONG, ZHI, CN
[72] FAN, GUOXU, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-01
[86] 2020-07-30 (PCT/CN2020/105995)
[87] (WO2021/109598)
[30] CN (201911216957.9) 2019-12-03

[21] **3,163,477**
[13] A1

[51] **Int.Cl. F16B 37/12 (2006.01) F16B 13/00 (2006.01)**

[25] EN

[54] **SOCKET WITH CLEARED THREADED PORTION FOR RECEIVING A FASTENING ELEMENT**

[54] **DOUILLE A PARTIE FILETEE DEGAGEE PERMETTANT DE RECEVOIR UN ELEMENT DE FIXATION**

[72] HACKLER, ERHARD, DE
[71] EJOT SE & CO. KG, DE
[85] 2022-06-01
[86] 2020-11-16 (PCT/EP2020/082262)
[87] (WO2021/110397)
[30] DE (10 2019 218 674.2) 2019-12-02

[21] **3,163,478**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN

[54] **METHOD OF GENERATING DELIVERY RANGE, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE GENERATION DE PLAGE DE LIVRAISON, ET DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] LIU, MING, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-01
[86] 2020-07-30 (PCT/CN2020/106001)
[87] (WO2021/109599)
[30] CN (201911228090.9) 2019-12-04

[21] **3,163,479**
[13] A1

[51] **Int.Cl. B01J 23/72 (2006.01) B01J 23/78 (2006.01) B01J 23/83 (2006.01) B01J 23/885 (2006.01) C07C 209/16 (2006.01) C07C 209/26 (2006.01) C07C 213/02 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING AMINES OVER A COPPER CATALYST**

[54] **PROCESSUS DE PREPARATION D'AMINES SUR UN CATALYSEUR DE CUIVRE**

[72] ERNST, MARTIN, DE
[72] ALTENHOFF, ANSGAR GEREON, DE
[72] LUYKEN, HERMANN, DE
[72] HUBER, TATJANA, DE
[72] HAUPT, SEBASTIAN, DE
[72] KOLASSA, DIETER, DE
[71] BASF SE, DE
[85] 2022-06-01
[86] 2020-11-24 (PCT/EP2020/083162)
[87] (WO2021/110472)
[30] EP (19213226.4) 2019-12-03

[21] **3,163,481**
[13] A1

[51] **Int.Cl. G08G 1/16 (2006.01) B60R 21/00 (2006.01)**

[25] EN

[54] **IMPACT DETECTING AND TRACKING SYSTEMS AND METHODS FOR VEHICLE CRASH ATTENUATION SYSTEMS**

[54] **SYSTEMES ET PROCEDES DE DETECTION ET DE SUIVI D'IMPACT POUR DES SYSTEMES D'ATTENUATION DE COLLISION DE VEHICULE**

[72] MAUS, GEOFFREY B., US
[72] KULP, BRENT M., US
[72] KOROGHLIAN, ARTHUR, US
[72] WIELENGA, BOB L., US
[71] TRAFFIX DEVICES, INC., US
[85] 2022-05-31
[86] 2020-12-11 (PCT/US2020/064656)
[87] (WO2021/119519)
[30] US (62/947,451) 2019-12-12
[30] US (63/115,993) 2020-11-19

[21] **3,163,482**
[13] A1

[51] **Int.Cl. G06T 5/20 (2006.01) G06N 3/04 (2006.01) G06T 9/00 (2006.01) A61B 8/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR IMAGE SEGMENTATION USING A DEEP CONVOLUTIONAL NEURAL NETWORK WITH A NESTED U-STRUCTURE**

[54] **APPAREIL ET PROCEDE DE SEGMENTATION D'IMAGE UTILISANT UN RESEAU NEURONAL CONVOLUTIF PROFOND A STRUCTURE EN U IMBRIQUEE**

[72] QIN, XUEBIN, CA
[72] ZHANG, ZICHEN, CA
[72] DEHGHAN, MASOOD, CA
[72] ZONOONI, DORNOOSH, CA
[71] MEDO DX PTE. LTD, SG
[85] 2022-05-27
[86] 2020-12-17 (PCT/SG2020/050757)
[87] (WO2021/137756)
[30] US (62/955,045) 2019-12-30

PCT Applications Entering the National Phase

[21] **3,163,483**
[13] A1

[51] **Int.Cl. C12N 9/64 (2006.01) A61K 38/48 (2006.01) C07K 1/04 (2006.01) C07K 1/06 (2006.01) C07K 7/08 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **PEPTIDES FOR THE TREATMENT OF CANCER AND/OR METASTASIS**

[54] **PEPTIDES POUR LE TRAITEMENT DE CANCER ET/OU DE METASTASES**

[72] FERNANDEZ CARNEADO, JIMENA, ES

[72] PONSATI, BERTA, ES

[72] PARENTE DUENA, ANTONIO, ES

[72] VALLES-MIRET, MARIONA, ES

[72] FARRERA-SINFREU, JOSEP, ES

[72] ALMAZAN-MOGA, ANNA, ES

[72] ROMA CASTANYER, JOSEP, ES

[72] GALLEGO MELCON, SOLEDAD, ES

[72] SANCHEZ DE TOLEDO CODINA, JOSE, ES

[72] MORENO MARTIN-RETORTILLO, LUCAS, ES

[72] NAVARRO BAREA, NATALIA, ES

[72] MOLIST MUNOZ, CARLA, ES

[71] BCN PEPTIDES, S.A., ES

[85] 2022-06-01

[86] 2020-11-30 (PCT/EP2020/083987)

[87] (WO2021/110609)

[30] EP (19383084.1) 2019-12-05

[21] **3,163,484**
[13] A1

[51] **Int.Cl. H04W 4/021 (2018.01) G06Q 20/08 (2012.01) G06Q 30/00 (2012.01) G08G 1/137 (2006.01)**

[25] EN

[54] **A SYSTEM FOR PROVIDING A MOBILE DEVICE WITH REMOTE OR PROXY ACCESS TO MERCHANT APPS AND/OR AUTOMATIC REGISTRATION ON MERCHANT APPS BASED ON LOCATION PARAMETERS**

[54] **SYSTEME POUR FOURNIR A UN DISPOSITIF MOBILE UN ACCES A DISTANCE OU PAR MANDATAIRE A DES APRS DE COMMERCANT ET/OU ENREGISTREMENT AUTOMATIQUE SUR DES APRS DE COMMERCANT SUR LA BASE DE PARAMETRES DE LOCALISATION**

[72] KUMAR, RAJEEV, CA

[72] KUMAR, RAKESH, CA

[71] APP-POP-UP INC., CA

[85] 2022-05-24

[86] 2021-08-27 (PCT/CA2021/000077)

[87] (WO2022/040776)

[30] US (US63/071,003) 2020-08-27

[21] **3,163,485**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **TEIPP PEPTIDE VARIANT AND USES THEREOF**

[54] **VARIANT PEPTIDIQUE TEIPP ET UTILISATIONS DE CELUI-CI**

[72] VAN HALL, THORBALD, NL

[72] VAN DER BURG, SJOERD HENRICUS, NL

[72] MARJIT, KOEN, NL

[71] ACADEMISCH ZIEKENHUIS LEIDEN (H.O.D.N. LUMC), NL

[85] 2022-05-27

[86] 2020-11-25 (PCT/NL2020/050741)

[87] (WO2021/107775)

[30] EP (19212549.0) 2019-11-29

[21] **3,163,486**
[13] A1

[51] **Int.Cl. C12N 5/0784 (2010.01)**

[25] EN

[54] **NOVEL METHOD**

[54] **NOUVEAU PROCEDE**

[72] POOL, LIENEKE, SE

[72] ENGLEZOU, PAVLOS, SE

[72] WIGREN, MARIA, SE

[72] ROMEDAHL, HANNE, SE

[71] IDOGEN AB, SE

[85] 2022-06-01

[86] 2020-12-11 (PCT/EP2020/085857)

[87] (WO2021/116464)

[30] GB (1918364.9) 2019-12-13

[21] **3,163,487**
[13] A1

[51] **Int.Cl. A23F 5/18 (2006.01) A23F 5/26 (2006.01) A23F 5/28 (2006.01) A23F 5/32 (2006.01)**

[25] EN

[54] **A PROCESS TO PREPARE A LIQUID COFFEE CONCENTRATE WITH REDUCED ACRYLAMIDE CONTENT BY RESIN TREATMENT**

[54] **PROCEDE DE PREPARATION D'UN CONCENTRE DE CAFE LIQUIDE AYANT UNE TENEUR REDUITE EN ACRYLAMIDE PAR TRAITEMENT A BASE DE RESINE**

[72] HEIJMAN, GERTJAN, NL

[72] SKOGVOLD, REBECCA VAN DER WESTEN, NL

[72] BROWN, IAN, GB

[72] ROOS, ELLEN, NL

[71] KONINKLIJKE DOUWE EGBERTS B.V., NL

[85] 2022-06-01

[86] 2020-12-18 (PCT/EP2020/087015)

[87] (WO2021/123161)

[30] GB (1919065.1) 2019-12-20

Demandes PCT entrant en phase nationale

[21] **3,163,488**
[13] A1

[51] **Int.Cl. A23F 5/28 (2006.01) A23F 5/18 (2006.01) A23F 5/26 (2006.01)**

[25] EN

[54] **A PROCESS TO PREPARE A LIQUID COFFEE CONCENTRATE WITH REDUCED ACRYLAMIDE CONTENT BY TREATMENT WITH A SELECTIVELY PERMEABLE MEMBRANE**

[54] **PROCEDE DE PREPARATION D'UN CONCENTRE DE CAFE LIQUIDE A TENEUR REDUITE EN ACRYLAMIDE PAR TRAITEMENT AVEC UNE MEMBRANE SELECTIVEMENT PERMEABLE**

[72] ORDONEZ, EVA ESPINO, NL
[72] GORDON, ALEXANDRA KELLY, GB
[72] BROWN, IAN, GB
[72] HENSON, SIAN, GB
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2022-06-01
[86] 2020-12-18 (PCT/EP2020/087020)
[87] (WO2021/123163)
[30] GB (1919068.5) 2019-12-20

[21] **3,163,489**
[13] A1

[51] **Int.Cl. C09K 8/52 (2006.01) E21B 21/01 (2006.01) E21B 37/00 (2006.01)**

[25] EN

[54] **REMOVAL OF GELS FORMED FROM LIQUID FRICTION-REDUCING FLUIDS**

[54] **ELIMINATION DE GELS FORMES A PARTIR DE FLUIDES LIQUIDES DE REDUCTION DE FROTTEMENT**

[72] KHAMATNUROVA, TATYANA V., US
[72] JONES, PAUL JOSEPH, US
[72] HILLARD, ROBERT DOUGLAS, US
[72] WESTON, MELISSA CHRISTINE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-05-31
[86] 2020-01-10 (PCT/US2020/013103)
[87] (WO2021/137876)
[30] US (16/734,169) 2020-01-03

[21] **3,163,490**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 47/54 (2017.01) A61K 31/4375 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/522 (2006.01) A61K 31/5377 (2006.01) A61K 31/554 (2006.01) A61K 31/675 (2006.01) A61K 31/683 (2006.01) A61K 31/7064 (2006.01) A61K 31/712 (2006.01) A61P 31/12 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMBINATION OF A THERAPEUTIC OLIGONUCLEOTIDE TARGETING HBV AND A TLR7 AGONIST FOR TREATMENT OF HBV**

[54] **ASSOCIATION PHARMACEUTIQUE D'UN OLIGONUCLEOTIDE THERAPEUTIQUE CIBLANT LE VHB ET UN AGONISTE DE TLR7 POUR LE TRAITEMENT DU VHB**

[72] GAO, LU, CN
[72] ZHU, YONGHONG, CN
[72] OTTOSEN, SOREN, DK
[72] MUELLER, HENRIK, CH
[72] ZHOU, XUE, CN
[72] BLAISING, JULIE ELISABETH FRANCOISE, CH
[72] JIN, YUYAN, CN
[72] BO, QINGYAN, CN
[72] TYAGI, GAURAV, US
[71] F. HOFFMAN-LA ROCHE AG, CH
[85] 2022-06-01
[86] 2020-12-22 (PCT/EP2020/087697)
[87] (WO2021/130266)
[30] CN (PCT/CN2019/127972) 2019-12-24
[30] CN (PCT/CN2020/107002) 2020-08-05

[21] **3,163,491**
[13] A1

[51] **Int.Cl. A61K 31/4192 (2006.01) A61K 31/445 (2006.01) C07D 249/04 (2006.01) C07D 401/06 (2006.01)**

[25] EN

[54] **COMPOUNDS, POLYMERS, DEVICES, AND USES THEREOF**

[54] **COMPOSES, POLYMERES, DISPOSITIFS ET LEURS UTILISATIONS**

[72] HEIDEBRECHT, RICHARD, US
[72] BOURQUE, ELYSE, US
[72] HENCKEN, CHRISTOPHER P., US
[71] SIGILON THERAPEUTICS, INC., US
[85] 2022-05-31
[86] 2020-12-11 (PCT/US2020/064661)
[87] (WO2021/119522)
[30] US (62/947,951) 2019-12-13

[21] **3,163,492**
[13] A1

[51] **Int.Cl. G16B 25/10 (2019.01) C12Q 1/6886 (2018.01) G16H 50/20 (2018.01)**

[25] EN

[54] **REAL-WORLD EVIDENCE OF DIAGNOSTIC TESTING AND TREATMENT PATTERNS IN U.S. BREAST CANCER PATIENTS**

[54] **PREUVE DU MONDE REEL DE TESTS DE DIAGNOSTIC ET DE SCHEMAS DE TRAITEMENT CHEZ DES PATIENTES AMERICAINES ATTEINTES D'UN CANCER DU SEIN**

[72] FERNANDES, LOUIS, US
[72] EPSTEIN, CAROLINE, US
[72] BELL, JOSHUA SK, US
[72] BEAUBIER, NIKE TSIAPERA, US
[72] PALMER, GARY, US
[71] TEMPUS LABS, INC., US
[85] 2022-05-31
[86] 2020-12-14 (PCT/US2020/064969)
[87] (WO2021/119641)
[30] US (62/947,431) 2019-12-12

PCT Applications Entering the National Phase

[21] **3,163,493**
[13] A1

[51] **Int.Cl. C04B 26/06 (2006.01) C04B 26/16 (2006.01) C04B 28/06 (2006.01)**

[25] EN

[54] **USE OF REACTION RESIN MIXTURES WITH PREDEFINED POLARITY FOR SETTING THE ROBUSTNESS OF A MORTAR COMPOSITION AND METHOD FOR SETTING THE ROBUSTNESS OF A MORTAR COMPOSITION**

[54] **UTILISATION DE MELANGES DE RESINES DE REACTION AYANT UNE POLARITE PREDEFINIE PERMETTANT D'AJUSTER LA ROBUSTESSE D'UN COMPOSE DE MORTIER, ET PROCEDE D'AJUSTEMENT DE LA ROBUSTESSE D'UN COMPOSE DE MORTIER**

[72] KUMRU, MEMET-EMIN, DE

[71] HILTI AKTIENGESSELLSCHAFT, LI

[85] 2022-06-01

[86] 2021-01-12 (PCT/EP2021/050476)

[87] (WO2021/144259)

[30] EP (20151568.1) 2020-01-14

[21] **3,163,494**
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 47/01 (2012.01) E21B 47/12 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CONTROLLED RELEASE OF SENSOR SWARMS DOWNHOLE**

[54] **SYSTEMES ET PROCEDES PERMETTANT LA LIBERATION REGULEE D'ESSAIS DE CAPTEURS DE FOND DE TROU**

[72] GOONERATNE, CHINTHAKA PASAN, SA

[72] RAMASAMY, JOTHIBASU, SA

[72] LI, BODONG, SA

[72] ZHAN, GUODONG, SA

[72] MOELLENDICK, TIMOTHY ERIC, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2022-05-31

[86] 2020-12-18 (PCT/US2020/065808)

[87] (WO2021/127313)

[30] US (16/720,879) 2019-12-19

[21] **3,163,495**
[13] A1

[51] **Int.Cl. A23L 15/00 (2016.01) A23L 5/10 (2016.01)**

[25] EN

[54] **METHOD FOR PRODUCING COOKED EGG PRODUCT HAVING CONTROLLED CURD SIZE AND/OR SHAPE**

[54] **PROCEDE DE PRODUCTION D'UN PRODUIT A BASE D'UF CUIT AYANT UNE TAILLE ET/OU UNE FORME DE GRUMEAUX CONTROLEES**

[72] VANCE, DANIEL L., US

[72] WIDI, KATIE ANN, US

[72] KOCH, PETER J., US

[72] BOHMAN, TODD D., US

[72] BET, MATTHEW J., US

[72] PAINE, WANDA P., US

[72] SAFFERT, DARREN D., US

[71] MICHAEL FOODS, INC., US

[85] 2022-05-31

[86] 2020-12-19 (PCT/US2020/066265)

[87] (WO2021/127600)

[30] US (62/950,887) 2019-12-19

[21] **3,163,496**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/20 (2006.01)**

[25] EN

[54] **NEEDLE SHIELD REMOVERS, DRUG DELIVERY DEVICES, AND RELATED METHODS**

[54] **DISPOSITIFS DE RETRAIT DE PROTECTION D'AIGUILLE, DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT ET METHODES ASSOCIEES**

[72] JENSEN, JAN, US

[71] AMGEN INC., US

[85] 2022-05-31

[86] 2020-12-28 (PCT/US2020/067118)

[87] (WO2021/146043)

[30] US (62/960,463) 2020-01-13

[21] **3,163,497**
[13] A1

[51] **Int.Cl. E21B 31/06 (2006.01) E21B 37/00 (2006.01)**

[25] EN

[54] **USE OF HALBACH ARRAY IN DOWNHOLE DEBRIS RETRIEVAL MAGNETS**

[54] **UTILISATION D'UN RESEAU DE HALBACH DANS DES AIMANTS DE RECUPERATION DE DEBRIS DE FOND DE TROU**

[72] MAHER, PETER REID, US

[72] BENNETT, ROBERT W., US

[72] DOCKWEILER, DAVID ALLEN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-05-31

[86] 2021-03-09 (PCT/US2021/021526)

[87] (WO2021/183528)

[30] US (62/989,559) 2020-03-13

[30] US (17/196,388) 2021-03-09

[21] **3,163,498**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) G01N 33/574 (2006.01)**

[25] EN

[54] **METHODS FOR THE DETECTION AND TREATMENT OF LUNG CANCER**

[54] **METHODES POUR LA DETECTION ET LE TRAITEMENT DU CANCER DU POUMON**

[72] HANASH, SAMIR, US

[72] OSTRIN, EDWIN, US

[72] FENG, ZIDING, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2022-05-31

[86] 2021-09-29 (PCT/US2021/052611)

[87] (WO2022/072471)

[30] US (63/086,865) 2020-10-02

[30] US (63/106,187) 2020-10-27

Demandes PCT entrant en phase nationale

[21] **3,163,499**
[13] A1

[51] **Int.Cl. B60N 2/005 (2006.01) B60N 2/20 (2006.01) B60N 2/30 (2006.01)**
[25] EN
[54] **VEHICLE SEATING SYSTEMS**
[54] **SYSTEMES D'ASSISE DE VEHICULE**
[72] LEE, GARETH, US
[72] ANDERSON, SCOTT R., US
[72] MERCHANT, SOHEL, US
[72] SEMLER, CLINT, US
[72] KIM, RICHARD, US
[71] CANOO TECHNOLOGIES INC., US
[85] 2022-05-31
[86] 2020-09-21 (PCT/US2020/051870)
[87] (WO2021/055978)
[30] US (62/903,715) 2019-09-20

[21] **3,163,500**
[13] A1

[51] **Int.Cl. H01J 23/20 (2006.01)**
[25] EN
[54] **MICROWAVE TUBE AND METHOD FOR CONTROLLING THE SAME**
[54] **TUBE HYPERFREQUENCE ET SON PROCEDE DE REGULATION**
[72] MACHIDA, TETSUO, JP
[71] NEC NETWORK AND SENSOR SYSTEMS, LTD., JP
[85] 2022-06-01
[86] 2020-12-01 (PCT/JP2020/044669)
[87] (WO2021/112081)
[30] JP (2019-218548) 2019-12-03

[21] **3,163,501**
[13] A1

[51] **Int.Cl. B60K 6/40 (2007.10) B60K 6/405 (2007.10) B60T 13/00 (2006.01) B60W 10/18 (2012.01) B60W 10/20 (2006.01) B62D 11/08 (2006.01)**
[25] EN
[54] **VEHICLE CONTROL SYSTEMS**
[54] **SYSTEMES DE COMMANDE DE VEHICULE**
[72] NARASIMHAN, GANESH RAM, US
[72] NAJMUDDIN, KHAJA, US
[72] PUCCI, PAOLO ERASMO, US
[72] CHARBONNEAU, ALEXI, US
[71] CANOO TECHNOLOGIES INC., US
[85] 2022-05-31
[86] 2020-09-21 (PCT/US2020/051876)
[87] (WO2021/055979)
[30] US (62/903,707) 2019-09-20

[21] **3,163,502**
[13] A1

[51] **Int.Cl. B60K 1/04 (2019.01) B60R 16/02 (2006.01) B62D 21/00 (2006.01) B62D 25/20 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE BATTERY ENCLOSURE**
[54] **ENCEINTE DE BATTERIE DE VEHICULE ELECTRIQUE**
[72] WEICKER, PHILLIP JOHN, US
[72] TARLAU, DAVID, US
[72] BOURKE, DEBORAH ANNE, US
[72] CHARBONNEAU, ALEXI, US
[72] MCCARRON, DANIEL GEORGE, US
[71] CANOO TECHNOLOGIES INC., US
[85] 2022-05-31
[86] 2020-09-21 (PCT/US2020/051879)
[87] (WO2021/055980)
[30] US (62/903,709) 2019-09-20

[21] **3,163,503**
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/4745 (2006.01) A61K 31/555 (2006.01)**
[25] EN
[54] **POLYPHOSPHAZENE DRUG CARRIERS**
[54] **VECTEURS DE MEDICAMENT A BASE DE POLYPHOSPHAZENE**
[72] SHIN, ERNEST, US
[71] ONSELEX PHARMACEUTICALS, INC., US
[85] 2022-06-01
[86] 2020-12-02 (PCT/US2020/062945)
[87] (WO2021/113403)
[30] US (62/942,978) 2019-12-03

[21] **3,163,504**
[13] A1

[51] **Int.Cl. G06Q 20/32 (2012.01) G06Q 20/10 (2012.01) G06F 11/07 (2006.01)**
[25] EN
[54] **TRANSFERRING A CUSTOMER FROM AN ATM TRANSACTION TO A DEVICE-BASED TRANSACTION DURING AN ERROR STATE, AND APPLICATIONS THEREOF**
[54] **TRANSFERT D'UN CLIENT DEPUIS UNE TRANSACTION DE GUICHET AUTOMATIQUE BANCAIRE VERS UNE TRANSACTION BASEE SUR UN DISPOSITIF PENDANT UN ETAT D'ERREUR, ET SES APPLICATIONS**
[72] PHILLIPS, JEREMY J., US
[72] SCHOTT, CHRISTOPHER, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-05-31
[86] 2020-11-09 (PCT/US2020/059618)
[87] (WO2021/113022)
[30] US (16/705,626) 2019-12-06

[21] **3,163,505**
[13] A1

[51] **Int.Cl. A61K 31/5375 (2006.01) A61P 25/24 (2006.01)**
[25] EN
[54] **USE OF REBOXETINE TO TREAT NERVOUS SYSTEM DISORDERS**
[54] **UTILISATION DE REBOXETINE POUR TRAITER DES TROUBLES DU SYSTEME NERVEUX**
[72] TABUTEAU, HERRIOT, US
[71] AXSOME THERAPEUTICS, INC., US
[85] 2022-06-01
[86] 2020-11-30 (PCT/US2020/062560)
[87] (WO2021/113163)
[30] US (62/943,077) 2019-12-03
[30] US (62/946,295) 2019-12-10
[30] US (16/740,329) 2020-01-10
[30] US (16/740,409) 2020-01-11
[30] US (16/740,410) 2020-01-11
[30] US (16/740,411) 2020-01-11

PCT Applications Entering the National Phase

[21] **3,163,506**
[13] A1

[51] **Int.Cl. F16L 55/32 (2006.01) B61B 13/10 (2006.01) F16L 55/26 (2006.01) F16L 55/30 (2006.01) G01N 21/954 (2006.01)**

[25] EN

[54] **TWO-WHEELED PIPE CRAWLER**

[54] **RACLEUR DE CONDUITE A DEUX ROUES**

[72] LOUIS, JAMES, US

[72] COTTLE, TRAVIS, US

[72] FEIST, RYAN L., US

[71] GAS TECHNOLOGY INSTITUTE, US

[85] 2022-05-31

[86] 2020-11-18 (PCT/US2020/060986)

[87] (WO2021/126446)

[30] US (62/949,955) 2019-12-18

[30] US (17/099,344) 2020-11-16

[21] **3,163,507**
[13] A1

[51] **Int.Cl. A61K 38/14 (2006.01) A61K 38/12 (2006.01)**

[25] EN

[54] **PEPTIDE CONJUGATES AND METHODS OF USE**

[54] **CONJUGUES PEPTIDIQUES ET METHODES D'UTILISATION**

[72] SHEN, WEIJUN, US

[72] PFLIMLIN, ELSA, US

[72] LEAR, SAM, US

[72] AMSO, ZAID, US

[72] SCHULTZ, PETER G., US

[71] THE SCRIPPS RESEARCH INSTITUTE, US

[85] 2022-06-01

[86] 2020-12-03 (PCT/US2020/063149)

[87] (WO2021/113535)

[30] US (62/943,667) 2019-12-04

[30] US (62/994,791) 2020-03-25

[21] **3,163,508**
[13] A1

[51] **Int.Cl. G06F 40/56 (2020.01) G06N 3/08 (2006.01)**

[25] EN

[54] **PRE-CHAT INTENT PREDICTION FOR DIALOGUE GENERATION**

[54] **PREDICTION D'INTENTION DE PRE-CLAVARDAGE POUR LA GENERATION DE DIALOGUE**

[72] IGURE, VINAY, US

[72] KARP, SCOTT, US

[72] MUELLER, ERIK, US

[72] LUKE, TANUSHREE, US

[72] ZHANG, RUI, US

[72] MIRANDA, VICTOR ALVAREZ, US

[72] SOIAPORN, KUNLAYA, US

[71] CAPITAL ONE SERVICES, LLC, US

[85] 2022-05-31

[86] 2020-11-20 (PCT/US2020/061607)

[87] (WO2021/113096)

[30] US (62/942,588) 2019-12-02

[30] US (16/821,008) 2020-03-17

[30] US (16/821,406) 2020-03-17

[21] **3,163,509**
[13] A1

[51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/00 (2006.01) A61B 17/12 (2006.01)**

[25] EN

[54] **MEDICAL DELIVERY DEVICE**

[54] **DISPOSITIF MEDICAL D'ADMINISTRATION**

[72] SMITH, AMANDA, US

[72] MAGUE, JENNIFER, US

[72] LYDECKER, LAUREN, US

[72] PIC, ANDREW, US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2022-05-31

[86] 2020-11-24 (PCT/US2020/062041)

[87] (WO2021/113125)

[30] US (62/942,925) 2019-12-03

[21] **3,163,510**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/50 (2006.01)**

[25] EN

[54] **NEW COMPOSITION**

[54] **NOUVELLE COMPOSITION**

[72] JOHANSSON, ANDERS, SE

[72] Rooth, Marten, SE

[72] HELLRUP, JOEL, SE

[71] NANEXA AB, SE

[85] 2022-06-01

[86] 2019-12-06 (PCT/GB2019/053453)

[87] (WO2021/111098)

[21] **3,163,511**
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) A61P 17/00 (2006.01)**

[25] EN

[54] **COLLAGEN PRODUCTION**

[54] **PRODUCTION DE COLLAGENE**

[72] MIOTTO, MARTINA, GB

[72] CONNON, CHE JOHN, GB

[72] GOUVEIA, RICARDO, GB

[71] 3D BIO-TISSUES LIMITED, GB

[85] 2022-06-01

[86] 2020-12-11 (PCT/GB2020/053190)

[87] (WO2021/116705)

[30] GB (1918167.6) 2019-12-11

[21] **3,163,512**
[13] A1

[51] **Int.Cl. G01M 3/02 (2006.01) B01L 1/04 (2006.01) F24F 3/16 (2021.01) G01L 11/00 (2006.01) A01L 7/00 (2006.01) A61G 10/00 (2006.01) G01L 9/00 (2006.01)**

[25] EN

[54] **SEALING ARRANGEMENT, FILTER AND FILTER HOUSING, METHOD OF MONITORING LEAK TIGHTNESS, AND LEAK TIGHTNESS MONITORING SYSTEM**

[54] **AGENCEMENT D'ETANCHEITE, FILTRE ET BOITIER DE FILTRE, PROCEDE DE SURVEILLANCE D'ETANCHEITE AUX FUITES ET SYSTEME DE SURVEILLANCE D'ETANCHEITE AUX FUITES**

[72] RENARD, YANN, SE

[72] HEDLUND, KENNY, SE

[72] SAVIN, LIONEL, SG

[72] LANS, ERIK, SE

[71] CAMFIL AB, SE

[85] 2022-06-01

[86] 2020-12-04 (PCT/SE2020/051171)

[87] (WO2021/112753)

[30] SE (1951394-4) 2019-12-04

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[21] **3,163,513**
[13] A1

[51] **Int.Cl. A61B 3/14 (2006.01) A61B 1/313 (2006.01) A61B 3/10 (2006.01) A61F 9/007 (2006.01)**

[25] EN
[54] **EYE EXAMINATION APPARATUS**
[54] **APPAREIL D'EXAMEN DE L'OEIL**
[72] GLINER, VADIM, IL
[72] SITNITSKY, ILYA, IL
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2022-06-01
[86] 2020-11-23 (PCT/IB2020/061046)
[87] (WO2021/111242)
[30] US (16/704,054) 2019-12-05

[21] **3,163,514**
[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) A61K 48/00 (2006.01) C12N 15/11 (2006.01)**

[25] EN
[54] **TARGETED TRANSFER RNAS FOR TREATMENT OF DISEASES**
[54] **ARN DE TRANSFERT CIBLES POUR LE TRAITEMENT DE MALADIES**
[72] HUSS, DAVID, US
[72] STEIN, LIANA, US
[72] SULLIVAN, RICHARD, US
[72] LAKSHMANAN, ANUPAMA, US
[72] BURLEIGH, STEPHEN, US
[71] SHAPE THERAPEUTICS INC., US
[85] 2022-05-31
[86] 2020-12-01 (PCT/US2020/062671)
[87] (WO2021/113218)
[30] US (62/942,690) 2019-12-02
[30] US (62/942,667) 2019-12-02
[30] US (63/010,856) 2020-04-16
[30] US (63/111,856) 2020-11-10

[21] **3,163,515**
[13] A1

[51] **Int.Cl. B33Y 80/00 (2015.01) B25J 15/00 (2006.01) B25J 15/06 (2006.01)**

[25] EN
[54] **A GRIPPING TOOL WHICH CAN BE USED BY A MANIPULATOR DEVICE FOR PICKING UP AND HANDLING PIECES**
[54] **OUTIL DE PREHENSION POUVANT ETRE UTILISE PAR UN DISPOSITIF MANIPULATEUR POUR SAISIR ET MANIPULER DES PIECES**
[72] CECILI, MARCO, IT
[72] GIRARDI, FABRIZIO, IT
[72] PISCHEDDA, COSTANTINO, IT
[72] PIRAS, LUCA, IT
[71] COMAU S.P.A., IT
[85] 2022-06-01
[86] 2020-12-11 (PCT/IB2020/061803)
[87] (WO2021/116990)
[30] IT (102019000023898) 2019-12-13

[21] **3,163,516**
[13] A1

[51] **Int.Cl. A61F 13/42 (2006.01)**

[25] EN
[54] **SENSOR FOR ABSORBENT ARTICLE**
[54] **CAPTEUR POUR ARTICLE ABSORBANT**
[72] KURT, ALYSSA, US
[72] ROSZKOWIAK, AMANDA, US
[72] MATUS, KRISTY, US
[72] ROEMISCH, DERRICK, US
[72] BLASZCZUK, KAROLINA, US
[72] CHRISTIANSEN, MICHELLE, US
[72] FOGEL, JEREMY STEPHEN, US
[72] BOWSER, WILLIAM, US
[72] URIDIL, MORGAN, US
[72] FUERSTE, COLE, US
[71] MEDLINE INDUSTRIES, LP, US
[85] 2022-05-31
[86] 2020-12-01 (PCT/US2020/062689)
[87] (WO2021/113230)
[30] US (16/702,183) 2019-12-03
[30] US (17/108,239) 2020-12-01

[21] **3,163,517**
[13] A1

[51] **Int.Cl. C12N 5/0775 (2010.01)**

[25] EN
[54] **HIGH-PURITY MESENCHYMAL STEM CELLS**
[54] **CELLULES SOUCHES MESENCHYMATEUSES DE PURETE ELEVEE**
[72] MATSUZAKI, YUMI, JP
[72] SUYAMA, TAKASHI, JP
[71] PUREC CO., LTD., JP
[85] 2022-06-01
[86] 2020-04-06 (PCT/JP2020/016228)
[87] (WO2021/145002)
[30] JP (PCT/JP2020/002197) 2020-01-16

[21] **3,163,518**
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01) A44B 19/26 (2006.01) A47C 21/02 (2006.01) A47C 21/06 (2006.01)**

[25] EN
[54] **BED SHEET ASSEMBLY**
[54] **ENSEMBLE DE DRAP DE LIT**
[72] PFISTER, BRENT, US
[72] JOHNSON, JILL, US
[71] TEMPUR WORLD, LLC, US
[85] 2022-05-31
[86] 2020-12-01 (PCT/US2020/062715)
[87] (WO2021/113243)
[30] US (62/944,642) 2019-12-06

[21] **3,163,519**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 17/00 (2006.01) A61M 5/00 (2006.01)**

[25] EN
[54] **AGENT DELIVERY DEVICES**
[54] **DISPOSITIFS D'ADMINISTRATION D'AGENT**
[72] FAVREAU, JOHN THOMAS, US
[72] GILBERT, STAN ROBERT, US
[72] MAGUE, JENNIFER, US
[72] PIC, ANDREW, US
[72] LAPLACA, MATTHEW, US
[72] GOLDEN, JENNIFER, US
[72] WHELEHAN, JENNIFER, US
[72] HENCHIE, TRAVIS, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-05-31
[86] 2020-12-02 (PCT/US2020/062811)
[87] (WO2021/113303)
[30] US (62/942,887) 2019-12-03

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[21] **3,163,522**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61K 38/12 (2006.01)**
[25] EN
[54] **GLP2 RECEPTOR AGONISTS AND METHODS OF USE**
[54] **AGONISTES DU RECEPTEUR GLP2 ET METHODES D'UTILISATION**
[72] SHEN, WEIJUN, US
[72] SCHULTZ, PETER G., US
[72] AMSO, ZAID, US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2022-05-31
[86] 2020-12-03 (PCT/US2020/063130)
[87] (WO2021/113524)
[30] US (62/943,667) 2019-12-04
[30] US (62/994,791) 2020-03-25

[21] **3,163,523**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/107 (2006.01) C12M 1/12 (2006.01) C12M 1/16 (2006.01) C12N 1/14 (2006.01) C12N 1/20 (2006.01) C12P 1/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR IMPROVED ANAEROBIC DIGESTION**
[54] **SYSTEME ET PROCEDE POUR UNE MEILLEURE DIGESTION ANAEROBIQUE**
[72] PARRY, DAVID LLOYD, US
[72] RUS PEREZ, ESTER, US
[71] JACOBS ENGINEERING GROUP, INC., US
[85] 2022-05-31
[86] 2020-12-04 (PCT/US2020/063283)
[87] (WO2021/113622)
[30] US (62/944,966) 2019-12-06

[21] **3,163,526**
[13] A1

[51] **Int.Cl. A61K 31/035 (2006.01) A61K 31/19 (2006.01) A61K 31/616 (2006.01) C07C 57/42 (2006.01) C07C 57/44 (2006.01) C07C 69/017 (2006.01)**
[25] EN
[54] **ACYLATED ACTIVE AGENTS AND METHODS OF THEIR USE FOR THE TREATMENT OF METABOLIC DISORDERS AND NONALCOHOLIC FATTY LIVER DISEASE**
[54] **AGENTS ACTIFS ET LEURS PROCEDES D'UTILISATION POUR LE TRAITEMENT DE TROUBLES METABOLIQUES ET D'UNE STEATOSE HEPATIQUE NON ALCOOLIQUE**
[72] CASEY, JOHN PATRICK, JR., US
[72] BERRY, DAVID ARTHUR, US
[72] BRIGGS, TIMOTHY F., US
[72] BUCKBINDER, LEONARD, US
[72] KIM, MI-JEONG, US
[72] LIANG, ANNA, US
[72] PANDIAN, ANUSHYA, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US
[85] 2022-05-31
[86] 2020-12-04 (PCT/US2020/063307)
[87] (WO2021/113635)
[30] US (62/944,258) 2019-12-05
[30] US (63/074,770) 2020-09-04

[21] **3,163,531**
[13] A1

[51] **Int.Cl. A61K 31/4709 (2006.01) C07D 209/52 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **HDAC INHIBITOR SOLID STATE FORMS**
[54] **FORMES A L'ETAT SOLIDE D'INHIBITEUR DE HDAC**
[72] DENG, XIAOHU, US
[72] JONES, STEWART, US
[72] SLACK, DAVID, US
[71] VIRACTA SUBSIDIARY, INC., US
[85] 2022-05-31
[86] 2020-12-04 (PCT/US2020/063387)
[87] (WO2021/113694)
[30] US (62/944,246) 2019-12-05

[21] **3,163,533**
[13] A1

[51] **Int.Cl. G06N 3/08 (2006.01) G06N 20/00 (2019.01) E21B 47/10 (2012.01) E21B 47/14 (2006.01) G06F 17/18 (2006.01)**
[25] EN
[54] **SPECTRAL ANALYSIS, MACHINE LEARNING, AND FRAC SCORE ASSIGNMENT TO ACOUSTIC SIGNATURES OF FRACKING EVENTS**
[54] **ANALYSE SPECTRALE, APPRENTISSAGE AUTOMATIQUE ET ATTRIBUTION DE SCORE DE FRACTURATION A DES SIGNATURES ACOUSTIQUES D'EVENEMENTS DE FRACTURATION**
[72] THOMPSON, REID DANIEL, US
[72] ROSE, JEFFREY NEAL, US
[72] ROSE, JONATHAN SWANSON, US
[71] ORIGIN ROSE LLC, US
[85] 2022-05-31
[86] 2020-12-10 (PCT/US2020/064294)
[87] (WO2021/119300)
[30] US (62/945,929) 2019-12-10
[30] US (62/945,949) 2019-12-10
[30] US (62/945,953) 2019-12-10
[30] US (62/945,957) 2019-12-10
[30] US (63/058,534) 2020-07-30
[30] US (63/058,548) 2020-07-30

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[21] **3,163,536**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 43/30 (2006.01) G01V 1/28 (2006.01) G01V 1/30 (2006.01) G01V 1/42 (2006.01)**

[25] EN

[54] **SPECTRAL ANALYSIS AND MACHINE LEARNING TO DETECT OFFSET WELL COMMUNICATION USING HIGH FREQUENCY ACOUSTIC OR VIBRATION SENSING**

[54] **ANALYSE SPECTRALE ET APPRENTISSAGE AUTOMATIQUE POUR DETECTER UNE COMMUNICATION AVEC UN Puits DE Limite Par DETECTION ACOUSTIQUE OU DE VIBRATIONS HAUTE FREQUENCE**

[72] ROSE, JEFFREY NEAL, US
[72] ROSE, JONATHAN SWANSON, US
[71] ORIGIN ROSE LLC, US
[85] 2022-05-31
[86] 2020-12-10 (PCT/US2020/064314)
[87] (WO2021/119313)
[30] US (62/945,929) 2019-12-10
[30] US (62/945,949) 2019-12-10
[30] US (62/945,953) 2019-12-10
[30] US (62/945,957) 2019-12-10
[30] US (63/058,534) 2020-07-30
[30] US (63/058,548) 2020-07-30

[21] **3,163,539**
[13] A1

[51] **Int.Cl. B33Y 70/00 (2020.01) B22F 9/08 (2006.01) C22C 33/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/12 (2006.01) C22C 38/32 (2006.01)**

[25] EN

[54] **METAL POWDER FOR ADDITIVE MANUFACTURING**

[54] **POUDRE DE METAL POUR FABRICATION D'ADDITIFS**

[72] SANCHEZ PONCELA, MANUEL, ES
[72] VAN STEENBERGE, NELE, BE
[72] GATTI, FLORENCIA, ES
[72] RODRIGUEZ, SANDRA, ES
[71] ARCELORMITTAL, LU
[85] 2022-05-31
[86] 2020-12-18 (PCT/IB2020/062159)
[87] (WO2021/124229)
[30] IB (PCT/IB2019/061070) 2019-12-19

[21] **3,163,541**
[13] A1

[51] **Int.Cl. A61B 17/02 (2006.01) A61B 17/128 (2006.01) A61B 17/94 (2006.01)**

[25] EN

[54] **TISSUE TRACTION DEVICES, SYSTEMS, AND METHODS**

[54] **DISPOSITIFS, SYSTEMES, ET PROCEDES DE TRACTION DE TISSU**

[72] LEE, DANNY, US
[72] UNGER, JOHN, US
[72] SLUTI, ANNE, US
[72] LALIBERTE, KATHLEEN M., US
[72] RIAZ, TALHA, US
[72] ANDREOTTI, TRACY, US
[72] SIM, ROUTH, US
[72] RODRIGUEZ SALAZAR, JUAN C., US
[72] RIEDEL, CAROLINE, US
[72] GARCIA-CORDERO, JOSE L., US
[72] WALES, RYAN V., US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-06-01
[86] 2020-12-01 (PCT/US2020/062691)
[87] (WO2021/113232)
[30] US (62/943,885) 2019-12-05

[21] **3,163,544**
[13] A1

[51] **Int.Cl. C21D 1/18 (2006.01) C21D 6/02 (2006.01) C21D 9/00 (2006.01)**

[25] EN

[54] **IRON-BASED HIGH CORROSION AND WEAR RESISTANCE ALLOYS**

[54] **ALLIAGES A HAUTE RESISTANCE A LA CORROSION ET A L'USURE A BASE DE FER**

[72] EIBL, CAMERON JACOB, US
[71] OERLIKON METCO (US) INC., US
[85] 2022-06-01
[86] 2020-12-01 (PCT/US2020/062714)
[87] (WO2021/126518)
[30] US (62/949,761) 2019-12-18

[21] **3,163,549**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 47/64 (2017.01) A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61P 37/00 (2006.01) C07K 14/47 (2006.01) C07K 14/74 (2006.01)**

[25] EN

[54] **PEPTIDE-MHC II PROTEIN CONSTRUCTS AND USES THEREOF**

[54] **CONSTRUCTIONS PROTEIQUES DE PEPTIDE-CMH II ET LEURS UTILISATIONS**

[72] MACDONALD, DOUGLAS, US
[72] BUCKLER, DAVID, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-06-01
[86] 2020-12-02 (PCT/US2020/062801)
[87] (WO2021/113297)
[30] US (62/942,344) 2019-12-02

[21] **3,163,550**
[13] A1

[51] **Int.Cl. B02C 18/22 (2006.01) B02C 18/06 (2006.01) B02C 18/18 (2006.01) B02C 18/24 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR A CHIPPER ASSEMBLY**

[54] **APPAREIL ET PROCEDE ASSOCIES A UN ENSEMBLE DECHIQUETEUSE**

[72] ANDERSON, NATHAN, US
[71] ASTEC INDUSTRIES, INC., US
[85] 2022-06-01
[86] 2020-12-03 (PCT/US2020/063061)
[87] (WO2021/113476)
[30] US (62/942,951) 2019-12-03

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[21] **3,163,553**
[13] A1

[51] **Int.Cl. B29B 9/14 (2006.01) C08J 3/22 (2006.01) C08J 5/04 (2006.01) C08J 5/06 (2006.01) C08K 7/02 (2006.01) C08K 9/04 (2006.01) C08K 9/08 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01)**

[25] EN

[54] **KENAF-POLYOLEFIN COMPOSITES AND METHODS OF MAKING**

[54] **COMPOSITES KENAF-POLYOLEFINE ET PROCEDES DE PREPARATION**

[72] KILLINGSWORTH, SHARINA, US

[71] KILLINGSWORTH, SHARINA, US

[85] 2022-06-01

[86] 2020-12-04 (PCT/US2020/063250)

[87] (WO2021/113602)

[30] US (62/943,634) 2019-12-04

[21] **3,163,554**
[13] A1

[51] **Int.Cl. F16J 15/02 (2006.01) G01L 1/04 (2006.01)**

[25] EN

[54] **SENSOR-EMBEDDED GASKET FOR REAL-TIME MONITORING**

[54] **JOINT D'ETANCHEITE A CAPTEURS INTEGRES DE SURVEILLANCE EN TEMPS REEL**

[72] NORMAN, DALE, US

[72] PHAN, CUONG, US

[71] LGC US ASSET HOLDINGS, LLC, US

[85] 2022-06-01

[86] 2020-12-04 (PCT/US2020/063292)

[87] (WO2021/113629)

[30] US (62/943,452) 2019-12-04

[30] US (17/111,057) 2020-12-03

[21] **3,163,556**
[13] A1

[51] **Int.Cl. A61K 31/58 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **A 19-NOR C3,3-DISUBSTITUTED C21-N-PYRAZOLYL STEROID AND METHODS OF USE THEREOF**

[54] **STEROIDE C21-N-PYRAZOLYL 19-NOR C3,3-DISUBSTITUE ET SES METHODES D'UTILISATION**

[72] KANES, STEPHEN JAY, US

[72] DOHERTY, JAMES J., US

[72] GUNDUZ-BRUCE, HANDAN, US

[72] JONAS, JEFFREY M., US

[72] LASSER, ROBERT ALFONSO, US

[71] SAGE THERAPEUTICS, INC., US

[85] 2022-06-01

[86] 2020-12-05 (PCT/US2020/063507)

[87] (WO2021/113786)

[30] US (62/944,144) 2019-12-05

[21] **3,163,565**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**

[25] EN

[54] **METHOD AND KIT FOR DETECTION OF POLYNUCLEOTIDE**

[54] **PROCEDE ET KIT DE DETECTION D'UN POLYNUCLEOTIDE**

[72] CHAKRABORTY, DEBOJYOTI, IN

[72] MAITI, SOUVIK, IN

[72] AZHAR, MOHAMMAD, IN

[72] PHUTELA, RHYTHM, IN

[72] SHARMA, NAMRATA, IN

[72] SINHA, DIPANJALI, IN

[72] SHARMA, SAUMYA, IN

[72] MISHRA, ARPIT, IN

[72] ANSARI, ASGAR HUSSAIN, IN

[71] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN

[85] 2022-05-31

[86] 2020-12-01 (PCT/IN2020/050993)

[87] (WO2021/111466)

[30] IN (201911049432) 2019-12-02

[30] IN (202011013418) 2020-03-27

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[21] **3,161,079**
[13] A1

[51] **Int.Cl. B60K 11/06 (2006.01) B60F 5/00 (2006.01) B60K 13/02 (2006.01)**
[25] EN
[54] **UTILITY VEHICLE**
[54]
[72] HOUKOM, AUSTIN L., US
[72] SCHOUNARD, KYLE J., US
[72] HICKE, DAVID J., US
[72] PETERSON, SHAWN D., US
[72] ELLEFSON, TRAVIS J., US
[71] POLARIS INDUSTRIES INC., US
[22] 2016-05-04
[41] 2017-06-10
[62] 2,928,849
[30] US (14/965226) 2015-12-10

[21] **3,161,080**
[13] A1

[25] EN
[54] **BIODEGRADABLE POLYMERIC COMPOSITIONS, METHODS OF PREPARATION AND USES THEREOF**
[54]
[72] SINTOV, AMNON, IL
[71] B.G. NEGEV TECHNOLOGIES AND APPLICATIONS LTD., AT BEN-GURION UNIVERSITY, IL
[22] 2020-12-03
[41] 2020-12-03
[62] 3,160,092
[30] US (62/943,824) 2019-12-05

[21] **3,161,127**
[13] A1

[51] **Int.Cl. C12N 15/37 (2006.01) C07K 14/025 (2006.01) C12N 7/01 (2006.01) C12N 15/863 (2006.01) C12N 15/87 (2006.01)**
[25] EN
[54] **VACCINES FOR HUMAN PAPILLOMA VIRUS AND METHODS FOR USING THE SAME**
[54]
[72] WEINER, DAVID B., US
[72] YAN, JIAN, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[22] 2011-10-12
[41] 2013-04-18
[62] 2,848,658

[21] **3,161,131**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 40/04 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TRADING AT A PRICE WITHIN A SPREAD MARKET**
[54]
[72] SWEETING, MICHAEL, US
[72] LUTNICK, HOWARD W., US
[72] NOVIELLO, JOSEPH, US
[71] BGC PARTNERS L.P., US
[22] 2004-03-23
[41] 2004-09-24
[62] 2,461,768
[30] US (10/397,109) 2003-03-24

[21] **3,161,148**
[13] A1

[51] **Int.Cl. G06F 1/16 (2006.01) G06Q 20/20 (2012.01) G06K 7/01 (2006.01) G06K 7/08 (2006.01) G06K 7/10 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **POINT-OF-SALE SYSTEM**
[54]
[72] EDWARDS, TROY, US
[72] SKOOG, LUCAS, US
[72] BABU, AMISH, US
[72] DOROGUSKER, JESSE, US
[71] BLOCK, INC., US
[22] 2013-04-17
[41] 2013-10-24
[62] 3,077,485
[30] US (61/635,236) 2012-04-18
[30] US (13/797,548) 2013-03-12
[30] US (13/798,691) 2013-03-13

[21] **3,161,158**
[13] A1

[51] **Int.Cl. G06F 1/16 (2006.01) G06Q 20/20 (2012.01) G06K 7/01 (2006.01) G06K 7/08 (2006.01) G06K 7/10 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **POINT-OF-SALE SYSTEM**
[54] **SYSTEME DE POINT DE VENTE**
[72] EDWARDS, TROY, US
[72] SKOOG, LUCAS, US
[72] BABU, AMISH, US
[72] DOROGUSKER, JESSE, US
[71] BLOCK, INC., US
[22] 2013-04-17
[41] 2013-10-24
[62] 3,077,485
[30] US (61/635,236) 2012-04-18
[30] US (13/797,548) 2013-03-12
[30] US (13/798,691) 2013-03-13

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[21] **3,161,165**
[13] A1

[51] **Int.Cl. B60P 7/04 (2006.01) B60J 11/04 (2006.01) E04H 15/54 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM OF IMPROVED TARP TENSIONING**

[54] **METHODE ET SYSTEME DESTINES A AMELIORER LA TENSION DANS UNE TOILE**

[72] BESHIRI, ILIR, CA

[72] NEUFELD, JOHAN, CA

[71] GLIDER SYSTEM IP INC., CA

[22] 2015-07-31

[41] 2017-01-31

[62] 2,899,048

[30] US (14/814,887) 2015-07-31

[21] **3,161,184**
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 20/12 (2012.01)**

[25] EN

[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**

[54]

[72] ZHANG, YI, CN

[71] 10353744 CANADA LTD., CA

[22] 2015-05-28

[41] 2016-11-03

[62] 3,082,158

[30] CN (201510220468.6) 2015-04-30

[21] **3,161,189**
[13] A1

[51] **Int.Cl. G06Q 20/04 (2012.01) G06Q 10/02 (2012.01) G06Q 20/32 (2012.01) G06F 21/60 (2013.01) G07B 15/00 (2011.01) H04L 67/55 (2022.01)**

[25] EN

[54] **A METHOD AND SYSTEM FOR DISTRIBUTING ELECTRONIC TICKETS WITH VISUAL DISPLAY FOR VERIFICATION**

[54]

[72] BERGDAL, MICAH, US

[72] GRASSER, MATHEW, US

[72] GUESS, CHRISTOPHER, US

[72] IHM, NICHOLAS, US

[72] KRUECKEBERG, SAMUEL, US

[72] VALYER, GREGORY, US

[71] BYTEMARK, INC., US

[22] 2012-05-18

[41] 2013-01-10

[62] 2,836,470

[30] US (13/110,709) 2011-05-18

[21] **3,161,194**
[13] A1

[51] **Int.Cl. A01C 7/20 (2006.01) A01B 73/02 (2006.01) A01C 5/06 (2006.01)**

[25] EN

[54] **SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS**

[54] **APPAREIL, SYSTEMES ET PROCEDES DE DISTRIBUTION DE GRAINES**

[72] HODEL, JEREMY, US

[72] RADTKE, IAN R., US

[71] PRECISION PLANTING LLC, US

[22] 2012-09-26

[41] 2013-04-04

[62] 3,095,378

[30] US (61/539,786) 2011-09-27

[21] **3,161,210**
[13] A1

[51] **Int.Cl. E01H 4/02 (2006.01) B60N 2/75 (2018.01) B60K 11/00 (2006.01) B60K 37/06 (2006.01) B60N 2/38 (2006.01) B60N 2/39 (2006.01) B60R 1/02 (2006.01)**

[25] EN

[54] **SNOW GROOMER OR OTHER TRACKED VEHICLE AND SYSTEMS THEREFOR**

[54]

[72] THIBAUT, JONATHAN, CA

[72] KIRCHMAIR, MARTIN, CA

[72] PELLETIER, MICHEL, CA

[72] HEBERT, PATRICK, CA

[72] GENDRON, FRANCIS, CA

[72] AUTHIER, ARIANE, CA

[72] BERGERON, STEPHANE, CA

[72] PAQUET, FRANCOIS, CA

[71] PRINOTH LTD., CA

[22] 2014-11-18

[41] 2015-06-18

[62] 2,933,662

[30] US (61/914,837) 2013-12-11

[21] **3,161,295**
[13] A1

[51] **Int.Cl. C12N 7/01 (2006.01) C12N 7/00 (2006.01)**

[25] EN

[54] **NOVEL VACCINE COMPOSITIONS FOR PORCINE EPIDEMIC DIARRHEA VIRUS AND PORCINE DELTACORONAVIRUS**

[54]

[72] MARX, JACQUELINE GAYLE, US

[72] HARDHAM, JOHN MORGAN, US

[72] DOMINOWSKI, PAUL J., US

[72] RAPP GABRIELSON, VICKI JON, US

[72] BALASCH SANUY, MONICA, US

[72] CABANA SUMSI, MARTA, US

[72] PLAJA DILME, LAIA, US

[72] URNIZA HOSTENCH, ALICIA, US

[72] ROMERO GALINDO, OSCAR, US

[71] ZOETIS SERVICES LLC, US

[22] 2015-07-08

[41] 2016-01-14

[62] 2,954,632

[30] US (62/023,302) 2014-07-11

[30] US (62/037,403) 2014-08-14

[30] US (62/046,256) 2014-09-05

[30] US (62/093,657) 2014-12-18

[30] US (62/102,712) 2015-01-13

[30] US (62/115,806) 2015-02-13

[30] US (62/121,193) 2015-02-26

[30] US (62/143,412) 2015-04-06

[21] **3,161,329**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **OPTIMIZATION OF ANTIBODIES THAT BIND LYMPHOCYTE ACTIVATION GENE-3 (LAG-3), AND USES THEREOF**

[54] **OPTIMISATION D'ANTICORPS SE LIANT A LA PROTEINE LAG-3 EXPRIMEE PAR LE GENE 3 D'ACTIVATION DES LYMPHOCYTES, ET LEURS UTILISATIONS**

[72] LONBERG, NILS, US

[72] SRINIVASAN, MOHAN, US

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[22] 2013-07-02

[41] 2014-01-09

[62] 2,877,746

[30] US (61/667,058) 2012-07-02

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,161,358**
[13] A1

[25] EN
[54] **NOVEL FATTY ACID
DESATURASES AND ELONGASES
AND USES THEREOF**
[54] **DESATURASES ET ELONGASES
D'ACIDE GRAS NOVATRICES ET
UTILISATIONS ASSOCIEES**
[72] BAUER, JORG, DE
[72] NAPIER, JOHNATHAN A., GB
[72] SAYANOVA, OLGA, GB
[71] BASF PLANT SCIENCE COMPANY
GMBH, DE
[22] 2010-07-15
[41] 2011-01-20
[62] 3,037,072
[30] US (61/226,301) 2009-07-17
[30] EP (09165752.8) 2009-07-17

[21] **3,161,375**
[13] A1

[25] EN
[54] **PRODUCTION OF DHA AND
OTHER LC-PUFAS IN PLANTS**
[54]
[72] BEVAN, SCOTT, US
[72] GACHOTTE, DANIEL, US
[72] KUNER, JERRY M., US
[72] MERLO, ANN OWENS, US
[72] METZ, JAMES G., US
[72] ROESSLER, PAUL GORDON, US
[72] WALSH, TERENCE A., US
[71] DOW AGROSCIENCES LLC, US
[71] DSM IP ASSETS B.V., NL
[22] 2011-05-17
[41] 2011-11-24
[62] 2,799,559
[30] US (61/345,537) 2010-05-17

[21] **3,161,423**
[13] A1

[51] **Int.Cl. B62D 33/04 (2006.01) B60R
7/06 (2006.01) B65D 21/032 (2006.01)**
[25] EN
[54] **STACKABLE CONTAINER
ASSEMBLY**
[54] **ASSEMBLAGE DE CONTENANTS
EMPILABLES**
[72] LABBE, CHRISTIAN, CA
[72] MERCIER, MATHIEU, CA
[72] FOURNIER, ERIC, CA
[71] BOMBARDIER RECREATIONAL
PRODUCTS INC., CA
[22] 2016-12-22
[41] 2017-06-22
[62] 2,952,711
[30] US (62/270,983) 2015-12-22

[21] **3,161,431**
[13] A1

[51] **Int.Cl. C12N 15/13 (2006.01) C07K
16/12 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES
USING ANTI-PSEUDOMONAS PSL
AND PCR BINDING
MOLECULES**
[54]
[72] DIGIANDOMENICO, ANTONIO, US
[72] WARRENER, PAUL, US
[72] STOVER, CHARLES, US
[72] SELLMAN, BRET, US
[72] MINTER, RALPH, GB
[72] GUILLARD, SANDRINE, GB
[72] RUST, STEVEN, GB
[72] TOMICH, MLADEN, US
[72] VENKATRAMAN, VIGNESH, GB
[72] VARKEY, REENA, US
[72] PENG, LI, US

[72] DAMSCHRODER, MELISSA, US
[72] CHOWDHURY, PARTHA, US
[72] DIMASI, NAZZARENO, US
[72] FLEMING, RYAN, US
[72] BEZABEH, BINYAM, US
[72] GAO, CHANGSHOU, US
[72] RAINEY, GODFREY, US
[72] GAO, CUIHUA, US
[71] MEDIMMUNE LIMITED, GB
[22] 2012-11-06
[41] 2013-05-16
[62] 2,854,817
[30] US (61/556,645) 2011-11-07
[30] US (61/625,299) 2012-04-17
[30] US (61/697,585) 2012-09-06

[21] **3,161,435**
[13] A1

[51] **Int.Cl. A61M 1/06 (2006.01)**
[25] EN
[54] **METHODS, APPARATUS, AND
SYSTEM FOR EXPRESSION OF
HUMAN BREAST MILK**
[54] **PROCEDES, APPAREIL ET
SYSTEME POUR L'EXTRACTION
DE LAIT MATERNEL HUMAIN**
[72] ALVAREZ, JANICA B., US
[72] ALVAREZ, JEFFERY B., US
[72] GOLDENBERG, ALEX, US
[72] STAHLER, GREG, US
[71] WILLOW INNOVATIONS, INC., US
[22] 2015-02-06
[41] 2015-08-13
[62] 2,938,435
[30] US (61/937,027) 2014-02-07

[21] **3,161,453**
[13] A1

[25] EN
[54] **SYNBIOTIC BACTERIAL
COMPOSITION AND METHODS
OF PRODUCING AND
SCREENING FOR THE
COMPOSITION**
[54] **COMPOSITION BACTERIENNE
SYMBIOTIQUE ET PROCEDES DE
PRODUCTION ET DE SELECTION
DE LA COMPOSITION**
[72] O'HARA, STEPHEN PATRICK, GB
[72] RASTALL, ROBERT, GB
[71] OPTIBIOTIX LIMITED, GB
[22] 2014-11-05
[41] 2015-05-14
[62] 2,929,676
[30] GB (1319531.8) 2013-11-05

[21] **3,161,456**
[13] A1

[51] **Int.Cl. B01D 27/08 (2006.01)**
[25] EN
[54] **FILTER APPARATUS WITH
EJECTION ARRANGEMENT**
[54] **APPAREIL DE FILTRE A
AGENCEMENT D'EJECTION**
[72] BEARD, JOHN H., US
[72] SCHWEITZER, STEPHEN, US
[71] BALDWIN FILTERS, INC., US
[22] 2013-01-23
[41] 2013-08-01
[62] 2,862,822
[30] US (13/360,181) 2012-01-27

[21] **3,161,483**
[13] A1

[51] **Int.Cl. H04L 65/611 (2022.01) H04L
65/65 (2022.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR
TRANSMITTING AND
RECEIVING MULTIMEDIA
CONTENT**
[54]
[72] BAE, JAE-HYEON, KR
[72] PARK, KYUNG-MO, KR
[72] SO, YOUNG-WAN, KR
[72] YANG, HYUN-KOO, KR
[72] HWANG, SUNG-HEE, KR
[71] SAMSUNG ELECTRONICS CO.,
LTD., KR
[22] 2016-01-19
[41] 2016-07-28
[62] 2,974,341
[30] KR (10-2015-0008946) 2015-01-19
[30] KR (10-2015-0015547) 2015-01-30

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[21] **3,161,514**
[13] A1

[25] EN
[54] **PASSIVE ARC CONTROL WITH SEQUESTERED PHASES IN A VERTICAL BUS SYSTEM OF A MOTOR CONTROL CENTER**

[54]
[72] ROMERO LEGORRETA, GERMAN, MX
[72] FABER, TIM, US
[72] RICHARDS, WALTER J., US
[71] SCHNEIDER ELECTRIC USA, INC., US
[22] 2015-11-13
[41] 2016-06-02
[62] 2,912,085
[30] US (14/557,817) 2014-12-02

[21] **3,161,521**
[13] A1

[25] EN
[54] **LIGHT PROJECTOR USING AN ACOUSTO-OPTICAL CONTROL DEVICE**

[54] **PROJECTEUR DE LUMIERE UTILISANT UN DISPOSITIF DE COMMANDE ACOUSTO-OPTIQUE**

[72] GRATA, JEREMY A., US
[72] WELCH, HUDSON, US
[72] HUSSEIN, MARWAN, US
[71] MAGIC LEAP INC., US
[22] 2015-12-29
[41] 2016-07-07
[62] 2,971,613
[30] US (62/097,563) 2014-12-29

[21] **3,161,583**
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06F 21/74 (2013.01) H04L 9/40 (2022.01) G06F 9/445 (2018.01)**

[25] EN
[54] **MULTI-USE NEAR FIELD COMMUNICATION FRONT END ON A POINT OF SALE SYSTEM**

[54] **LOGICIEL FRONTAL DE COMMUNICATION EN CHAMP PROCHE A USAGES MULTIPLES DESTINE A UN SYSTEME DE POINTS DE VENTE**

[72] PATWARDHAN, KETAN, US
[72] GOPALAKRISHNAN, NARAYANAN, US
[72] PAN, VICTOR, US
[72] CASTILLO, JAMES, US
[71] CLOVER NETWORK, LLC, US
[22] 2020-03-25
[41] 2020-12-14
[62] 3,077,054
[30] US (16/442,210) 2019-06-14

[21] **3,161,585**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A23L 33/135 (2016.01)**

[25] EN
[54] **NOVEL LACTOBACILLUS HAVING VARIOUS FUNCTIONS AND USE THEREOF FOR PREVENTION OR TREATMENT OF LIVER INJURY, INTESTINAL DAMAGE, ALLERGY, INFLAMMATION OR OBESITY**

[54]
[72] KIM, DONG HYUN, KR
[72] HAN, MYUNG JOO, KR
[71] UNIVERSITY-INDUSTRY COOPERATION GROUP OF KYUNGHEE UNIVERSITY, KR
[71] NAVIPHARM CO., LTD., KR
[22] 2016-09-07
[41] 2017-03-23
[62] 2,998,841
[30] KR (10-2015-0130124) 2015-09-15
[30] KR (10-2016-0005018) 2016-01-15

[21] **3,161,588**
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06F 21/74 (2013.01) H04L 9/40 (2022.01) G06F 9/445 (2018.01)**

[25] EN
[54] **MULTI-USE FIELD COMMUNICATION FRONT END ON A POINT OF SALE SYSTEM**

[54]
[72] PATWARDHAN, KETAN, US
[72] GOPALAKRISHNAN, NARAYANAN, US
[72] PAN, VICTOR, US
[72] CASTILLO, JAMES, US
[71] CLOVER NETWORK, LLC, US
[22] 2018-01-30
[41] 2019-03-07
[62] 2,993,692
[30] US (15/698,462) 2017-09-07

[21] **3,161,591**
[13] A1

[25] EN
[54] **SWELLABLE COMPOSITIONS, ARTICLES FORMED THEREFROM, AND METHODS OF MANUFACTURE THEREOF**

[54] **COMPOSITIONS POUVANT GONFLER, ARTICLES EN ETANT CONSTITUES ET LEURS PROCEDES DE PRODUCTION**

[72] ZHAO, LEI, US
[72] XU, ZHIYUE, US
[72] GOODSON, JAMES EDWARD, US
[72] FURLAN, WAYNE R., US
[71] BAKER HUGHES INCORPORATED, US
[22] 2015-10-09
[41] 2016-05-26
[62] 2,966,519
[30] US (14/542,695) 2014-11-17

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,161,594**
[13] A1

[51] **Int.Cl. E04C 3/04 (2006.01) E04B 2/58 (2006.01) E04C 3/32 (2006.01) E04G 5/06 (2006.01) E04G 7/04 (2006.01) F16B 7/04 (2006.01) F16B 9/00 (2006.01) F16L 3/08 (2006.01) F16L 3/12 (2006.01)**

[25] EN
[54] **BRACKET**
[54]
[72] LAKE, MAURICE, AU
[71] STONELAKE PTY. LTD., AU
[22] 2016-03-08
[41] 2016-09-15
[62] 2,979,005
[30] AU (2015900856) 2015-03-11

[21] **3,161,608**
[13] A1

[25] EN
[54] **FATTY ACID ESTERS AGAINST INFECTIONS IN FERMENTATIONS**
[54] **ESTERS D'ACIDES GRAS PERMETTANT DE LUTTER CONTRE DES INFECTIONS DANS DES FERMENTATIONS**
[72] OTTO, ROEL, NL
[72] RAMIREZ, ALDANA MARIEL, NL
[72] EELDERINK, JENNY, NL
[71] PURAC BIOCHEM B.V., NL
[22] 2017-09-05
[41] 2018-03-15
[62] 3,034,550
[30] EP (16187414.4) 2016-09-06

[21] **3,161,631**
[13] A1

[25] EN
[54] **MACHINE LEARNING BASED DATABASE SEARCH AND KNOWLEDGE MINING**
[54]
[72] WAN, BO, CA
[72] WAN, MATTHEW, CA
[72] WANG, JON, CA
[71] BANK OF MONTREAL, CA
[22] 2020-11-19
[41] 2021-05-22
[62] 3,100,009
[30] US (62/939,201) 2019-11-22

[21] **3,161,632**
[13] A1

[51] **Int.Cl. A61B 17/12 (2006.01)**

[25] EN
[54] **AN EMBOLISATION DEVICE**
[54] **DISPOSITIF D'EMBOLISATION**
[72] MULLINS, LIAM, IE
[72] FORDE, COLIN, IE
[72] ALLEN, WAYNE, IE
[72] SHERIDAN, WILLIAM, IE
[72] GILSON, PAUL, IE
[71] EMBO MEDICAL LIMITED, IE
[22] 2015-09-15
[41] 2016-03-24
[62] 3,025,793
[30] EP (14184807.7) 2014-09-15
[30] EP (15151922.0) 2015-01-21
[30] EP (15175292.0) 2015-07-03

[21] **3,161,647**
[13] A1

[25] EN
[54] **A SYSTEM FOR PAYMENT VIA ELECTRONIC WALLET**
[54] **SYSTEME DE PAIEMENT PAR L'INTERMEDIAIRE D'UN PORTEFEUILLE ELECTRONIQUE**
[72] CAMPOS, TOMAS ARIEL, US
[72] MILLER, KEITH, US
[72] LLACH, TERI, US
[72] HARPER, KELLIE D., US
[72] ANSARI, ANSAR, US
[71] BLACKHAWK NETWORK, INC., US
[22] 2012-05-30
[41] 2012-12-06
[62] 2,837,208
[30] US (61/491,791) 2011-05-31
[30] US (61/491,813) 2011-05-31
[30] US (61/496,404) 2011-06-13
[30] US (61/496,397) 2011-06-13

[21] **3,161,682**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) B65G 1/02 (2006.01) B66F 9/00 (2006.01)**

[25] EN
[54] **STORAGE AND RETRIEVAL SYSTEM**
[54]
[72] PANKRATOV, KIRILL K., US
[72] CONRAD, JUERGEN D., US
[72] HSIUNG, ROBERT, US
[72] MACDONALD, EDWARD A., US
[72] JOHNSON, JR. WILLIAM, US
[72] SWEET, LARRY M., US
[71] SYMBOTIC LLC, US
[22] 2016-01-19
[41] 2016-07-21
[62] 2,974,116
[30] US (62/104,531) 2015-01-16
[30] US (62/104,513) 2015-01-16
[30] US (62/104,552) 2015-01-16
[30] US (62/107,135) 2015-01-23
[30] US (14/997,925) 2016-01-18
[30] US (14/997,902) 2016-01-18
[30] US (14/997,892) 2016-01-18

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[21] **3,161,692**

[13] A1

[25] EN
[54] **ELECTROSURGICAL SYSTEM**
[54] **SYSTEME**
ELECTROCHIRURGICAL
[72] FALKENSTEIN, ZORAN, US
[72] CAPPELLO, CHRISTOPHER, J., US
[72] JOHNSON, GARY, M., US
[72] GIANNESCHI, BENJAMIN A., US
[72] TRAN, OLIVIA, J., US
[72] WIXEY, MATTHEW, A., US
[72] PRAVONGVIENGKHAM, KENNII,
US
[72] PRAVONG, BOUN, US
[72] YAWATA, HARUYASU, US
[72] BRUSTAD, JOHN, R., US
[72] COHEN, ADAM, J., US
[72] HILAL, NABIL, US
[72] BECERRA, MATTHEW, M., US
[72] PINGLETON, EDWARD, D., US
[72] HILAL, SAID, S., US
[72] HART, CHARLES, C., US
[72] WIKOFF, CHRIS, R., US
[71] APPLIED MEDICAL RESOURCES
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[41] 2009-10-08
[62] 3,022,982
[30] US (61/041,045) 2008-03-31
[30] US (61/041,012) 2008-03-31
[30] US (61/040,994) 2008-03-31
[30] US (61/040,980) 2008-03-31
[30] US (61/040,957) 2008-03-31
[30] US (61/040,890) 2008-03-31
[30] US (61/040,828) 2008-03-31
[30] US (61/115,756) 2008-11-18

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[71] DAMON MOTORS INC., CA
[22] 2021-03-03
[41] 2021-09-04
[62] 3,127,168
[30] US (62/985,282) 2020-03-04
[30] US (17/146,335) 2021-01-11

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[72] SCHULTZ, STEPHEN L., US
[72] MONACO, JOHN, US
[71] PICTOMETRY INTERNATIONAL
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[22] 2015-01-07
[41] 2015-07-16
[62] 2,935,457
[30] US (61/926,137) 2014-01-10

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[51] **Int.Cl. B64F 5/60 (2017.01) B64C**
39/02 (2006.01)
[25] EN
[54] **UNMANNED AIRCRAFT**
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[72] SCHULTZ, STEPHEN L., US
[72] MONACO, JOHN, US
[71] PICTOMETRY INTERNATIONAL
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[22] 2015-01-07
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BYK-CHEMIE GMBH	3,086,715				

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CINO, MICHAEL	2,896,217	CYTEC INDUSTRIES INC.	2,953,778	DETERMAN, AMY S.	2,800,253
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COMBERBACH, CRAIG	3,053,955	DAMON MOTORS INC.	3,127,168	DONAHUE, RAYMOND J.	3,092,855
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CONTINENTAL REIFEN DEUTSCHLAND GMBH	3,079,896	DAVIES, STEPHEN	2,893,229	DOTSCH, DIANA	3,044,313
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CORKEY, BRITTON KENNETH	3,073,376	DE MORAES, CONSUELO M.	3,101,536	DOWNTON, JON	2,791,694
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		DEPLA, ERIK	2,865,464	DZAFIC, ALMIR	2,947,382
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HAZEN RESEARCH, INC.	2,993,331	INTERNATIONAL INC.	3,067,385	INDENA S.P.A.	2,912,488
HAZEN, WAYNE W.	2,993,331	HONEYWELL		INDENA S.P.A.	2,943,699
HAZLETT, HALEY	2,940,961	INTERNATIONAL INC.	3,070,804	INFANTE, IVONNE	3,075,366
HBI BRANDED APPAREL ENTERPRISES, LLC	2,946,600	HONG, STANLEY S.	3,065,029	INGRAIN, INC.	2,920,525
HE, JUNCHAO	3,080,041	HONG, SUNGRYONG	3,068,513	INGRAM, DARREN E.	2,923,792
HE, JUNCHAO	3,080,539	HONGO, NOBUKO	2,950,713	INOKO, HIDETOSHI	2,931,828
HE, MIKE	3,029,381	HOPKINS, TIMOTHY	2,904,678	INSTITUT NATIONAL DE LA SANTE ET DE LA	
HEDRICH, FRANK	3,072,970	HORTON, CHRISTOPHER V.	2,996,770	RECHERCHE MEDICALE (INSERM)	2,953,259
HEFEI HUALING CO., LTD.	3,068,638	HOSPICES CIVILS DE LYON	2,943,375	INSTITUTO TECNOLOGICO Y DE ESTUDIOS	
HEFEI MIDEA REFRIGERATOR CO., LTD.	3,068,638	HOVES, SABINE	2,938,280	SUPERIORES DE MONTERREY	2,998,291
HEGNER, BJOERN	2,866,907	HOWELL, JENNIFER MARIE	3,092,661	INTERDIGITAL VC HOLDINGS, INC.	3,018,600
HEINZ, LAWRENCE JOSEPH II	3,092,661	HOWGILL, STEPHEN J.	2,917,842	INTERNATIONAL PAPER COMPANY	3,141,734
HELLA GMBH & CO. KGAA	3,111,958	HRUPP, JOZE J.	3,027,607	INTUIT INC.	3,033,862
HELLER, THOMAS	2,947,382	HSU, CHRISTOPHER	3,032,624	INTUIT INC.	3,062,790
HENKEL AG & CO. KGAA	2,837,729	HSU, HAILING	2,856,866	INUI, MASAYUKI	3,071,767
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HICKS, BRUCE J.	3,052,000	HUANG, JIN	3,076,213	IVINSON, DAVID	2,899,033
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HILL, SAMUEL JESTYN	2,953,778	HUBBELL LIGHTING, INC.	2,942,950	JAGANNATHAN, SUDHAKAR	3,051,078
HILTI		HUBER, BENJAMIN	3,063,808	JAKOBOVITS, AYA	2,811,644
AKTIENGESELLSCHAFT	2,945,905	HUBER, JOHANN	2,945,905	JAMES RICHARD SPEARS MD PLLC	3,032,741
HILTUNEN, MARKO	2,924,962	HUBERT, PIERRE-JULIEN	2,954,255	JAMES RICHARD SPEARS MD PLLC	3,032,745
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HINDERLITER, BRANDON NEIL	2,933,444	HUFF, SEAN PATRICK	2,733,865	JAMES, LEWIS G.	2,884,506
HINER, STEPHEN DAVID	2,930,863	HUFTON, JEFFREY RAYMOND	3,090,113	JANK, RUDIGER	2,954,460
HINZ, JOHN A.	2,919,302	HUHTAMAKI, INC.	3,078,077	JANSEN, MAURITS PETRUS MARIA	3,101,536
HIRAI, KATSUYUKI	2,950,713	HUI, RON SHU YUEN	2,891,951	JANSSEN BIOTECH, INC.	2,940,864
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HIRATA, TAKUYA	3,071,767	HUNG, CHENG-HSIANG	3,081,601	JAPAN TOBACCO INC.	3,055,161
HIRMIZ, RAFAT	2,896,217	HUNT, JESSEE	2,803,015	JAPAN TOBACCO INC.	3,074,591
HIROSE, TATSURO	2,935,104	HUNTER, ALAN	2,894,908	JASEMIAN, BABEK	2,904,678
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HOANG, PETER PHUNG MINH	2,900,772	HURWITZ, GIL	2,957,927	JENNINGS, JAY D	3,075,057
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LEE, SUNG CHAN	3,050,865	LIU, WEIMIN	3,075,208	MARS, INCORPORATED	2,903,801
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LG ELECTRONICS INC.	3,068,513	LUXEN, ANDRE	2,958,475	MAUDUIT, MARC	2,894,741
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		MANKIEWICZ GEBR. & CO. (GMBH & CO. KG)	3,072,983		

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ROURE, BENJAMIN	2,791,694	SCHINDLER, RALF	2,866,907		
ROUSSEAU, BENJAMIN	2,932,485	SCHINDLER, WOLFRAM	3,083,152		
ROUSSEAU, CEDRIC	2,902,722	SCHIRALDI, CHIARA	2,943,232		
ROUSSY, JOSEPH WILLIAM	2,923,210	SCHIRLE, ANTON	2,949,169		
		SCHLITTENHARD, JAN	3,078,529		

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SHEN, LINGJIA	2,963,581	STANDISH, BEAU ANTHONY	2,929,319	SWITALA, KENNETH	2,884,990
SHENZHEN BO LI JIAN MEDICINE CO., LTD.	3,042,595	STANFIELD, JAMES RICHARD	3,072,073	SWM LUXEMBOURG S.A.R.L.	2,902,722
SHEPHERD, BENJAMIN	2,848,043	STANISTREET, TIMOTHY F.	3,016,699	SYMBIONYX PHARMACEUTICALS, INC.	3,097,722
SHETTY, PRAJNA	3,107,499	STAUB, RICHARD	2,885,799	SYNARTRO AB	2,974,611
SHI, HAIJIAN	3,073,687	STAUDTE, JONAS	3,084,306	SZALATA, FRANCOIS	2,953,252
SHIELDS-TUTTLE, KIMBERLY	3,113,837	STEALTH BIOTHERAPEUTICS INC.	2,916,497	TAGARE, HEMANT	2,945,058
SHIIMORI, FUSAE	2,947,382	STEEG, RICHARD	3,073,687	TAGLIAFERRI, SANTE	2,925,864
SHIINA, TAKASHI	2,931,828	STEENSON, LEO	2,949,533	TAI, KOK-MING	3,087,783
SHIPLEY, GARY STEPHEN	3,074,550	STEFFEN, TIMO	3,072,983	TAI, YU-CHONG	2,825,550
SHUSTER, JEFF R.	3,078,222	STEIGENBERGER, HANS	3,090,023	TAIZHOU HUALI PLASTIC CO., LTD.	3,081,107
SIDEL CANADA INC.	2,949,877	STEPHENS, PAUL	2,889,844	TAJIRI, GORDON	3,074,550
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SINGH, KRISAN	2,983,291	STORZ, MATTHIAS	3,072,970	TANG, FUMIO	2,960,454
SIRKAR, RHEA	3,074,810	STRANER, STEFAN	2,897,251	TAP WORLDWIDE, LLC	2,887,414
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SKODA, ERIN M.	2,924,527	STRATER, JAY	3,072,203	TARCAU, BENONE	3,087,783
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SMIT, ARJAN	2,947,839	STRONG INDUSTRIES, INC.	3,049,986	TECHMAH MEDICAL LLC	3,094,852
SMITH, GARY S.	2,869,969	STRYKER CORPORATION	2,902,640	TECHNICAL INSTITUTE OF PHYSICS AND CHEMISTRY OF THE CHINESE ACADEMY OF SCIENCES	3,075,208
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SMITH, SPENCER	3,114,800	STRYTEN ENERGY LLC	3,051,078	TELECOM ITALIA S.P.A.	2,918,947
SNOWFLAKE INC.	2,939,947	STUART, ADAM	2,917,842	TELEFLEX LIFE SCIENCES LIMITED	3,012,709
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		SUZUMA, TOSHIYUKI	3,073,169		
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TROM, STEVE	3,158,078	VAN DEN DUNGEN,		WANG, LISHUANG	3,163,125
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TURNER, LOUIS	3,162,953	FRANCISCUS	3,158,273	WANG, WENXIN	3,163,070
TURNER, SCOTT	3,163,339	VAN NOSTRUM, CORNELUS		WANG, XIAOFENG	3,163,321
TURNING POINT		FRANCISCUS	3,158,277	WANG, XIAOYAN	3,163,357
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TURPOFF, ANTHONY	3,160,053	VAN STEENBERGE, NELE	3,163,539	WANG, YANLIN	3,163,321
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