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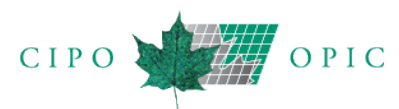
du Bureau des brevets



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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.

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

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

14. Correspondence Procedures

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

Web Link for MOPOP:

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

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

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

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

14. Procédures de correspondance

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

Lien Web pour le RPBB :

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

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

l'exception des jours fériés

- 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

- 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

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

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

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

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

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

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

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

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

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

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

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.

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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.

Notices

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

Trademarks

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

Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Marques de commerce

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

Dessins industriels

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

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

Notices

4. General Information

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

5. Time Period Extensions

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

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

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

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

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

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

4. Renseignements généraux

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

5. Prorogation des délais

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

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

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

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

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

- Tous les samedis et dimanches;
- Nouvel An (1^{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 October 5, 2021 contains applications open to public inspection from September 19, 2021 to September 25, 2021.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 5 octobre 2021 contient les demandes disponibles au public pour consultation pour la période du 19 septembre 2021 au 25 septembre 2021.

Canadian Patents Issued

October 5, 2021

Brevets canadiens délivrés

5 octobre 2021

[11] **2,778,604**
[13] C

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 47/02 (2006.01)**

[25] EN

[54] **ACTIVE AGENT LOADED UNIFORM, RIGID, SPHERICAL, NANOPOROUS CALCIUM PHOSPHATE PARTICLES AND METHODS OF MAKING AND USING THE SAME**

[54] **PARTICULES DE PHOSPHATE DE CALCIUM UNIFORMES, RIGIDES, SPHERIQUES, NANOPOREUSES CHARGEES DE PRINCIPE ACTIF ET LEURS METHODES DE FABRICATION ET D'UTILISATION**

[72] OGAWA, TETSURO, US

[72] YAMAMOTO, AKIRA, JP

[73] LABORATORY SKIN CARE, INC., US

[85] 2012-04-23

[86] 2009-09-23 (PCT/US2009/058108)

[87] (WO2010/039560)

[11] **2,796,822**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01)**

[25] EN

[54] **MEASUREMENT AND COMPARISON OF IMMUNE DIVERSITY BY HIGH-THROUGHPUT SEQUENCING**

[54] **MESURE ET COMPARAISON DE DIVERSITE IMMUNITAIRE PAR SEQUENCAGE A HAUT DEBIT**

[72] QUAKE, STEPHEN R., US

[72] WEINSTEIN, JOSHUA, US

[72] JIANG, NING, US

[72] FISHER, DANIEL S., US

[73] THE BOARD OF TRUSTEES OF THE LELAND STANDFORD JUNIOR UNIVERSITY, US

[85] 2012-10-17

[86] 2011-05-06 (PCT/US2011/035507)

[87] (WO2011/140433)

[30] US (61/395,116) 2010-05-07

[11] **2,801,110**
[13] C

[51] **Int.Cl. C12Q 1/6813 (2018.01) C12Q 1/6834 (2018.01) C40B 30/00 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **LUNG CANCER BIOMARKERS AND USES THEREOF**

[54] **BIOMARQUEURS DU CANCER DU POUMON ET LEURS UTILISATIONS**

[72] WILCOX, SHERI, US

[72] AYERS, DEBORAH, US

[72] JANJIC, NEBOJSA, US

[72] GOLD, LARRY, US

[72] RIEL-MEHAN, MICHAEL, US

[72] JARVIS, THALE, US

[73] SOMALOGIC, INC., US

[85] 2012-11-28

[86] 2011-07-11 (PCT/US2011/043595)

[87] (WO2012/006632)

[30] US (61/363,122) 2010-07-09

[30] US (61/444,947) 2011-02-21

[11] **2,808,113**
[13] C

[51] **Int.Cl. B65D 30/10 (2006.01) B65D 33/06 (2006.01)**

[25] EN

[54] **PRODUCE PACKAGE AND METHOD FOR DISPLAYING PRODUCE FOR SALE**

[54] **EMBALLAGE POUR FRUITS ET LEGUMES FRAIS ET PROCEDE EN VUE DE LEUR PRESENTATION A LA VENTE**

[72] SHORT, PHILIP R., CA

[73] VORTEX PACKAGING NIAGARA INC., CA

[86] (2808113)

[87] (2808113)

[22] 2013-02-27

[30] US (13/776,198) 2013-02-25

[11] **2,835,360**
[13] C

[51] **Int.Cl. A61F 13/02 (2006.01)**

[25] EN

[54] **TISSUE HEALING**

[54] **CICATRISATION TISSULAIRE**

[72] HARTWELL, SAMANTHA DAWN, GB

[72] HUDSON, DONALD ANTHONY, ZA

[73] SMITH & NEPHEW PLC, GB

[85] 2013-11-07

[86] 2011-11-02 (PCT/GB2011/001553)

[87] (WO2012/156655)

[30] GB (1108229.4) 2011-05-17

[11] **2,836,920**
[13] C

[51] **Int.Cl. E06B 9/26 (2006.01) E06B 3/66 (2006.01) E06B 3/67 (2006.01)**

[25] EN

[54] **VENETIAN TYPE BLIND OPERATOR**

[54] **MECANISME D'ACTIONNEMENT DE STORES DE TYPE VENITIEN**

[72] KIRK, DOUGLAS A., US

[72] WILLIAMSON, MICHAEL, US

[72] WALSH, JOHN H., US

[72] DEW, DANIEL, US

[73] SUNRISE WINDOWS, LLC, US

[86] (2836920)

[87] (2836920)

[22] 2013-12-17

[30] US (61/797,913) 2012-12-17

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5 octobre 2021**

[11] **2,843,457**
[13] C

[51] **Int.Cl. G06F 3/041 (2006.01)**
[25] EN
[54] **ELECTRONIC DEVICE INCLUDING TOUCH-SENSITIVE DISPLAY AND METHOD OF DETECTING NOISE**
[54] **DISPOSITIF ELECTRONIQUE COMPORTANT UN ECRAN TACTILE ET METHODE DE DETECTION DU BRUIT**
[72] SINGH, AMIT PAL, CA
[72] PAREKH, PREMAL VINODCHANDRA, CA
[73] BLACKBERRY LIMITED, CA
[86] (2843457)
[87] (2843457)
[22] 2014-02-18
[30] EP (13155856.1) 2013-02-19
[30] US (13/770,788) 2013-02-19

[11] **2,843,606**
[13] C

[51] **Int.Cl. C12P 19/56 (2006.01) C07H 15/256 (2006.01) C07K 14/415 (2006.01) C12N 1/19 (2006.01) C12N 9/00 (2006.01) C12N 9/10 (2006.01) C12N 9/16 (2006.01) C12N 15/29 (2006.01) C12N 15/52 (2006.01) C12N 15/54 (2006.01) C12N 15/63 (2006.01) C12N 15/81 (2006.01) C12N 9/24 (2006.01)**
[25] EN
[54] **RECOMBINANT PRODUCTION OF STEVIOL GLYCOSIDES**
[54] **PRODUCTION PAR RECOMBINAISON DE GLYCOSIDES DE STEVIOL**
[72] HOUGHTON-LARSEN, JENS, DK
[72] HICKS, PAULA M., US
[72] NAESBY, MICHAEL, CH
[72] OSTERGAARD, TANGE THOMAS, CH
[72] HANSEN, JORGEN, DK
[72] DALGAARD MIKKELSEN, MICHAEL, DK
[72] HALKJAER HANSEN, ESBEN, DK
[72] ERNESTO, SIMON, DK
[72] DE ANDRADE PEREIRA TAVARES, SABINA, CH
[73] EVOLVA SA, CH
[85] 2014-01-29
[86] 2012-08-08 (PCT/US2012/050021)
[87] (WO2013/022989)
[30] US (61/521,084) 2011-08-08
[30] US (61/521,203) 2011-08-08
[30] US (61/521,051) 2011-08-08
[30] US (61/523,487) 2011-08-15
[30] US (61/567,929) 2011-12-07
[30] US (61/603,639) 2012-02-27

[11] **2,864,211**
[13] C

[51] **Int.Cl. B29C 33/62 (2006.01)**
[25] FR
[54] **NONSTICK TREATMENT FOR COMPOSITE MOLDS**
[54] **TRAITEMENT ANTI-ADHERENT DE MOULES COMPOSITES**
[72] NOBLAT, ROXANE, FR
[72] LATOR, BRUNO, FR
[73] ASSOCIATION POUR LES TRANSFERTS DE TECHNOLOGIES DU MANS, FR
[85] 2014-08-07
[86] 2013-02-22 (PCT/EP2013/053602)
[87] (WO2013/127708)
[30] FR (12 51869) 2012-02-29

[11] **2,865,954**
[13] C

[51] **Int.Cl. A61F 2/16 (2006.01) A61F 9/007 (2006.01)**
[25] EN
[54] **INTRAOCULAR LENS DELIVERY SYSTEMS AND METHODS OF USE**
[54] **SYSTEMES DE POSE DE LENTILLES INTRAOCULAIRES ET LEURS PROCEDES D'UTILISATION**
[72] MATTHEWS, GREGORY VINTON, US
[73] ALCON INC., CH
[85] 2014-08-28
[86] 2013-03-15 (PCT/US2013/032054)
[87] (WO2013/142323)
[30] US (61/613,929) 2012-03-21

[11] **2,867,260**
[13] C

[51] **Int.Cl. A61K 36/23 (2006.01) A61K 36/28 (2006.01) A61K 36/35 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS OF COMBINED HERBAL EXTRACT FOR TREATMENT OF DISEASE**
[54] **PROCEDES ET COMPOSITIONS D'EXTRAIT D'HERBES COMBINE POUR LE TRAITEMENT DE MALADIE**
[72] ROSENBLUH, AMY DEBRA, IL
[72] NUSSBAUM, GABRIEL JAY, IL
[72] ROTMAN, AVNER, IL
[73] IZUN PHARMACEUTICALS CORP., US
[85] 2014-09-12
[86] 2013-03-13 (PCT/IB2013/051970)
[87] (WO2013/136270)
[30] US (61/610,480) 2012-03-14

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[11] **2,867,760**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/506 (2006.01) A61K 31/538 (2006.01) A61K 31/553 (2006.01) A61K 31/7064 (2006.01)**

[25] EN

[54] **INDOLIZINYL DERIVATIVES AS PROTEIN KINASE C INHIBITORS AND USES THEREOF**

[54] **DERIVES D'INDOLIZINYLE COMME INHIBITEURS DE PROTEINE KINASE C ET UTILISATIONS CONNEXES**

[72] SINGH, RAJINDER, US

[72] DUNCTON, MATTHEW, US

[72] ZHANG, JING, US

[72] ALVAREZ, SALVADOR, US

[72] TSO, KIN, US

[72] HOLLAND, SACHA, US

[72] YEN, ROSE, US

[72] KOLLURI, RAO, US

[72] HECKRODT, THILO, US

[72] CHEN, YAN, US

[72] MASUDA, ESTEBAN, US

[72] LI, HUI, US

[72] PAYAN, DONALD G., US

[72] KELLEY, RYAN, US

[73] RIGEL PHARMACEUTICALS, INC., US

[85] 2014-09-17

[86] 2013-04-04 (PCT/US2013/035285)

[87] (WO2013/152198)

[30] US (61/620,232) 2012-04-04

[30] US (61/783,647) 2013-03-14

[11] **2,870,554**
[13] C

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

[25] EN

[54] **VALVE REPLACEMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE REMPLACEMENT DE VALVULE**

[72] SCHWEICH, CYRIL J., JR., US

[72] MORTIER, TODD J., US

[73] CAISSON INTERVENTIONAL, LLC, US

[85] 2014-10-15

[86] 2013-04-16 (PCT/US2013/036734)

[87] (WO2013/158613)

[30] US (61/635,741) 2012-04-19

[30] US (61/669,383) 2012-07-09

[30] US (13/842,490) 2013-03-15

[30] US (13/842,206) 2013-03-15

[11] **2,876,521**
[13] C

[51] **Int.Cl. G21C 3/322 (2006.01)**

[25] EN

[54] **NUCLEAR FUEL BUNDLE ASSEMBLY**

[54] **ENSEMBLE FAISCEAU DE COMBUSTIBLE NUCLEAIRE**

[72] YETISIR, METIN, CA

[72] GAUDET, MICHEL, CA

[72] RHODES, DAVID BRUCE, CA

[72] KING, JAMES MITCHELL, CA

[72] DIAMOND, WILLIAM T., CA

[72] LI, JINTONG, CA

[73] ATOMIC ENERGY OF CANADA LIMITED/ENERGIE ATOMIQUE DU CANADA LIMITEE, CA

[85] 2014-12-12

[86] 2013-06-13 (PCT/CA2013/050446)

[87] (WO2013/185229)

[30] US (61/659,229) 2012-06-13

[30] US (61/659,219) 2012-06-13

[11] **2,877,549**
[13] C

[51] **Int.Cl. B60K 11/02 (2006.01) B60L 58/26 (2019.01)**

[25] EN

[54] **VEHICLE COOLING CIRCUIT**

[54] **CIRCUIT DE REFROIDISSEMENT DE VEHICULE**

[72] PRESETSCHNIK, ANDREAS, AT

[72] HENSE, KLAUS, AT

[73] LIEBHERR-TRANSPORTATION SYSTEMS GMBH & CO. KG, AT

[86] (2877549)

[87] (2877549)

[22] 2015-01-13

[30] DE (10 2014 001 022.8) 2014-01-27

[11] **2,879,892**
[13] C

[51] **Int.Cl. F02C 7/12 (2006.01) F01D 25/12 (2006.01)**

[25] EN

[54] **COOLING SYSTEM AND METHOD FOR SUPPLYING A COOLING GAS FLOW**

[54] **SYSTEME DE REFROIDISSEMENT ET METHODE DE FOURNITURE D'UN FLUX DE GAZ DE REFROIDISSEMENT**

[72] ALECU, DANIEL, CA

[72] ELEFATHERIOU, ANDREAS, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2879892)

[87] (2879892)

[22] 2015-01-26

[30] US (14/169,354) 2014-01-31

[11] **2,880,436**
[13] C

[51] **Int.Cl. C07C 271/28 (2006.01) A61K 31/325 (2006.01) A61P 35/00 (2006.01) C07C 271/42 (2006.01) C07C 271/44 (2006.01) C07C 271/56 (2006.01) C07C 271/58 (2006.01)**

[25] EN

[54] **MULTITARGET FAAH AND COX INHIBITORS AND THERAPEUTICAL USES THEREOF**

[54] **INHIBITEURS DE FAAH ET DE COX MULTICIBLES ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] DE VIVO, MARCO, IT

[72] SCARPELLI, RITA, IT

[72] CAVALLI, ANDREA, IT

[72] MIGLIORE, MARCO, IT

[72] PIOMELLI, DANIELE, US

[72] HABRANT, DAMIEN, FR

[72] FAVIA, ANGELO, IT

[73] FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA, IT

[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[73] ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA, IT

[85] 2015-01-28

[86] 2013-08-01 (PCT/EP2013/066197)

[87] (WO2014/023643)

[30] EP (PCT/EP2012/065336) 2012-08-06

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[11] **2,880,802**
[13] C

[51] **Int.Cl. G06F 1/3231 (2019.01) G06F 3/01 (2006.01) G06F 3/02 (2006.01) H01H 13/83 (2006.01)**

[25] EN

[54] **ADAPTIVE KEYBOARD LIGHTING**

[54] **ECLAIRAGE DE CLAVIER ADAPTATIF**

[72] MATSUOKA, YOSHIMICHI, US

[73] GOOGLE LLC, US

[85] 2015-02-02

[86] 2013-07-23 (PCT/US2013/051564)

[87] (WO2014/022142)

[30] US (13/566,205) 2012-08-03

[11] **2,881,488**
[13] C

[51] **Int.Cl. F04D 29/44 (2006.01) F02C 3/04 (2006.01) F04D 17/08 (2006.01)**

[25] EN

[54] **CENTRIFUGAL COMPRESSOR DIFFUSER AND METHOD FOR CONTROLLING SAME**

[54] **DIFFUSEUR A COMPRESSEUR CENTRIFUGE ET SON PROCEDE DE COMMANDE**

[72] DUONG, HIEN, CA

[72] TOWNSEND, PETER, CA

[72] KANDASAMY, VIJAY, IN

[72] UPADRASTA, KOUNDINYA, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2881488)

[87] (2881488)

[22] 2015-02-09

[30] US (14/176,253) 2014-02-10

[11] **2,889,439**
[13] C

[51] **Int.Cl. C12Q 1/6862 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01) C40B 30/00 (2006.01) C40B 30/04 (2006.01)**

[25] EN

[54] **METHOD AND KIT FOR DETECTING A WILD-TYPE AND/OR A MUTATED TARGET DNA SEQUENCE**

[54] **PROCEDE ET TROUSSE POUR LA DETECTION D'UNE SEQUENCE D'ADN CIBLE DE TYPE SAUVAGE ET/OU MUTEE**

[72] FONTANA, FRANCESCA, IT

[72] MANARESI, NICOLO, IT

[73] MENARINI SILICON BIOSYSTEMS S.P.A., IT

[85] 2015-04-24

[86] 2013-10-31 (PCT/IB2013/059827)

[87] (WO2014/068519)

[30] IT (TO2012A000962) 2012-10-31

[11] **2,891,098**
[13] C

[51] **Int.Cl. H04W 4/80 (2018.01) H04W 84/20 (2009.01) A61N 1/372 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR WIRELESS PAIRING AND COMMUNICATION FOR ELECTRO-STIMULATION**

[54] **SYSTEMES ET PROCEDES D'APPARIEMENT ET DE COMMUNICATION SANS FIL POUR ELECTROSTIMULATION**

[72] BAUMGARTNER, FLAVIEN, CH

[72] PERROUD, STEPHANE, CH

[72] VUADENS, PHILIPPE, CH

[72] FONTAINE, NICOLAS, CH

[73] EMPI, INC., US

[85] 2015-05-07

[86] 2013-11-12 (PCT/US2013/069546)

[87] (WO2014/075034)

[30] US (61/725,190) 2012-11-12

[11] **2,895,237**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/454 (2006.01) A61P 25/00 (2006.01) A61P 31/00 (2006.01) A61P 33/00 (2006.01)**

[25] EN

[54] **PIPERIDINYLCARBAZOLE AS ANTIMALARIAL**

[54] **PIPERIDINYLCARBAZOLE COMME ANTIPALUDIQUE**

[72] ROUTIER, JULIE, FR

[72] SPANGENBERG, THOMAS, CH

[73] MERCK PATENT GMBH, DE

[85] 2015-06-15

[86] 2013-12-27 (PCT/EP2013/003945)

[87] (WO2014/108168)

[30] EP (13150827.7) 2013-01-10

[11] **2,898,257**
[13] C

[51] **Int.Cl. C08F 8/50 (2006.01) C08J 11/16 (2006.01) C10M 109/02 (2006.01)**

[25] EN

[54] **CATALYTIC DEPOLYMERISATION OF POLYMERIC MATERIALS**

[54] **DEPOLYMERISATION CATALYTIQUE DE MATERIAUX POLYMERES**

[72] KUMAR, ANIL, IN

[72] KUMAR, PUSHKAR, CA

[73] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA

[85] 2015-07-15

[86] 2013-01-17 (PCT/CA2013/000041)

[87] (WO2014/110644)

[11] **2,901,122**
[13] C

[51] **Int.Cl. A63B 57/10 (2015.01) A63B 57/00 (2015.01)**

[25] EN

[54] **OVERMOLDED GOLF TEE AND METHOD OF MAKING A GOLF TEE**

[54] **TEE DE GOLF SURMOULE ET METHODE DE FABRICATION**

[72] CARROLL, FRANCIS, US

[72] CARROLL, JAMES, JR., US

[73] GREENKEEPERS, INC., US

[85] 2015-08-12

[86] 2014-01-31 (PCT/US2014/014021)

[87] (WO2015/116134)

[30] US (61/758,916) 2014-01-31

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[11] **2,901,593**
[13] C

[51] **Int.Cl. E05C 3/12 (2006.01) B65F 1/14 (2006.01)**
[25] EN
[54] **GRAVITY-ACTUATED LATCH MECHANISM**
[54] **MECANISME DE VERROU ACTIONNE PAR GRAVITE**
[72] MICHAEL, WILLIAM J., US
[72] DAVIS, REED A., US
[73] NORTHLAND PRODUCTS, INC., US
[86] (2901593)
[87] (2901593)
[22] 2015-08-26
[30] US (62/042,047) 2014-08-26
[30] US (62/109,886) 2015-01-30
[30] US (14/835,262) 2015-08-25

[11] **2,903,953**
[13] C

[51] **Int.Cl. A61B 5/055 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MODELING BRAIN DYNAMICS IN NORMAL AND DISEASED STATES**
[54] **SYSTEME ET PROCEDE PERMETTANT DE MODELISER LES DYNAMIQUES DU CERVEAU EN BONNE SANTE ET MALADE**
[72] LEE, JIN HYUNG, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2015-09-02
[86] 2014-01-31 (PCT/US2014/014318)
[87] (WO2014/121146)
[30] US (61/759,363) 2013-01-31

[11] **2,904,568**
[13] C

[51] **Int.Cl. A61B 34/37 (2016.01) A61B 34/30 (2016.01) A61B 17/32 (2006.01)**
[25] EN
[54] **ROBOTIC ULTRASONIC SURGICAL DEVICE WITH ARTICULATING END EFFECTOR**
[54] **DISPOSITIF CHIRURGICAL ULTRASONORE ROBOTIQUE AYANT UN EFFECTEUR TERMINAL ARTICULE**
[72] PARIHAR, SHAIKENDRA K., US
[72] STULEN, FOSTER B., US
[73] ETHICON ENDO-SURGERY, INC., US
[85] 2015-09-08
[86] 2014-02-18 (PCT/US2014/016871)
[87] (WO2014/143502)
[30] US (13/798,766) 2013-03-13

[11] **2,904,598**
[13] C

[51] **Int.Cl. C07C 51/41 (2006.01) C07C 51/08 (2006.01) C07C 51/09 (2006.01) C07C 59/72 (2006.01) A61K 31/19 (2006.01)**
[25] EN
[54] **SALTS OF TREPROSTINIL**
[54] **SELS DE TREPROSTINIL**
[72] BATRA, HITESH, US
[72] SHARMA, VIJAY, US
[72] YANG, SANMIN, US
[72] ZHANG, YI, US
[73] UNITED THERAPEUTICS CORPORATION, US
[85] 2015-09-08
[86] 2014-03-10 (PCT/US2014/022568)
[87] (WO2014/150203)
[30] US (61/791,015) 2013-03-15

[11] **2,907,557**
[13] C

[51] **Int.Cl. E21B 47/26 (2012.01) E21B 44/00 (2006.01) E21B 45/00 (2006.01)**
[25] EN
[54] **AUTOMATED RIG ACTIVITY REPORT GENERATION**
[54] **GENERATION AUTOMATISEE DE RAPPORT D'ACTIVITE D'APPAREIL DE FORAGE**
[72] KHARE, SUNIL KUMAR, IN
[72] COFFMAN, CHUNLING GU, US
[72] LUPPENS, JOHN CHRISTIAN, US
[73] SCHLUMBERGER CANADA LIMITED, CA
[85] 2015-09-17
[86] 2014-03-19 (PCT/US2014/031152)
[87] (WO2014/160561)
[30] US (61/806,352) 2013-03-28

[11] **2,909,027**
[13] C

[51] **Int.Cl. B64C 25/34 (2006.01) B64C 25/42 (2006.01) B64C 25/58 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR ASSEMBLY**
[54] **DISPOSITIF DE TRAIN D'ATTERRISAGE**
[72] SEXTON, MATTHEW, GB
[72] SCHMIDT, ROBERT KYLE, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (2909027)
[87] (2909027)
[22] 2015-10-13
[30] EP (14189230.7) 2014-10-16

[11] **2,910,738**
[13] C

[51] **Int.Cl. G01B 21/30 (2006.01) G01B 21/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CHARACTERIZING SURFACES USING SIZE DATA**
[54] **SYSTEME ET PROCEDE PERMETTANT DE CARACTERISER DES SURFACES A L'AIDE DE DONNEES RELATIVES A LA TAILLE**
[72] JALLURI, CHANDRA SEKHAR, US
[72] HAMIDIEH, YOUSSEF A., US
[73] FORD GLOBAL TECHNOLOGIES, LLC, US
[85] 2015-10-28
[86] 2014-07-07 (PCT/US2014/045551)
[87] (WO2015/006198)
[30] US (61/844,169) 2013-07-09

[11] **2,913,521**
[13] C

[51] **Int.Cl. B01J 19/00 (2006.01) B01J 4/00 (2006.01) B01J 19/18 (2006.01) B01J 19/20 (2006.01) C08G 69/00 (2006.01)**
[25] EN
[54] **DEVICE FOR SYNTHESIZING A POLYMER WITH REDUCED FORMATION OF DEPOSITS IN THE REACTION CHAMBER**
[54] **DISPOSITIF DE SYNTHESE D'UN POLYMER PERMETTANT DE REDUIRE LA FORMATION DE DEPOTS DANS LA CHAMBRE DE REACTION**
[72] ZHU, NING, DE
[72] STAMMER, ACHIM, DE
[72] CLAUSS, JOACHIM, DE
[72] WITT, UWE, DE
[72] KORY, GAD, DE
[72] BIEDASEK, SILKE, DE
[73] BASF SE, DE
[85] 2015-11-25
[86] 2014-06-11 (PCT/EP2014/062119)
[87] (WO2014/198766)
[30] EP (13171657.3) 2013-06-12

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[11] **2,916,927**
[13] C

[51] **Int.Cl. G01N 37/00 (2006.01) H01H 9/00 (2006.01) H02G 3/14 (2006.01)**

[25] EN
[54] **HUMIDITY WALL CONTROL**
[54] **CONTROLE MURAL D'HUMIDITE**
[72] JONAS, KENNETH JOHN, US
[72] PUFFER, BENJAMIN THORPE, US
[73] BROAN-NUTONE LLC, US
[86] (2916927)
[87] (2916927)
[22] 2016-01-07
[30] US (14/593,883) 2015-01-09

[11] **2,917,315**
[13] C

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4427 (2006.01) C07D 307/81 (2006.01) C07D 405/12 (2006.01) C07D 409/14 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) A61P 35/00 (2006.01)**

[25] EN
[54] **SUBSTITUTED BENZOFURANYL AND BENZOXAZOLYL COMPOUNDS AND USES THEREOF**
[54] **BENZOFURANYLES ET BENZOXAZOLYLES SUBSTITUES ET LEURS UTILISATIONS**
[72] BALOGLU, ERKAN, US
[72] SHACHAM, SHARON, US
[72] SENAPEDIS, WILLIAM, US
[72] MCCAULEY, DILARA, US
[72] LANDESMAN, YOSEF, US
[72] GOLAN, GALL, IL
[72] KALID, ORI, IL
[72] SHECHTER, SHARON, US
[73] KARYOPHARM THERAPEUTICS INC., US
[85] 2016-01-04
[86] 2014-07-03 (PCT/US2014/045479)
[87] (WO2015/003166)
[30] US (61/842,856) 2013-07-03
[30] US (61/879,070) 2013-09-17
[30] US (61/904,843) 2013-11-15
[30] US (61/975,171) 2014-04-04

[11] **2,918,357**
[13] C

[51] **Int.Cl. A61N 1/32 (2006.01) A61N 1/04 (2006.01) A61L 29/16 (2006.01)**

[25] FR
[54] **DEVICE FOR TREATING A CUTANEOUS ULCER**
[54] **DISPOSITIF DE TRAITEMENT D'UNE ULCERATION CUTANEE**
[72] CRACOWSKI, JEAN-LUC, FR
[72] ROUSTIT, MATTHIEU, FR
[72] BLAISE, SOPHIE, FR
[73] UNIVERSITE GRENOBLE ALPES, FR
[73] CENTRE HOSPITALIER UNIVERSITAIRE GRENOBLE, FR
[85] 2016-01-14
[86] 2014-07-15 (PCT/EP2014/065093)
[87] (WO2015/007712)
[30] FR (1356941) 2013-07-15

[11] **2,920,561**
[13] C

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 37/06 (2006.01) E21B 43/16 (2006.01)**

[25] EN
[54] **STEAM GENERATION WITH CARBON DIOXIDE RECYCLE**
[54] **GENERATION DE VAPEUR A L'AIDE DU RECYCLAGE DE DIOXYDE DE CARBONE**
[72] MACADAM, SCOTT, CA
[72] SEABA, JAMES P., CA
[72] LARKIN, DAVID WILLIAM, US
[73] CONOCOPHILLIPS COMPANY, US
[85] 2016-02-05
[86] 2014-07-30 (PCT/US2014/048814)
[87] (WO2015/020850)
[30] US (61/862,309) 2013-08-05
[30] US (14/446,524) 2014-07-30

[11] **2,920,941**
[13] C

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/57 (2020.01) A61M 11/00 (2006.01) A61M 15/06 (2006.01)**

[25] EN
[54] **A VAPORIZER SYSTEM WITH A DISPOSAL CARTRIDGE**
[54] **SYSTEME DE VAPORISATEUR A CARTOUCHE JETABLE**
[72] KRIETZMAN, MARK, US
[73] KRIETZMAN, MARK, US
[86] (2920941)
[87] (2920941)
[22] 2016-02-17
[30] US (62/116926) 2015-02-17
[30] US (62/127817) 2015-03-03
[30] US (62/184396) 2015-06-25
[30] US (62/208786) 2015-08-23
[30] US (62/270557) 2015-12-21

[11] **2,921,250**
[13] C

[51] **Int.Cl. A61K 38/26 (2006.01) A61K 9/08 (2006.01) A61K 38/22 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**

[25] EN
[54] **STABLE AQUEOUS PARENTERAL PHARMACEUTICAL COMPOSITIONS OF INSULINOTROPIC PEPTIDES**
[54] **COMPOSITION PHARMACEUTIQUE STABLE POUR L'HYDRO-INJECTION DE PEPTIDE SECRETAGOGUE D'INSULINE**
[72] XIONG, CHUNLIN, CN
[72] HE, YUNXIA, CN
[72] ZUO, YAJUN, CN
[72] YU, GANG, CN
[73] SHANGHAI BENEMAE PHARMACEUTICAL CORPORATION, CN
[85] 2016-02-12
[86] 2014-07-31 (PCT/CN2014/083370)
[87] (WO2015/021861)
[30] CN (201310351740.5) 2013-08-13

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[11] **2,921,851**
[13] C

[51] **Int.Cl. E21B 21/01 (2006.01) B60P 3/22 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **HEATED DRILL CUTTINGS TRANSPORT VESSEL**

[54] **CONTENANT CHAUFFE DESTINE AU TRANSPORT DE RESIDUS DE FORAGE**

[72] ROSS, STAN, CA

[72] STEGER, GREGORY, CA

[73] RECOVER ENERGY SERVICES INC., CA

[86] (2921851)

[87] (2921851)

[22] 2016-02-24

[30] US (62/120,546) 2015-02-25

[11] **2,923,590**
[13] C

[51] **Int.Cl. E04C 5/16 (2006.01) E04G 21/12 (2006.01)**

[25] EN

[54] **SOCKET-FASTENING-TYPE REINFORCING BAR CONNECTOR USING BINDING END MEMBER**

[54] **RACCORD DE BARRE DE RENFORCEMENT DU TYPE A FIXATION DE DOUILLE UTILISANT UN ELEMENT D'EXTREMITE DE LIAISON**

[72] KIM, YONG-KEUN, KR

[73] KIM, YONG-KEUN, KR

[85] 2016-03-07

[86] 2014-09-01 (PCT/KR2014/008118)

[87] (WO2015/034224)

[30] KR (10-2013-0108033) 2013-09-09

[11] **2,923,703**
[13] C

[51] **Int.Cl. G03F 7/20 (2006.01) G03F 7/09 (2006.01) G03F 7/30 (2006.01)**

[25] EN

[54] **DIGITALLY EXPOSABLE FLEXOGRAPHIC PRINTING ELEMENT AND METHOD FOR PRODUCING FLEXOGRAPHIC PRINTING PLATES**

[54] **ELEMENT FLEXOGRAPHIQUE POUR IMAGEAGE DIRECT ET PROCEDE DE FABRICATION DE CLICHES**

[72] STEBANI, UWE, DE

[72] BECKER, ARMIN, DE

[72] BEYER, MATTHIAS, DE

[72] RIEWE, DENIS, DE

[72] REIFSCHNEIDER, ANDREAS, DE

[73] FLINT GROUP GERMANY GMBH, DE

[85] 2016-03-08

[86] 2014-09-18 (PCT/EP2014/069853)

[87] (WO2015/040094)

[30] EP (13185009.1) 2013-09-18

[11] **2,924,147**
[13] C

[51] **Int.Cl. B62B 7/08 (2006.01)**

[25] EN

[54] **FOLDABLE PUSHCHAIR SUITABLE FOR TRANSPORTING NEWBORNS**

[54] **POUSSETTE PLIANTE CONVENANT AU TRANSPORT DES NOUVEAU-NES**

[72] HENRY, GILLES, FR

[72] CHAUDEURGE, JEAN-MICHEL, FR

[73] BABYZEN, FR

[85] 2016-03-11

[86] 2014-09-09 (PCT/EP2014/069177)

[87] (WO2015/036395)

[30] FR (1358847) 2013-09-13

[11] **2,925,138**
[13] C

[51] **Int.Cl. E21B 17/05 (2006.01) E21B 19/22 (2006.01)**

[25] EN

[54] **COILED TUBING SWIVEL ASSEMBLY**

[54] **ENSEMBLE DE PIVOT DE TUBAGE SPIRALE**

[72] BEHRENS, RANDALL DEAN, US

[73] PREMIER COIL SOLUTIONS, INC., US

[86] (2925138)

[87] (2925138)

[22] 2016-03-24

[30] US (14/669,754) 2015-03-26

[11] **2,925,567**
[13] C

[51] **Int.Cl. A61K 31/7042 (2006.01) A61P 43/00 (2006.01)**

[25] FR

[54] **USE OF ODIPARCIL IN THE TREATMENT OF A MUCOPOLYSACCHARIDOSIS**

[54] **UTILISATION DE L'ODIPARCIL DANS LE TRAITEMENT D'UNE MUCOPOLYSACCHARIDOSE**

[72] MASSON, PHILIPPE, FR

[72] JUNIEN, JEAN-LOUIS, FR

[73] INVENTIVA, FR

[85] 2016-03-29

[86] 2014-10-03 (PCT/FR2014/052507)

[87] (WO2015/049471)

[30] FR (1359657) 2013-10-04

[11] **2,926,932**
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 13/02 (2006.01)**

[25] EN

[54] **DRESSING WITH DIFFERENTIALLY SIZED PERFORATIONS**

[54] **PANSEMENT AYANT DES ORIFICES DE DIFFERENTES TAILLES**

[72] COULTHARD, RICHARD DANIEL JOHN, GB

[72] LOCKE, CHRISTOPHER BRIAN, GB

[73] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2016-04-08

[86] 2014-09-19 (PCT/US2014/056524)

[87] (WO2015/065614)

[30] US (61/897,640) 2013-10-30

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[11] **2,930,644**
[13] C

[51] **Int.Cl. G01M 99/00 (2011.01) B23F 23/12 (2006.01)**
[25] EN
[54] **A METHOD FOR OPERATING A PLURALITY OF MEASURING MACHINES AND AN ENTIRE APPARATUS COMPRISING AT LEAST TWO MEASURING MACHINES**
[54] **UNE METHODE D'EXPLOITATION D'UNE PLURALITE DE MACHINES DE MESURE ET UN APPAREIL ENTIER COMPORTANT AU MOINS DEUX MACHINES DE MESURE**
[72] WYMAN, HASTINGS, US
[73] KLINGELNBERG AG, CH
[86] (2930644)
[87] (2930644)
[22] 2016-05-18
[30] DE (10 2015 108 851.7) 2015-06-03

[11] **2,932,425**
[13] E

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **PYRROLO[2,3-D]PYRIMIDINYL, PYRROLO[2,3-B]PYRAZINYL AND PYRROLO[2,3-D]PYRIDINYL ACRYLAMIDES**
[54] **PYRROLO[2,3-D]PYRIMIDINYLE, PYRROLO[2,3-B]PYRAZINYLE ET PYRROLLO[2,3-D]PYRIDINYLE ACRYLAMIDES**
[72] BROWN, MATTHEW FRANK, US
[72] CASIMIRO-GARCIA, AGUSTIN, US
[72] CHE, YE, US
[72] COE, JOTHAM WADSWORTH, US
[72] FLANAGAN, MARK EDWARD, US
[72] GILBERT, ADAM MATTHEW, US
[72] HAYWARD, MATTHEW MERRILL, US
[72] LANGILLE, JONATHAN DAVID, US
[72] MONTGOMERY, JUSTIN IAN, US
[72] TELLIEZ, JEAN-BAPTISTE, US
[72] THORARENSEN, ATLI, US
[72] UNWALLA, RAYOMAND JAL, US
[72] TRUJILLO, JOHN I., US
[73] PFIZER INC., US
[85] 2016-06-01
[86] 2014-11-20 (PCT/IB2014/066202)
[87] (WO2015/083028)
[48] 2021-10-05
[30] US (61/912,074) 2013-12-05

[11] **2,938,602**
[13] C

[51] **Int.Cl. A61F 13/40 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING AN ANTIMICROBIAL DISPENSING APPLICATOR**
[54] **SYSTEMES ET PROCEDES DE REALISATION D'UN APPLICATEUR ANTISEPTIQUE**
[72] HOANG, MINH QUANG, US
[72] LIU, HUIBIN, US
[72] BURKHOLZ, JONATHAN KARL, US
[72] DAVIS, BRYAN G., US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2016-08-02
[86] 2015-02-11 (PCT/US2015/015480)
[87] (WO2015/126700)
[30] US (14/185,820) 2014-02-20

[11] **2,949,926**
[13] C

[51] **Int.Cl. B60K 17/24 (2006.01) F16C 27/06 (2006.01)**
[25] EN
[54] **CARRIER BEARING ASSEMBLY**
[54] **MECANISME DE PALIER PORTEUR**
[72] ROBERTS, JONATHAN D., US
[72] REYNOLDS, BRENT G., US
[73] SANDCRAFT, LLC, US
[86] (2949926)
[87] (2949926)
[22] 2016-11-25
[30] US (14/952,741) 2015-11-25

[11] **2,950,505**
[13] C

[51] **Int.Cl. C04B 26/32 (2006.01) C04B 40/06 (2006.01)**
[25] EN
[54] **TWO-COMPONENT MORTAR MASS AND USE THEREOF**
[54] **VOLUME DE MORTIER A DEUX COMPOSANTS ET SON UTILISATION**
[72] GNASS, BEATE, DE
[72] KUMRU, MEMET-EMIN, DE
[72] PFEIL, ARMIN, DE
[72] BUNZEN, JENS, DE
[72] SHARMAK, ANNA, DE
[73] HILTI AKTIENGESELLSCHAFT, LI
[85] 2016-11-28
[86] 2015-07-30 (PCT/EP2015/067524)
[87] (WO2016/016378)
[30] EP (14179228.3) 2014-07-31

[11] **2,951,757**
[13] C

[51] **Int.Cl. B29C 65/48 (2006.01) B64C 3/26 (2006.01)**
[25] FR
[54] **METHOD FOR ASSEMBLING A SET OF COMPOSITE PARTS, AND ASSEMBLY OBTAINED BY SUCH A METHOD**
[54] **PROCEDE D'ASSEMBLAGE D'UN ENSEMBLE DE PIECES COMPOSITES ET ENSEMBLE OBTENU PAR UN TEL PROCEDE**
[72] BAILLY, DOMINIQUE, FR
[72] BLANCHEGEORGE, CEDRIC, FR
[72] MINARD, ELRIC, FR
[73] DAHER AEROSPACE, FR
[85] 2016-12-09
[86] 2015-06-10 (PCT/EP2015/062889)
[87] (WO2015/189242)
[30] FR (1455249) 2014-06-10

[11] **2,954,982**
[13] C

[51] **Int.Cl. C10L 1/10 (2006.01)**
[25] EN
[54] **FUEL BLEND WITH NANODIAMONDS**
[54] **MELANGE DE CARBURANT PRESENTANT DES NANODIAMANTS**
[72] FACTOR, ANDREY, US
[72] WEINGARDEN, MARSHALL, US
[72] BORODIN, WLADIMIR, UA
[72] IVASHCHENKO, VOLODYMYR, UA
[73] NANO MPI HOLDINGS, INC., US
[85] 2017-01-12
[86] 2014-07-22 (PCT/US2014/047555)
[87] (WO2016/014028)

[11] **2,956,641**
[13] C

[51] **Int.Cl. A23C 9/18 (2006.01) A23C 1/04 (2006.01)**
[25] EN
[54] **SOLID MILK AND METHOD FOR MANUFACTURE THEREOF**
[54] **LAIT A L'ETAT SOLIDE ET PROCEDE DE FABRICATION ASSOCIE**
[72] TOYODA, IKURU, JP
[72] SATAKE, YOSHINORI, JP
[72] OHTSUBO, KAZUMITSU, JP
[73] MEIJI CO., LTD., JP
[86] (2956641)
[87] (2956641)
[22] 2009-12-25
[62] 2,763,672
[30] JP (2008-335154) 2008-12-26

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[11] **2,960,214**
[13] C
[51] **Int.Cl. G06F 21/56 (2013.01) G06F 9/455 (2018.01)**
[25] EN
[54] **SECURE DOCUMENT IMPORTATION VIA PORTABLE MEDIA**
[54] **IMPORTATION SECURISEE DE DOCUMENT AU MOYEN D'UN SUPPORT PORTATIF**
[72] JAMAN, MANI, US
[73] HRB INNOVATIONS, INC., US
[86] (2960214)
[87] (2960214)
[22] 2017-03-07
[30] US (15/067,787) 2016-03-11

[11] **2,961,769**
[13] C
[51] **Int.Cl. B60N 2/06 (2006.01) B60N 2/07 (2006.01) B60N 2/08 (2006.01) B60N 2/02 (2006.01)**
[25] EN
[54] **QUICK ADJUST POWER ADJUSTER FOR A VEHICLE SEAT**
[54] **REGULATEUR D'ALIMENTATION A REGLAGE RAPIDE POUR SIEGE DE VEHICULE**
[72] RUNDE, DAVID M., US
[72] DAVIS, JASON, US
[73] MAGNA SEATING INC., CA
[85] 2017-03-17
[86] 2015-09-21 (PCT/US2015/051238)
[87] (WO2016/044841)
[30] US (62/052,638) 2014-09-19
[30] US (62/103,719) 2015-01-15

[11] **2,962,252**
[13] C
[51] **Int.Cl. G06F 13/42 (2006.01)**
[25] EN
[54] **STACK TIMING ADJUSTMENT FOR SERIAL COMMUNICATIONS**
[54] **REGLAGE DE SYNCHRONISATION DE PILE POUR COMMUNICATIONS EN SERIE**
[72] HAYS, PAUL J., US
[72] EYRE, CHRIS E., US
[73] MICRO MOTION, INC., US
[85] 2017-03-22
[86] 2014-09-25 (PCT/US2014/057487)
[87] (WO2016/048329)

[11] **2,963,402**
[13] C
[51] **Int.Cl. B64D 47/00 (2006.01) A62B 35/00 (2006.01) B64D 25/06 (2006.01) B64F 5/00 (2017.01) F16P 1/00 (2006.01)**
[25] EN
[54] **ROTORCRAFT FALL RESTRAINT PROTECTION ATTACH POINTS AND MECHANISM SYSTEMS**
[54] **SYSTEMES DE MECANISMES ET POINTS D'ATTACHE DE PROTECTION ANTICHUTE D'UN GIRAVION**
[72] THORNTON, BOB, US
[72] TZENG, CHYAU, US
[72] MESING, BRIAN, US
[72] KNOTT, KEVIN, US
[72] WIINIKKA, MARK, US
[72] RICHARD, EDITH, CA
[72] PLATZ, DAVID, US
[72] EDLER, JOSHUA, US
[72] VILLANUEVA, SARAH, US
[72] MAST, THOMAS, US
[72] LEACHMAN, JOSEPH, US
[72] BURNS, DANIEL JOHN, US
[73] BELL HELICOPTER TEXTRON INC., US
[86] (2963402)
[87] (2963402)
[22] 2017-04-04
[30] US (15/343,678) 2016-11-04

[11] **2,963,774**
[13] C
[51] **Int.Cl. B01D 27/08 (2006.01)**
[25] EN
[54] **FILTER CARTRIDGE AND FILTER CARTRIDGE ASSEMBLY**
[54] **CARTOUCHE DE FILTRE ET ASSEMBLAGE DE CARTOUCHE DE FILTRE**
[72] SCHULZ, KARSTEN, DE
[72] HIRSCH, GEORG, DE
[72] KLAUS, JURGEN, DE
[72] TAPPER, RENATE, DE
[73] CARL FREUDENBERG KG, DE
[86] (2963774)
[87] (2963774)
[22] 2017-04-07
[30] DE (20 2016 005 074.6) 2016-08-22

[11] **2,963,971**
[13] C
[51] **Int.Cl. C07D 211/44 (2006.01) C07D 211/22 (2006.01) C07D 211/58 (2006.01) C07D 213/30 (2006.01) C07D 213/40 (2006.01)**
[25] EN
[54] **HETEROCYCLIC AMPHOTERIC COMPOUNDS AS SURFACTANTS**
[54] **COMPOSES AMPHOTERES HETEROCYCLIQUES EN TANT QUE TENSIOACTIFS**
[72] BOAZ, NEIL WARREN, US
[72] BOONE, MATTHEW ALLEN, US
[73] EASTMAN CHEMICAL COMPANY, US
[85] 2017-04-06
[86] 2015-10-13 (PCT/US2015/055263)
[87] (WO2016/064620)
[30] US (14/518,517) 2014-10-20

[11] **2,964,317**
[13] C
[51] **Int.Cl. C12N 9/78 (2006.01) A61K 38/00 (2006.01) C12N 5/10 (2006.01) C12N 9/96 (2006.01) C12N 15/55 (2006.01)**
[25] EN
[54] **COMPOSITIONS OF ADENOSINE DEAMINASE-2 (ADA2), VARIANTS THEREOF AND METHODS OF USING SAME**
[54] **COMPOSITIONS D'ADENOSINE DESAMINASE-2 (ADA2), VARIANTS DE CETTE DERNIERE ET LEURS PROCEDES D'UTILISATION**
[72] THANOS, CHRISTOPHER D., US
[72] WANG, LIN, US
[72] SHEPARD, H. MICHAEL, US
[73] HALOZYME, INC., US
[85] 2017-04-10
[86] 2015-10-14 (PCT/US2015/055613)
[87] (WO2016/061286)
[30] US (62/063,936) 2014-10-14

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[11] **2,975,063**
[13] C

[51] **Int.Cl. B23K 26/38 (2014.01) B23K 26/03 (2006.01) B23K 26/08 (2014.01)**

[25] EN

[54] **METHOD FOR CARRYING OUT PRECISE LASER CUTTINGS ON A RIBBON SHEET AND APPARATUS TO CARRY OUT THE METHOD**

[54] **PROCEDE DE MISE EN OEUVRE DE DECOUPES PAR LASER PRECISES SUR UNE FEUILLEDE RUBAN ET APPAREIL DE MISE EN OEUVRE DU PROCEDE**

[72] DALLAN, ANDREA, IT

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

[85] 2017-07-26

[86] 2016-06-16 (PCT/IB2016/053571)

[87] (WO2016/203419)

[30] IT (UB2015A001510) 2015-06-18

[11] **2,975,837**
[13] C

[51] **Int.Cl. F16C 1/10 (2006.01) F16C 1/26 (2006.01)**

[25] EN

[54] **BOWDEN CABLE WITH COMBINED SPLITTER AND COMPENSATOR**

[54] **CABLE BOWDEN DOTE D'UN COUPLEUR ET D'UN COMPENSATEUR COMBINES**

[72] RUNDE, DAVID M., US

[73] MAGNA SEATING INC., CA

[86] (2975837)

[87] (2975837)

[22] 2017-08-10

[30] US (62/374,094) 2016-08-12

[11] **2,980,401**
[13] C

[51] **Int.Cl. B66B 7/02 (2006.01) B66B 11/04 (2006.01)**

[25] EN

[54] **GUIDE RAIL FOR AN ELEVATOR SYSTEM**

[54] **RAIL DE GUIDAGE POUR SYSTEME D'ASCENSEUR**

[72] KIRSCH, MICHAEL, DE

[72] HOFFMANN, WALTER, DE

[72] KUCZERA, THOMAS, DE

[72] GAINCHE, PHILIPPE, DE

[72] OBERT, MIKE, DE

[72] LOVRIC, MARKAN, DE

[72] MADERA, MARTIN, DE

[72] KRIEG, MARTIN, DE

[73] TK ELEVATOR INNOVATION AND OPERATIONS GMBH, DE

[85] 2017-09-20

[86] 2016-04-08 (PCT/EP2016/057716)

[87] (WO2016/113434)

[30] DE (10 2015 206 345.3) 2015-04-09

[11] **2,981,923**
[13] C

[51] **Int.Cl. C21D 1/76 (2006.01) C23C 8/06 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR REACTION CONTROL**

[54] **PROCEDE ET DISPOSITIF DE CONTROLE DE REACTION**

[72] DUBOIS, MICHEL, BE

[73] COCKERILL MAINTENANCE & INGENIERIE S.A., BE

[85] 2017-10-05

[86] 2016-04-19 (PCT/EP2016/058625)

[87] (WO2016/169918)

[30] EP (15164575.1) 2015-04-22

[30] EP (15195644.8) 2015-11-20

[11] **2,983,248**
[13] C

[51] **Int.Cl. G09G 5/373 (2006.01) G06F 3/14 (2006.01)**

[25] EN

[54] **RENDERING GRAPHICAL ASSETS NATIVELY ON MULTIPLE SCREENS OF ELECTRONIC DEVICES**

[54] **RENDU D'ELEMENTS GRAPHIQUES A L'ORIGINE SUR DE MULTIPLES ECRANS DE DISPOSITIFS ELECTRONIQUES**

[72] JOSEPHIRUDAYARAJ, MANGALA NAVEEN KUMAR, IN

[72] BHALLA, KAPIL, IN

[72] KATTA, SANTOSH, IN

[73] INTUIT INC., US

[85] 2017-10-17

[86] 2016-04-25 (PCT/US2016/029226)

[87] (WO2016/176149)

[30] US (14/701,249) 2015-04-30

[11] **2,983,607**
[13] C

[51] **Int.Cl. B65D 83/08 (2006.01) B31B 50/60 (2017.01) B31B 50/74 (2017.01) B65D 5/72 (2006.01)**

[25] EN

[54] **GLOVE DISPENSING ASSEMBLY**

[54] **ENSEMBLE DISTRIBUTEUR DE GANTS**

[72] MODHA, SHANTILAL HIRJIBHAI, US

[72] SAELIM, TANTIMA, US

[72] LIEN, KHOA TUAN, US

[73] O&M HALYARD INTERNATIONAL UNLIMITED COMPANY, IE

[85] 2017-10-20

[86] 2016-04-07 (PCT/US2016/026371)

[87] (WO2016/176019)

[30] US (62/155,238) 2015-04-30

[30] US (62/251,387) 2015-11-05

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[11] **2,985,015**
[13] C

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) A01N 43/08 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **A METHOD OF INACTIVATING MICROBES BY CITRACONIC ANHYDRIDE**

[54] **PROCEDE D'INACTIVATION DE MICROBES PAR L'ANHYDRIDE CITRACONIQUE**

[72] FISS, ELLEN, US

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2017-11-03

[86] 2016-05-24 (PCT/EP2016/061705)

[87] (WO2016/193070)

[30] US (62/168,541) 2015-05-29

[11] **2,988,564**
[13] C

[51] **Int.Cl. A61K 31/4535 (2006.01) A61P 17/04 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT OF NON-HISTAMINIC PRURITUS IN MAMMALS**

[54] **PROCEDES DE TRAITEMENT DU PRURIT NON HISTAMINIQUE CHEZ DES MAMMIFERES**

[72] ABERG, A. K. GUNNAR, US

[72] CIOFALO, VINCENT B., US

[73] BRIDGE PHARMA, INC., US

[85] 2017-12-06

[86] 2016-05-19 (PCT/US2016/033177)

[87] (WO2016/200578)

[30] US (14/736,626) 2015-06-11

[11] **2,990,646**
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/50 (2006.01)**

[25] EN

[54] **DISPOSABLE PEN NEEDLE WITH RE-USE PREVENTION FEATURES**

[54] **AIGUILLE JETABLE POUR STYLO INJECTEUR MUNIE D'ELEMENTS EMPECHANT SA REUTILISATION**

[72] RUAN, TIEMING, US

[73] BECTON, DICKINSON AND COMPANY, US

[86] (2990646)

[87] (2990646)

[22] 2010-02-04

[62] 2,751,622

[30] US (61/150,671) 2009-02-06

[11] **2,992,444**
[13] C

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

[25] EN

[54] **A SYSTEM AND METHOD OF MANAGING DATA INJECTION INTO AN EXECUTING DATA PROCESSING SYSTEM**

[54] **SYSTEME ET PROCEDE DE GESTION D'INJECTION DE DONNEES DANS UN SYSTEME DE TRAITEMENT DE DONNEES D'EXECUTION**

[72] KNOBLAUCH, BRADLEY JOHN, US

[73] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2018-01-12

[86] 2016-07-13 (PCT/US2016/041964)

[87] (WO2017/011487)

[30] US (14/798,191) 2015-07-13

[11] **2,992,733**
[13] C

[51] **Int.Cl. F16B 12/12 (2006.01) A47G 1/10 (2006.01) F16B 12/00 (2006.01) F16B 12/10 (2006.01) F16B 12/20 (2006.01) F16B 12/22 (2006.01)**

[25] EN

[54] **CHANNEL LOCK FASTENERS AND FASTENING SYSTEM**

[54] **ELEMENTS DE FIXATION A CANAUX ET SYSTEME DE FIXATION**

[72] KOELLING, FRED, US

[72] KOELLING, BRYAN, US

[72] SAVAGE, DANIEL, US

[72] DANG, HOANG, US

[73] LOCKDOWEL, INC., US

[85] 2018-01-16

[86] 2016-07-20 (PCT/US2016/043205)

[87] (WO2017/015402)

[30] US (62/194,800) 2015-07-20

[30] US (62/245,211) 2015-10-22

[11] **2,993,378**
[13] C

[51] **Int.Cl. C07D 519/00 (2006.01) A61K 31/475 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **VINBLASTINE 20' AMIDES: SYNTHETIC ANALOGS THAT MAINTAIN OR IMPROVE POTENCY AND SIMULTANEOUSLY OVERCOME PGP-DERIVED EFFLUX AND RESISTANCE**

[54] **AMIDES DE VINBLASTINE 20' : ANALOGUES SYNTHETIQUES QUI MAINTIENNENT OU AMELIORENT LE POTENTIEL ET SURMONTENT SIMULTANEMENT L'EFFLUENCE ET LA RESISTANCE DERIVEES DE PGP**

[72] BOGER, DALE, US

[73] THE SCRIPPS RESEARCH INSTITUTE, US

[86] (2993378)

[87] (2993378)

[22] 2018-01-30

[30] US (62/559295) 2017-09-15

[11] **2,993,863**
[13] C

[51] **Int.Cl. B60P 1/02 (2006.01) B62D 25/20 (2006.01) B62D 33/02 (2006.01) B66F 7/06 (2006.01)**

[25] EN

[54] **TRUCK BED LIFT**

[54] **DISPOSITIF DE LEVAGE DE PLATEFORME DE CAMION**

[72] CAMERON, RODNEY, CA

[72] KUHN, ROBERT, CA

[72] MARTIN, HERMAN, CA

[73] 1075685 B.C. LTD., CA

[86] (2993863)

[87] (2993863)

[22] 2018-02-02

[30] US (15426920) 2017-02-07

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[11] **2,994,977**
[13] C

[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **NETWORK TRANSACTION-BASED REFILL METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE RECHARGE PAR TRANSACTION DE RESEAU**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-02-07
[86] 2015-07-21 (PCT/CN2015/084733)
[87] (WO2017/012077)

[11] **3,001,752**
[13] C

[51] **Int.Cl. A61K 47/02 (2006.01) A61K 9/16 (2006.01) A61K 31/522 (2006.01)**
[25] EN
[54] **HYDROGEL COMPOSITE DEPOT FORMULATION**
[54] **FORMULATION RETARD A BASE D'UN COMPOSITE D'HYDROGEL**
[72] LEINO, LASSE, FI
[72] JALONEN, HARRY, FI
[72] FORSBACK, ARI-PEKKA, FI
[72] JOKINEN, MIKA, FI
[72] NOPPARI, PANU, FI
[73] DELSITECH OY, FI
[85] 2018-04-12
[86] 2016-10-21 (PCT/FI2016/050745)
[87] (WO2017/068245)
[30] FI (20155750) 2015-10-22

[11] **3,002,973**
[13] C

[51] **Int.Cl. B23G 1/30 (2006.01) B23G 1/52 (2006.01) B23G 5/04 (2006.01)**
[25] EN
[54] **THREADED PIPE CONNECTIONS AND SOCKETS FOR MAKING THE SAME IN SITU**
[54] **RACCORDS DE TUYAU FILETE ET DOUILLES SERVANT AU RACCORDEMENT SUR PLACE**
[72] LAWRENCE, BENJAMIN L., US
[72] LATHAM, RICHARD D., US
[72] BOBO, DAVID A., US
[72] MASON, CHRISTOPHER W., US
[72] PAIGE, RONALD DALE, US
[73] NIBCO INC., US
[86] (3002973)
[87] (3002973)
[22] 2018-04-26
[30] US (62/491,848) 2017-04-28
[30] US (62/526,444) 2017-06-29
[30] US (15/961,135) 2018-04-24

[11] **3,003,168**
[13] C

[51] **Int.Cl. G06T 13/00 (2011.01) G06T 13/40 (2011.01) H04N 21/81 (2011.01) G10L 15/187 (2013.01) G10L 21/0272 (2013.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RENDERING OF AN ANIMATED AVATAR**
[54] **SYSTEME ET PROCEDE DE RENDU D'UN AVATAR ANIME**
[72] JENKIN, MICHAEL, CA
[72] TARAWNEH, ENAS, CA
[73] JENKIN, MICHAEL, CA
[73] TARAWNEH, ENAS, CA
[86] (3003168)
[87] (3003168)
[22] 2018-05-01

[11] **3,004,413**
[13] C

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 43/12 (2006.01) G01V 3/18 (2006.01)**
[25] EN
[54] **ELECTRICAL IMPEDANCE TOMOGRAPHY USING A SWITCHABLE ARRAY**
[54] **TOMOGRAPHIE A IMPEDANCE ELECTRIQUE UTILISANT UN RESEAU COMMUTABLE**
[72] HUANG, WEI HSUAN, SG
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2018-05-04
[86] 2015-12-16 (PCT/US2015/066063)
[87] (WO2017/105432)

[11] **3,013,037**
[13] C

[51] **Int.Cl. C07C 233/48 (2006.01) A61K 31/223 (2006.01) C07C 69/017 (2006.01) C07C 229/08 (2006.01) C07C 237/06 (2006.01)**
[25] EN
[54] **BIOLOGICALLY ACTIVE CANNABIDIOL ANALOGS**
[54] **ANALOGUES DE CANNABIDIOL BIOLOGIQUEMENT ACTIFS**
[72] ELSOHLY, MAHMOUD A., US
[72] MAJUMDAR, SOUMYAJIT, US
[72] GUL, WASEEM, US
[72] ASHFAQ, MOHAMMAD KHALID, US
[72] SUFKA, KENNETH JOSEPH, US
[72] HARRIS, HANNAH MARIE, US
[73] UNIVERSITY OF MISSISSIPPI, US
[85] 2018-07-27
[86] 2017-01-27 (PCT/US2017/015366)
[87] (WO2017/132526)
[30] US (62/289,184) 2016-01-29

[11] **3,013,462**
[13] C

[51] **Int.Cl. A61F 5/445 (2006.01)**
[25] EN
[54] **RETRACTABLE OUTLET FOR OSTOMY POUCH**
[54] **SORTIE RETRACTABLE POUR POCHE DE STOMIE**
[72] GRUM-SCHWENSEN, CHRISTEN, US
[72] TORSTENSEN, JAN, US
[72] MAACK, METTE DYBENDAL, US
[72] NIELSEN, KENNETH, US
[72] RICHMANN, SUSSIE, US
[72] WOHLGEMUTH, JAN, US
[72] MOLLER-JENSEN, PETER, US
[72] SKJODT, OLE, US
[73] HOLLISTER INCORPORATED, US
[85] 2018-08-01
[86] 2017-01-31 (PCT/US2017/015727)
[87] (WO2017/136304)
[30] US (62/291,912) 2016-02-05

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[13] C
[51] **Int.Cl. H02B 1/14 (2006.01) F16B 45/00 (2006.01) F16P 1/02 (2006.01)**
[25] EN
[54] **ELECTRICAL SUBSTATION SAFETY BARRIER DEVICE AND METHOD**
[54] **DISPOSITIF DE BARRIERE DE SECURITE DE POSTE ELECTRIQUE SECONDAIRE ET METHODE**
[72] PATTERSON, JEFFREY MICHAEL, US
[72] LEWIS, JOSHUA DAVID, US
[72] HEINZ, KURT PATRICK, US
[73] PUGET SOUND ENERGY, INC., US
[86] (3022724)
[87] (3022724)
[22] 2018-10-30
[30] US (62/581204) 2017-11-03

[11] **3,024,718**
[13] C
[51] **Int.Cl. G06Q 30/00 (2012.01)**
[25] EN
[54] **DATA EXCHANGE PROCESSING METHOD, TERMINAL, AND SYSTEM**
[54] **PROCEDE, TERMINAL ET SYSTEME DE TRAITEMENT D'ECHANGE DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-11-19
[86] 2015-06-30 (PCT/CN2015/082785)
[87] (WO2017/000186)

[11] **3,030,086**
[13] C
[51] **Int.Cl. A61N 1/378 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **ELECTROTHERAPY DEVICE CAPABLE OF GRADUALLY INCREASING STIMULATION INTENSITY**
[54] **APPAREIL D'ELECTROTHERAPIE CAPABLE D'AUGMENTER PROGRESSIVEMENT L'INTENSITE DE LA STIMULATION**
[72] HO, HOI MING MICHAEL, CA
[73] HO, HOI MING MICHAEL, CA
[86] (3030086)
[87] (3030086)
[22] 2019-01-15
[30] US (15/895,004) 2018-02-13

[11] **3,030,669**
[13] C
[51] **Int.Cl. E04B 1/682 (2006.01) F16J 15/02 (2006.01) F16L 21/02 (2006.01)**
[25] EN
[54] **REMOVABLE AND REPLACEABLE ANCHORED TUNNEL GASKET**
[54] **JOINT TUNNEL ANCRE REMPLACABLE ET AMOVIBLE**
[72] ANDRICK, WILLIAM C., US
[72] BOWERS, RICHARD J., US
[72] DAVIDSON, TROY, US
[72] WESTHOFF, JAMES A., US
[73] VERTEX, INC., US
[86] (3030669)
[87] (3030669)
[22] 2019-01-18
[30] US (62/619399) 2018-01-19
[30] US (16/248184) 2019-01-15

[11] **3,032,072**
[13] C
[51] **Int.Cl. A61K 31/575 (2006.01) A61K 8/63 (2006.01) A61K 9/06 (2006.01) A61K 9/14 (2006.01) A61K 9/70 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **COMPOSITION FOR PREVENTION OR TREATMENT OF INFLAMMATORY SKIN DISEASES OR SEVERE PRURITIS COMPRISING THE AQUEOUS SOLUBILIZED URSODEOXYCHOLIC ACID**
[54] **COMPOSITION DE PREVENTION OU TRAITEMENT DE MALADIES CUTANEEES INFLAMMATOIRES OU DE PRURIT GRAVE RENFERMANT DE L'ACIDE URSODESOXYCHOLIQUE SOLUBILISE DANS L'EAU**
[72] SONG, YEONG HO, KR
[72] KO, HWI JIN, KR
[73] AMICOGEN PHARMA INC., KR
[85] 2019-01-25
[86] 2017-09-28 (PCT/KR2017/010893)
[87] (WO2018/062922)
[30] KR (10-2016-0126872) 2016-09-30
[30] KR (10-2017-0125571) 2017-09-27

[11] **3,037,389**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PROCESSING PRODUCT INFORMATION**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'INFORMATIONS DE PRODUIT**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2019-03-19
[86] 2015-12-04 (PCT/CN2015/096411)
[87] (WO2017/092033)

[11] **3,040,165**
[13] C
[51] **Int.Cl. G06N 3/04 (2006.01)**
[25] EN
[54] **SPATIAL ATTENTION MODEL FOR IMAGE CAPTIONING**
[54] **MODELE D'ATTENTION SPATIALE POUR SOUS-TITRAGE D'IMAGE**
[72] LU, JIASEN, US
[72] XIONG, CAIMING, US
[72] SOCHER, RICHARD, US
[73] SALESFORCE.COM, INC., US
[85] 2019-04-10
[86] 2017-11-18 (PCT/US2017/062433)
[87] (WO2018/094294)
[30] US (62/424,353) 2016-11-18
[30] US (15/817,153) 2017-11-17
[30] US (15/817,161) 2017-11-17
[30] US (15/817,165) 2017-11-18

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[11] **3,040,979**
[13] C

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINATION OF AN ANALYTE CONCENTRATION IN A BODY FLUID AND ANALYTE CONCENTRATION MEASUREMENT DEVICE**
[54] **PROCEDE DE DETERMINATION D'UNE CONCENTRATION D'ANALYTE DANS UN LIQUIDE ORGANIQUE ET DISPOSITIF DE MESURE DE CONCENTRATION D'ANALYTE**
[72] HUELLEN, VOLKER, DE
[72] BERG, MAX, DE
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2019-04-17
[86] 2017-10-24 (PCT/EP2017/077137)
[87] (WO2018/077863)
[30] EP (16195524.0) 2016-10-25

[11] **3,042,496**
[13] C

[51] **Int.Cl. H02J 3/46 (2006.01) H02J 3/06 (2006.01) H02J 9/06 (2006.01)**
[25] EN
[54] **POWER SUPPLY SYSTEM**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUE**
[72] UMEZU, YUSUKE, JP
[72] SUGIMOTO, KAZUSHIGE, JP
[72] BANDO, SOICHIRO, JP
[72] YAMAGUCHI, NAOKI, JP
[72] KIMURA, KIYOSHI, JP
[72] TAKAYAMA, SUGURU, JP
[72] UDA, TAKATO, JP
[73] KAWASAKI JUKOGYO KABUSHIKI KAISHA, JP
[85] 2019-05-01
[86] 2017-12-26 (PCT/JP2017/046764)
[87] (WO2018/124123)
[30] JP (2016-254003) 2016-12-27

[11] **3,042,748**
[13] C

[51] **Int.Cl. H04B 7/04 (2017.01)**
[25] EN
[54] **INFORMATION FEEDBACK METHOD, USER EQUIPMENT, AND NETWORK DEVICE**
[54] **PROCEDE DE RETOUR D'INFORMATIONS, EQUIPEMENT UTILISATEUR ET DISPOSITIF DE RESEAU**
[72] JIN, HUANGPING, CN
[72] HAN, WEI, CN
[72] SHANG, PENG, CN
[72] BI, XIAOYAN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-05-03
[86] 2017-10-20 (PCT/CN2017/107138)
[87] (WO2018/082459)
[30] CN (201610963566.3) 2016-11-04
[30] CN (201710215597.5) 2017-04-04

[11] **3,043,560**
[13] C

[51] **Int.Cl. E04D 13/04 (2006.01) E04D 1/36 (2006.01)**
[25] EN
[54] **KICK OUT FLASHING**
[54] **SOLIN DE DERIVATION**
[72] THOMPSON, LEON W., US
[72] THOMPSON, NATHAN L., US
[72] THOMPSON, JACOB M., US
[73] AMERICAN FLASHINGS AND ACCESSORIES, LLC, US
[86] (3043560)
[87] (3043560)
[22] 2019-05-16
[30] US (16/162,938) 2018-10-17

[11] **3,044,788**
[13] C

[51] **Int.Cl. C09D 11/104 (2014.01) C09D 11/106 (2014.01) B41F 7/02 (2006.01)**
[25] EN
[54] **AQUEOUS INK COMPOSITION COMPRISING POLYISOPRENE**
[54] **COMPOSITION D'ENCRE AQUEUSE RENFERMANT DU POLYISOPRENE**
[72] CHOPRA, NAVEEN, CA
[72] ABRAHAM, BIBY ESTHER, CA
[72] SACRIPANTE, GUERINO G., CA
[72] MOORLAG, CAROLYN, CA
[73] XEROX CORPORATION, US
[86] (3044788)
[87] (3044788)
[22] 2019-05-30
[30] US (15/997746) 2018-06-05

[11] **3,048,147**
[13] C

[51] **Int.Cl. F02C 7/052 (2006.01) F02C 7/14 (2006.01) F02C 7/18 (2006.01)**
[25] EN
[54] **PARTICLE SEPARATOR ASSEMBLY FOR A TURBINE ENGINE**
[54] **ENSEMBLE SEPARATEUR DE PARTICULES POUR MOTEUR A TURBINE**
[72] RAMBO, JEFFREY DOUGLAS, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-06-21
[86] 2017-12-18 (PCT/US2017/067097)
[87] (WO2018/128790)
[30] US (15/397,797) 2017-01-04

[11] **3,048,930**
[13] C

[51] **Int.Cl. B65H 20/06 (2006.01)**
[25] EN
[54] **BELT WINDING AND UNWINDING DEVICE FOR BELT CONVEYOR**
[54] **DISPOSITIF D'ENROULEMENT ET DE DEROULEMENT DE BANDE POUR CONVOYEUR A BANDE**
[72] KOU, ZIMING, CN
[72] WU, JUAN, CN
[72] GAO, GUIJUN, CN
[72] ZHANG, JING, CN
[72] XUE, JIABAO, CN
[72] TIAN, DINGKUI, CN
[73] TAIYUAN UNIVERSITY OF TECHNOLOGY, CN
[85] 2019-06-28
[86] 2017-01-13 (PCT/CN2017/071187)
[87] (WO2018/126492)
[30] CN (201710015116.6) 2017-01-09

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[11] **3,049,275**
[13] C

[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **METHOD FOR TRANSMITTING UPLINK CONTROL CHANNEL, NETWORK DEVICE AND TERMINAL DEVICE**
[54] **PROCEDE DE TRANSMISSION D'UN CANAL DE COMMANDE DE LIAISON MONTANTE, DISPOSITIF DE RESEAU ET DISPOSITIF DE TERMINAL**
[72] LIN, YANAN, CN
[72] XU, HUA, CA
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-07-04
[86] 2017-01-05 (PCT/CN2017/070328)
[87] (WO2018/126416)

[11] **3,050,546**
[13] C

[51] **Int.Cl. A21D 2/00 (2006.01) A21D 13/20 (2017.01) A21D 13/42 (2017.01) A21D 13/00 (2017.01)**
[25] EN
[54] **TAPIOCA TORTILLA AND METHOD OF MAKING**
[54] **TORTILLA A BASE DE TAPIOCA ET PROCEDE DE FABRICATION**
[72] ANAND, AARTI, US
[72] CAMMAROTA, CARINA CLAUDIA, ES
[72] MURGUI, XABIER, ES
[72] GARCIA, JONAS PLAZA, ES
[73] GENERAL MILLS, INC., US
[85] 2019-07-16
[86] 2018-02-06 (PCT/US2018/016972)
[87] (WO2018/148172)
[30] US (15/426,188) 2017-02-07

[11] **3,053,324**
[13] C

[51] **Int.Cl. E21B 49/08 (2006.01) E21B 21/01 (2006.01) E21B 47/06 (2012.01)**
[25] EN
[54] **USING THE SPECIFIC HEAT CAPACITY OF A DRILLING FLUID TO DETERMINE OTHER PROPERTIES THEREOF**
[54] **UTILISATION DE LA CAPACITE THERMIQUE MASSIQUE D'UN FLUIDE DE FORAGE POUR DETERMINER D'AUTRES PROPRIETES ASSOCIEES**
[72] KLEINGUETL, KEVIN GREGORY, US
[72] JACKSON, BRICE AARON, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-08-12
[86] 2017-04-12 (PCT/US2017/027138)
[87] (WO2018/190821)

[11] **3,053,601**
[13] C

[51] **Int.Cl. E04F 15/02 (2006.01) B27F 1/02 (2006.01) B27M 3/04 (2006.01)**
[25] EN
[54] **A METHOD FOR DIVIDING A BOARD INTO A FIRST PANEL AND A SECOND PANEL, A METHOD OF FORMING A MECHANICAL LOCKING SYSTEM FOR LOCKING OF A FIRST AND A SECOND PANEL, AND BUILDING PANELS**
[54] **PROCEDE POUR LA DIVISION D'UNE PLANCHE EN UN PREMIER PANNEAU ET UN SECOND PANNEAU, PROCEDE DE FORMATION D'UN SYSTEME DE VERROUILLAGE MECANIQUE POUR VERROUILLER UN PREMIER PANNEAU ET UN SECOND PANNEAU, ET PANNEAUX DE CONSTRUCTION**
[72] PALSSON, AGNE, SE
[72] PERVAN, DARKO, SE
[73] VALINGE INNOVATION AB, SE
[86] (3053601)
[87] (3053601)
[22] 2013-06-18
[62] 2,876,210
[30] SE (1250656-4) 2012-06-19
[30] US (61/661,645) 2012-06-19
[30] SE (1250691-1) 2012-06-26
[30] SE (1350027-7) 2013-01-11

[11] **3,055,108**
[13] C

[51] **Int.Cl. G06F 16/23 (2019.01) G06F 16/22 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PARALLEL-PROCESSING BLOCKCHAIN TRANSACTIONS**
[54] **SYSTEME ET PROCEDE POUR LE TRAITEMENT PARALLELE DE TRANSACTIONS DE CHAINES DE BLOCS**
[72] XIE, GUILU, CN
[72] XIA, NING, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-08-30
[86] 2019-03-28 (PCT/CN2019/080036)
[87] (WO2019/120320)

[11] **3,061,083**
[13] C

[51] **Int.Cl. C10G 27/04 (2006.01) C01F 11/36 (2006.01) C10C 3/04 (2006.01) C10G 27/12 (2006.01) C10G 29/06 (2006.01)**
[25] EN
[54] **PREVENTION OF THE EMISSION OF HYDROGEN SULPHIDE IN THE PRODUCTION OF HOT BITUMEN OR ASPHALT**
[54] **PREVENTION DE L'EMISSION DE SULFURE D'HYDROGENE DANS LA PRODUCTION DE BITUME OU D'ASPHALTE CHAUD**
[72] FRANKE, WOLFRAM, NO
[72] BREKKE DAHL THOMMESEN, HILDE, NO
[73] YARA INTERNATIONAL ASA, NO
[85] 2019-10-22
[86] 2018-07-17 (PCT/EP2018/069363)
[87] (WO2019/016193)
[30] EP (17181653.1) 2017-07-17

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[11] **3,064,497**
[13] C

[51] **Int.Cl. C12P 7/04 (2006.01) C12P 7/06 (2006.01) C12P 7/16 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN BIOLOGICAL CONVERSION AND PRODUCT RECOVERY PROCESSES**

[54] **AMELIORATIONS DE PROCEDES DE CONVERSION BIOLOGIQUE ET DE RECUPERATION DE PRODUITS**

[72] MAWDSLEY, MICHAEL JAMES HENRY, US

[72] MARTIN, MICHAEL EMERSON, US

[72] SMART, KATHLEEN FRANCIS, US

[72] BRENC, RACHEL JANE, US

[73] LANZATECH, INC., US

[85] 2019-11-20

[86] 2018-06-13 (PCT/US2018/037283)

[87] (WO2018/231948)

[30] US (62/518,895) 2017-06-13

[11] **3,067,012**
[13] C

[51] **Int.Cl. A61K 31/232 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **METHODS OF REDUCING THE RISK OF A CARDIOVASCULAR EVENT IN A SUBJECT ON STATIN THERAPY**

[54] **PROCEDES DE REDUCTION DU RISQUE D'UN EVENEMENT CARDIOVASCULAIRE CHEZ UN SUJET SOUMIS A UN TRAITEMENT PAR UNE STATINE**

[72] SONI, PARESH, US

[73] AMARIN PHARMACEUTICALS IRELAND LIMITED, IE

[86] (3067012)

[87] (3067012)

[22] 2013-06-28

[62] 2,877,514

[30] US (61/666,447) 2012-06-29

[11] **3,068,417**
[13] C

[51] **Int.Cl. H04N 7/18 (2006.01) H04N 21/24 (2011.01) G09G 5/00 (2006.01) G09G 5/377 (2006.01)**

[25] EN

[54] **DISPLAY CONTROL APPARATUS, DISPLAY CONTROL METHOD, AND PROGRAM**

[54] **DISPOSITIF DE COMMANDE D'AFFICHAGE, PROCEDE DE COMMANDE D'AFFICHAGE, ET PROGRAMME**

[72] SHIKATA, YASUSHI, JP

[72] IWAKIRI, YOSHIKI, JP

[73] CANON KABUSHIKI KAISHA, JP

[85] 2019-12-23

[86] 2018-06-18 (PCT/JP2018/023063)

[87] (WO2018/235762)

[30] JP (2017-123318) 2017-06-23

[30] JP (2018-022067) 2018-02-09

[11] **3,071,225**
[13] C

[51] **Int.Cl. G06F 9/445 (2018.01) G06F 9/448 (2018.01)**

[25] EN

[54] **APPARATUSES, METHODS AND SYSTEMS FOR PERSISTING VALUES IN A COMPUTING ENVIRONMENT**

[54] **APPAREILS, PROCEDES ET SYSTEMES DE VALEURS PERSISTANTES DANS UN ENVIRONNEMENT INFORMATIQUE**

[72] KOHN, DAVID, US

[73] FINANCIAL & RISK ORGANISATION LIMITED, GB

[85] 2020-01-27

[86] 2018-08-07 (PCT/IB2018/001036)

[87] (WO2019/038590)

[30] US (15/683,330) 2017-08-22

[11] **3,074,943**
[13] C

[51] **Int.Cl. F24F 3/14 (2006.01) F24F 11/30 (2018.01) F24F 11/83 (2018.01) F24F 3/153 (2006.01) F24F 7/06 (2006.01)**

[25] EN

[54] **METHOD FOR ENERGY EFFICIENT CONDITIONING OF AIR**

[54] **METHODE DE CONDITIONNEMENT D'AIR A HAUT RENDEMENT ENERGETIQUE**

[72] ASCOUGH, TOM, IE

[72] ASCOUGH, SEAN, IE

[73] ASCOUGH, TOM, IE

[73] ASCOUGH, SEAN, IE

[85] 2020-03-05

[86] 2018-11-29 (PCT/EP2018/082920)

[87] (WO2019/106059)

[30] EP (17204317.6) 2017-11-29

[11] **3,082,668**
[13] C

[51] **Int.Cl. B01J 20/24 (2006.01) C01B 32/50 (2017.01) B01D 53/02 (2006.01) B01D 53/62 (2006.01) B01D 53/64 (2006.01)**

[25] EN

[54] **PLANT FIBER-BASED INTELLIGENT ADSORPTIVE MATERIAL WITH MULTI-ADSORPTION SITES AND PREPARATION METHOD AND USE THEREOF**

[54] **MATIERE ABSORBANTE INTELLIGENTE A BASE DE FIBRES VEGETALES COMPORTANT DE MULTIPLES SITES D'ABSORPTION, METHODE DE PREPARATION ET UTILISATION**

[72] ZHU, HONGXIANG, CN

[72] HE, HUI, CN

[72] QIN, CHENGRONG, CN

[72] WANG, LEI, CN

[72] ZHOU, HANG, CN

[72] CHEN, ZHIPING, CN

[72] QUAN, ZONGYAN, CN

[73] GUANGXI UNIVERSITY, CN

[86] (3082668)

[87] (3082668)

[22] 2020-06-09

[30] CN (202010291732.6) 2020-04-14

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[11] **3,083,148**
[13] C

[51] **Int.Cl. G06F 16/2453 (2019.01)**
[25] EN
[54] **COST-BASED OPTIMIZER, AND COST ESTIMATION METHOD AND DEVICE THEREOF**
[54] **OPTIMISEUR DE COUT, ET PROCEDE D'ESTIMATION DE COUT ET DISPOSITIF ASSOCIE**
[72] XIA, LI, CN
[72] CHEN, ZHENQIANG, CN
[73] TRANSWARP TECHNOLOGY (SHANGHAI) CO., LTD., CN
[85] 2020-05-21
[86] 2018-11-22 (PCT/CN2018/116874)
[87] (WO2019/101119)
[30] CN (201711175349.9) 2017-11-22

[11] **3,085,001**
[13] C

[51] **Int.Cl. C07K 5/062 (2006.01) A61K 47/65 (2017.01) A61P 35/00 (2006.01) C07K 5/00 (2006.01) C07K 5/027 (2006.01) C07K 5/06 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **ONE-POT PROCESS FOR PREPARING INTERMEDIATE OR ANTIBODY-DRUG CONJUGATE**
[54] **PROCEDE EN UN POT POUR PREPARER DES CONJUGUES DE MEDICAMENTS INTERMEDIAIRES OU ANTICORPS**
[72] ZHAOXING, YU, CN
[72] MINGCHAO, LAN, CN
[72] XINJIE, MAO, CN
[72] XINFANG, LI, CN
[73] MABPLEX INTERNATIONAL CO., LTD., CN
[85] 2020-06-26
[86] 2020-02-13 (PCT/CN2020/074987)
[87] (WO2020/233174)
[30] CN (201910420868.X) 2019-05-20
[30] CN (201910916198.0) 2019-09-26
[30] CN (201910916200.4) 2019-09-26
[30] CN (201910916242.8) 2019-09-26
[30] CN (201910916470.5) 2019-09-26
[30] CN (201910916508.9) 2019-09-26
[30] CN (201910916510.6) 2019-09-26

[11] **3,085,638**
[13] C

[51] **Int.Cl. G06F 16/332 (2019.01) G06F 16/33 (2019.01) G06F 16/9032 (2019.01)**
[25] EN
[54] **USER CUSTOMISED SEARCH ENGINE USING MACHINE LEARNING, NATURAL LANGUAGE PROCESSING AND READABILITY ANALYSIS**
[54] **MOTEUR DE RECHERCHE PERSONNALISE PAR L'UTILISATEUR UTILISANT UN APPRENTISSAGE AUTOMATIQUE, TRAITEMENT DE LANGAGE NATUREL ET ANALYSE DE LISIBILITE**
[72] POWER, TIMOTHY, AU
[72] TOMES, LUKE, NZ
[72] LANE, MITCHELL, NZ
[73] INQUISITIVE PTY LIMITED, AU
[85] 2020-06-12
[86] 2018-12-14 (PCT/AU2018/051340)
[87] (WO2019/113648)
[30] AU (2017905009) 2017-12-14

[11] **3,090,214**
[13] C

[51] **Int.Cl. H04W 24/04 (2009.01) H04W 16/26 (2009.01) H04W 84/00 (2009.01) B64C 39/02 (2006.01) B64D 47/02 (2006.01) H04B 7/185 (2006.01)**
[25] EN
[54] **HAPS COOPERATIVE FLIGHT SYSTEM**
[54] **SYSTEME DE VOL COORDONNE HAPS**
[72] FUJII, TAKAFUMI, JP
[72] OTA, YOSHICHIKA, JP
[72] HOSHINO, KENJI, JP
[73] SOFTBANK CORP., JP
[85] 2020-07-31
[86] 2019-01-22 (PCT/JP2019/001917)
[87] (WO2019/155872)
[30] JP (2018-018968) 2018-02-06

[11] **3,093,689**
[13] C

[51] **Int.Cl. A63B 69/00 (2006.01)**
[25] EN
[54] **HOCKEY FACEOFF TRAINING DEVICE WITH DUAL-PURPOSE SUPPORT POSTS, RETRACTABLE GRIP SPIKES, INLINE SPRING JOINT AND GRIPPING CAVITIES**
[54] **APPAREIL D'ENTRAINEMENT A LA MISE AU JEU DE HOCKEY AVEC POTEAUX DE SOUTIEN A DOUBLE FONCTION, PICS D'ADHERENCE RETRACTABLES, JOINT DE RESSORT EN CONDUIT ET CAVITES DE PREHENSION**
[72] BEAR, CONRAD, CA
[73] BEAR, CONRAD, CA
[86] (3093689)
[87] (3093689)
[22] 2020-09-21

[11] **3,096,936**
[13] C

[51] **Int.Cl. B23Q 11/00 (2006.01)**
[25] EN
[54] **MACHINE TOOL OPERATION MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DES OPERATIONS D'UNE MACHINE-OUTIL**
[72] AMAYA, KOICHI, JP
[72] TAKEZAWA, YASUNORI, JP
[72] YAMAUCHI, KAZUYA, JP
[73] MATSUURA MACHINERY CORPORATION, JP
[85] 2020-10-14
[86] 2020-03-16 (PCT/JP2020/011490)
[87] (3096936)
[30] JP (2019-141876) 2019-08-01

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[11] **3,098,367**
[13] C

[51] **Int.Cl. H04R 29/00 (2006.01) E04B 1/99 (2006.01) H04R 3/00 (2006.01) H04S 3/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR IMPROVED ACOUSTIC ENVIRONMENT CHARACTERIZATION**

[54] **PROCEDES ET SYSTEMES PERMETTANT D'AMELIORER LA CARACTERISATION D'ENVIRONNEMENTS ACOUSTIQUES**

[72] KNICKREHM, GLENN, US

[72] BASSUET, ALBAN, US

[72] ELLERINGTON, GEORGE, GB

[72] WOODGER, ANDREW NEILL, GB

[73] CONSTELLATION PRODUCTIONS, INC., US

[86] (3098367)

[87] (3098367)

[22] 2009-06-30

[62] 3,030,124

[30] US (61/176,426) 2007-05-07

[30] US (61/076,859) 2008-06-30

[30] US (61/185,837) 2009-06-10

[11] **3,102,649**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01) H02J 50/00 (2016.01) A47B 97/00 (2006.01) G09F 23/00 (2006.01)**

[25] EN

[54] **WIRELESS CHARGING SYSTEM FOR SMARTDEVICES, KIT AND METHOD FOR USING THE SAME**

[54] **SYSTEME DE CHARGE SANS FIL POUR DISPOSITIFS INTELLIGENTS, KIT ET PROCEDE D'UTILISATION DE CELUI-CI**

[72] DESHAIES, PATRICK, CA

[73] MOBLEK INC., CA

[85] 2020-12-04

[86] 2019-06-12 (PCT/CA2019/050830)

[87] (WO2019/237197)

[30] CA (3008263) 2018-06-13

[11] **3,105,596**
[13] C

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[25] EN

[54] **DOWNHOLE TOOL**

[54] **OUTIL DE FOND DE TROU**

[72] KOBAYASHI, FUMINORI, JP

[72] SAIJO, HIKARU, JP

[73] KUREHA CORPORATION, JP

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[87] (WO2020/012839)

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[11] **3,106,793**
[13] C

[51] **Int.Cl. A41H 43/00 (2006.01) D06C 21/00 (2006.01) D06C 23/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR APPLYING PERSONAL PROTECTIVE WEAR**

[54] **SYSTEME ET METHODE DE PORT DE VETEMENT DE PROTECTION PERSONNELLE**

[72] NESHAT GHARAMALEKI, MEHRDAD, CA

[72] ABDOLLAHIAN, ALIREZA, CA

[72] RAZAVIZARIFIPASAND, SAMANEH, CA

[73] HABCO CANADA INC., CA

[86] (3106793)

[87] (3106793)

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[11] **3,108,230**
[13] C

[51] **Int.Cl. A01K 61/13 (2017.01)**

[25] EN

[54] **AN APPARATUS FOR DESTROYING PARASITES ON FISH**

[54] **APPAREIL POUR DETRUIRE DES PARASITES SUR DES POISSONS**

[72] CASEY, RORY, IE

[73] ATLANTIC PHOTONIC SOLUTIONS LTD., IE

[85] 2021-01-29

[86] 2019-11-22 (PCT/EP2019/082197)

[87] (WO2020/104641)

[30] GB (1819016.5) 2018-11-22

[11] **3,110,023**
[13] C

[51] **Int.Cl. A61K 8/25 (2006.01) A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/31 (2006.01) A61K 8/37 (2006.01) A61K 8/39 (2006.01) A61K 8/81 (2006.01) A61K 8/86 (2006.01) A61Q 1/14 (2006.01)**

[25] EN

[54] **OIL-BASED SOLID COSMETIC**

[54] **PRODUIT COSMETIQUE SOLIDE A BASE D'HUILE**

[72] YUASA, RYUTA, JP

[72] UCHIDA, KAZUKI, JP

[72] AKIZUKI, YUSUKE, JP

[73] JO COSMETICS CO., LTD., JP

[85] 2021-02-18

[86] 2019-08-06 (PCT/JP2019/031004)

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[54] **MULTI-SEAT GATE VALVE**

[54] **ROBINET-VANNE A SIEGES MULTIPLES**

[72] BRENNAN, JOHN, US

[73] FRANKLIN VALVE, LP, US

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[25] EN
[54] **DUAL COMPOSITION BLOCK COPOLYMERS**
[54] **COPOLYMERES SEQUENCES A DEUX COMPOSITIONS**
[72] ELIZARRARAS MAYA, DANIEL ABRAHAM, MX
[72] ZUNIGA CALLES, ABEL, MX
[72] HERNANDEZ ZAMORA, GABRIEL, MX
[72] GARCIA VIDALES, JOSE LUIS, MX
[72] IBARRA RODRIGUEZ, JESUS EDUARDO, MX
[73] DYNASOL ELASTOMEROS, S. A. DE C. V., MX
[85] 2021-04-08
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[25] EN
[54] **MULTISPECTRAL HARMONISATION DEVICE INTENDED FOR ALIGNING THE OPTICAL CHANNELS OF AN OPTRONIC SYSTEM**
[54] **DISPOSITIF D'HARMONISATION MULTI-SPECTRAL DESTINE A ALIGNER LES VOIES OPTIQUES D'UN SYSTEME OPTRONIQUE**
[72] DAVENEL, ARNAUD, FR
[73] SAFRAN ELECTRONICS & DEFENSE, FR
[85] 2021-05-28
[86] 2019-12-09 (PCT/EP2019/084145)
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[13] C

[51] **Int.Cl. F21S 2/00 (2016.01) F21S 4/20 (2016.01) F21S 4/28 (2016.01) F21S 8/06 (2006.01) F21V 23/00 (2015.01)**
[25] EN
[54] **LIGHTING SYSTEM**
[54] **SYSTEME D'ECLAIRAGE**
[72] SONNEMAN, ROBERT, US
[72] GARNETT, CHRISTIAN, US
[72] PIRES DA SILVA, NUNO LUIS, PT
[72] WANG, YANGYANG, US
[73] CONTEMPORARY VISIONS, LLC, US
[85] 2021-04-23
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[25] FR
[54] **NOTIFICATION ALARM FOR SPA**
[54] **ALARME DE NOTIFICATION POUR SPA**
[72] ST-PIERRE, PHILIPPE P. S., CA
[71] ST-PIERRE, PHILIPPE P. S., CA
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[21] **3,076,329**
[13] A1
[51] **Int.Cl. G06F 16/28 (2019.01) G06F 16/906 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING DATA PATTERNS USING DATA MINING**
[54] **SYSTEME ET METHODE POUR DETERMINER DES MODELES DE DONNEES AU MOYEN DE L'EXTRACTION DE DONNEES**
[72] WONG, ANDREW KA-CHING, CA
[72] ZHOU, PEIYUAN, CA
[71] WONG, ANDREW KA-CHING, CA
[71] ZHOU, PEIYUAN, CA
[22] 2020-03-19
[41] 2021-09-19

[21] **3,076,362**
[13] A1
[51] **Int.Cl. E01F 9/688 (2016.01)**
[25] FR
[54] **COMPACT TRIVET AS TEMPORARY MARKER**
[54] **TREPIED COMPACT COMME BALISE TEMPORAIRE**
[72] LINTEAU, EMMANUEL, CA
[71] LINTEAU, EMMANUEL, CA
[22] 2020-03-19
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[21] **3,076,403**
[13] A1
[51] **Int.Cl. B60S 5/02 (2006.01) B60K 15/00 (2006.01) F17C 13/08 (2006.01)**
[25] EN
[54] **REPOWERING SYSTEM FOR VEHICLES AND VESSELS**
[54] **SYSTEME DE REALIMENTATION POUR VEHICULES ET NAVIRES**
[72] MILLER, BRAD, CA
[71] ADVANTEC GLOBAL INNOVATIONS INC., CA
[22] 2020-03-19
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[21] **3,076,438**
[13] A1
[51] **Int.Cl. F16B 19/05 (2006.01) F16B 19/08 (2006.01)**
[25] EN
[54] **REDUCED RING GROOVE RIVET**
[54] **RIVET A GORGE REDUITE**
[72] CHEN, WEN-PIN, CN
[72] SAQUING, MAGORA DOMINGO, JR., CN
[71] RODEX FASTENERS CORP., CN
[71] GOEBEL INNOVATIVE ENTREPRENEURIAL COMPANY (LIMITED LIABILITY), DE
[22] 2020-03-20
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[21] **3,076,640**
[13] A1
[51] **Int.Cl. H03C 1/00 (2006.01) H04B 1/66 (2006.01)**
[25] EN
[54] **HIGH SPECTRAL EFFICIENCY "ZERO BANDWIDTH MODULATION PROCESS" WITHOUT SIDE BANDS**
[54] **« PROCEDE DE MODULATION SANS LARGEUR DE BANDE » A GRANDE EFFICACITE DE SPECTRE SANS BANDES LATERALES**
[72] AGGARWAL, RAKESH, IN
[71] AGGARWAL, RAKESH, IN
[22] 2020-03-23
[41] 2021-09-23

[21] **3,076,643**
[13] A1
[51] **Int.Cl. D21H 27/20 (2006.01) A47B 97/00 (2006.01) B32B 7/06 (2019.01) B32B 7/12 (2006.01) B32B 29/06 (2006.01) E05B 1/00 (2006.01)**
[25] EN
[54] **TEARAWAY SURFACES**
[54] **SURFACES DECHIRABLES**
[72] POZDNEKOFF, RYLAN K., CA
[72] POZDNEKOFF, RYLAN, CA
[71] POZDNEKOFF, RYLAN K., CA
[71] POZDNEKOFF, RYLAN, CA
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[41] 2021-09-20

[21] **3,076,644**
[13] A1
[51] **Int.Cl. A61K 31/7032 (2006.01) A61K 31/12 (2006.01) A61K 31/16 (2006.01) A61P 1/02 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR ORAL CANCER OR AN OROPHARYNGEAL CANCER**
[54] **COMPOSITIONS POUR LE TRAITEMENT DU CANCER DE LA BOUCHE OU D'UN CANCER DE L'OROPHARYNX**
[72] GROSS, ANDREW, US
[72] RIRIE, SHANE, US
[71] GR BIOSYSTEMS, INC., US
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[13] A1

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[54] **PORTABLE BLOCKCHAIN MINING SYSTEMS AND METHODS OF USE**

[54] **SYSTEMES D'EXPLORATION DE LA CHAINE DE BLOCS ET METHODES D'UTILISATION**

[72] BARBOUR, STEPHEN, CA

[71] UPSTREAM DATA INC., CA

[22] 2020-03-21

[41] 2021-09-21

[21] **3,076,693**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) H04W 4/00 (2018.01)**

[25] EN

[54] **SANITIZING ACCESSORY WITH PROTECTIVE AND REUSABLE ACCESSORIES FOR ANTIBACTERIAL, VIRUS SPREAD REDUCTION, AND SAFEGUARDING TRANSFER THROUGH AN APPARATUS FOR MANAGING DATA AND SMART GUIDANCE**

[54] **ACCESSOIRE D'ASSAINISSEMENT COMPRENANT DES ACCESSOIRES DE PROTECTION REUTILISABLES POUR LA PROTECTION CONTRE LES BACTERIES, LA REDUCTION DE LA PROPAGATION DES VIRUS ET LA PROTECTION DU TRANSFERT DANS UN APPAREIL DE GESTION DES DONNEES, ET CONSIGNES INTELLIGENTES**

[72] ASTERBADI, DALIA, CA

[71] ASTERBADI, DALIA, CA

[22] 2020-03-23

[41] 2021-09-23

[21] **3,076,706**
[13] A1

[51] **Int.Cl. G01N 21/67 (2006.01)**

[25] EN

[54] **A SYSTEM AND METHOD FOR DETECTING SINGLE ELEMENTAL EMISSION LINES IN A GLOW DISCHARGE**

[54] **SYSTEME ET METHODE POUR DETECTER DES LIGNES D'EMISSION ELEMENTAIRE UNIQUES DANS UNE DECHARGE LUMINESCENTE**

[72] CHERAMY, JOSEPH J., CA

[72] NELSON, ANTHONY B., CA

[72] PALMGREN, ANDERS, CA

[71] 2S WATER INCORPORATED, CA

[22] 2020-03-23

[41] 2021-09-23

[21] **3,076,708**
[13] A1

[51] **Int.Cl. A63B 63/00 (2006.01) F21V 15/01 (2006.01) F21V 33/00 (2006.01)**

[25] EN

[54] **LIGHT UP NET**

[54] **FILET ECLAIRANT**

[72] PIZZALE, RAYMOND HOWARD, CA

[71] PIZZALE, RAYMOND HOWARD, CA

[22] 2020-03-24

[41] 2021-09-24

[30] US (16/827,808) 2020-03-24

[21] **3,076,711**
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) G02C 7/04 (2006.01)**

[25] EN

[54] **PHOTOTHERAPY OPHTHALMIC LENSES**

[54] **LENTILLES OPHTALMIQUES DE PHOTOTHERAPIE**

[72] WEN, CHENG YU, CA

[72] SIA, JIN SING, CA

[71] WEN, CHENG YU, CA

[71] ZEITZER, JAMIE, US

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[21] **3,076,715**
[13] A1

[51] **Int.Cl. E02F 3/88 (2006.01) B60P 3/22 (2006.01)**

[25] EN

[54] **SLIDABLE HYDROVAC TANK**

[54] **RESERVOIR HYDROVAC COULISSANT**

[72] RAJEWSKI, ROBERT C., CA

[71] RAJEWSKI, ROBERT C., CA

[22] 2020-03-23

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[21] **3,076,716**
[13] A1

[51] **Int.Cl. E02F 9/18 (2006.01)**

[25] EN

[54] **BOGIE BALANCING SYSTEM AND METHOD FOR A WORK MACHINE**

[54] **SYSTEME D'EQUILIBRAGE D'UN BOGIE ET METHODE POUR UNE MACHINE DE TRAVAIL**

[72] CHOUREY, RAHUL, IN

[72] NEUMANN, BRYON P., IN

[72] EISBACH, ADAM J., US

[71] DEERE & COMPANY, US

[22] 2020-03-23

[41] 2021-09-23

[21] **3,076,719**
[13] A1

[51] **Int.Cl. G01S 19/48 (2010.01)**

[25] EN

[54] **GPS TRACKING DEVICE WITH ARTIFICIAL INTELLIGENCE AND GEO-FENCING**

[54] **DISPOSITIF DE LOCALISATION GPS A INTELLIGENCE ARTIFICIELLE ET GEOBLOCAGE**

[72] OMAR, HOORIA, CA

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[22] 2020-03-23

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[13] A1

[25] EN
 [54] **MIXING ASSEMBLY FOR A CONTAINER AND METHOD OF OPERATING THE SAME**
 [54] **ASSEMBLAGE DE MELANGE POUR UN CONTENANT ET METHODE D'EXPLOITATION**
 [72] GERBOTH, DON MARK, US
 [72] CRAWFORD, GORDON, US
 [72] RICHARDSON, JOHN, US
 [71] ATKINS NUCLEAR SECURED HOLDINGS CORPORATION, US
 [22] 2020-03-23
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[21] **3,076,723**
[13] A1

[51] **Int.Cl. A01G 31/00 (2018.01)**
 [25] EN
 [54] **HYDROPONIC PLANT GROWTH SYSTEM**
 [54] **SYSTEME DE CROISSANCE HYDROPONIQUE DE PLANTES**
 [72] TIDD, CONNER THOMAS SHAW, CA
 [72] JAKIELA, KEVIN, CA
 [72] WONG, THOMAS, CA
 [72] YANG, RANDY, CA
 [72] MUSIELAK, KAMIL, CA
 [71] TIDD, CONNER THOMAS SHAW, CA
 [71] JAKIELA, KEVIN, CA
 [71] WONG, THOMAS, CA
 [71] YANG, RANDY, CA
 [71] MUSIELAK, KAMIL, CA
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 [30] US (16/826,468) 2020-03-23

[21] **3,076,732**
[13] A1

[51] **Int.Cl. A01G 27/00 (2006.01)**
 [25] EN
 [54] **IRRIGATION SYSTEM AND METHOD FOR MOVABLE GROW TABLES**
 [54] **SYSTEME D'IRRIGATION ET METHODE POUR TABLES DE CROISSANCE MOBILES**
 [72] QUIRING, PETER, CA
 [72] MCRAE, MATTHEW JAMES, CA
 [72] FRIESEN, JOSEPH JAKE, CA
 [72] FRIESEN, JACOB, CA
 [71] SOUTH ESSEX FABRICATION INC., CA
 [22] 2020-03-24
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[21] **3,076,736**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 21/60 (2013.01)**
 [25] EN
 [54] **SYSTEMS AND METHODS FOR DATA SECURITY NOTIFICATION GENERATION**
 [54] **SYSTEMES ET METHODES POUR GENERER DES AVIS DE SECURITE DE DONNEES**
 [72] DUNJIC, MILOS, CA
 [72] NGUYEN, ANTHONY HAITUYEN, CA
 [72] TAX, DAVID SAMUEL, CA
 [71] THE TORONTO-DOMINION BANK, CA
 [22] 2020-03-24
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[21] **3,076,737**
[13] A1

[51] **Int.Cl. G16H 20/70 (2018.01) G16H 70/20 (2018.01)**
 [25] FR
 [54] **ADDICTA**
 [54] **ADDICTA**
 [72] GAGNON, ALINE, CA
 [71] GAGNON, ALINE, CA
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[21] **3,076,771**
[13] A1

[51] **Int.Cl. G01N 33/566 (2006.01) G01N 33/543 (2006.01) G01N 33/569 (2006.01)**
 [25] EN
 [54] **BIOSENSOR STORAGE METHODS**
 [54] **METHODES DE STOCKAGE DE BIOCAPTEURS**
 [72] SHE, ZHE, CA
 [72] MCLEOD, JENNIFER F., CA
 [71] QUEEN'S UNIVERSITY AT KINGSTON, CA
 [22] 2020-03-25
 [41] 2021-09-25

[21] **3,076,948**
[13] A1

[51] **Int.Cl. E04B 1/41 (2006.01) F16B 45/00 (2006.01) F24F 13/06 (2006.01)**
 [25] EN
 [54] **CONCRETE ANCHOR**
 [54] **ANCRAGE DE BETON**
 [72] PLANTZ, DARRELL, CA
 [71] PLANTZ, DARRELL, CA
 [22] 2020-03-25
 [41] 2021-09-25

[21] **3,076,958**
[13] A1

[51] **Int.Cl. A61L 2/20 (2006.01) B67D 7/02 (2010.01) A47K 5/06 (2006.01)**
 [25] EN
 [54] **WEARABLE STERILIZER**
 [54] **DISPOSITIF DE STERILISATION A PORTER**
 [72] FORRESTER, JERRY J. F., CA
 [71] FORRESTER, JERRY J. F., CA
 [22] 2020-03-24
 [41] 2021-09-24

[21] **3,076,971**
[13] A1

[51] **Int.Cl. E02D 5/52 (2006.01) E02D 5/56 (2006.01)**
 [25] EN
 [54] **CONNECTOR FOR SCREW PILE ASSEMBLY, KIT FOR ASSEMBLING THE SCREW PILE ASSEMBLY, AND CORRESPONDING METHODS OF MANUFACTURING, ASSEMBLING AND OPERATING ASSOCIATED THERETO**
 [54] **CONNECTEUR POUR UN ASSEMBLAGE DE PIEU VISSE, TROUSSE D'ASSEMBLAGE DE PIEU VISSE ET METHODES CORRESPONDANTES DE FABRICATION, D'ASSEMBLAGE ET D'EXPLOITATION**
 [72] FLEURY, ROBERT GLENN, CA
 [71] FLEURY, ROBERT GLENN, CA
 [22] 2020-03-24
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[13] A1

[51] **Int.Cl. F24F 13/02 (2006.01) F16L 59/14 (2006.01)**
[25] EN
[54] **FIRE-RATED VENTILATION DUCT AND IMPROVEMENTS THEREIN**
[54] **CONDUIT DE VENTILATION A L'EPREUVE DU FEU ET AMELIORATIONS**
[72] DUFFY, WILLIAM CHRISTOPHER, CA
[71] DURASYSTEMS BARRIERS INC., CA
[22] 2020-03-25
[41] 2021-09-25

[21] **3,076,984**
[13] A1

[51] **Int.Cl. G06F 16/583 (2019.01) G06T 5/00 (2006.01)**
[25] EN
[54] **METHOD TO REDUCE NOISE IN IMAGE DETECTION**
[54] **METHODE POUR REDUIRE LE BRUIT DANS LA DETECTION D'IMAGE**
[72] RICHARDSON, MARLEEN E., CA
[72] LINDQUIST, ERIK, CA
[71] SHOP IN NETWORKS LTD., CA
[22] 2020-03-25
[41] 2021-09-25

[21] **3,076,985**
[13] A1

[25] EN
[54] **A HIGH-PERFORMANCE, REUSABLE MASK APPARATUS AND ITS MANUFACTURING METHODOLOGY WITH REPLACEABLE FILTER AND MEMORY POLYMER MATERIAL TO FIT USERS' FACE, FOR EFFICIENT PROTECTION AGAINST AIRBONE PATHOGENS**
[54] **APPAREIL DE MASQUE REUTILISABLE A HAUT RENDEMENT ET METHODE DE FABRICATION AVEC FILTRE REMPLACABLE ET MATERIAU POLYMERE A MEMOIRE POUR S'AJUSTER AU VISAGE DES UTILISATEURS AFIN D'OFFRIR UNE PROTECTION EFFICACE CONTRE LES PATHOGENES DANS L' AIR**
[72] XU, YICHAO, CA
[71] XU, YICHAO, CA
[22] 2020-03-24
[41] 2021-09-24

[21] **3,077,002**
[13] A1

[51] **Int.Cl. A41D 20/00 (2006.01) H04W 4/38 (2018.01) H04W 4/80 (2018.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) G01V 3/08 (2006.01)**
[25] EN
[54] **NECKBAND PROXIMITY SENSOR TRANSCIEVER AND VIBRATING DEVICE**
[54] **EMETTEUR-RECEPTEUR DE CAPTEUR DE PROXIMITE DE CORDON CERVICAL ET DISPOSITIF DE VIBRATION**
[72] KNUTSON, CRYSTAL L., CA
[72] SIMON-DUFOUR, MARIE-MAXINE, CA
[72] KNUTSON, DAVID J., CA
[71] KNUTSON, CRYSTAL L., CA
[71] SIMON-DUFOUR, MARIE-MAXINE, CA
[71] KNUTSON, DAVID J., CA
[22] 2020-03-25
[41] 2021-09-25

[21] **3,077,006**
[13] A1

[51] **Int.Cl. G06F 16/11 (2019.01) G06F 16/182 (2019.01) G06N 20/00 (2019.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATICALLY MANAGING STORAGE RESOURCES OF A BIG DATA PLATFORM**
[54] **SYSTEME ET METHODE POUR GERER AUTOMATIQUEMENT LES RESSOURCES DE STOCKAGE D'UNE PLATEFORME DE MEGADONNEES**
[72] GREBENISAN, DAN, CA
[72] MA, YUE, CA
[72] SYKORA, PETER, CA
[72] LAM, GORDON MANWAY, CA
[72] KANG, SARVJOT KAUR, CA
[72] MACHERLA, SAI, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-03-25
[41] 2021-09-25

[21] **3,077,049**
[13] A1

[51] **Int.Cl. G06Q 90/00 (2006.01) G06Q 50/16 (2012.01)**
[25] FR
[54] **AUCUN TITRE SPECIFIE**
[54] **NO TITLE SPECIFIED**
[72] NGUEPE, MAURICE, CA
[72] NANFAH, GASTON, CA
[72] DONGMO, ANDRE-ROGER, CA
[71] NGUEPE, MAURICE, CA
[71] NANFAH, GASTON, CA
[71] DONGMO, ANDRE-ROGER, CA
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[41] 2021-09-25

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[13] A1

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[25] EN
[54] **CART FOR TRANSPORTING COLLAPSIBLE DIRECTOR CHAIRS IN PARTIALLY COLLAPSED CONDITIONS**
[54] **CHARIOT POUR TRANSPORTER DES FAUTEUILS PLIANTS DE REGISSEUR EN CONDITIONS PARTIELLEMENT PLIEES**
[72] BOXALL, BENJAMIN, CA
[72] SIGURDSON, CHRIS, CA
[71] BOXALL, BENJAMIN, CA
[71] SIGURDSON, CHRIS, CA
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[41] 2021-09-25

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[13] A1

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[25] EN
[54] **IMPROVED MEDIA FOR THE DEPOSIT OF INSECT EGGS**
[54] **SUBSTANCE AMELIOREE POUR LE DEPOT D'OEUF D'INSECTE**
[72] PICCONE, LOUIS A., CA
[72] PICCONE, VASILY GEORGE, CA
[71] PICCONE, LOUIS A., CA
[71] PICCONE, VASILY GEORGE, CA
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[41] 2021-09-24

[21] **3,077,291**
[13] A1

[51] **Int.Cl. G06F 40/58 (2020.01) G06F 40/205 (2020.01)**
[25] EN
[54] **MODEL LOCALIZATION FOR DATA ANALYTICS AND BUSINESS INTELLIGENCE**
[54] **LOCALISATION DE MODELE AUX FINS D'ANALYSE DE DONNEES ET D'INTELLIGENCE D'AFFAIRES**
[72] LEAHY, ANDREW, US
[72] TALBOT, STEVEN, US
[71] LOOKER DATA SCIENCES, INC., US
[22] 2020-03-27
[41] 2021-09-20
[30] US (16/824,902) 2020-03-20

[21] **3,077,827**
[13] A1

[51] **Int.Cl. A61B 90/00 (2016.01)**
[25] EN
[54] **A HIGH THROUGHPUT BIO- HAZARD SAFE MEDICAL EXAMINATION AND TREATMENT FACILITY**
[54] **INSTALLATION D'EXAMEN ET DE TRAITEMENT MEDICAUX A RENDEMENT ELEVE ET SECURITAIRE CONTRE LES DANGERS BIOLOGIQUES**
[72] ISSINSKI, ANTON, CA
[71] ISSINSKI, ANTON, CA
[22] 2020-04-01
[41] 2021-09-20
[30] US (62992771) 2020-03-20
[30] US (16833649) 2020-03-29

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[13] A1

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[25] EN
[54] **SYSTEM AND METHOD FOR REMOVING BIOMASS FROM STEM**
[54] **SYSTEME ET METHODE D'ELIMINATION DE BIOMASSES DANS DES CELLULES SOUCHES**
[72] KOLBET, KARL N., US
[71] SAFARI ENTERPRISES L.L.C., US
[22] 2020-04-23
[41] 2021-09-20
[30] US (16/824,909) 2020-03-20

[21] **3,079,459**
[13] A1

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[25] EN
[54] **INSECTS DRINKING TROUGH**
[54] **CANIVEAU A BOIRE POUR INSECTES**
[72] TREMBLAY, CONAN, CA
[71] TREMBLAY, CONAN, CA
[22] 2020-04-26
[41] 2021-09-25
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[13] A1

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[54] **MULTI-USE DONUT BEIGNE POLYVALENT**
[72] FONG, THOMAS, CA
[72] WONG, RONALD P., CA
[72] LIU, QUANHONG, CA
[71] FONG, THOMAS, CA
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[41] 2021-09-21

[21] **3,094,674**
[13] A1

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[25] EN
[54] **MESH NETWORK BASED ON A PREDICTIVE PATH MODEL**
[54] **RESEAU MAILLE BASE SUR UN MODELE DE TRAJET PREDICTIF**
[72] WESTRICK, RICHARD L., JR., US
[72] SANDERS, ALAN DAVID, US
[71] ABL IP HOLDING LLC, US
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[21] **3,097,260**
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[25] EN
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[54] **VERIFICATION DES COMPTES**
[72] LOTT, MICHAEL, US
[72] SALAZAR, COSME, US
[71] MX TECHNOLOGIES, INC., US
[22] 2020-10-28
[41] 2021-09-20
[30] US (62/992,370) 2020-03-20
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[54] **METHODS FOR TREATING ATOPIC DERMATITIS AND RELATED DISORDERS**
[54] **METHODES POUR TRAITER LA DERMATITE ATOPIQUE ET LES TROUBLES CONNEXES**
[72] COLICE, GENE, US
[72] VAN DER MERWE, RENE, GB
[72] BAVEREL, PAUL, GB
[71] MEDIMMUNE LIMITED, GB
[22] 2020-10-30
[41] 2021-09-23
[30] US (62/993,443) 2020-03-23
[30] US (63/037,783) 2020-06-11
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[21] **3,100,929**
[13] A1

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[25] EN
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[54] **FRITEUSE A AIR CHAUD DE TYPE VAPEUR**
[72] ZHANG, YICHI, CN
[71] NINGBO CARELINE ELECTRIC APPLIANCE CO., LTD., CN
[22] 2020-11-26
[41] 2021-09-25
[30] CN (202010219197.3) 2020-03-25
[30] CN (202020902332.X) 2020-05-26
[30] CN (202020395385.7) 2020-03-25
[30] CN (202020395405.0) 2020-03-25
[30] CN (202020396395.2) 2020-03-25
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[21] **3,100,934**
[13] A1

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[25] EN
[54] **AIR FRYER WITH STEAMING FUNCTION AND METHOD FOR CONTROLLING AIR FRYER WITH STEAMING FUNCTION**
[54] **FRITEUSE A AIR CHAUD A FONCTION DE VAPEUR ET METHODE DE COMMANDE D'UN TEL APPAREIL**
[72] ZHANG, YICHI, CN
[71] NINGBO CARELINE ELECTRIC APPLIANCE CO., LTD., CN
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[41] 2021-09-25
[30] CN (202010219162.X) 2020-03-25
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[30] CN (202010219205.4) 2020-03-25

[21] **3,103,967**
[13] A1

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[25] EN
[54] **SYSTEMS AND METHODS FOR BOREHOLE TUBULAR DESIGN**
[54] **SYSTEMES ET METHODES POUR UNE CONCEPTION TUBULAIRE DE TROU DE FORAGE**
[72] LIU, ZHENGCHUN, US
[72] SAMUEL, ROBELLO, US
[72] GONZALES, ADOLFO, US
[72] KANG, YONGFENG, US
[71] LANDMARK GRAPHICS CORPORATION, US
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[30] US (PCT/US2020/024462) 2020-03-24

[21] **3,104,197**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) H04W 4/021 (2018.01) H04W 4/44 (2018.01) H04W 4/80 (2018.01) G08G 1/017 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING AN OFFER BASED ON VEHICLE IDENTIFICATION**
[54] **SYSTEMES ET METHODES POUR FOURNIR UNE OFFRE EN FONCTION D'UNE IDENTIFICATION DE VEHICULE**
[72] CALVERT, PETER JASON, US
[72] LIDAKA, CHRISTOPHER, US
[71] ROVI GUIDES, INC., US
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[21] **3,105,298**
[13] A1

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[25] EN
[54] **TURBINE ENGINE WITH CENTRIFUGAL COMPRESSOR HAVING IMPELLER BACKPLATE OFFTAKE**
[54] **TURBINE COMPRENANT UN COMPRESSEUR CENTRIFUGE AYANT UNE PRISE DE PLAQUE ARRIERE DE ROTOR**
[72] WHITLOCK, MARK E., US
[72] COOPER, NATHANAEL, US
[72] MAZUR, STEVEN, US
[72] NESTEROFF, MICHAEL, US
[72] MELEVAGE, PAUL, US
[71] ROLLS-ROYCE CORPORATION, US
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 [25] EN
 [54] **COCKPIT INCEPTOR SYSTEM**
 [54] **SYSTEME DE COMMANDE DE POSTE DE PILOTAGE**
 [72] SEMINEL, BRUNO, FR
 [72] DELPEUCH, ARNAUD, FR
 [72] ANTRAYGUE, CEDRIC, FR
 [71] RATIER-FIGEAC SAS, FR
 [22] 2021-01-07
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[21] **3,105,623**
[13] A1

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 [25] EN
 [54] **ENHANCED DYNAMIC CONTINGENCY ANALYSIS FOR POWER SYSTEMS**
 [54] **ANALYSE DE CONTINGENCE DYNAMIQUE AMELIOREE POUR DES SYSTEMES D'ALIMENTATION**
 [72] VYAKARANAM, BHARAT GNVS, US
 [72] DAGLE, JEFFERY, US
 [72] CHIN, GEORGE JR., US
 [72] CHEN, YOUSU, US
 [72] ELIZONDO, MARCELO, US
 [72] SAMAAAN, NADER, US
 [72] ZARZHITSKY, DIMITRI, US
 [72] VALLEM, MALLIKARJUNA, US
 [72] PIERCE, KIRSTEN, US
 [72] MCGARY, BLAINE, US
 [72] ETINGOV, PAVEL, US
 [72] HUANG, QIUHUA, US
 [72] LI, XINYA, US
 [71] BATTELLE MEMORIAL INSTITUTE, US
 [22] 2021-01-12
 [41] 2021-09-23
 [30] US (16827695) 2020-03-23

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[13] A1

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 [25] EN
 [54] **FACILITATING HYDROCARBON EXPLORATION AND EXTRACTION BY APPLYING A MACHINE-LEARNING MODEL TO SEISMIC DATA**
 [54] **FACILITATION DE L'EXPLORATION DE L'EXTRACTION D'HYDROCARBURES EN APPLIQUANT UN MODELE D'APPRENTISSAGE AUTOMATIQUE A DES DONNEES SISMQUES**
 [72] WEI, ZHILI, US
 [72] MENG, MENG, US
 [72] JIANG, FAN, US
 [72] MAO, YOU LI, US
 [72] NORLUND, PHIL, US
 [71] LANDMARK GRAPHICS CORPORATION, US
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 [30] US (16/827,532) 2020-03-23
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[21] **3,106,788**
[13] A1

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 [25] EN
 [54] **DUAL-INDEPENDNT HYBRID ACTUATOR SYSTEM**
 [54] **SYSTEME D'ACTIONNEUR HYBRIDE A DOUBLE INDEPENDANCE**
 [72] BLANDING, DAVID E., US
 [72] COFFMAN, JEFFREY C., US
 [72] QUIAMBAO, JIMMY M., US
 [71] THE BOEING COMPANY, US
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[13] A1

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 [25] EN
 [54] **DEVICE AND METHOD FOR PRODUCING KNEE SPACER COMPONENTS**
 [54] **DISPOSITIF ET METHODE POUR PRODUIRE DES COMPOSANTES D'ENTRETOISE DE GENOU**
 [72] VOGT, SEBASTIAN, DE
 [72] KLUGE, THOMAS, DE
 [71] HERAEUS MEDICAL GMBH, DE
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 [41] 2021-09-20
 [30] EP (20164541.3) 2020-03-20

[21] **3,107,860**
[13] A1

[51] **Int.Cl. A61F 2/46 (2006.01) A61B 17/56 (2006.01) A61F 2/32 (2006.01) A61F 2/40 (2006.01) B28B 1/24 (2006.01) B28B 7/00 (2006.01) B28B 13/02 (2006.01)**
 [25] EN
 [54] **DEVICE AND METHOD FOR PRODUCING SPACERS**
 [54] **DISPOSITIF ET METHODE POUR PRODUIRE DES ENTRETOISES**
 [72] VOGT, SEBASTIAN, DE
 [72] KLUGE, THOMAS, DE
 [71] HERAEUS MEDICAL GMBH, DE
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 [41] 2021-09-20
 [30] EP (20164534.8) 2020-03-20
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[21] **3,107,869**
[13] A1

[51] **Int.Cl. A61F 2/46 (2006.01) A61F 2/32 (2006.01) A61F 2/40 (2006.01) B28B 1/24 (2006.01) B28B 7/02 (2006.01) B28B 7/06 (2006.01) B28B 13/02 (2006.01)**
 [25] EN
 [54] **DEVICE AND METHOD FOR PRODUCING SPACERS WITH A VARIABLE HEAD**
 [54] **DISPOSITIF ET METHODE POUR PRODUIRE DES ENTRETOISES A TETE VARIABLE**
 [72] VOGT, SEBASTIAN, DE
 [72] KLUGE, THOMAS, DE
 [71] HERAEUS MEDICAL GMBH, DE
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[13] A1

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[54] **MULTI-CHANNEL MULTI-RANGE TRANSDUCER**

[54] **TRANSDUCTEUR MULTIPORTEE MULTICANAL**

[72] SMITH, MICHAEL PAUL, CA
[72] SZCZESNOWICZ, PIOTR, CA
[71] PRATT & WHITNEY CANADA CORP., CA

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[41] 2021-09-24
[30] US (16/827,939) 2020-03-24

[21] **3,109,019**
[13] A1

[51] **Int.Cl. E03D 5/10 (2006.01)**

[25] EN

[54] **SANITARY INSTALLATION**

[54] **INSTALLATION SANITAIRE**

[72] WULKER, FRANZISKA SOPHIE, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE

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[21] **3,109,020**
[13] A1

[51] **Int.Cl. E04B 5/40 (2006.01) E04B 5/38 (2006.01)**

[25] EN

[54] **SIMPLIFIED STEEL ORTHOTROPIC DECK BRIDGE PANEL**

[54] **PANNEAU DE PONT A TABLIER ORTHOTROPE SIMPLIFIE EN ACIER**

[72] STANCESCU, DANIEL, CA
[71] SAMUEL, SON & CO., LIMITED, CA

[22] 2021-02-11
[41] 2021-09-24
[30] US (62/994,114) 2020-03-24
[30] US (17/169,634) 2021-02-08

[21] **3,109,697**
[13] A1

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[25] EN

[54] **BATTERY ENCLOSURE**

[54] **ENCEINTE A BATTERIE**

[72] MILOAGA, DANA GABRIELA, US
[72] KASMEIER, GEORG, DE
[72] SCHIERZ, STEFAN, DE
[72] FREIBERGER, MARKUS, DE
[72] VAN DER MEULEN, LEONIE, DE
[71] JOHNS MANVILLE, US

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[41] 2021-09-24
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[21] **3,109,759**
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) C04B 35/78 (2006.01) C08J 3/20 (2006.01) C08K 3/14 (2006.01) C08K 3/28 (2006.01) C08K 3/30 (2006.01) C22C 1/10 (2006.01) E21B 29/00 (2006.01)**

[25] EN

[54] **DOWNHOLE TOOLS COMPRISING DEGRADABLE COMPONENTS**

[54] **OUTILS DE FOND DE TROU COMPRENANT DES COMPOSANTES DEGRADABLES**

[72] JIANG, WENHUI, US
[71] JIANG, WENHUI, US

[22] 2021-02-22
[41] 2021-09-20
[30] US (62992591) 2020-03-20
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[21] **3,109,793**
[13] A1

[51] **Int.Cl. G01D 11/00 (2006.01) B82Y 30/00 (2011.01) B64D 15/12 (2006.01) G01P 5/165 (2006.01) H05B 3/02 (2006.01) H05B 3/12 (2006.01)**

[25] EN

[54] **THIN FILM HEATER CONFIGURATION FOR AIR DATA PROBE**

[54] **CONFIGURATION DE CHAUFFAGE A FILM MINCE POUR SONDAS DE DONNEES AERODYNAMIQUES**

[72] JACOB, ROBIN, IN
[72] MAHAPATRA, GURU PRASAD, IN
[71] ROSEMOUNT AEROSPACE INC., US

[22] 2021-02-19
[41] 2021-09-20
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[21] **3,109,835**
[13] A1

[51] **Int.Cl. A61M 16/20 (2006.01) A61M 16/00 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL MANUAL ARTIFICIAL RESPIRATION BAG**

[54] **BALLON DE RESPIRATION ARTIFICIELLE MANUEL MULTIFONCTIONNEL**

[72] ALBERICI, LUCA, IT
[72] RICHARD, JEAN-CHRISTOPHE, FR
[72] ZADRA, DAVIDE, IT
[72] BADAT, BILAL, FR
[72] MASSARO, PAOLO, IT
[72] LESIMPLE, ARNAUD, FR
[71] AIR LIQUIDE MEDICAL SYSTEMS, FR

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[41] 2021-09-25
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[21] **3,110,207**
[13] A1

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[25] EN

[54] **FLOATING, SUB-SURFACE DISCHARGE AERATOR**

[54] **AERATEUR DE DECHARGE DE SOUS-SURFACE FLOTTANT**

[72] TITUS, LEWIS, US
[71] TITUS INDUSTRIAL GROUP, INC., US

[22] 2021-02-23
[41] 2021-09-25
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[30] US (63/020105) 2020-05-05
[30] US (17/159721) 2021-01-27

[21] **3,110,675**
[13] A1

[51] **Int.Cl. E06C 7/18 (2006.01) E06C 7/48 (2006.01)**

[25] EN

[54] **LADDER SECURING DEVICE**

[54] **DISPOSITIF DE FIXATION D'ECELLE**

[72] HICKS, HEATH, US
[72] MACKINTOSH, ERIC, US
[71] HICKS, HEATH, US
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[22] 2021-02-26
[41] 2021-09-20
[30] US (16/825,698) 2020-03-20

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 [13] A1

[51] **Int.Cl. F41A 35/00 (2006.01) F41A 21/00 (2006.01) H02J 7/00 (2006.01) H02K 7/18 (2006.01)**

[25] EN

[54] **METHOD OF RAPID CONVERSION OF CHEMICAL ENERGY INTO USABLE ELECTRICAL ENERGY**

[54] **METHODE DE CONVERSION RAPIDE D'ENERGIE CHIMIQUE EN ENERGIE ELECTRIQUE UTILISABLE**

[72] GROSSNICKLE, JAMES A., US

[71] THE BOEING COMPANY, US

[22] 2021-02-26

[41] 2021-09-20

[30] US (16/825,045) 2020-03-20

[21] **3,111,235**
 [13] A1

[51] **Int.Cl. B29C 55/22 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR STRETCHING A TUBULAR MATERIAL OVER A MANDREL**

[54] **METHODE ET SYSTEME POUR ETIRER UN MATERIAU TUBULAIRE SUR UN MANDRIN**

[72] FRONCIONI, MICHAEL J., CA

[71] STEER MEDICAL INC., CA

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[21] **3,111,369**
 [13] A1

[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/05 (2006.01) A61J 1/20 (2006.01) B65D 1/02 (2006.01)**

[25] EN

[54] **CONE-SHAPED BOTTLE INSERT TO FULLY EXTRACT LIQUID**

[54] **PIECE RAPPORTEE DE BOUTEILLE CONIQUE POUR EXTRAIRE COMPLETEMENT UN LIQUIDE**

[72] OVANS, CAROL L., CA

[71] OVANS, CAROL L., CA

[22] 2021-03-10

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[21] **3,111,421**
 [13] A1

[51] **Int.Cl. B60P 7/08 (2006.01)**

[25] EN

[54] **CARGO RETAINER**

[54] **DISPOSITIF DE RETENUE DE MARCHANDISES**

[72] JACKSON, NICHOLAS, US

[71] HOME DEPOT INTERNATIONAL, INC., US

[22] 2021-03-05

[41] 2021-09-25

[30] US (16/829,279) 2020-03-25

[21] **3,111,480**
 [13] A1

[51] **Int.Cl. B29C 49/64 (2006.01)**

[25] EN

[54] **MULTI-PRONG BLOW PIN WITH INTEGRAL AIR AND COOLING WATER CHANNELS**

[54] **GOUPILLE DE SOUFFLAGE MULTIBROCHE COMPORTANT DES CANAUX INTEGRES D'AIR ET D'EAU DE REFROIDISSEMENT**

[72] DIBIASIO, SERGIO, CA

[71] SILGAN PLASTICS LLC, US

[22] 2021-03-05

[41] 2021-09-24

[30] US (16/828,488) 2020-03-24

[21] **3,111,533**
 [13] A1

[51] **Int.Cl. A01G 27/00 (2006.01) A01G 27/02 (2006.01)**

[25] EN

[54] **IRRIGATION SYSTEM AND METHOD FOR MOVABLE GROW TABLES**

[54] **SYSTEME D'IRRIGATION ET METHODE POUR TABLES DE CROISSANCE MOBILES**

[72] QUIRING, PETER, CA

[72] MCRAE, MATTHEW JAMES, CA

[72] FRIESEN, JOSEPH JAKE, CA

[72] FRIESEN, JACOB, CA

[71] SOUTH ESSEX FABRICATION INC., CA

[22] 2021-03-08

[41] 2021-09-24

[30] CA (3,076,732) 2020-03-24

[21] **3,111,732**
 [13] A1

[51] **Int.Cl. B29C 45/14 (2006.01)**

[25] EN

[54] **SUBASSEMBLY FOR DOUBLE-DOOR TRANSFER SYSTEM WITH SIMPLIFIED MANUFACTURE**

[54] **SOUS-ENSEMBLE POUR UN SYSTEME DE TRANSFERT A DOUBLE PORTE AYANT UNE FABRICATION SIMPLIFIEE**

[72] BELIN, JEAN, FR

[71] GETINGE LA CALHENE, FR

[22] 2021-03-10

[41] 2021-09-23

[30] FR (FR 2002812) 2020-03-23

[21] **3,111,919**
 [13] A1

[51] **Int.Cl. F16C 33/66 (2006.01) F01D 25/16 (2006.01) F02C 7/06 (2006.01)**

[25] EN

[54] **BEARING HOUSING OIL INTAKE TO SUPPLY DUAL BEARING STRUCTURE**

[54] **ENTREE D'HUILE DE LOGEMENT DE PALIER POUR ALIMENTER UNE STRUCTURE A DEUX COUSSINETS**

[72] LEFEBVRE, GUY, CA

[72] DOYON, FRANCOIS, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2021-03-11

[41] 2021-09-25

[30] US (16/829,023) 2020-03-25

[21] **3,111,942**
 [13] A1

[51] **Int.Cl. H01M 8/04089 (2016.01) H01M 8/04664 (2016.01) H01M 8/0662 (2016.01)**

[25] EN

[54] **INSTALLATION AND METHOD FOR SUPPLYING A FUEL CELL WITH HYDROGEN**

[54] **INSTALLATION ET METHODE D'ALIMENTATION D'UNE PILE A COMBUSTIBLE EN HYDROGENE**

[72] ALLIDIERES, LAURENT, FR

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

[22] 2021-03-12

[41] 2021-09-25

[30] FR (2002892) 2020-03-25

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[21] **3,111,950**
[13] A1

[51] **Int.Cl. B08B 13/00 (2006.01) A41D 13/00 (2006.01) B08B 3/02 (2006.01) B08B 5/04 (2006.01) F16P 1/00 (2006.01) G08B 21/02 (2006.01) G08C 17/02 (2006.01)**

[25] FR

[54] **MONITORING DEVICE ON A HYDROCURING AND HYDROCURING OPERATOR SITE, AND GLOBAL MONITORING SYSTEM**

[54] **DISPOSITIF DE SURVEILLANCE SUR SITE D'UN HYDROCUREUR ET D'UN OPERATEUR DE L'HYDROCUREUR, ET SYSTEME DE SURVEILLANCE GLOBALE**

[72] RIVARD, DANIEL, FR
[71] ORTEC EXPANSION, FR
[22] 2021-03-12
[41] 2021-09-20
[30] FR (2002764) 2020-03-20

[21] **3,111,960**
[13] A1

[51] **Int.Cl. G01P 5/24 (2006.01) G01P 13/00 (2006.01)**

[25] EN

[54] **ACOUSTIC AIR DATA SYSTEM WITH RADIALY PAIRED RECEIVERS**

[54] **SYSTEME DE DONNEES AERODYNAMIQUES ACOUSTIQUES A RECEPTEURS JUMELES SUR LE PLAN RADIAL**

[72] ELL, TODD ANTHONY, US
[72] SLY, JAIME, US
[71] ROSEMOUNT AEROSPACE INC., US
[22] 2021-03-11
[41] 2021-09-20
[30] US (16/825,491) 2020-03-20

[21] **3,111,986**
[13] A1

[51] **Int.Cl. B65B 51/06 (2006.01) B65B 57/02 (2006.01)**

[25] EN

[54] **RANDOM CASE SEALER**

[54] **DISPOSITIF DE SCELLAGE DE BOITIER ALEATOIRE**

[72] MENTA, WILLIAM, US
[72] MENTA, WILLIAM J., US
[71] SIGNODE INDUSTRIAL GROUP LLC, US
[22] 2021-03-15
[41] 2021-09-25
[30] US (62/994,555) 2020-03-25
[30] US (17/197,921) 2021-03-10

[21] **3,112,018**
[13] A1

[51] **Int.Cl. B64C 27/22 (2006.01) B64C 19/00 (2006.01) B64C 27/82 (2006.01)**

[25] FR

[54] **PROCEDURE FOR CONTROLLING PROPELLERS OF A HYBRID HELICOPTER AND A HYBRID HELICOPTER**

[54] **PROCEDE DE COMMANDE D'HELICES D'UN HELICOPTERE HYBRIDE ET UN HELICOPTERE HYBRIDE**

[72] EGLIN, PAUL, FR
[72] HUOT, REMY, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2021-03-15
[41] 2021-09-20
[30] FR (2002607) 2020-03-17

[21] **3,112,094**
[13] A1

[51] **Int.Cl. E21B 47/16 (2006.01) E21B 44/00 (2006.01) G08C 23/02 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR DOWNHOLE ACOUSTIC TELEMETRY**

[54] **METHODES ET APPAREILS DE TELEMESURE ACOUSTIQUE EN FOND DE TROU**

[72] PARK, SIMON, CA
[72] KIM, SEONGHWAN, CA
[72] PAGTALUNAN, JED, CA
[72] MOON, SANGHO, CA
[71] MKS INVESTMENTS LTD., CA
[22] 2021-03-16
[41] 2021-09-19
[30] US (62/992,143) 2020-03-19

[21] **3,112,110**
[13] A1

[51] **Int.Cl. G05B 23/02 (2006.01) H04L 12/18 (2006.01) H04L 12/40 (2006.01)**

[25] EN

[54] **METHOD OF ASSIGNING ADDRESSES TO BUS PARTICIPANTS**

[54] **METHODE D'ATTRIBUTION D'ADRESSES A DES BUS PARTICIPANTS**

[72] KEMPF, JOHANNES, DE
[72] GORISSE, FRANCOIS, FR
[72] SOBOCINSKI, MAXIME, FR
[71] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
[22] 2021-03-18
[41] 2021-09-19
[30] EP (20164142.0) 2020-03-19

[21] **3,112,122**
[13] A1

[51] **Int.Cl. C07C 217/18 (2006.01) A61K 31/138 (2006.01) A61P 15/12 (2006.01) A61P 19/08 (2006.01) C07C 55/08 (2006.01) C07C 55/10 (2006.01) C07C 57/145 (2006.01) C07C 57/15 (2006.01) C07C 59/06 (2006.01) C07C 59/245 (2006.01) C07C 59/255 (2006.01) C07C 59/265 (2006.01) C07C 309/30 (2006.01) C01B 17/96 (2006.01) C01B 25/26 (2006.01)**

[25] EN

[54] **SALTS OF ZUCLOMIPHENE**

[54] **SELS DE ZUCLOMIFENES**

[72] SOUZA, FABIO E. S., CA
[72] MOHAMMADPOURMIR, FATEMEH, CA
[72] STIRK, ALEXANDER J., CA
[72] KARADEOLIAN, AVEDIS, CA
[72] REY, ALLAN W., CA
[71] APOTEX INC., CA
[22] 2021-03-18
[41] 2021-09-20
[30] US (62/992,535) 2020-03-20

[21] **3,112,138**
[13] A1

[51] **Int.Cl. C25B 9/21 (2021.01) B01D 61/42 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING ALKALI METAL ALKOXIDES IN A THREE-CHAMBER ELECTROLYSIS CELL**

[54] **PROCEDE DE PREPARATION D'ALCOOLATES METALLIQUES ALCALINS DANS UNE CELLULE D'ELECTROLYSE A TROIS CHAMBRES**

[72] HORN, MICHAEL, DE
[72] REINSBERG, PHILIP HEINRICH, DE
[72] GARTNER, FELIX, DE
[72] MALTER, JUTTA, DE
[72] STENNER, PATRICK, DE
[72] STADTMULLER, TOBIAS, DE
[71] EVONIK FUNCTIONAL SOLUTIONS GMBH, DE
[22] 2021-03-18
[41] 2021-09-24
[30] EP (20165238.5) 2020-03-24

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[21] **3,112,140**
[13] A1

[51] **Int.Cl. C25B 9/21 (2021.01) B01D 61/42 (2006.01)**

[25] EN

[54] **IMPROVED PROCESS FOR PREPARING SODIUM ALKOXIDES**

[54] **PROCEDE AMELIORE POUR LA PREPARATION D'ALCOXIDES DE SODIUM**

[72] HORN, MICHAEL, DE

[72] GARTNER, FELIX, DE

[72] REINSBERG, PHILIP HEINRICH, DE

[72] TEUFERT, RUDIGER, DE

[71] EVONIK FUNCTIONAL SOLUTIONS GMBH, DE

[22] 2021-03-18

[41] 2021-09-24

[30] EP (20165250.0) 2020-03-24

[21] **3,112,551**
[13] A1

[51] **Int.Cl. B64C 25/50 (2006.01) F16F 6/00 (2006.01)**

[25] EN

[54] **MAGNETIC SELF-CENTERING SHIMMY DAMPER**

[54] **AMORTISSEUR DE SHIMMY AUTOCENTREUR MAGNETIQUE**

[72] JAIN, BHUWAN, CA

[72] LUCAS, SIMON, CA

[72] SY, BENEDICT, CA

[71] GOODRICH CORPORATION, US

[22] 2021-03-17

[41] 2021-09-19

[30] US (16/823,817) 2020-03-19

[21] **3,112,645**
[13] A1

[51] **Int.Cl. E21B 43/11 (2006.01) E21B 33/134 (2006.01) E21B 43/119 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR STIMULATING A WELL**

[54] **APPAREIL ET METHODE DE STIMULATION DE Puits**

[72] GEORGE, GRANT, CA

[71] TORSCH INC., CA

[22] 2021-03-19

[41] 2021-09-19

[30] US (62991989) 2020-03-19

[21] **3,112,673**
[13] A1

[51] **Int.Cl. H04L 9/30 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SECURING ACCESS TO NETWORK ASSETS**

[54] **SYSTEME ET PROCEDE POUR SECURISER L'ACCES A DES BIENS DE RESEAU**

[72] GAGNON, CLEMENT, CA

[71] TACTIKA.COM INC., CA

[22] 2021-03-19

[41] 2021-09-20

[30] US (62/992.549) 2020-03-20

[21] **3,112,674**
[13] A1

[51] **Int.Cl. H01Q 13/10 (2006.01)**

[25] EN

[54] **RADIATING COAXIAL CABLE**

[54] **CABLE COAXIAL RAYONNANT**

[72] MANNINEN, MIKA, FI

[71] PRYSMIAN S.P.A., IT

[22] 2021-03-19

[41] 2021-09-20

[30] IT (102020000005983) 2020-03-20

[21] **3,112,684**
[13] A1

[51] **Int.Cl. A01G 25/16 (2006.01) B05B 12/00 (2018.01) G05D 7/06 (2006.01)**

[25] EN

[54] **WATER OR OTHER FLUID MANAGEMENT**

[54] **GESTION DE L'EAU OU D'AUTRES FLUIDES**

[72] KALLESTAD, JONATHAN SALVATORE, US

[71] KALLESTAD, JONATHAN SALVATORE, US

[22] 2021-03-19

[41] 2021-09-20

[30] US (62/992,367) 2020-03-20

[21] **3,112,715**
[13] A1

[51] **Int.Cl. B60T 17/22 (2006.01) B61H 11/00 (2006.01)**

[25] EN

[54] **FIELD AIR PRESSURE SENSOR CALIBRATION FOR END OF TRAIN DEVICES**

[54] **ETALONNAGE DE MANOSTAT A AIR SUR LE TERRAIN POUR L'EXTREMITE DE DISPOSITIFS DE TRAIN**

[72] LAMB, C. ADAM, US

[71] INDEPENDENT TIME CORPORATION, US

[22] 2021-03-19

[41] 2021-09-20

[30] US (62/992312) 2020-03-20

[21] **3,112,718**
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01) C10M 105/36 (2006.01) C10M 159/12 (2006.01)**

[25] EN

[54] **LOW VISCOSITY LUBRICATING OIL COMPOSITION**

[54] **COMPOSITION D'HUILE DE LUBRIFICATION A FAIBLE VISCOSITE**

[72] TANAKA, ISAO, US

[72] HATTORI, TAIKI, US

[72] AKAHORI, WATARU, US

[71] CHEVRON JAPAN LIMITED, US

[22] 2021-03-19

[41] 2021-09-20

[30] US (62/992210) 2020-03-20

[21] **3,112,719**
[13] A1

[51] **Int.Cl. A61M 36/08 (2006.01)**

[25] EN

[54] **SHIELDED SYRINGE HOLDING DEVICE FOR FILLING A SYRINGE WITH A RADIOACTIVE SOLUTION**

[54] **DISPOSITIF DE RETENUE DE SERINGUE BLINDE POUR REMPLIR UNE SERINGUE DE SOLUTION RADIOACTIVE**

[72] GERTSENCHTEIN, MICHAEL, CA

[71] JUBILANT DRAXIMAGE INC., CA

[22] 2021-03-19

[41] 2021-09-20

[30] US (16/825,952) 2020-03-20

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[21] **3,112,721**
[13] A1

[51] **Int.Cl. B65D 5/24 (2006.01) B65D 21/02 (2006.01)**
[25] EN
[54] **PIZZA BOX BLANK AND ARRANGEMENT THEREOF**
[54] **DECOUPE DE BOITE DE PIZZA ET CONFIGURATION**
[72] PUGH, JEFFREY D., US
[71] SMART PACKAGING, LLC, US
[22] 2021-03-19
[41] 2021-09-20
[30] US (62/992,892) 2020-03-20

[21] **3,112,723**
[13] A1

[51] **Int.Cl. H02G 3/06 (2006.01) H01R 4/66 (2006.01)**
[25] EN
[54] **CONDUIT NIPPLE GROUNDING BUSHING**
[54] **MANCHON DE MISE A LA TERRE DE RACCORD FILETE DE CONDUIT**
[72] SMITH, LAWRENCE J., US
[71] BRIDGEPORT FITTINGS, LLC, US
[22] 2021-03-22
[41] 2021-09-23
[30] US (16/826,650) 2020-03-23

[21] **3,112,732**
[13] A1

[51] **Int.Cl. A61N 1/08 (2006.01) A61N 1/36 (2006.01) A61N 1/38 (2006.01)**
[25] EN
[54] **POWER LIMITTER IN AN ELECTROCONVULSIVE THERAPY DEVICE**
[54] **LIMITEUR DE PUISSANCE DANS UN DISPOSITIF D'ELECTROCONVULSOTHERAPIE**
[72] SHAW, JOHN B., US
[71] MECTA CORPORATION, US
[22] 2021-03-22
[41] 2021-09-20
[30] US (62/992,805) 2020-03-20

[21] **3,112,734**
[13] A1

[51] **Int.Cl. A61N 1/08 (2006.01) A61B 5/28 (2021.01) A61B 5/291 (2021.01) A61B 5/296 (2021.01) A61N 1/04 (2006.01) A61N 1/36 (2006.01) A61N 1/38 (2006.01)**
[25] EN
[54] **DETERMINING QUALITY OF ELECTRODE CONTACT WITH SKIN SURFACE**
[54] **DETERMINATION DE LA QUALITE DU CONTACT D'ELECTRODE AVEC LA SURFACE DE LA PEAU**
[72] SUNDERLAND, RICHARD A., US
[72] SHAW, JOHN B., US
[71] MECTA CORPORATION, US
[22] 2021-03-22
[41] 2021-09-20
[30] US (62/992,814) 2020-03-20
[30] US (17/207,483) 2021-03-19

[21] **3,112,744**
[13] A1

[51] **Int.Cl. A47C 7/68 (2006.01) A47C 1/12 (2006.01)**
[25] EN
[54] **CHAIR WITH PIVOTABLE TABLET HAVING SELECTIVELY EXPANDABLE PIVOT RANGE**
[54] **FAUTEUIL A TABLETTE PIVOTANTE AYANT UNE PORTEE DE PIVOT SELECTIVEMENT EXTENSIBLE**
[72] WALKER, HEATHER, US
[71] IRWIN SEATING COMPANY, US
[22] 2021-03-22
[41] 2021-09-23
[30] US (62/993,332) 2020-03-23

[21] **3,112,750**
[13] A1

[51] **Int.Cl. G06Q 40/08 (2012.01) G06Q 50/30 (2012.01) G06F 3/16 (2006.01)**
[25] EN
[54] **METHODS FOR AUTOMATING CUSTOMER AND VEHICLE DATA INTAKE USING WEARABLE COMPUTING DEVICES**
[54] **METHODES POUR AUTOMATISER LA PRISE DE DONNEES CLIENT ET VEHICULE AU MOYEN DE DISPOSITIFS INFORMATIQUES A PORTER**
[72] CANNARSA, UMBERTO LAURENT, US
[71] MITCHELL INTERNATIONAL, INC., US
[22] 2021-03-22
[41] 2021-09-23
[30] US (16/827,628) 2020-03-23

[21] **3,112,751**
[13] A1

[51] **Int.Cl. C12P 1/04 (2006.01) C07K 14/195 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 15/31 (2006.01) C12N 15/63 (2006.01) C12P 1/02 (2006.01) C12P 7/06 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **BACTERIAL COCULTURES EXPRESSING A BACTERIOCIN SYSTEM**
[54] **COCULTURES BACTERIENNES EXPRIMANT UN SYSTEME DE BACTERIOCINE**
[72] STEELE, JAMES L., US
[72] HENNINGSSEN, BROOKS, US
[72] BROADBENT, JEFFERY R., US
[72] PHROMMAO, EAKKARAT, US
[72] FIRMINO, FERNANDA CRISTINA, US
[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU
[22] 2021-03-19
[41] 2021-09-19
[30] US (62/991,850) 2020-03-19

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[21] **3,112,754**
[13] A1

[51] **Int.Cl. C12N 1/19 (2006.01) C12N 9/34 (2006.01) C12N 15/56 (2006.01) C12N 15/81 (2006.01) C12P 7/06 (2006.01) C12P 19/02 (2006.01) C12P 19/14 (2006.01)**

[25] EN

[54] **YEAST EXPRESSING GLUCOAMYLASE WITH ENHANCED STARCH HYDROLYSIS**

[54] **LEVURE EXPRIMANT UNE GLUCOAMYLASE A HYDROLYSE DE L'AMIDON AMELIOREE**

[72] ARGYROS, AARON, US

[72] PANAITIU, ALEXANDRA-ELENA, US

[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU

[22] 2021-03-19

[41] 2021-09-19

[30] US (62/991,846) 2020-03-19

[21] **3,112,756**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01)**

[25] EN

[54] **METHODS OF OPTIMIZING ENERGY USAGE FROM ENERGY SUPPLIERS**

[54] **METHODES D'OPTIMISATION DE L'UTILISATION DE L'ENERGIE PROVENANT DE FOURNISSEURS D'ENERGIE**

[72] BHATRAJU, KIRAN, US

[72] BAUMAN, SHANNON, US

[72] QUINLAN, OWEN, US

[72] HERSH, NANCY, US

[71] ARCADIA POWER INC., US

[22] 2021-03-18

[41] 2021-09-20

[30] US (62/992560) 2020-03-20

[30] US (16/925707) 2020-07-10

[21] **3,112,757**
[13] A1

[51] **Int.Cl. A24F 13/02 (2006.01)**

[25] EN

[54] **ADJUSTABLE CIGARETTE HOLDER**

[54] **PORTE-CIGARETTE AJUSTABLE**

[72] ROUSE, DOMINIC EDWARD, CA

[71] ROUSE, DOMINIC EDWARD, CA

[22] 2021-03-19

[41] 2021-09-19

[30] US (62/991841) 2020-03-19

[21] **3,112,777**
[13] A1

[51] **Int.Cl. A61M 16/06 (2006.01) A62B 18/02 (2006.01) A62B 18/08 (2006.01) A61F 5/56 (2006.01)**

[25] EN

[54] **REUSABLE LINER FOR USE WITH RESPIRATORY MASK AND METHOD OF MAKING SAME**

[54] **DOUBLURE REUTILISABLE A UTILISER AVEC UN MASQUE RESPIRATOIRE ET METHODE DE FABRICATION**

[72] BROOKS-MACDONALD, CONNIE, CA

[71] BROOKS-MACDONALD, CONNIE, CA

[22] 2021-03-15

[41] 2021-09-24

[30] US (62/994,157) 2020-03-24

[21] **3,112,811**
[13] A1

[51] **Int.Cl. A24F 1/30 (2006.01) B01D 35/18 (2006.01) B01D 35/30 (2006.01)**

[25] EN

[54] **WATER FILTRATION APPARATUS**

[54] **APPAREIL DE FILTRATION D'EAU**

[72] UNKNOWN, XX

[71] GS HOLISTIC, LLC, US

[22] 2021-03-22

[41] 2021-09-22

[30] US (62993000) 2020-03-22

[21] **3,112,999**
[13] A1

[51] **Int.Cl. A47K 10/22 (2006.01) A47K 10/38 (2006.01) B65H 16/06 (2006.01)**

[25] EN

[54] **ROLLED WEB MATERIAL DISPENSER MATERIAL LOCKOUT SYSTEMS**

[54] **SYSTEME DE LIMITATION D'UN DISTRIBUTEUR DE MATERIAU DE TOILE ROULEE**

[72] SULIK, JAROD, US

[72] ZIEBART, BERNIE, US

[71] SAN JAMAR, INC., US

[22] 2021-03-22

[41] 2021-09-24

[30] US (16/828,414) 2020-03-24

[21] **3,113,002**
[13] A1

[51] **Int.Cl. B65D 5/70 (2006.01) B65D 17/00 (2006.01) B65D 25/38 (2006.01) B65D 83/00 (2006.01)**

[25] EN

[54] **PACKAGING**

[54] **EMBALLAGE**

[72] NYE, TROY W., US

[71] LIFETIME PRODUCTS, INC., US

[22] 2021-03-23

[41] 2021-09-24

[30] US (62/994,193) 2020-03-24

[30] US (17/208,967) 2021-03-22

[21] **3,113,020**
[13] A1

[51] **Int.Cl. H04N 7/10 (2006.01) H04N 21/61 (2011.01) H03F 3/189 (2006.01) H03F 3/62 (2006.01) H03F 3/68 (2006.01) H04B 1/40 (2015.01)**

[25] EN

[54] **LC FILTERING WITH AUTO TUNING**

[54] **FILTRAGE BASSE FREQUENCE AVEC MISE AU POINT AUTOMATIQUE**

[72] SCHEMMANN, MARCEL FRANZ CHRISTIAN, NL

[72] MARICEVIC, ZORAN, US

[72] SUN, ZHIJIAN, US

[72] CORMIER, ERIC JOSEPH, US

[71] ARRIS ENTERPRISES LLC, US

[22] 2021-03-23

[41] 2021-09-23

[30] US (62/993,261) 2020-03-23

[21] **3,113,031**
[13] A1

[51] **Int.Cl. B64C 25/58 (2006.01) B64C 25/06 (2006.01) B64C 29/00 (2006.01) F16F 7/12 (2006.01)**

[25] EN

[54] **ENERGY ABSORBING LANDING GEAR SYSTEM FOR A VERTICAL LANDING APPARATUS AND METHOD OF USING THE SAME**

[54] **SYSTEME DE TRAIN D'ATTERRISSAGE BRISE-CHARGE POUR APPAREIL D'ATTERRISSAGE VERTICAL ET METHODE D'UTILISATION**

[72] TISCHHAUSER, FREDERICK, US

[71] AURORA FLIGHT SCIENCES CORPORATION, A SUBSIDIARY OF THE BOEING COMPANY, US

[22] 2021-03-23

[41] 2021-09-22

[30] US (16/826246) 2020-03-22

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[51] **Int.Cl. B65D 85/671 (2006.01) B65D 5/42 (2006.01) B65D 25/52 (2006.01)**
[25] EN
[54] **CONTAINERS, BLANKS, AND METHODS FOR DISPENSING WEB MATERIAL**
[54] **CONTENANTS, DECOUPES ET METHODES POUR DISTRIBUER UN MATERIAU EN TOILE**
[72] MEDRANO, MELISSA, US
[72] RUSSO, KYLE, US
[72] WENINGER, JESSICA, US
[71] REYNOLDS CONSUMER PRODUCTS LLC, US
[22] 2021-03-23
[41] 2021-09-23
[30] US (62/993,445) 2020-03-23

[21] **3,113,040**
[13] A1

[51] **Int.Cl. E01F 13/04 (2006.01)**
[25] EN
[54] **RELEASE MECHANISM FOR A GATE OR OTHER APPARATUS SUBJECT TO BE IMPACTED**
[54] **MECANISME DE DECLENCHEMENT POUR UNE PORTE OU UN AUTRE APPAREIL SUSCEPTIBLE D'ETRE FRAPPE**
[72] SHEBIB LOISELLE, VINCENT, CA
[71] SYSTEMES VERSILIS INC., CA
[22] 2021-03-22
[41] 2021-09-20
[30] US (62/992,846) 2020-03-20

[21] **3,113,110**
[13] A1

[51] **Int.Cl. B29C 64/106 (2017.01) B33Y 10/00 (2015.01) B33Y 40/00 (2020.01) B29C 64/205 (2017.01) A61J 3/00 (2006.01)**
[25] EN
[54] **3D PRINTER**
[54] **IMPRIMANTE 3D**
[72] SNOVER, MELISSA, GB
[72] CATCHPOLE, MARTYN, GB
[71] REM3DY HEALTH LIMITED, GB
[22] 2021-03-23
[41] 2021-09-24
[30] GB (2004240.4) 2020-03-24

[21] **3,113,114**
[13] A1

[51] **Int.Cl. G01V 8/12 (2006.01)**
[25] EN
[54] **LASER DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION LASER**
[72] PETRACHEK, JOHN, CA
[71] PETRACHEK, JOHN, CA
[22] 2021-03-23
[41] 2021-09-23
[30] US (62/993,271) 2020-03-23

[21] **3,113,456**
[13] A1

[51] **Int.Cl. A01C 7/08 (2006.01) A01C 15/00 (2006.01) B65G 53/56 (2006.01) B65G 53/66 (2006.01) G05B 19/418 (2006.01) G05D 16/20 (2006.01)**
[25] EN
[54] **COORDINATED CONTROL OF COMMODITY CONTAINER PRESSURE SELECTION WITH RUN SELECTION IN A COMMODITY DELIVERY SYSTEM OF A WORK VEHICLE**
[54] **CONTROLE COORDONNE DE SELECTION DE PRESSION D'UN CONTENANT A MARCHANDISES AVEC SELECTION D'EXECUTION DANS UN SYSTEME DE DISTRIBUTION DE MARCHANDISES D'UN VEHICULE DE TRAVAIL**
[72] HARMON, ANDREW W., US
[71] DEERE & COMPANY, US
[22] 2021-03-24
[41] 2021-09-25
[30] US (16/829,683) 2020-03-25

[21] **3,113,473**
[13] A1

[51] **Int.Cl. G09F 13/00 (2006.01) H04B 17/318 (2015.01) H04W 4/44 (2018.01) H05B 47/11 (2020.01) H05B 47/115 (2020.01) G08G 1/0962 (2006.01)**
[25] EN
[54] **TRAFFIC WARNING AND DATA CAPTURE DEVICES AND METHODS**
[54] **DISPOSITIFS ET METHODES D'AVERTISSEMENT DE TRAFIC ET D'ENREGISTREMENT DE DONNEES**
[72] RAJAGOPAL, ARUDI SRINIVAS, US
[71] RAJAGOPAL, ARUDI SRINIVAS, US
[22] 2021-03-24
[41] 2021-09-24
[30] US (62/993,968) 2020-03-24

[21] **3,114,962**
[13] A1

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01) A61B 34/30 (2016.01) A61B 90/90 (2016.01)**
[25] EN
[54] **QUICK CONNECT SYSTEM FOR SURGICAL NAVIGATION TOOLS**
[54] **SYSTEME A BRANCHEMENT RAPIDE POUR DES OUTILS DE NAVIGATION CHIRURGICAUX**
[72] GAUDREAU, JEREMIE, CA
[71] ORTHOSOFT ULC, CA
[22] 2021-03-19
[41] 2021-09-19
[30] US (62/991,728) 2020-03-19

[21] **3,114,965**
[13] A1

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01) A61B 8/00 (2006.01)**
[25] EN
[54] **COMPUTER-ASSISTED TRACKING SYSTEM USING ULTRASOUND**
[54] **SYSTEME DE SUIVI ASSISTE PAR ORDINATEUR UTILISANT LES ULTRASONS**
[72] CERDA-CARVAJAL, VICTOR, CA
[72] BAUTIN, ANTOINE, FR
[72] STRUBEL, GREGORY, FR
[72] MADIER-VIGNEUX, JOSEPH, CA
[72] AMIOT, LOUIS-PHILIPPE, CA
[72] BOIVIN, GUILLAUME, CA
[72] JABBOUR, BASSAM, CA
[72] BEAUCHEMIN, PIERRE-FRANCOIS, CA
[71] ORTHOSOFT ULC, CA
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[41] 2021-09-19
[30] US (62/991,707) 2020-03-19

[21] **3,114,970**
[13] A1

[51] **Int.Cl. A47K 10/22 (2006.01) A47K 10/38 (2006.01) B65H 16/06 (2006.01)**
[25] EN
[54] **ROLLED WEB MATERIAL DISPENSER MATERIAL LOCKOUT SYSTEMS**
[54] **SYSTEME DE LIMITATION D'UN DISTRIBUTEUR DE MATERIAU DE TOILE ROULEE**
[72] SULIK, JAROD, US
[72] ZIEBART, BERNIE, US
[71] SAN JAMAR, INC., US
[22] 2021-03-19
[41] 2021-09-24
[30] US (16/828,359) 2020-03-24

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[21] **3,119,389**

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- [25] EN
- [54] **RECOMBINANT NUCLEIC ACID OF SENECA VALLEY VIRUS, RECOMBINANT VACCINE STRAIN AND PREPARATION METHOD AND USE THEREOF**
- [54] **ACIDE NUCLEIQUE RECOMBINANT DU VIRUS DE SENECA VALLEY, SOUCHE VACCINALE RECOMBINANTE, METHODE DE PREPARATION ET UTILISATION**
- [72] ZHENG, HAIXUE, CN
[72] YANG, FAN, CN
[72] ZHU, ZIXIANG, CN
[72] CAO, WEIJUN, CN
[72] TIAN, HONG, CN
[72] ZHANG, KESHAN, CN
[72] WEI, TING, CN
[72] ZHENG, MIN, CN
[72] ZHANG, WEI, CN
[72] DANG, WEN, CN
[72] MA, XUSHENG, CN
[72] LI, DAN, CN
[72] RU, YI, CN
[72] HE, JIJUN, CN
[72] GUO, JIANHONG, CN
[72] LIU, XIANGTAO, CN
[71] LANZHOU VETERINARY RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES, CN
[22] 2021-05-21
[41] 2021-09-24
[30] CN (202010212460.6) 2020-03-24

[21] **3,121,987**

[13] A1

- [51] **Int.Cl. H02S 10/40 (2014.01) H02S 20/30 (2014.01) H02S 30/20 (2014.01)**
- [25] EN
- [54] **SOLAR PANELS MOUNTED ON A BRIEFCASE**
- [54] **PANNEAUX SOLAIRES MONTES SUR UNE VALISE**
- [72] AZAD, FARSHEED, CA
[71] PREMIER CLOUD INC., CA
[22] 2021-06-11
[41] 2021-09-21

[21] **3,123,549**

[13] A1

- [51] **Int.Cl. G16H 40/20 (2018.01) G06Q 10/10 (2012.01) G06Q 30/04 (2012.01) A61C 19/00 (2006.01)**
- [25] EN
- [54] **SYSTEM AND COMPUTER IMPLEMENTED METHOD FOR AUTOMATICALLY PROVIDING A SET OF PROCEDURES**
- [54] **SYSTEME ET METHODE INFORMATIQUE POUR FOURNIR AUTOMATIQUEMENT UN ENSEMBLE DE PROCEDURES**
- [72] WHALEN, JANICE, CA
[71] WHALEN, JANICE, CA
[22] 2021-06-29
[41] 2021-09-24
[30] US (63/123,752) 2020-12-10
[30] US (17/235,106) 2021-04-20

[21] **3,124,358**

[13] A1

- [51] **Int.Cl. G06F 40/279 (2020.01) G06N 3/02 (2006.01)**
- [25] EN
- [54] **METHOD AND SYSTEM FOR IDENTIFYING CITATIONS WITHIN REGULATORY CONTENT**
- [54] **METHODE ET SYSTEME POUR RELEVER DES CITATIONS DANS DU CONTENU REGLEMENTAIRE**
- [72] RAMEZANI, MAHDI, CA
[72] KRAG, ELIJAH SOLOMON, CA
[72] TAHMASBI, AMIR ABBAS, CA
[72] MOORE, MARGERIE, CA
[71] MOORE & GASPERECZ GLOBAL INC., CA
[22] 2021-07-08
[41] 2021-09-22
[30] US (17/017,406) 2020-09-10

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[51] Int.Cl. C01B 3/04 (2006.01) B01D 53/22 (2006.01) B01D 53/52 (2006.01) C01B 3/02 (2006.01) C01B 3/50 (2006.01) C01B 17/02 (2006.01)		[51] Int.Cl. C07D 239/95 (2006.01) A61K 31/00 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 403/06 (2006.01) C07D 403/12 (2006.01) C07D 417/04 (2006.01) C07D 471/04 (2006.01) C07D 473/04 (2006.01)		[51] Int.Cl. B25J 9/18 (2006.01) B25J 19/04 (2006.01) G09G 5/377 (2006.01)	
[25] EN		[25] EN		[25] EN	
[54] PROCESS AND DEVICE FOR CONVERTING HYDROGEN SULFIDE INTO HYDROGEN GAS AND SULFUR		[54] 2-OXOQUINAZOLINE DERIVATIVES AS METHIONINE ADENOSYLTRANSFERASE 2A INHIBITORS		[54] REGISTRATION SYSTEM AND METHOD FOR ROBOT-ORIENTED AUGMENTED REALITY TEACHING SYSTEM	
[54] PROCEDE ET DISPOSITIF POUR CONVERTIR DU SULFURE D'HYDROGENE EN HYDROGENEGAZEUX ET EN SULFURE		[54] DERIVES DE 2-OXOQUINAZOLINE UTILISES EN TANT QU'INHIBITEURS DE LA METHIONINE ADENOSYLTRANSFERASE 2A		[54] SYSTEME D'ENREGISTREMENT ET METHODE POUR UN SYSTEME D'APPRENTISSAGE EN REALITE AUGMENTEE AXE SUR LES ROBOTS	
[72] WASAS, JAMES, US		[72] ALAM, MUZAFFAR, US		[72] CHEN, CHENG JUN, CN	
[72] WASAS, MARIAVICENTA, US		[72] CLEARY, LEAH, US		[72] DING, XU TONG, CN	
[71] STANDARD HYDROGEN COMPANY, INC., US		[72] FLEURY, MELISSA, US		[72] PAN, YONG, CN	
[85] 2020-12-18		[72] PEI, ZHONGHUA, US		[72] LI, DONG NIAN, CN	
[86] 2020-11-19 (PCT/US2020/061311)		[72] STEEL, RICHARD, US		[72] HONG, JUN, CN	
[87] (3104176)		[72] SUTTON, JAMES, US		[71] QINGDAO TECHNOLOGICAL UNIVERSITY, CN	
[30] US (16/905,204) 2020-06-18		[72] KNOX, JOHN, E., US		[86] (3122959)	
[30] US (62/992,477) 2020-03-20		[72] NEWBY, ZACHARY, E. R., US		[87] (3122959)	
		[71] IDEAYA BIOSCIENCES, INC., US		[22] 2020-03-24	
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		[30] US (62/835,853) 2019-04-18		[54] SYSTEMS AND METHODS FOR IMAGE PROCESSING	
		[30] US (62/883,945) 2019-08-07		[54] SYSTEMES ET METHODES DE TRAITEMENT D'IMAGE	
				[72] CHEN, LIANGYI, CN	
				[72] LI, HAoyu, CN	
				[72] ZHAO, WEISONG, CN	
				[72] HUANG, XIAOSHUAI, CN	
				[71] GUANGZHOU COMPUTATIONAL SUPER-RESOLUTION BIOTECH CO., LTD., CN	
				[85] 2021-07-07	
				[86] 2020-06-08 (PCT/CN2020/094853)	
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[21] **3,124,387**
[13] A1

[51] **Int.Cl. G01B 11/26 (2006.01) E21C 35/00 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR DETECTING ANGLE OF SHEARER ROCKER ARM BASED ON OPTICAL FIBER SENSING**

[54] **DISPOSITIF ET METHODE POUR DETECTER L'ANGLE DU CULBUTEUR D'UNE CISAILLE EN FONCTION D'UNE DETECTION PAR FIBRE OPTIQUE**

[72] XU, SHAOYI, CN
[72] ZHU, ZHENCAI, CN
[72] LI, WEI, CN
[72] XING, FANGFANG, CN
[72] WANG, YUQIAO, CN
[72] XUE, HONYU, CN
[72] PENG, QIANG, CN
[72] CHEN, GUANG, CN
[72] DONG, FENG, CN
[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN

[85] 2021-07-09
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[87] (3124387)
[30] CN (202010337685.4) 2020-04-26

[21] **3,124,850**
[13] A1

[51] **Int.Cl. B25J 9/18 (2006.01) B25J 19/04 (2006.01) G09G 5/377 (2006.01)**

[25] EN

[54] **REGISTRATION SYSTEM AND METHOD FOR ROBOT-ORIENTED AUGMENTED REALITY TECHING SYSTEM**

[54] **SYSTEME D~ENREGISTREMENT ET METHODE POUR UN SYSTEME D~APPRENTISSAGE EN REALITE AUGMENTEE AXE SUR LES ROBOTS**

[72] CHEN, CHENG JUN, CN
[72] DING, XU TONG, CN
[72] PAN, YONG, CN
[72] LI, DONG NIAN, CN
[72] HONG, JUN, CN
[71] QINGDAO TECHNOLOGICAL UNIVERSITY, CN

[85] 2021-07-20
[86] 2020-03-24 (PCT/CN2020/080786)
[87] (3124850)

[21] **3,125,071**
[13] A1

[51] **Int.Cl. F04D 29/66 (2006.01) F04D 7/04 (2006.01) F04D 13/06 (2006.01) F04D 29/24 (2006.01)**

[25] EN

[54] **PERMANENT MAGNET DIRECT-DRIVE SLURRY PUMP BASED ON GAS FILM DRAG REDUCTION**

[54] **POMPE A BOUE A ENTRAINEMENT DIRECT UTILISANT UN AIMANT PERMANENT AXEE SUR LA TRAINEE PAR COUSSIN GAZEUX**

[72] XIE, FANGWEI, CN
[72] FANG, SHUPENG, CN
[72] TIAN, ZUZH, CN
[72] SHEN, GANG, CN
[72] ZHU, ZHENCAI, CN
[72] ZHANG, HAIFANG, CN
[72] LI, HONGLEI, CN
[72] XU, CHUNJIE, CN
[72] ZHOU, WANCAI, CN
[71] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
[71] SHANDONG ZHANGQIU BLOWER CO., LTD., CN

[85] 2021-07-19
[86] 2020-07-02 (PCT/CN2020/099861)
[87] (3125071)
[30] CN (202010202205.3) 2020-03-20

[21] **3,127,396**
[13] A1

[51] **Int.Cl. G05F 1/147 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM FOR A VOLTAGE REGULATION DEVICE**

[54] **SYSTEME DE COMMANDE POUR DISPOSITIF DE REGULATION DE TENSION**

[72] DALEY, DANIEL JOSEPH, US
[72] RAPANT, FRED JOSEPH, US
[72] KALUZNY, RICHARD JOHN, US
[72] SAUER, DANIEL MICHAEL, US
[72] HEIDEN, KYLE JAMES, US
[71] EATON INTELLIGENT POWER LIMITED, IE

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[86] 2020-01-31 (PCT/EP2020/025046)
[87] (WO2020/156760)
[30] US (62/799,830) 2019-02-01

[21] **3,128,307**
[13] A1

[51] **Int.Cl. C02F 9/12 (2006.01) C02F 1/38 (2006.01) C02F 1/72 (2006.01) C02F 3/00 (2006.01) C02F 9/00 (2006.01) D21C 11/00 (2006.01)**

[25] EN

[54] **BUILT-IN MICRO-INTERFACE PAPERMAKING WASTEWATER TREATMENT SYSTEM AND WASTEWATER TREATMENT METHOD THEREOF**

[54] **SYSTEME DE TRAITEMENT DES EAUX USEES DE FABRICATION DE PAPIER AVEC MICRO-INTERFACE INTEGREE ET SON PROCEDE DE TRAITEMENT DES EAUX USEES**

[72] ZHANG, ZHIBING, CN
[72] ZHOU, ZHENG, CN
[72] ZHANG, FENG, CN
[72] LI, LEI, CN
[72] MENG, WEIMIN, CN
[72] WANG, BAORONG, CN
[72] YANG, GAODONG, CN
[72] LUO, HUAXUN, CN
[72] YANG, GUOQIANG, CN
[72] TIAN, HONGZHOU, CN
[72] CAO, YU, CN
[71] NANJING YANCHANG REACTION TECHNOLOGY RESEARCH INSTITUTE CO., LTD., CN

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[87] (3128307)
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[21] **3,128,707**
[13] A1

[51] **Int.Cl. B61D 17/08 (2006.01)**

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[54] **SIDE WALL STRUCTURE OF FREIGHT CAR AND RAILWAY FREIGHT CAR**

[54] **STRUCTURE DE MUR LATERAL DE WAGON DE MARCHANDISE ET DE WAGON DE MARCHANDISE DE CHEMIN DE FER**

[72] HE, JIAN, CN
[72] HAN, JUNFENG, CN
[72] ZHENG, HEPING, CN
[71] CRRC QIQIHAR ROLLING STOCK CO., LTD., CN

[85] 2021-08-20
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[87] (3128707)
[30] CN (202010202393.X) 2020-03-20
[30] CN (202020381516.6) 2020-03-20

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[13] A1

[51] **Int.Cl. C01B 3/02 (2006.01)**
[25] EN
[54] **PROCESS AND SYSTEM FOR GENERATING HYDROGEN**
[54] **PROCEDE ET SYSTEME DE GENERATION D'HYDROGENE**
[72] ANDERSON, DUNCAN, AU
[72] SILVA, CRISTIAN COELHO, BR
[71] HYDROBE PTY LTD, AU
[85] 2021-09-10
[86] 2020-03-25 (PCT/AU2020/050285)
[87] (WO2020/191442)
[30] AU (2019900999) 2019-03-25

[21] **3,130,184**
[13] A1

[25] EN
[54] **CAPSULE SHELL COMPRISING A CORE-SHELL POLYMER AND A CELLULOSE**
[54] **ECORCE DE CAPSULE COMPRENANT UN POLYMERE C?UR-ECORCE ET UNE CELLULOSE**
[72] HOLZER, BETTINA, DE
[72] ASSMUS, MANFRED, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-09-10
[86] 2020-03-05 (PCT/EP2020/055848)
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[30] EP (19162778.5) 2019-03-14

[21] **3,130,185**
[13] A1

[51] **Int.Cl. F01D 15/10 (2006.01) F02C 7/275 (2006.01) F02C 9/28 (2006.01) F02C 9/48 (2006.01)**
[25] FR
[54] **METHOD FOR REGULATING THE TEMPERATURE OF THE EXHAUST GASES OF A TURBOMACHINE**
[54] **PROCEDE DE REGULATION DE LA TEMPERATURE DES GAZ D'ECHAPPEMENT D'UNE TURBOMACHINE**
[72] CUVILLIER, ROMAIN GUILLAUME, FR
[72] CABRERA, PIERRE, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-09-10
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[87] (WO2020/188177)
[30] FR (1902699) 2019-03-15

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[13] A1

[51] **Int.Cl. G16H 40/67 (2018.01)**
[25] EN
[54] **MEDICAL DEVICE AND METHOD FOR REMOTE-CONTROL OF A MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL ET PROCEDE DE COMMANDE A DISTANCE D'UN DISPOSITIF MEDICAL**
[72] JOHANNESON, CAMILLA, SE
[72] LINDHULT, MIKAEL, SE
[72] MEBIUS, NIKLAS, SE
[71] GAMBRO LUNDIA AB, SE
[85] 2021-09-10
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[21] **3,130,187**
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[51] **Int.Cl. C07K 17/06 (2006.01) A61K 47/54 (2017.01) C07K 14/05 (2006.01)**
[25] EN
[54] **COMPOUND FOR THE SEQUESTRATION OF UNDESIRABLE ANTIBODIES IN A PATIENT**
[54] **COMPOSE POUR LA SEQUESTRATION D'ANTICORPS INDESIRABLES CHEZ UN PATIENT**
[72] SMRZKA, OSKAR, AT
[72] WANKO, BETTINA, AT
[71] ABLEVIA BIOTECH GMBH, AT
[85] 2021-09-10
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[30] EP (19164784.1) 2019-03-23

[21] **3,130,189**
[13] A1

[25] FR
[54] **SECONDARY FLOW RECTIFIER WITH INTEGRATED PIPE**
[54] **REDRESSEUR DE FLUX SECONDAIRE A TUYERE INTEGREE**
[72] NOBELEN, FLORENT MATTHIEU JACQUES, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-09-10
[86] 2020-03-12 (PCT/FR2020/050524)
[87] (WO2020/188197)
[30] FR (1902662) 2019-03-15

[21] **3,130,191**
[13] A1

[51] **Int.Cl. G16H 40/67 (2018.01)**
[25] EN
[54] **MEDICAL DEVICE AND METHOD FOR REMOTELY ACCESSING A MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL ET PROCEDE POUR ACCEDER A DISTANCE A UN DISPOSITIF MEDICAL**
[72] JOHANNESON, CAMILLA, SE
[72] LINDHULT, MIKAEL, SE
[72] MEBIUS, NIKLAS, SE
[71] GAMBRO LUNDIA AB, SE
[85] 2021-09-10
[86] 2020-04-16 (PCT/EP2020/060645)
[87] (WO2020/216665)
[30] EP (19170765.2) 2019-04-24

[21] **3,130,193**
[13] A1

[51] **Int.Cl. B61L 25/02 (2006.01)**
[25] EN
[54] **AUTONOMOUS TRACK ASSESSMENT SYSTEM**
[54] **SYSTEME D'EVALUATION DE VOIE FERREE AUTONOME**
[72] MESHER, DAREL, CA
[71] TETRA TECH, INC., US
[85] 2021-09-10
[86] 2020-05-18 (PCT/US2020/033449)
[87] (WO2020/232443)
[30] US (62/848,630) 2019-05-16
[30] US (62/988,630) 2020-03-12
[30] US (63/016,661) 2020-04-28

[21] **3,130,195**
[13] A1

[25] EN
[54] **METHODS OF SURFACE MODIFICATION OF SILICONES FOR SPECIFIC TARGET AND HIGH EFFICIENCY BINDING**
[54] **PROCEDES DE MODIFICATION DE SURFACE DE SILICONES POUR UNE CIBLE SPECIFIQUE ET UNE LIAISON A EFFICACITE ELEVEE**
[72] FISHER, JAY KENNETH, US
[72] KREMER, KATELYN ROSE, US
[71] REDBUD LABS, INC., US
[85] 2021-09-10
[86] 2020-04-17 (PCT/US2020/028622)
[87] (WO2020/186273)
[30] US (62/816,892) 2019-03-11

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[21] **3,130,196**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **PRODUCTION OF LARGE-SIZED QUASIDYSTROPHINS USING OVERLAPPING AAV VECTORS**
[54] **PRODUCTION DE QUASI-DYSTROPHINES DE GRANDE TAILLE A L'AIDE DE VECTEURS AAV CHEVAUCHANTS**
[72] RICHARD, ISABELLE, FR
[72] LOSTAL, WILLIAM, FR
[71] GENETHON, FR
[71] INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[71] UNIVERSITE D'EVRY VAL D'ESSONNE, FR
[85] 2021-09-10
[86] 2020-03-25 (PCT/EP2020/058372)
[87] (WO2020/193636)
[30] EP (19305377.4) 2019-03-25

[21] **3,130,198**
[13] A1

[51] **Int.Cl. G01S 17/89 (2020.01) B61L 23/04 (2006.01) G01S 17/88 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING AND INTERPRETING POINT CLOUDS OF A RAIL CORRIDOR ALONG A SURVEY PATH**
[54] **SYSTEME ET PROCEDE DE GENERATION ET D'INTERPRETATION DE NUAGES DE POINTS D'UN COULOIR FERROVIAIRE LE LONG D'UN TRAJET D'ETUDE**
[72] MESHER, DAREL, CA
[71] TETRA TECH, INC., US
[85] 2021-09-10
[86] 2020-05-18 (PCT/US2020/033374)
[87] (WO2020/232431)
[30] US (62/848,630) 2019-05-16
[30] US (62/988,630) 2020-03-12
[30] US (63/016,661) 2020-04-28

[21] **3,130,201**
[13] A1

[51] **Int.Cl. B65D 39/04 (2006.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **VIAL CAPS FOR BIOLOGICAL PROCESSING OR ANALYSIS**
[54] **BOUCHONS DE FLACONS POUR TRAITEMENT OU ANALYSE BIOLOGIQUE**
[72] DEJOHN, MARC, US
[72] VANWESTRIENEN, JESSE WILSON, US
[72] COX, CHRISTOPHER, US
[72] PARKHURST, PAUL, US
[71] BIOMEME, INC., US
[85] 2021-09-10
[86] 2020-03-12 (PCT/US2020/022368)
[87] (WO2020/186045)
[30] US (62/818,297) 2019-03-14
[30] US (62/942,320) 2019-12-02

[21] **3,130,266**
[13] A1

[51] **Int.Cl. F01D 25/18 (2006.01)**
[25] FR
[54] **METHOD FOR DETECTING A POSSIBLE FUEL LEAK IN AN OIL CIRCUIT OF AN AIRCRAFT ENGINE**
[54] **PROCEDE DE DETECTION D'UNE FUITE EVENTUELLE DE CARBURANT DANS UN CIRCUIT D'HUILE D'UN MOTEUR D'AERONEF**
[72] DENEUVE, SEBASTIEN JEAN FERNAND, FR
[72] ELBAZ, RUBEN ABRAHAM, FR
[72] VERRIER, ALRICK PATRICK MICHEL JACQUES, FR
[72] MATHEDARRE, CHRISTOPHE, FR
[72] FABBRO, NICOLAS ANDREA, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-09-13
[86] 2020-03-05 (PCT/FR2020/050446)
[87] (WO2020/188179)
[30] FR (1902657) 2019-03-15

[21] **3,130,305**
[13] A1

[25] FR
[54] **DEVICE FOR CONTROLLING A ROBOTIC SYSTEM FOR ASSISTING THE MOBILITY OF A USER**
[54] **DISPOSITIF DE COMMANDE D'UN SYSTEME ROBOTIQUE D'ASSISTANCE A LA MOBILITE D'UN UTILISATEUR**
[72] JARRASSE, NATHANAEL, FR
[72] LEGRAND, MATHILDE, FR
[72] MOREL, GUILLAUME, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[71] SORBONNE UNIVERSITE, FR
[85] 2021-09-13
[86] 2020-03-24 (PCT/EP2020/058203)
[87] (WO2020/193571)
[30] FR (FR1903103) 2019-03-25

[21] **3,130,348**
[13] A1

[51] **Int.Cl. A61P 37/06 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **A METHOD FOR IMMUNOSUPPRESSION**
[54] **METHODE D'IMMUNOSUPPRESSION**
[72] HAKIM, MOTTI, IL
[72] ALISHEKEVITZ, DROR, IL
[72] MEILIN, EDNA, IL
[72] MANDEL, ILANA, IL
[72] BEN-MOSHE, TEHILA, IL
[72] SAPIR, YAIR, IL
[72] SHULMAN, AVIDOR, IL
[71] BIOND BIOLOGICS LTD., IL
[85] 2021-09-13
[86] 2020-03-12 (PCT/IL2020/050293)
[87] (WO2020/183471)
[30] US (62/818,336) 2019-03-14
[30] US (62/942,240) 2019-12-02

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[21] **3,130,351**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **SMALL SHEDDING BLOCKING AGENTS**
[54] **AGENTS DE BLOCAGE DE PETITE TAILLE**
[72] HAKIM, MOTTI, IL
[72] FRIDMAN-DROR, ANNA, IL
[72] ALISHEKEVITZ, DROR, IL
[72] MEILIN, EDNA, IL
[72] MANDEL, ILANA, IL
[72] BEN-MOSHE, TEHILA, IL
[72] SHULMAN, AVIDOR, IL
[72] SAPIR, YAIR, IL
[71] BIOND BIOLOGICS LTD., IL
[85] 2021-09-13
[86] 2020-03-12 (PCT/IL2020/050297)
[87] (WO2020/183473)
[30] US (62/818,351) 2019-03-14
[30] US (62/942,240) 2019-12-02
[30] US (62/954,802) 2019-12-30

[21] **3,130,370**
[13] A1

[51] **Int.Cl. F16L 17/04 (2006.01)**
[25] EN
[54] **GROOVED PIPE COUPLING WITH IMPROVED SEALING**
[54] **RACCORD DE TUYAU RAINURE A ETANCHEITE AMELIOREE**
[72] ARTSIELY, EYAL, IL
[72] BAHALUL, YOEL, IL
[72] BEN HARUSH, MEIR, IL
[72] LUBOMIRSKI, GENIA, IL
[72] KREIMERMAN, GREGORI, IL
[71] MODGAL METAL (99) LTD., IL
[85] 2021-09-13
[86] 2020-03-15 (PCT/IL2020/050306)
[87] (WO2020/183480)
[30] US (62/818,217) 2019-03-14

[21] **3,130,385**
[13] A1

[51] **Int.Cl. E01B 29/26 (2006.01) E01B 9/06 (2006.01) E01B 9/12 (2006.01) E01B 29/16 (2006.01) E01B 29/24 (2006.01) E01B 29/32 (2006.01)**
[25] EN
[54] **SPIKE TRAY HEADS WITH REPLACEABLE WEAR PLATES**
[54] **TETES DE PLATEAUX DE CRAMPONS A PLAQUES D'USURE REMPLACABLES**
[72] PIPOL, JUSTIN J., US
[72] HENKE, DANIEL M., US
[71] S.W.N.G., INC., US
[85] 2021-09-13
[86] 2019-10-25 (PCT/US2019/058091)
[87] (WO2020/209897)
[30] US (62/833,570) 2019-04-12

[21] **3,130,386**
[13] A1

[51] **Int.Cl. H01M 10/613 (2014.01) H01M 10/643 (2014.01) H01M 10/653 (2014.01) H01M 10/6551 (2014.01)**
[25] EN
[54] **BATTERY MODULE THERMAL MANAGEMENT**
[54] **GESTION THERMIQUE DE MODULE DE BATTERIE**
[72] HOOPER, JOEL, US
[72] LEX, PETER, US
[72] TESCH, TOD, US
[72] POLITO, BENJAMIN FRANCIS, US
[72] KAUFMAN, JOSHUA DANIEL, US
[71] GENERAC POWER SYSTEMS, INC., US
[85] 2021-09-13
[86] 2020-03-13 (PCT/US2020/022718)
[87] (WO2020/186200)
[30] US (62/818,618) 2019-03-14
[30] US (62/926,124) 2019-10-25
[30] US (62/825,170) 2019-03-28
[30] US (62/983,225) 2020-02-28

[21] **3,130,389**
[13] A1

[51] **Int.Cl. A61K 31/685 (2006.01) C12N 5/0775 (2010.01) A23L 33/10 (2016.01) A61K 31/205 (2006.01) A61K 31/513 (2006.01) A61K 35/20 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 39/06 (2006.01)**
[25] EN
[54] **COMPOSITION FOR USE IN PREVENTION OR REDUCTION OF OXIDATIVE STRESS AND NEURODEGENERATIVE DISEASES**
[54] **COMPOSITION DESTINEE A ETRE UTILISEE DANS LA PREVENTION OU LA REDUCTION DU STRESS OXYDATIF ET DE MALADIES NEURODEGENERATIVES**
[72] RASI, SIMO, FI
[71] RASI, SIMO, FI
[85] 2021-09-13
[86] 2020-03-10 (PCT/FI2020/050150)
[87] (WO2020/212645)
[30] FI (20195318) 2019-04-18

[21] **3,130,390**
[13] A1

[51] **Int.Cl. C03C 3/087 (2006.01) C03C 3/091 (2006.01) C03C 3/095 (2006.01)**
[25] EN
[54] **CHEMICALLY DURABLE ALUMINOSILICATE GLASS COMPOSITIONS AND GLASS ARTICLES FORMED THEREFROM**
[54] **COMPOSITIONS DE VERRE D'ALUMINOSILICATE CHIMIQUEMENT DURABLES ET ARTICLES DE VERRE FORMES A PARTIR DE CES DERNIERES**
[72] LONNROTH, NADJA TERESIA, FI
[72] MA, LINA, US
[72] SCHAUT, ROBERT ANTHONY, US
[71] CORNING INCORPORATED, US
[85] 2021-09-13
[86] 2020-03-04 (PCT/US2020/020864)
[87] (WO2020/190504)
[30] US (62/819,184) 2019-03-15

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[21] **3,130,396**
[13] A1

[51] **Int.Cl. C07D 307/66 (2006.01) A61K 31/341 (2006.01) A61K 31/36 (2006.01) A61K 31/443 (2006.01) A61P 35/00 (2006.01) C07D 405/04 (2006.01) C07D 407/04 (2006.01)**

[25] EN

[54] **ISOTOPICALLY-STABILIZED TETRONIMIDE COMPOUNDS**

[54] **COMPOSES DE TETRONIMIDE A STABILISATION ISOTOPIQUE**

[72] OLSEN, MARK JON, US

[72] SEERDEN, JEAN PAUL, NL

[71] MIDWESTERN UNIVERSITY, US

[85] 2021-08-16

[86] 2020-02-14 (PCT/US2020/018256)

[87] (WO2020/168170)

[30] US (62/806,327) 2019-02-15

[21] **3,130,460**
[13] A1

[25] EN

[54] **FGFR TYROSINE KINASE INHIBITORS FOR THE TREATMENT OF UROTHELIAL CARCINOMA**

[54] **INHIBITEURS DE TYROSINE KINASE FGFR POUR LE TRAITEMENT DU CARCINOME UROTHELIAL**

[72] O'HAGAN, ANNE ELIZABETH, US

[72] SANTIAGO-WALKER, ADEMI ELENA, US

[72] AVADHANI, ANJALI NARAYAN, US

[71] JANSSEN PHARMACEUTICA N.V., BE

[85] 2021-09-14

[86] 2020-03-27 (PCT/US2020/025166)

[87] (WO2020/205493)

[30] EP (19166428.3) 2019-03-29

[30] EP (19188971.6) 2019-07-30

[21] **3,130,470**
[13] A1

[51] **Int.Cl. A61P 37/04 (2006.01) C07K 14/315 (2006.01)**

[25] EN

[54] **PNEUMOCOCCAL SURFACE PROTEINS**

[54] **PROTEINES DE SURFACE PNEUMOCOCCIQUES**

[72] YUKI, YOSHIKAZU, JP

[72] NAKAHASHI, RIKAI, JP

[72] KIYONO, HIROSHI, JP

[71] THE UNIVERSITY OF TOKYO, JP

[71] HANAVAX INC., JP

[85] 2021-09-14

[86] 2020-03-27 (PCT/JP2020/013929)

[87] (WO2020/203731)

[30] JP (2019-065362) 2019-03-29

[21] **3,130,476**
[13] A1

[51] **Int.Cl. G06F 16/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROVIDING ANONYMOUS VALIDATION OF A QUERY AMONG A PLURALITY OF NODES IN A NETWORK**

[54] **SYSTEME ET PROCEDE POUR FOURNIR UNE VALIDATION ANONYME D'UNE REQUETE PARI MI UNE PLURALITE DE N?UDS DANS UN RESEAU**

[72] LEVY, ITAY, IL

[72] ARAD, URI, IL

[71] IDENTIQ PROTOCOL LTD., IL

[85] 2021-09-14

[86] 2020-03-24 (PCT/IL2020/050344)

[87] (WO2020/194295)

[30] US (62/823,028) 2019-03-25

[30] US (16/826,638) 2020-03-23

[21] **3,130,488**
[13] A1

[25] EN

[54] **METHODS AND COMPOSITIONS FOR EDITING NUCLEOTIDE SEQUENCES**

[54] **PROCEDES ET COMPOSITIONS POUR L'EDITION DE SEQUENCES NUCLEOTIDIQUES**

[72] LIU, DAVID R., US

[72] ANZALONE, ANDREW VITO, US

[72] SHEN, MAX WALT, US

[71] THE BROAD INSTITUTE INC., US

[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[85] 2021-09-14

[86] 2020-03-19 (PCT/US2020/023553)

[87] (WO2020/191153)

[30] US (62/820,813) 2019-03-19

[30] US (62/858,958) 2019-06-07

[30] US (62/889,996) 2019-08-21

[30] US (62/974,537) 2019-12-05

[30] US (62/922,654) 2019-08-21

[30] US (62/913,553) 2019-10-10

[30] US (62/973,558) 2019-10-10

[30] US (62/931,195) 2019-11-05

[30] US (62/944,231) 2019-12-05

[30] US (62/991,069) 2020-03-17

[30] US (63/100,548) 2020-03-17

[21] **3,130,500**
[13] A1

[51] **Int.Cl. C04B 35/571 (2006.01) B29C 64/129 (2017.01) B29C 64/135 (2017.01) B33Y 70/10 (2020.01)**

[25] EN

[54] **MODIFIED POLYMER DERIVED CERAMICS FOR ADDITIVE MANUFACTURING, ADDITIVE MANUFACTURING USING SAME, AND CERAMIC BODIES MANUFACTURED THEREBY**

[54] **POLYMERE PRECERAMIQUE MODIFIE POUR FABRICATION ADDITIVE, FABRICATION ADDITIVE L'UTILISANT, ET CORPS CERAMIQUES AINSI FABRIQUES**

[72] FISHER, BENJAMIN D., US

[72] SALASIN, JOHN R., US

[71] BWXT ADVANCED TECHNOLOGIES, LLC, US

[85] 2021-09-14

[86] 2020-03-31 (PCT/US2020/025950)

[87] (WO2020/205856)

[30] US (62/827,372) 2019-04-01

[30] US (16/835,398) 2020-03-31

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[21] **3,130,504**
[13] A1

[51] **Int.Cl. D21B 1/36 (2006.01)**
[25] EN
[54] **STEAM-EXPLOSION EQUIPMENT AND METHOD FOR TREATMENT OF ORGANIC MATERIAL**
[54] **EQUIPEMENT DE VAPOCRAQUAGE ET PROCEDE DE TRAITEMENT DE MATIERE ORGANIQUE**
[72] INGOLFSSON, ODDUR, IS
[72] MATTHIASSEN, ASGEIR, IS
[72] INGOLFSSON, SIGURDUR, IS
[71] YMIR TECHNOLOGIES EHF., IS
[85] 2021-09-14
[86] 2020-03-20 (PCT/IS2020/050009)
[87] (WO2020/188606)
[30] IS (050258) 2019-03-20

[21] **3,130,507**
[13] A1

[51] **Int.Cl. A01D 41/06 (2006.01) A01D 41/14 (2006.01) A01D 75/18 (2006.01) A01B 73/04 (2006.01)**
[25] EN
[54] **OVERLOAD DETECTION SYSTEM FOR A HARVESTING HEAD**
[54] **SYSTEME DE DETECTION DE SURCHARGE POUR UNE TETE DE RECOLTE**
[72] HUNT, CORY, US
[72] MCKINNEY, PRESTON, US
[72] D'AMICANTONIO, MATTHEW, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2021-09-14
[86] 2020-04-09 (PCT/US2020/027559)
[87] (WO2020/210555)
[30] US (62/831,975) 2019-04-10

[21] **3,130,513**
[13] A1

[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 31/353 (2006.01) A61P 35/00 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TUMOR-SELECTIVE COMBINATION THERAPY**
[54] **POLYTHERAPIE A SELECTION DE TUMEUR**
[72] BOOTHMAN, DAVID, US
[72] HERGENROTHER, PAUL J., US
[72] LI, XIAOQUANG, US
[72] JIANG, LINGXIANG, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[71] INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION, US
[71] THE BOARD TRUSTEES OF UNIVERSITY OF ILLINOIS, US
[85] 2021-09-14
[86] 2020-03-18 (PCT/US2020/023250)
[87] (WO2020/190990)
[30] US (62/819,870) 2019-03-18

[21] **3,130,518**
[13] A1

[51] **Int.Cl. A61P 1/16 (2006.01) A61P 19/02 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **NITAZOXANIDE AND THIAZOLIDES FOR USE IN THE TREATMENT OF DISEASES ASSOCIATED WITH OXIDATIVE STRESS**
[54] **NITAZOXANIDE ET THIAZOLIDES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE MALADIES ASSOCIEES AU STRESS OXYDATIF**
[72] STANKOVIC-VALENTIN, NICOLAS, BE
[72] FOUCART, CORINNE, FR
[72] PARROCHE, PEGGY, FR
[72] WALCZAK, ROBERT, FR
[71] GENFIT, FR
[85] 2021-09-14
[86] 2020-04-09 (PCT/EP2020/060287)
[87] (WO2020/208208)
[30] EP (19305480.6) 2019-04-12

[21] **3,130,520**
[13] A1

[51] **Int.Cl. A01D 69/08 (2006.01) F16D 27/112 (2006.01) F16D 27/14 (2006.01) F16D 67/02 (2006.01) F16D 67/06 (2006.01)**
[25] EN
[54] **ROTATIONAL COUPLING DEVICE WITH FLUX CONDUCTING BEARING SHIELD**
[54] **DISPOSITIF D'ACCOUPLMENT ROTATIF COMPRENANT UN ECRAN DE PALIER CONDUCTEUR DE FLUX**
[72] HOLMBECK, BRIAN, K., US
[72] HUMY, MICHAEL, US
[71] WARNER ELECTRIC TECHNOLOGY LLC, US
[85] 2021-09-14
[86] 2020-04-08 (PCT/US2020/027128)
[87] (WO2020/210270)
[30] US (16/379,883) 2019-04-10

[21] **3,130,522**
[13] A1

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE STABILIZATION OF MICRO-RNA**
[54] **COMPOSITIONS ET PROCEDES DE STABILISATION DE MARN**
[72] MAJD, ZOUHER, FR
[71] GENFIT, FR
[85] 2021-09-14
[86] 2020-04-16 (PCT/EP2020/060760)
[87] (WO2020/212522)
[30] EP (19305496.2) 2019-04-16

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[21] **3,130,525**
[13] A1

[25] EN
[54] **HYBRID PROMOTERS FOR MUSCLE EXPRESSION**
[54] **PROMOTEURS HYBRIDES POUR L'EXPRESSION MUSCULAIRE**
[72] RONZITTI, GIUSEPPE, FR
[72] VIDAL, PATRICE, FR
[72] MINGOZZI, FEDERICO, US
[71] GENETHON, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[71] SARBONNE UNIVERSITE, FR
[71] UNIVERSITE D'EVRY VAL D'ESSONNE, FR
[85] 2021-09-14
[86] 2020-04-07 (PCT/EP2020/059919)
[87] (WO2020/208032)
[30] EP (19305455.8) 2019-04-08

[21] **3,130,533**
[13] A1

[51] **Int.Cl. B04B 1/08 (2006.01) B04B 1/20 (2006.01)**
[25] EN
[54] **INTEGRATED DECANTER AND CENTRIFUGE SEPARATOR FOR THREE-PHASE SEPARATION**
[54] **DECANTEUR ET SEPARATEUR CENTRIFUGE INTEGRES POUR SEPARATION TRIPHASIQUE**
[72] MATTHIASSEN, ASGEIR, IS
[72] INGOLFSSON, ODDUR, IS
[72] INGOLFSSON, SIGURDUR, IS
[71] YMIR TECHNOLOGIES EHF., IS
[85] 2021-09-14
[86] 2020-03-20 (PCT/IS2020/050010)
[87] (WO2020/188607)

[21] **3,130,538**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR DETERMINING A RELATIVE RISK FOR LACK OF GLYCEMIC CONTROL FOR A PLURALITY OF PATIENTS, AND COMPUTER PROGRAM PRODUCT**
[54] **PROCEDE ET SYSTEME MIS EN ?UVRE PAR ORDINATEUR POUR DETERMINER UN RISQUE RELATIF DE MANQUE DE REGULATION DE LA GLYCEMIE POUR UNE PLURALITE DE PATIENTS, ET PRODUIT-PROGRAMME D'ORDI ATEU**
[72] BIVEN, RICHARD P., AT
[72] SCHUSTER, LUKAS, AT
[72] THEISSEN, MICHELE, AT
[72] WREDE, JAN, AT
[71] MYSUGR GMBH, AT
[85] 2021-09-14
[86] 2020-03-27 (PCT/EP2020/058697)
[87] (WO2020/201077)
[30] EP (19166408.5) 2019-03-29

[21] **3,130,539**
[13] A1

[51] **Int.Cl. E01B 29/24 (2006.01) E01B 29/26 (2006.01) E01B 29/32 (2006.01)**
[25] EN
[54] **SPIKE PULLER WORKHEAD WITH INDEPENDENT CONTROL**
[54] **UNITE DE TRAVAIL D'ARRACHAGE DE CRAMPONS A COMMANDE INDEPENDANTE**
[72] HENKE, DANIEL, M., US
[72] PIPOL, JUSTIN, J., US
[71] CIPO, CA
[71] S.W.N.G., INC., US
[85] 2021-09-14
[86] 2019-04-30 (PCT/US2019/029934)
[87] (WO2020/209877)
[30] US (62/832,874) 2019-04-11

[21] **3,130,545**
[13] A1

[51] **Int.Cl. F01D 1/26 (2006.01) F01D 5/03 (2006.01) F01D 5/26 (2006.01) F01D 5/30 (2006.01) F02C 3/067 (2006.01)**
[25] FR
[54] **IMPROVED DEVICE FOR ATTACHING BLADES IN A CONTRA-ROTATING TURBINE**
[54] **DISPOSITIF AMELIORE D'ATTACHE D'AUBES DANS UNE TURBINE CONTRAROTATIVE**
[72] SULTANA, PATRICK JEAN LAURENT, FR
[72] COIFFIER, CLEMENT CHARLES JEREMY, FR
[72] RENON, OLIVIER, FR
[72] ZAMAI, LAURENT CEDRIC, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-09-14
[86] 2020-04-03 (PCT/EP2020/059506)
[87] (WO2020/207909)
[30] FR (FR1903741) 2019-04-08

[21] **3,130,546**
[13] A1

[51] **Int.Cl. C07K 14/735 (2006.01) B01D 15/38 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF AN FCRN EXPRESSING CELL BY TARGETED INTEGRATION OF MULTIPLE EXPRESSION CASSETTES IN A DEFINED ORGANIZATION**
[54] **PROCEDE DE GENERATION D'UNE CELLULE EXPRIMANT FCRN PAR INTEGRATION CIBLEE DE MULTIPLES CASSETTES D'EXPRESSION DANS UNE ORGANISATION DEFINIE**
[72] SCHLOTHAUER, TILMAN, DE
[72] SEEBER, STEFAN, DE
[72] WEHRSTEIN, JASMIN MARIA, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-09-14
[86] 2020-03-26 (PCT/EP2020/058452)
[87] (WO2020/200983)
[30] EP (19166030.7) 2019-03-29

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[21] **3,130,547**
[13] A1

[25] EN
[54] **CONTINUOUS FLOW SYSTEM FOR THE PRODUCTION AND PURIFICATION OF BIODIESEL**
[54] **SYSTEME A ECOULEMENT CONTINU POUR LA PRODUCTION ET LA PURIFICATION DE BIODIESEL**
[72] INGOLFSSON, ODDUR, IS
[72] MATTHIASSEN, ASGEIR, IS
[72] BJARNASON, EIRIKUR, IS
[72] INGOLFSSON, SIGURDUR, IS
[71] YMIR TECHNOLOGIES EHF., IS
[85] 2021-09-14
[86] 2020-03-20 (PCT/IS2020/050011)
[87] (WO2020/188608)
[30] IS (050257) 2019-03-20

[21] **3,130,632**
[13] A1

[51] **Int.Cl. A21C 9/08 (2006.01) A21C 13/02 (2006.01)**
[25] EN
[54] **UNDERHUNG PAN SHAKER WITH MULTIPLE MODES OF MOVEMENT**
[54] **AGITATEUR DE PLATEAU SUSPENDU AYANT DE MULTIPLES MODES DE MOUVEMENT**
[72] CLEMONS, SCOTT, US
[72] PACK, JERRY, US
[71] BURFORD CORPORATION, US
[85] 2021-09-15
[86] 2020-03-19 (PCT/US2020/023509)
[87] (WO2020/191129)
[30] US (62/820,351) 2019-03-19

[21] **3,130,658**
[13] A1

[51] **Int.Cl. A61K 35/763 (2015.01) A61K 35/76 (2015.01) C07K 16/28 (2006.01)**
[25] EN
[54] **USE OF ONCOLYTIC VIRUSES IN THE NEOADJUVANT THERAPY OF CANCER**
[54] **UTILISATION DE VIRUS ONCOLYTIQUES DANS UN TRAITEMENT NEOADJUVANT DU CANCER**
[72] GANSERT, JENNIFER LORRAINE, US
[71] AMGEN INC., US
[85] 2021-09-15
[86] 2020-03-26 (PCT/US2020/024883)
[87] (WO2020/205412)
[30] US (62/825,929) 2019-03-29
[30] US (62/882,013) 2019-08-02
[30] US (62/898,889) 2019-09-11

[21] **3,130,598**
[13] A1

[51] **Int.Cl. B60V 1/10 (2006.01) B60V 1/02 (2006.01) B64C 9/02 (2006.01) B64C 39/06 (2006.01)**
[25] EN
[54] **AIRCRAFT AND METHOD OF OPERATING AN AIRCRAFT**
[54] **OBJET VOLANT ET PROCEDE POUR FAIRE FONCTIONNER UN OBJET VOLANT**
[72] OBERMOSER, KARL, DE
[72] MEIER, CLAUDIA, DE
[71] KMTC VORTIFER PROJEKTGESELLSCHAFT MBH, DE
[85] 2021-07-21
[86] 2020-01-28 (PCT/EP2020/052021)
[87] (WO2020/157052)
[30] DE (10 2019 000 682.8) 2019-01-30
[30] DE (10 2019 210 417.7) 2019-07-15

[21] **3,130,640**
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A01N 43/60 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01)**
[25] EN
[54] **PESTICIDALLY ACTIVE DIAZINE-AMIDE COMPOUNDS**
[54] **COMPOSES DE DIAZINE-AMIDE A ACTION PESTICIDE**
[72] SCHAEZTER, JURGEN HARRY, CH
[72] EDMUNDS, ANDREW, CH
[72] GAGNEPAIN, JULIEN DANIEL HENRI, CH
[72] HALL, ROGER GRAHAM, CH
[72] JEANGUENAT, ANDRE, CH
[72] KOLLETH KRIEGER, AMANDINE, CH
[72] LE CHAPELAIN, CAMILLE, CH
[72] PALWE, SHRIKANT, IN
[72] PHADTE, MANGALA, IN
[72] PITTERNNA, THOMAS, CH
[72] RENDLER, SEBASTIAN, CH
[72] SCARBOROUGH, CHRISTOPHER CHARLES, CH
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2021-09-15
[86] 2020-03-27 (PCT/EP2020/058701)
[87] (WO2020/201079)
[30] EP (19166323.6) 2019-03-29
[30] EP (19204721.5) 2019-10-22
[30] EP (20151657.2) 2020-01-14

[21] **3,130,673**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12Q 1/6895 (2018.01) A01H 1/08 (2006.01) A01H 5/10 (2018.01) C12N 9/18 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DRIVING T1 EVENT DIVERSITY**
[54] **COMPOSITIONS ET PROCEDES POUR ENTRAÎNER UNE DIVERSITE D'EVENEMENTS T1**
[72] KELLIHER, TIMOTHY, US
[72] GREEN, JULIE, US
[72] CHEN, ZHONGYING, US
[72] SHI, WAN, CN
[72] TANG, GUOZHU, US
[72] LI, JIANG, CN
[72] SCORGIE, EMILY, NL
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2021-08-17
[86] 2020-02-24 (PCT/US2020/019499)
[87] (WO2020/176412)
[30] CN (PCT/CN2019/076062) 2019-02-25

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[21] **3,130,688**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/30 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/11 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **HYPOXIA-RESPONSIVE CHIMERIC ANTIGEN RECEPTORS**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES SENSIBLES A L'HYPOXIE**

[72] ARNOLD, JAMES NOBLE, GB
[72] MAHER, JOHN, GB
[72] KOSTI, PARASKEVAS, GB
[71] KING'S COLLEGE LONDON, GB
[85] 2021-08-18
[86] 2020-02-19 (PCT/GB2020/050401)
[87] (WO2020/169974)
[30] GB (1902277.1) 2019-02-19

[21] **3,130,689**
[13] A1

[51] **Int.Cl. D21H 17/63 (2006.01) D21H 17/66 (2006.01) D21H 19/84 (2006.01) D21H 21/18 (2006.01)**

[25] EN

[54] **USE OF METAL CHELATES AS A SURFACE APPLICATION FOR ABRASION AND/OR TABER STIFFNESS, IMPROVEMENT IN PAPER AND PAPERBOARD**

[54] **UTILISATION DE CHELATES METALLIQUES COMME APPLICATION DE SURFACE POUR UNE ABRASION ET/OU UNE RIGIDITE TABER, AMELIORATION DANS LE PAPIER ET LE CARTON**

[72] BUGG, GEORGE GORDON, US
[71] KEMIRA OYJ, FI
[85] 2021-09-15
[86] 2020-04-01 (PCT/US2020/026064)
[87] (WO2020/205905)
[30] US (62/828,021) 2019-04-02
[30] FI (20195451) 2019-05-29

[21] **3,130,694**
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/10 (2006.01) A61P 31/12 (2006.01) A61P 31/16 (2006.01) C07K 7/00 (2006.01) C07K 7/56 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **HEMAGGLUTININ-BINDING PEPTIDE**

[54] **PEPTIDE DE LIAISON A L'HEMAGGLUTININE**

[72] MASUYA, KEIICHI, JP
[72] OHUCHI, MASAKI, JP
[71] PEPTIDREAM INC., JP
[85] 2021-08-17
[86] 2020-02-17 (PCT/JP2020/006146)
[87] (WO2020/171028)
[30] JP (2019-026185) 2019-02-18

[21] **3,130,695**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 16/30 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **DOSING FOR TREATMENT WITH ANTI-TIGIT AND ANTI-CD20 OR ANTI-CD38 ANTIBODIES**

[54] **DOSAGE POUR TRAITEMENT AVEC DES ANTICORPS ANTI-TIGIT ET ANTI-CD20 OU ANTI-CD38**

[72] MENG, RAYMOND D., US
[72] HSIEH, ROBERT WENCHEN, US
[72] PATIL, NAMRATA SRIVASTAVA, US
[72] KELLEY, SEAN KEITH, US
[72] KLING-MILLER, KAREN LYNN, US
[72] FLANAGAN, WILLIAM MICHAEL, US
[71] GENENTECH, INC., US
[85] 2021-08-17
[86] 2020-02-27 (PCT/US2020/020135)
[87] (WO2020/176748)
[30] US (62/811,513) 2019-02-27
[30] US (62/832,769) 2019-04-11
[30] US (62/835,941) 2019-04-18
[30] US (62/866,309) 2019-06-25

[21] **3,130,697**
[13] A1

[51] **Int.Cl. E01C 5/18 (2006.01) E01C 5/20 (2006.01) E01C 9/08 (2006.01) E04B 5/02 (2006.01)**

[25] EN

[54] **OVERLAPPING MODULAR MAT SYSTEM INCLUDING MAT COMPONENTS HAVING FORTIFYING MEMBERS**

[54] **SYSTEME DE TAPIS MODULAIRE A CHEVAUCHEMENT COMPRENANT DES COMPOSANTS DE TAPIS AYANT DES ELEMENTS DE RENFORCEMENT**

[72] BORDELON, RANDY PAUL, US
[72] MCDOWELL, JAMES KERWIN, US
[72] AGRAWAL, GAURAV, US
[72] AZIZ, SAAD, US
[72] MANUEL, DANE, US
[72] MARCEL, ADAM, US
[71] NEWPARK MATS & INTEGRATED SERVICES LLC, US
[85] 2021-08-17
[86] 2020-02-28 (PCT/US2020/020310)
[87] (WO2020/176833)
[30] US (62/811,878) 2019-02-28

[21] **3,130,698**
[13] A1

[51] **Int.Cl. A61K 35/15 (2015.01) C12Q 1/6886 (2018.01) A61K 31/015 (2006.01)**

[25] EN

[54] **METHODS AND CLINICAL PROTOCOLS AND KITS PERTAINING TO MAKING AND USING THERAPEUTIC COMPOSITIONS FOR CELLULAR TREATMENT**

[54] **PROCEDES ET PROTOCOLES CLINIQUES ET KITS SE RAPPORTANT A LA FABRICATION ET A L'UTILISATION DE COMPOSITIONS THERAPEUTIQUES POUR LE TRAITEMENT CELLULAIRE**

[72] GRECO, STEVEN JOHN, US
[72] GUIRO, KHADIDIATOU, US
[71] ADVANCED REGEN MEDICAL TECHNOLOGIES, LLC, US
[85] 2021-09-15
[86] 2020-03-16 (PCT/US2020/023011)
[87] (WO2020/190888)
[30] US (62/819,972) 2019-03-18
[30] US (62/820,168) 2019-03-18
[30] US (62/850,371) 2019-05-20

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[21] **3,130,700**
[13] A1

[51] **Int.Cl. G01F 22/00 (2006.01) B65D 81/00 (2006.01) F26B 5/06 (2006.01) A01N 1/02 (2006.01)**

[25] EN

[54] **LYOPHILIZATION CONTAINER FILL FIXTURE, SYSTEM AND METHOD OF USE**

[54] **AGENCEMENT DE REMPLISSAGE DE CONTENANT DE LYOPHILISATION, SYSTEME ET PROCEDURE D'UTILISATION**

[72] JOHNSON, NATHANIEL T., US

[72] SUMMIT, RYLAN A., US

[72] BRIDGES, DENNIS A., US

[72] HLAVINKA, DENNIS J., US

[72] PARAKININKAS, KESTAS P., US

[72] WEIMER, KIRK L., US

[72] GLOVER, MICHAEL LAWRENCE, US

[72] NGUYEN, ALEXANDER DU, US

[72] KWIAT, MARGARET V., US

[71] TERUMO BCT BIOTECHNOLOGIES, LLC, US

[85] 2021-08-17

[86] 2020-03-11 (PCT/US2020/022128)

[87] (WO2020/185916)

[30] US (62/818,214) 2019-03-14

[30] US (62/952,752) 2019-12-23

[30] US (62/971,072) 2020-02-06

[21] **3,130,701**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C07K 16/28 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **METHODS FOR ENHANCING TCR.ALPHA..BETA.+CELL DEPLETION EFFICIENCY**

[54] **METHODES POUR AMELIORER L'EFFICACITE DE REDUCTION TCR.ALPHA..BETA.+CELL**

[72] NI, YAJIN, US

[72] NING, HONGXIU, US

[72] LEE, JANET M., US

[72] LEONARD, MARK W., US

[71] ALLOGENE THERAPEUTICS, INC., US

[85] 2021-09-15

[86] 2020-03-20 (PCT/US2020/024059)

[87] (WO2020/191378)

[30] US (62/821,768) 2019-03-21

[21] **3,130,702**
[13] A1

[51] **Int.Cl. B65D 75/58 (2006.01)**

[25] EN

[54] **CHILD RESISTANT PEEL POUCH**

[54] **ENVELOPPE PELABLE A L'EPREUVE DES ENFANTS**

[72] CARDIN, JULIE A., US

[72] CHAPDELAIN, EDWARD EMMETT, US

[71] SUNOVION PHARMACEUTICALS INC., US

[85] 2021-08-17

[86] 2020-03-12 (PCT/US2020/022245)

[87] (WO2020/185993)

[30] US (62/816,991) 2019-03-12

[21] **3,130,703**
[13] A1

[51] **Int.Cl. D21H 21/18 (2006.01) D21H 17/37 (2006.01) D21H 17/52 (2006.01) D21H 17/55 (2006.01) D21H 17/56 (2006.01) D21H 17/66 (2006.01) D21H 17/69 (2006.01) D21H 21/20 (2006.01) D21H 23/50 (2006.01)**

[25] EN

[54] **PAPER STRENGTH IMPROVEMENT USING METAL CHELATES AND SYNTHETIC CATIONIC POLYMERS**

[54] **AMELIORATION DE LA RESISTANCE DU PAPIER A L'AIDE DE CHELATES METALLIQUES ET DE POLYMERES CATIONIQUES SYNTHETIQUES**

[72] CAMPBELL, CLAYTON, US

[72] CHEN, JUNHUA, US

[72] DANG, ZHENG, US

[71] KEMIRA OYJ, FI

[85] 2021-09-15

[86] 2020-04-01 (PCT/US2020/026066)

[87] (WO2020/205907)

[30] US (62/828,009) 2019-04-02

[30] FI (20195452) 2019-05-29

[21] **3,130,706**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 47/54 (2017.01) A61K 31/45 (2006.01) A61K 31/506 (2006.01)**

[25] EN

[54] **CDK2/5 DEGRADERS AND USES THEREOF**

[54] **AGENTS DE DEGRADATION DE CDK2/5 ET UTILISATIONS ASSOCIEES**

[72] GRAY, NATHANAEL, US

[72] KWIATKOWSKI, NICHOLAS, US

[72] FISCHER, ERIC, US

[72] DONOVAN, KATHERINE, US

[72] ZHANG, TINGHU, US

[72] TENG, MINGXING, US

[72] JIANG, JIE, US

[71] DANA-FARBER CANCER INSTITUTE, INC., US

[85] 2021-08-17

[86] 2020-04-02 (PCT/US2020/026411)

[87] (WO2020/206137)

[30] US (62/829,302) 2019-04-04

[30] US (62/981,334) 2020-02-25

[21] **3,130,709**
[13] A1

[51] **Int.Cl. B01J 23/64 (2006.01) B01J 32/00 (2006.01) B01J 35/10 (2006.01) B01J 37/04 (2006.01) B01J 37/08 (2006.01) B01J 38/02 (2006.01)**

[25] EN

[54] **CATALYST STRUCTURE AND METHOD OF UPGRADING HYDROCARBONS IN THE PRESENCE OF THE CATALYST STRUCTURE**

[54] **STRUCTURE DE CATALYSEUR ET PROCEDURE DE VALORISATION D'HYDROCARBURES EN PRESENCE DE LA STRUCTURE DE CATALYSEUR**

[72] SONG, HUA, CA

[72] AIKEN, BLAIR, CA

[72] HE, PENG, CA

[72] MENG, SHIJUN, CA

[71] KARA TECHNOLOGIES INC., CA

[85] 2021-08-18

[86] 2020-02-17 (PCT/IB2020/000151)

[87] (WO2020/170042)

[30] US (62/807,795) 2019-02-20

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[21] **3,130,710**
[13] A1

[51] **Int.Cl. A61F 2/00 (2006.01) A61F 2/14 (2006.01) A61F 2/16 (2006.01) G02C 7/00 (2006.01) G02C 7/02 (2006.01) G02C 7/04 (2006.01)**

[25] EN

[54] **AN OPTICAL DEVICE WITH DESENSITIZED ROTATIONAL ANGULAR ALIGNMENT FOR ASTIGMATISM CORRECTION**

[54] **DISPOSITIF OPTIQUE A ALIGNEMENT ANGULAIRE DE ROTATION DESENSIBILISE POUR CORRECTION D'ASTIGMATISME**

[72] CHEN, MINGHAN, US

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

[85] 2021-08-18

[86] 2020-02-12 (PCT/IB2020/051133)

[87] (WO2020/170077)

[30] US (16/278,815) 2019-02-19

[21] **3,130,713**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **COMBINATION OF NITAZOXANIDE AND ELAFIBRANOR FOR THE TREATMENT OF IMMUNE DISEASES OR INFLAMMATION**

[54] **COMBINAISON DE NITAZOXANIDE ET D'ELAFIBRANOR POUR LE TRAITEMENT DE MALADIES IMMUNITAIRES OU D'UNE INFLAMMATION**

[72] PARROCHE, PEGGY, FR

[72] WALCZAK, ROBERT, FR

[71] GENFIT, FR

[85] 2021-09-15

[86] 2020-04-07 (PCT/EP2020/059941)

[87] (WO2020/208044)

[30] EP (19305463.2) 2019-04-09

[21] **3,130,718**
[13] A1

[51] **Int.Cl. A61K 38/26 (2006.01) A61K 31/192 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07C 323/22 (2006.01) C07K 14/605 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY COMPRISING COMPOUNDS OF FORMULA (I) AND GLP-1 RECEPTOR AGONISTS**

[54] **POLYTHERAPIE COMPRENANT DES COMPOSES DE FORMULE (I) ET DES AGONISTES DU RECEPTEUR GLP-1**

[72] WALCZAK, ROBERT, FR

[72] LEGRY, VANESSA, FR

[72] DESCAMPS, EMELINE, FR

[71] GENFIT, FR

[85] 2021-09-15

[86] 2020-04-09 (PCT/EP2020/060283)

[87] (WO2020/208205)

[30] EP (19305468.1) 2019-04-10

[21] **3,130,711**
[13] A1

[51] **Int.Cl. A63B 71/14 (2006.01) A41D 19/015 (2006.01)**

[25] EN

[54] **GLOVE AND ACCESSORY FOR USE WITH A GLOVE**

[54] **GANT ET ACCESSOIRE POUR L'UTILISATION AVEC UN GANT**

[72] QUINLAN, STEPHEN JOHN, ZA

[71] GLOVE IP (PTY) LTD, ZA

[85] 2021-08-18

[86] 2020-02-18 (PCT/IB2020/051333)

[87] (WO2020/170126)

[30] ZA (2019/01014) 2019-02-18

[21] **3,130,715**
[13] A1

[51] **Int.Cl. B29C 64/165 (2017.01) B33Y 70/10 (2020.01) C08K 3/08 (2006.01) C08K 3/14 (2006.01) C08K 3/22 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR ADDITIVE MANUFACTURING AND METHODS OF ADDITIVE MANUFACTURING, PARTICULARLY OF NUCLEAR REACTOR COMPONENTS**

[54] **COMPOSITIONS POUR LA FABRICATION ADDITIVE ET PROCEDES DE FABRICATION ADDITIVE, EN PARTICULIER, DE COMPOSANTS DE REACTEUR NUCLEAIRE**

[72] FISHER, BENJAMIN D., US

[72] SALASIN, JOHN R., US

[72] WIGGINS, BRIAN BLAKE, US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2021-09-15

[86] 2020-03-31 (PCT/US2020/025944)

[87] (WO2021/002902)

[30] US (62/827,670) 2019-04-01

[30] US (16/835,370) 2020-03-31

[21] **3,130,721**
[13] A1

[51] **Int.Cl. G21C 21/02 (2006.01) G21C 3/58 (2006.01) G21C 3/64 (2006.01)**

[25] EN

[54] **FUNCTIONALLY GRADED LATTICE CERMET FUEL STRUCTURE WITH SHAPE CORRESPONDING TO A MATHEMATICALLY-BASED PERIODIC SOLID, PARTICULARLY FOR NTP APPLICATIONS**

[54] **STRUCTURE DE COMBUSTIBLE CERMET EN TREILLIS CALIBRES FONCTIONNELLEMENT PRESENTANT UNE FORME CORRESPONDANT A UN SOLIDE PERIODIQUE BASE SUR LA MATHEMATIQUE, EN PARTICULIER DESTINEE DES APPLICATIONS NT**

[72] FISHER, BENJAMIN D., US

[72] GRAMLICH, CRAIG D., US

[72] WITTER, JONATHAN K., US

[72] SALASIN, JOHN R., US

[71] BWXT ADVANCED TECHNOLOGIES LLC, US

[85] 2021-09-15

[86] 2020-03-31 (PCT/US2020/025948)

[87] (WO2021/002903)

[30] US (62/827,706) 2019-04-01

[30] US (16/835,388) 2020-03-31

[21] **3,130,712**
[13] A1

[51] **Int.Cl. C12N 15/88 (2006.01)**

[25] EN

[54] **LIPID ENCASING AMPHIPATHIC PEPTIDES**

[54] **PEPTIDES AMPHIPATHIQUES ENCAPSULANT DES LIPIDES**

[72] TOMICH, JOHN M., US

[72] DE MELLO BARROS, SHEILA, US

[72] WHITAKER, SUSAN K., US

[72] SUKTHANKAR, PINAKIN, US

[71] KANSAS STATE UNIVERSITY RESEARCH FOUNDATION, US

[85] 2021-09-15

[86] 2020-03-20 (PCT/US2020/023891)

[87] (WO2020/198020)

[30] US (62/822,370) 2019-03-22

PCT Applications Entering the National Phase

[21] **3,130,726**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/686 (2018.01)**

[25] EN

[54] **SELECTIVE ENRICHMENT BROTH FOR DETECTION OF ONE OR MORE PATHOGENS**

[54] **BOUILLON D'ENRICHISSEMENT SELECTIF POUR LA DETECTION D'UN OU PLUSIEURS AGENTS PATHOGENES**

[72] ZGRATI, CYRUS CODY, US

[72] CENTOLA, MICHAEL BENJAMIN, US

[72] SMITH, PAUL SIMON, US

[71] POLYSKOPE LABS, US

[85] 2021-09-15

[86] 2020-03-13 (PCT/US2020/022831)

[87] (WO2020/190795)

[30] US (62/819,417) 2019-03-15

[21] **3,130,727**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01)**

[25] EN

[54] **A SALT AND CRYSTAL FORM OF A FAK INHIBITOR**

[54] **SEL ET FORME CRISTALLINE D'UN INHIBITEUR DE FAK**

[72] BURNS, CHRISTOPHER, AU

[72] LAMBERT, JOHN, AU

[71] AMPLIA THERAPEUTICS LIMITED, AU

[85] 2021-09-15

[86] 2020-03-27 (PCT/AU2020/050292)

[87] (WO2020/191448)

[30] AU (2019901050) 2019-03-28

[21] **3,130,732**
[13] A1

[51] **Int.Cl. H04L 27/26 (2006.01) H04W 72/04 (2009.01)**

[25] EN

[54] **USER TERMINAL AND WIRELESS COMMUNICATION METHOD**

[54] **TERMINAL UTILISATEUR ET PROCEDE DE COMMUNICATION SANS FIL**

[72] MATSUMURA, YUKI, JP

[72] NAGATA, SATOSHI, JP

[71] NTT DOCOMO, INC., JP

[85] 2021-08-18

[86] 2019-02-22 (PCT/JP2019/006882)

[87] (WO2020/170444)

[21] **3,130,734**
[13] A1

[51] **Int.Cl. H01M 8/0213 (2016.01) H01M 8/0221 (2016.01) H01M 8/0226 (2016.01) H01M 8/026 (2016.01) H01M 8/0271 (2016.01) H01M 8/10 (2016.01)**

[25] EN

[54] **FUEL CELL SEPARATOR**

[54] **SEPARATEUR DE PILE A COMBUSTIBLE**

[72] TANNO, FUMIO, JP

[71] NISSHINBO HOLDINGS INC., JP

[85] 2021-08-18

[86] 2020-01-28 (PCT/JP2020/002971)

[87] (WO2020/170733)

[30] JP (2019-029744) 2019-02-21

[21] **3,130,737**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) G06Q 10/08 (2012.01) G05B 19/418 (2006.01)**

[25] EN

[54] **PARTS STORAGE POSITION DETERMINATION APPARATUS, PARTS STORAGE POSITION DETERMINATION METHOD AND PARTS MANAGEMENT SYSTEM**

[54] **DISPOSITIF DE DETERMINATION DE POSITIONS DE STOCKAGE D'ELEMENTS, PROCEDEDE DETERMINATION DE POSITIONS D'ELEMENTS ET SYSTEME DE GESTION D'ELEMENTS**

[72] MATSUMOTO, MAIKO, JP

[72] YAMAKAMI, KENICHI, JP

[72] KITAJIMA, YUKI, JP

[72] SHIBATA, KAORU, JP

[72] HASHIGUCHI, SHUNSUKE, JP

[71] HONDA MOTOR CO., LTD., JP

[85] 2021-08-18

[86] 2020-02-12 (PCT/JP2020/005251)

[87] (WO2020/170898)

[30] JP (2019-029075) 2019-02-21

[21] **3,130,739**
[13] A1

[51] **Int.Cl. C07D 501/48 (2006.01) C07D 501/50 (2006.01) C07D 505/24 (2006.01)**

[25] EN

[54] **COMPOSITIONS PROVIDING ENHANCED ANTIBACTERIAL ACTIVITY AGAINST GRAM-POSITIVE BACTERIA AND USE THEREOF**

[54] **COMPOSITIONS FOURNISSANT UNE ACTIVITE ANTIBACTERIENNE AMELIOREE CONTRE DES BACTERIES A GRAM POSITIF ET LEUR UTILISATION**

[72] JUNG, DAVID, US

[72] ZENG, DAINA, US

[71] ANIFERA LIMITED, GB

[85] 2021-08-18

[86] 2020-02-19 (PCT/US2020/018724)

[87] (WO2020/172206)

[30] US (62/808,900) 2019-02-22

[21] **3,130,750**
[13] A1

[51] **Int.Cl. A61K 35/18 (2015.01) C12N 5/078 (2010.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ENGINEERED ERYTHROID CELLS INCLUDING LOADABLE ANTIGEN-PRESENTING POLYPEPTIDES AND METHODS OF USE**

[54] **CELLULES ERYTHROIDES MODIFIEES COMPRENANT DES POLYPEPTIDES DE PRESENTATION D'ANTIGENE CHARGEABLES ET PROCEDES D'UTILISATION**

[72] CHEN, TIFFANY FEN-YI, US

[72] WICKHAM, THOMAS JOSEPH, US

[72] MOORE, CHRISTOPHER LAWRENCE, US

[72] DASTAGIR, SHAMAEEL RABIA, US

[72] MCLAUGHLIN, DOUGLAS CHARLES, US

[72] SALVAT, REGINA SOPHIA, US

[72] NANNA, ALEX RICHARD, US

[71] RUBIUS THERAPEUTICS, INC., US

[85] 2021-08-18

[86] 2020-02-20 (PCT/US2020/019123)

[87] (WO2020/172472)

[30] US (62/808,253) 2019-02-20

[30] US (62/877,190) 2019-07-22

[30] US (62/926,222) 2019-10-25

[30] US (62/938,839) 2019-11-21

Demandes PCT entrant en phase nationale

[21] **3,130,752**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) C07K 14/705 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **CD80 EXTRACELLULAR DOMAIN FC FUSION PROTEINS FOR TREATING PD-L1 NEGATIVE TUMORS**

[54] **PROTEINES DE FUSION FC DU DOMAINE EXTRACELLULAIRE CD80 POUR LE TRAITEMENT DE TUMEURS NEGATIVES POUR PD-L1**

[72] BARBEE, SUSANNAH D., US
[72] BRENNAN, THOMAS, US
[72] SENNINO, BARBARA, US
[71] FIVE PRIME THERAPEUTICS, INC., US

[85] 2021-08-18
[86] 2020-02-21 (PCT/US2020/019135)
[87] (WO2020/172482)
[30] US (62/809,319) 2019-02-22
[30] US (62/815,249) 2019-03-07

[21] **3,130,754**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL MOLECULES THAT BIND TO T CELL RELATED CANCER CELLS AND USES THEREOF**

[54] **MOLECULES MULTIFONCTIONNELLES SE LIANT A DES CELLULES CANCEREUSES ASSOCIEES A DES LYMPHOCYTES T ET LEURS UTILISATIONS**

[72] LOEW, ANDREAS, US
[72] MALHOTRA, NIDHI, US
[72] KATRAGADDA, MADAN, US
[72] TAN, SENG-LAI, US
[72] HSU, JONATHAN, US
[72] VASH, BRIAN EDWARD, US
[72] MAIOCCO, STEPHANIE J., US
[72] MAREK, PETER, US
[72] GUNTAS, GURKAN, US
[71] MARENGO THERAPEUTICS, INC., US

[85] 2021-08-18
[86] 2020-02-21 (PCT/US2020/019291)
[87] (WO2020/172571)
[30] US (62/808,646) 2019-02-21

[21] **3,130,756**
[13] A1

[51] **Int.Cl. C08F 2/46 (2006.01) C08F 285/00 (2006.01) C08F 299/04 (2006.01)**

[25] EN

[54] **SAFE PARTICLES FOR THE INTRODUCTION OF USEFUL CHEMICAL AGENTS IN THE BODY WITH CONTROLLED ACTIVATION**

[54] **PARTICULES SURES POUR L'INTRODUCTION D'AGENTS CHIMIQUES UTILES DANS LE CORPS AVEC ACTIVATION CONTROLEE**

[72] HORNER, GLENN, US
[72] RAI, PRAKASH, US
[72] AGRAWAL, SATISH, US
[72] PARKER, BETHANY, US
[72] CHITTIGORI, JOSHNA, US
[71] BAMBU VAULT LLC, US

[85] 2021-08-18
[86] 2020-02-21 (PCT/US2020/019346)
[87] (WO2020/172616)
[30] US (62/808,724) 2019-02-21

[21] **3,130,758**
[13] A1

[51] **Int.Cl. B23K 20/12 (2006.01) B23K 20/00 (2006.01) B23K 37/02 (2006.01)**

[25] EN

[54] **AN IMPROVED AUTOMATED PORTABLE FRICTION WELDING SYSTEM AND METHOD OF OPERATION**

[54] **SYSTEME DE SOUDAGE PAR FRICTION PORTATIF AUTOMATISE AMELIORE ET PROCEDE DE FONCTIONNEMENT**

[72] FIX, JR., JOHN WILLIAM, US
[72] GRIFFIN, JOHN M., US
[72] FOLEY, THOMAS, US
[71] FUSEMATIC CORPORATION, US

[85] 2021-08-18
[86] 2020-02-24 (PCT/US2020/019483)
[87] (WO2020/176406)
[30] US (62/809,825) 2019-02-25

[21] **3,130,759**
[13] A1

[51] **Int.Cl. G01R 33/20 (2006.01) G01R 33/28 (2006.01) G01R 33/32 (2006.01) G01R 33/34 (2006.01) G01R 33/38 (2006.01) G01R 33/44 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PERFORMING MAGNETIC RESONANCE IMAGING**

[54] **SYSTEMES ET PROCEDES DE REALISATION D'UNE IMAGERIE PAR RESONANCE MAGNETIQUE**

[72] NACEV, ALEKSANDAR, US
[72] ALGARIN, JOSE, US
[72] MALIK, PULKIT, US
[72] DONG, HONGLI, US
[72] GOMES, MULLER, US
[72] PANDIAN, SABAREISH, US
[72] KUMAR, DINESH, US
[72] NOLTE, JOHN, US
[72] NARAYANAN, RAM, US
[71] PROMAXO, INC., US

[85] 2021-08-18
[86] 2020-02-24 (PCT/US2020/019530)
[87] (WO2020/172673)
[30] US (62/809,503) 2019-02-22
[30] US (62/823,521) 2019-03-25
[30] US (62/979,332) 2020-02-20

[21] **3,130,760**
[13] A1

[51] **Int.Cl. G06F 21/35 (2013.01) H04W 12/08 (2021.01) H04W 4/70 (2018.01) G07C 9/20 (2020.01)**

[25] EN

[54] **MULTIVENDOR SECURED ELECTRONIC ACCESS CONTROL PROCESSING**

[54] **TRAITEMENT DE COMMANDE D'ACCES ELECTRONIQUE SECURISE A PLUSIEURS VENDEURS**

[72] TRAPANI, MATTHEW FRANK, US
[71] SECURITY ENHANCEMENT SYSTEMS, LLC, US

[85] 2021-08-18
[86] 2020-02-24 (PCT/US2020/019531)
[87] (WO2020/172674)
[30] US (62/809,085) 2019-02-22

PCT Applications Entering the National Phase

[21] **3,130,761**
[13] A1

[51] **Int.Cl. A61K 31/235 (2006.01) A61K 9/00 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS INCLUDING CINNAMIC ACID AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS COMPRENANT DE L'ACIDE CINNAMIQUE ET LEURS PROCEDES D'UTILISATION**
[72] PAHAN, KALIPADA, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2021-08-18
[86] 2020-02-25 (PCT/US2020/019568)
[87] (WO2020/176432)
[30] US (62/810,055) 2019-02-25

[21] **3,130,765**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING PROTEINS THAT BIND BCMA**
[54] **PROTEINES DE LIAISON A L'ANTIGENE SE LIANT A BCMA**
[72] ZHOU, HEYUE, US
[72] CAO, XIA, US
[71] SORRENTO THERAPEUTICS, INC., US
[85] 2021-08-18
[86] 2020-02-25 (PCT/US2020/019763)
[87] (WO2020/176549)
[30] US (62/810,771) 2019-02-26
[30] US (62/811,431) 2019-02-27

[21] **3,130,770**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **AZEPINO-INDOLES AND OTHER HETEROCYCLES FOR TREATING BRAIN DISORDERS**
[54] **AZEPINO-INDOLES ET AUTRES HETEROCYCLES POUR TRAITER DES TROUBLES DU CERVEAU**
[72] OLSON, DAVID E., US
[72] WAGNER, FLORENCE F., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-08-18
[86] 2020-02-26 (PCT/US2020/019858)
[87] (WO2020/176599)
[30] US (62/811,208) 2019-02-27

[21] **3,130,763**
[13] A1

[51] **Int.Cl. C12N 15/52 (2006.01) C12N 1/19 (2006.01) C12N 9/00 (2006.01) C12N 15/81 (2006.01) C12P 7/02 (2006.01)**
[25] EN
[54] **BIOSYNTHESIS OF CANNABINOIDS AND CANNABINOID PRECURSORS**
[54] **BIOSYNTHESE DE CANNABINOIDES ET DE PRECURSEURS CANNABINOIDES**
[72] ANDERSON, KIM CECELIA, US
[72] BREVNOVA, ELENA, US
[72] CARLIN, DYLAN ALEXANDER, US
[72] CARVALHO, BRIAN, US
[72] FLORES, NICHOLAS, US
[72] FORREST, KATRINA, US
[72] MCMAHON, MATT, US
[72] MERIGHI, MASSIMO, US
[72] RODRIGUEZ, GABRIEL, US
[72] WRENBECK, EMILY E., US
[71] GINKGO BIOWORKS, INC., US
[85] 2021-08-18
[86] 2020-02-25 (PCT/US2020/019760)
[87] (WO2020/176547)
[30] US (62/810,367) 2019-02-25
[30] US (62/810,938) 2019-02-26

[21] **3,130,767**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61K 31/4155 (2006.01) A61K 31/4439 (2006.01)**
[25] EN
[54] **N-SUBSTITUTED INDOLES AND OTHER HETEROCYCLES FOR TREATING BRAIN DISORDERS**
[54] **INDOLES N-SUBSTITUES ET AUTRES HETEROCYCLES DESTINES AU TRAITEMENT DES TROUBLES DU CERVEAU**
[72] OLSON, DAVID E., US
[72] DUNLAP, LEE, US
[72] WAGNER, FLORENCE F., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-08-18
[86] 2020-02-26 (PCT/US2020/019856)
[87] (WO2020/176597)
[30] US (62/811,206) 2019-02-27
[30] US (62/958,220) 2020-01-07

[21] **3,130,772**
[13] A1

[51] **Int.Cl. A01G 31/06 (2006.01) A01G 9/00 (2018.01)**
[25] EN
[54] **CUSTOMIZABLE SLIDABLE SHELVING AND SUPPORT SYSTEM FOR HORTICULTURE APPLICATIONS**
[54] **RAYONNAGE COULISSANT PERSONNALISABLE ET SYSTEME DE SUPPORT POUR APPLICATIONS HORTICOLES**
[72] SIPLES, DARIN, US
[72] SCHWARTZ, TRAVIS, US
[71] GROW GLIDE INC., US
[85] 2021-08-18
[86] 2020-02-26 (PCT/US2020/019893)
[87] (WO2020/176615)
[30] US (62/810,589) 2019-02-26

Demandes PCT entrant en phase nationale

[21] **3,130,773**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01)**
[25] EN
[54] **FGFR TYROSINE KINASE INHIBITORS FOR THE TREATMENT OF UROTHELIAL CARCINOMA**
[54] **INHIBITEURS DE LA TYROSINE KINASE FGFR POUR LE TRAITEMENT DU CARCINOME UROTHELIAL**
[72] DE PORRE, PETER MARIE Z., BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-09-16
[86] 2020-03-27 (PCT/EP2020/058814)
[87] (WO2020/201138)
[30] EP (19166429.1) 2019-03-29
[30] US (62/833395) 2019-04-12

[21] **3,130,775**
[13] A1

[51] **Int.Cl. A61F 2/07 (2013.01) A61F 2/852 (2013.01)**
[25] EN
[54] **MODULAR BRANCHED ENDOPROSTHETIC SYSTEMS, DEVICES, AND METHODS**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES ENDOPROTHETIQUES RAMIFIES MODULAIRES**
[72] KORTE, FREDERICK S., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2021-08-18
[86] 2020-02-26 (PCT/US2020/019916)
[87] (WO2020/176631)
[30] US (62/810,736) 2019-02-26

[21] **3,130,777**
[13] A1

[51] **Int.Cl. A43B 11/00 (2006.01) A43B 3/12 (2006.01) A43B 21/24 (2006.01) A43B 23/08 (2006.01) A43C 11/00 (2006.01)**
[25] EN
[54] **RAPID-ENTRY FOOTWEAR HAVING A HEEL ARM AND A RESILIENT MEMBER**
[54] **CHAUSSURE A ENTREE RAPIDE AYANT UN BRAS DE TALON ET UN ELEMENT ELASTIQUE**
[72] CHENEY, CRAIG, US
[72] EDDINGTON, JOSEPH, US
[71] FAST IP, LLC, US
[85] 2021-08-18
[86] 2020-02-26 (PCT/US2020/019943)
[87] (WO2020/176653)
[30] US (62/810,828) 2019-02-26

[21] **3,130,781**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/145 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **MULTIVALENT LIVE-ATTENUATED INFLUENZA VACCINE FOR PREVENTION AND CONTROL OF EQUINE INFLUENZA VIRUS (EIV) IN HORSES**
[54] **VACCIN MULTIVALENT A VIRUS VIVANTS ATTENUES CONTRE LA GRIPPE POUR LA PREVENTION ET LE CONTROLE DU VIRUS DE LA GRIPPE EQUINE (EIV) CHEZ LES CHEVAUX**
[72] MARTINEZ-SOBRIDO, LUIS, US
[72] CHAMBERS, THOMAS, US
[72] KING, KENDALL WAYNE, US
[71] UNIVERSITY OF ROCHESTER, US
[71] UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, US
[71] ZOETIS SERVICES LLC, US
[85] 2021-08-18
[86] 2020-02-27 (PCT/US2020/020050)
[87] (WO2020/176709)
[30] US (62/811,112) 2019-02-27

[21] **3,130,787**
[13] A1

[51] **Int.Cl. G02B 7/04 (2021.01) G02B 1/16 (2015.01) F41G 1/32 (2006.01) G02B 1/04 (2006.01) G02B 13/16 (2006.01) G02B 23/12 (2006.01)**
[25] EN
[54] **NIGHT VISION EYEPIECE**
[54] **OCCULAIRE DE VISION NOCTURNE**
[72] THOMAS, NILS, US
[71] MARANON, INC., US
[85] 2021-08-18
[86] 2020-02-27 (PCT/US2020/020129)
[87] (WO2020/180610)
[30] US (62/811,019) 2019-02-27

[21] **3,130,790**
[13] A1

[25] EN
[54] **FLOOR PANEL FOR FORMING A FLOOR COVERING**
[54] **PANNEAU DE SOL POUR LA FORMATION D'UN REVETEMENT DE SOL**
[72] CLAERHOUT, MATTHIAS, BE
[72] CAPPELLE, MARK, BE
[72] ROLLIER, BRYAN, BE
[72] NAEYAERT, CHRISTOPHE, BE
[71] FLOORING INDUSTRIES LIMITED, SARL, LU
[85] 2021-09-16
[86] 2020-05-15 (PCT/IB2020/054609)
[87] (WO2020/234711)
[30] BE (2019/5336) 2019-05-22

[21] **3,130,791**
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01) G03B 21/585 (2014.01) A63G 31/02 (2006.01)**
[25] EN
[54] **ACTUATABLE SURFACE TECHNIQUES**
[54] **TECHNIQUES DE SURFACE ACTIONNABLES**
[72] HIXSON, JOHN, US
[72] TRESAUGUE, MICHAEL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-08-18
[86] 2020-02-27 (PCT/US2020/020223)
[87] (WO2020/180629)
[30] US (62/815,211) 2019-03-07
[30] US (16/748,534) 2020-01-21

PCT Applications Entering the National Phase

[21] **3,130,798**
[13] A1

[51] **Int.Cl. H02J 50/20 (2016.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A WIRELESSLY POWERED INTERACTIVE GUEST DEVICE**
[54] **SYSTEMES ET PROCEDES POUR UN DISPOSITIF INVITE INTERACTIF ALIMENTE SANS FIL**
[72] YEH, WEI CHENG, US
[72] COSSAIRT, TRAVIS JON, US
[72] KRAUTHAMER, AKIVA MEIR, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-08-18
[86] 2020-02-27 (PCT/US2020/020233)
[87] (WO2020/180631)
[30] US (62/815,190) 2019-03-07
[30] US (16/735,397) 2020-01-06

[21] **3,130,801**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 39/00 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **LILRB4-BINDING ANTIBODY AND METHODS OF USE THEREOF**
[54] **ANTICORPS SE LIANT A LILRB4 ET SES METHODES D'UTILISATION**
[72] SHARMA, NAVEEN, US
[72] ALLISON, JAMES P., US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2021-08-18
[86] 2020-03-02 (PCT/US2020/020651)
[87] (WO2020/180789)
[30] US (62/812,700) 2019-03-01

[21] **3,130,805**
[13] A1

[51] **Int.Cl. C12N 15/13 (2006.01) A61K 39/395 (2006.01) A61P 33/06 (2006.01) C07K 16/20 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **ANTIBODIES BINDING TO PLASMODIUM CIRCUMSPOROZOITE PROTEIN AND USES THEREOF**
[54] **ANTICORPS SE LIANT A LA PROTEINE CIRCUMSPOROZOITE DE PLASMODIUM ET LEURS UTILISATIONS**
[72] CORTI, DAVIDE, CH
[72] PICCOLI, LUCA, CH
[72] FINK, KATJA, CH
[72] CAMERONI, ELISABETTA, CH
[71] HUMABS BIOMED SA, CH
[71] VIR BIOTECHNOLOGY, INC., US
[85] 2021-08-19
[86] 2020-04-30 (PCT/EP2020/062167)
[87] (WO2020/221910)
[30] EP (PCT/EP2019/061135) 2019-04-30

[21] **3,130,806**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/158 (2006.01)**
[25] EN
[54] **INTEGRATED INSERTER/APPLICATOR FOR A DRUG DELIVERY SYSTEM PROVIDING MULTIPLE WEAR CONFIGURATIONS**
[54] **DISPOSITIF D'INTRODUCTION/APPLICATEUR INTEGRE POUR UN SYSTEME D'ADMINISTRATION DE MEDICAMENT FOURNISSANT DE MULTIPLES CONFIGURATIONS DE PORT**
[72] BRUEHWILER, MICHEL GILBERT, US
[72] BUTLER, EILEEN MEI, US
[72] CARTER, MARY TERESA, US
[72] HARTMANN, DANIEL MORRIS, US
[72] ROBERTS, ARIEL MARIE, US
[71] ELI LILLY AND COMPANY, US
[85] 2021-09-16
[86] 2020-03-20 (PCT/US2020/023825)
[87] (WO2020/197994)
[30] US (62/822,318) 2019-03-22

[21] **3,130,807**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 5/20 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ANTI-PD-L1 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-PD-L1 ET SON UTILISATION**
[72] YANG, YI, CN
[72] XIE, JINGSHU, CN
[72] DONG, CHUNYAN, CN
[72] YANG, FANG, CN
[72] LU, CHENGYUAN, CN
[72] SHEN, YUELEI, CN
[72] NI, JIAN, CN
[72] GUO, YA'NAN, CN
[72] CHEN, YUNYUN, CN
[71] EUCURE (BEIJING) BIOPHARMA CO., LTD, CN
[85] 2021-08-19
[86] 2020-02-20 (PCT/CN2020/075983)
[87] (WO2020/169062)
[30] CN (PCT/CN2019/075654) 2019-02-21

[21] **3,130,808**
[13] A1

[51] **Int.Cl. A61K 31/23 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **METHODS USING MEDIUM CHAIN TRIGLYCERIDES ADMINISTERED PRIOR TO A MEAL TO DECREASE POSTPRANDIAL GLUCOSE FROM THE MEAL**
[54] **PROCEDES UTILISANT DES TRIGLYCERIDES A CHAINE MOYENNE ADMINISTRES AVANT UN REPAS POUR REDUIRE LE GLUCOSE POSTPRANDIAL A LA SUITE DU REPAS**
[72] CUENOUD, BERNARD, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-08-20
[86] 2020-03-20 (PCT/EP2020/057716)
[87] (WO2020/193385)
[30] US (62/822,271) 2019-03-22

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[13] A1

[51] **Int.Cl. A61K 31/4166 (2006.01) A61K 31/167 (2006.01) A61K 31/216 (2006.01) A61K 31/277 (2006.01) A61K 31/4155 (2006.01) A61K 31/4188 (2006.01) A61K 31/4192 (2006.01) A61K 31/4439 (2006.01) A61K 31/496 (2006.01) A61K 31/57 (2006.01) A61K 31/58 (2006.01) A61K 31/7088 (2006.01) A61K 45/06 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01)**

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[54] **COMBINATION OF AR ANTAGONISTS AND TARGETED THORIUM CONJUGATES**

[54] **COMBINAISON D'ANTAGONISTES DE L'AR ET DE CONJUGUES DE THORIUM CIBLES**

[72] HAMMER, STEFANIE, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[71] BAYER AS, NO

[85] 2021-08-19

[86] 2020-02-17 (PCT/EP2020/054113)

[87] (WO2020/169538)

[30] EP (19158777.3) 2019-02-22

[21] **3,130,813**
[13] A1

[51] **Int.Cl. A22C 13/00 (2006.01)**

[25] EN

[54] **EDIBLE FILM**

[54] **FILM COMESTIBLE**

[72] CHRISTOPHIS, CHRISTOF, DE

[72] MENGER, HANS-JOERG, DE

[72] ETAYO, VICENTE, ES

[72] RECALDE, JOSE IGNACIO, ES

[71] VISCOFAN, S.A., ES

[85] 2021-08-20

[86] 2020-04-21 (PCT/EP2020/061076)

[87] (WO2020/221622)

[30] EP (19171898.0) 2019-04-30

[21] **3,130,816**
[13] A1

[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/74 (2015.01)**

[25] EN

[54] **LONG-TERM STABLE LIVE FECAL MICROBIOTA COMPOSITION**

[54] **COMPOSITION DE MICROBIOTE FECAL VIVANT STABLE A LONG TERME**

[72] SUNE NEGRE, JOSEP M., ES

[72] SORIANO VILADOMIU, ALEX, ES

[72] AIRA GOMEZ, ANDREA, ES

[72] FEHER, CSABA, ES

[71] INSTITUT D'INVESTIGACIONS BIOMEDIQUES AUGUST PI I SUNYER (IDIBAPS), EE

[71] FUNDACIO CLINIC PER A LA RECERCA BIOMEDICA, ES

[71] HOSPITAL CLINIC DE BARCELONA, ES

[71] UNIVERSITAT DE BARCELONA, ES

[85] 2021-09-16

[86] 2020-04-14 (PCT/EP2020/060370)

[87] (WO2020/212297)

[30] EP (19382287.1) 2019-04-15

[21] **3,130,817**
[13] A1

[51] **Int.Cl. A61K 38/57 (2006.01) A61P 27/02 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **METHOD FOR THE TREATMENT OF A DISEASE USING PIGMENT OF A DISEASE USING PIGMENT EPITHELIUM-DERIVED FACTOR (PEDF)**

[54] **PROCEDE DE TRAITEMENT D'UNE MALADIE AU MOYEN D'UN FACTEUR DERIVE DE L'EPITHELIUM PIGMENTAIRE (PEDF)**

[72] SCHRAERMAYER, ULRICH, DE

[71] CUREBIOTEC GMBH, DE

[85] 2021-08-20

[86] 2020-03-04 (PCT/EP2020/055757)

[87] (WO2020/178360)

[30] EP (19000111.5) 2019-03-04

[21] **3,130,820**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) C07K 19/00 (2006.01)**

[25] EN

[54] **CELL MEMBRANE PENETRATING CONJUGATES FOR GENE EDITING**

[54] **CONJUGUES PENETRANT LA MEMBRANE CELLULAIRE POUR EDITION DE GENE**

[72] SANGHAMITRA, NUSRAT, IE

[71] CYCA ONCOSOLUTIONS LIMITED, IE

[85] 2021-08-20

[86] 2020-02-27 (PCT/EP2020/055201)

[87] (WO2020/174070)

[30] GB (1902648.3) 2019-02-27

[21] **3,130,822**
[13] A1

[51] **Int.Cl. F03B 13/06 (2006.01) F04B 35/00 (2006.01)**

[25] EN

[54] **PUMPED-STORAGE POWER PLANT, METHOD FOR OPERATING A PUMPED-STORAGE POWER PLANT, AND PUMPED-STORAGE SYSTEM**

[54] **CENTRALE DE POMPAGE-TURBINAGE, PROCEDE POUR FAIRE FONCTIONNER UNE CENTRALE DE POMPAGE-TURBINAGE ET SYSTEME DE POMPAGE-TURBINAGE**

[72] KRACK, ROBIN, DE

[72] GARTNER, UDO, DE

[71] KRACK, ROBIN, DE

[71] GARTNER, UDO, DE

[85] 2021-08-19

[86] 2020-02-20 (PCT/EP2020/054460)

[87] (WO2020/169720)

[30] DE (10 2019 104 306.9) 2019-02-20

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[21] **3,130,823**
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) A61J 1/14 (2006.01) A61M 15/08 (2006.01) G09B 23/28 (2006.01) C07K 14/605 (2006.01)**

[25] EN
[54] **MEDICATION DELIVERY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ADMINISTRATION DE MEDICAMENT**

[72] ARNETT, JAIME RAY, US
[72] SNOW, ANDREW THOMAS, US
[71] ELI LILLY AND COMPANY, US
[85] 2021-09-16
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[30] US (62/826,093) 2019-03-29

[21] **3,130,826**
[13] A1

[51] **Int.Cl. A61K 8/9789 (2017.01) A61K 36/185 (2006.01) A61P 17/04 (2006.01) A61Q 19/00 (2006.01)**

[25] EN
[54] **SEED EXTRACT OF ANNONA CHERIMOLA**
[54] **EXTRAIT DE GRAINES D'ANNONA CHERIMOLA**

[72] JOHN, SABRINA, DE
[72] STEINMULLER, ANNE, DE
[72] PRADE, HEIKO, DE
[71] CLR CHEMISCHES LABORATORIUM DR. KURT RICHTER GMBH, DE
[85] 2021-08-20
[86] 2020-02-27 (PCT/EP2020/055198)
[87] (WO2020/178147)
[30] EP (19160417.2) 2019-03-01

[21] **3,130,829**
[13] A1

[51] **Int.Cl. A01M 29/12 (2011.01) A01N 65/08 (2009.01) A01N 65/42 (2009.01) A01N 25/00 (2006.01) A01P 17/00 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR REPELLING BIRDS IN CROP PLANTS**
[54] **PROCEDES ET COMPOSITIONS POUR REPOUSSER LES OISEAUX DES PLANTES CULTIVEES**

[72] BARTLETT, MARK, FR
[72] BONNISSOL, STEPHANE, FR
[72] DE VERGNES, BERNARD, FR
[72] HAHNE, JOERG, DE
[72] SOUBIEUX, LAURENCE, FR
[72] DIETENBECK, JOEL, FR
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2021-08-19
[86] 2020-02-20 (PCT/EP2020/054531)
[87] (WO2020/169761)
[30] EP (19158912.6) 2019-02-22

[21] **3,130,831**
[13] A1

[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/24 (2011.01) H04N 21/2662 (2011.01) H04N 21/442 (2011.01) H04N 21/81 (2011.01) H04N 21/854 (2011.01)**

[25] EN
[54] **DYNAMICALLY ADJUSTABLE FRAME RATE FROM MEDICAL DEVICE CONTROLLER**
[54] **DISPOSITIF DE COMMANDE DE DISPOSITIF MEDICAL A REGLAGE DYNAMIQUE DE CADENCE D'IMAGE**

[72] AGNELLO, ALESSANDRO SIMONE, US
[72] MEDINA, VICTOR, US
[72] LUSSIER, ROBERT, US
[72] LEMAY, PAUL ROLAND, US
[71] ABIOMED, INC., US
[85] 2021-09-16
[86] 2020-03-25 (PCT/US2020/024571)
[87] (WO2020/198280)
[30] US (16/365,293) 2019-03-26

[21] **3,130,832**
[13] A1

[51] **Int.Cl. C04B 7/52 (2006.01) B02C 23/12 (2006.01) B02C 23/38 (2006.01)**

[25] FR
[54] **METHOD FOR GRINDING A HYDRAULIC BINDER**
[54] **PROCEDE DE BROYAGE DE LIANT HYDRAULIQUE**

[72] OYTUN YAZAN, HUSEYIN, FR
[72] GUILLOT, LAURENT, FR
[72] BOUSTINGORRY, PASCAL, FR
[71] CHRYSO, FR
[85] 2021-08-20
[86] 2020-02-25 (PCT/EP2020/054878)
[87] (WO2020/173927)
[30] FR (1901879) 2019-02-25

[21] **3,130,833**
[13] A1

[51] **Int.Cl. G05B 11/06 (2006.01) B01D 15/10 (2006.01) B01D 15/16 (2006.01) G01N 30/02 (2006.01) G01N 30/32 (2006.01) G05B 11/32 (2006.01)**

[25] EN
[54] **AUTOMATED SIMULTANEOUS PROCESS CONTROL**
[54] **COMMANDE DE PROCESSUS SIMULTANEE AUTOMATISEE**

[72] SCHWAN, PETER, DE
[72] BRANDT, HEIKO, DE
[72] LOBEDANN, MARTIN, DE
[72] BORCHERT, SVEN-OLIVER, DE
[72] WEBER, NILS, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[85] 2021-08-20
[86] 2020-02-19 (PCT/EP2020/054282)
[87] (WO2020/173763)
[30] EP (19159005.8) 2019-02-25

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[21] **3,130,836**
[13] A1

[51] **Int.Cl. B81B 7/00 (2006.01) B81C 1/00 (2006.01) H01H 1/00 (2006.01)**
[25] EN
[54] **FULL SYMMETRIC MULTI-THROW SWITCH USING CONFORMAL PINCHED THROUGH VIA**
[54] **INTERRUPTEUR MULTIPOSITIONS PARFAITEMENT SYMETRIQUES UTILISANT UN TROU D'INTERCONNEXION CONFORME A STRICTION**
[72] ZHU, XU, US
[72] EVANS, DARRYL, US
[72] KEIMEL, CHRIS, US
[71] MENLO MICROSYSTEMS, INC., US
[85] 2021-08-20
[86] 2019-02-22 (PCT/US2019/019160)
[87] (WO2020/171821)

[21] **3,130,837**
[13] A1

[51] **Int.Cl. A47K 3/06 (2006.01) A47K 3/162 (2006.01) A47K 3/17 (2006.01)**
[25] EN
[54] **FOLDABLE BATH TUB**
[54] **BAIGNOIRE PLIANTE**
[72] HANSON, THOMAS CHIA, US
[72] MUTCH, MARTIN, US
[72] STEENWYK, ELIZABETH KATE, US
[72] KIM, SUNNY, US
[71] HELEN OF TROY LIMITED, BB
[85] 2021-08-20
[86] 2019-05-22 (PCT/US2019/033525)
[87] (WO2020/209878)
[30] US (62/831,878) 2019-04-10

[21] **3,130,838**
[13] A1

[51] **Int.Cl. A62C 37/00 (2006.01)**
[25] EN
[54] **AUTOMATED WILDFIRE PREVENTION AND PROTECTION SYSTEM FOR DWELLINGS, BUILDINGS, STRUCTURES AND PROPERTY**
[54] **SYSTEME AUTOMATISE DE PREVENTION ET DE PROTECTION EN CAS DE FEU INCONTROLE POUR HABITATIONS, BATIMENTS, STRUCTURES ET PROPRIETES**
[72] STATTER, HARRY ABRAHAM, US
[71] HAS LLC, US
[71] STATTER, HARRY ABRAHAM, US
[85] 2021-08-20
[86] 2020-02-19 (PCT/US2020/018861)
[87] (WO2020/176309)
[30] US (16/289,135) 2019-02-28

[21] **3,130,839**
[13] A1

[51] **Int.Cl. G01J 3/12 (2006.01) G01J 3/32 (2006.01) G01N 21/84 (2006.01) G01N 21/88 (2006.01) G01N 21/95 (2006.01) G06T 7/40 (2017.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR INSPECTION OF A FILM ON A SUBSTRATE**
[54] **APPAREIL ET PROCEDE D'INSPECTION D'UN FILM SUR UN SUBSTRAT**
[72] HAVENER, AARON C., US
[72] JOGERST, JAMES D., US
[72] MOHR, THOMAS C., US
[72] RIDER, KEITH B., US
[71] BWXT NOG TECHNOLOGIES, INC., US
[71] BWXT NUCLEAR OPERATIONS GROUP, INC., US
[71] HAVENER, AARON C., US
[85] 2021-08-20
[86] 2020-02-20 (PCT/US2020/019036)
[87] (WO2020/176329)
[30] US (16/286,370) 2019-02-26

[21] **3,130,840**
[13] A1

[51] **Int.Cl. A01N 25/06 (2006.01) A01N 25/10 (2006.01) A01N 25/30 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **ALKALINE DISINFECTING COMPOSITIONS**
[54] **COMPOSITIONS DESINFECTANTES ALCALINES**
[72] GARNER, DEWAIN KEITH, US
[72] MACNAUGHTAN, MARISA L., US
[72] BINGHAM, JAMES EDMUND, US
[71] GOJO INDUSTRIES, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019145)
[87] (WO2020/172488)
[30] US (62/808,484) 2019-02-21

[21] **3,130,842**
[13] A1

[25] EN
[54] **AIRCRAFT TURBOMACHINE BLADE AND METHOD FOR MANUFACTURING SAME USING LOST-WAX CASTING**
[54] **AUBE DE TURBOMACHINE D'AERONEF ET SON PROCEDE DE FABRICATION PAR MOULAGE A CIRE PERDUE**
[72] SLUSARZ, MICHEL, FR
[72] AUZILLON, PIERRE GUILLAUME, FR
[72] ENEAU, PATRICE, FR
[72] OSTINO, LEANDRE, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-09-16
[86] 2020-03-11 (PCT/FR2020/050496)
[87] (WO2020/193899)
[30] FR (1903021) 2019-03-22

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[21] **3,130,846**
[13] A1

[51] **Int.Cl. B01J 29/70 (2006.01) B01J 35/00 (2006.01) B01J 35/10 (2006.01) C01B 39/02 (2006.01) C01B 39/48 (2006.01) C10G 11/05 (2006.01) C10G 35/095 (2006.01)**

[25] EN

[54] **MESOPOROUS CATALYST COMPOUNDS AND USES THEREOF**

[54] **COMPOSES DE CATALYSEUR MICROPOREUX ET LEURS UTILISATIONS**

[72] BEUTEL, TILMAN W., US
[72] MAJANO SANCHEZ GERADO J., US
[72] WEISSMAN, WALTER, US
[72] WEISS, BRIAN M., US
[72] GUPTA, HIMANSHU, US
[72] BRODY, JOHN F., US
[72] WEIGEL, SCOTT J., US
[71] EXXONMOBILE RESEARCH AND ENGINEERING COMPANY, US

[85] 2021-08-20
[86] 2020-01-22 (PCT/US2020/014539)
[87] (WO2020/190367)
[30] US (62/819,815) 2019-03-18

[21] **3,130,847**
[13] A1

[51] **Int.Cl. B06B 1/06 (2006.01) G08C 23/02 (2006.01) G10K 9/122 (2006.01) G10K 9/125 (2006.01) G10K 9/18 (2006.01) H03H 9/13 (2006.01) H03H 9/17 (2006.01)**

[25] EN

[54] **HIGH DENSITY MULTI-POLED THIN FILM PIEZOELECTRIC DEVICES AND METHODS OF MAKING THE SAME**

[54] **DISPOSITIFS PIEZOELECTRIQUES A FILM MINCE MULTIPLES A HAUTE DENSITE ET LEURS PROCEDES DE FABRICATION**

[72] BIRCUMSHAW, BRIAN, US
[72] AKKARAJU, SANDEEP, US
[71] EXO IMAGING, INC., US

[85] 2021-08-20
[86] 2020-02-27 (PCT/US2020/020163)
[87] (WO2020/176766)
[30] US (62/811,960) 2019-02-28

[21] **3,130,848**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **SOLID FORMS OF CONDENSED PYRAZINES AS SYK INHIBITORS**

[54] **FORMES SOLIDES DE PYRAZINES CONDENSEES EN TANT QU'INHIBITEUR DE SYK**

[72] ANDRES, PATRICIA, US
[72] FUNG, PETER C., US
[72] GIGUERE, PIERRE, US
[72] LAI, CHIAJEN, US
[72] STEWART, CRAIG, US
[72] TENG, JING, US
[72] TRAN, DUONG D., US
[72] TRANTCHEVA, IVA, US
[72] YARMUCH, BRIAN, US
[71] KRONOS BIO, INC., US

[85] 2021-08-20
[86] 2020-02-20 (PCT/US2020/019071)
[87] (WO2020/172431)
[30] US (62/809,337) 2019-02-22

[21] **3,130,849**
[13] A1

[51] **Int.Cl. C07D 311/76 (2006.01) A61K 31/352 (2006.01) A61P 25/00 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **SALTS OF A ISOCHROMANYL COMPOUND AND CRYSTALLINE FORMS, PROCESSES FOR PREPARING, THERAPEUTIC USES, AND PHARMACEUTICAL COMPOSITIONS THEREOF**

[54] **SELS D'UN COMPOSE D'ISOCHROMANYLE ET FORMES CRISTALLINES, PROCEDES DE PREPARATION, UTILISATIONS THERAPEUTIQUES ET COMPOSITIONS PHARMACEUTIQUES ASSOCIEES**

[72] BHOGLE, NANDKUMAR NIVRITTI, US
[72] HASHIZUKA, TAKAHIKO, JP
[72] PRYTKO, ROBERT JOSEPH, US
[72] SNOONIAN, JOHN R., US
[72] WILKINSON, HAROLD SCOTT, US
[72] ZHANG, HAITAO, US
[71] SUNOVION PHARMACEUTICALS INC., US

[85] 2021-08-27
[86] 2020-03-13 (PCT/US2020/022642)
[87] (WO2020/186165)
[30] US (62/818,256) 2019-03-14

[21] **3,130,850**
[13] A1

[51] **Int.Cl. G16B 40/20 (2019.01) G16B 20/30 (2019.01)**

[25] EN

[54] **METHOD FOR DETERMINING RESPONSIVENESS TO AN EPITOPE**

[54] **PROCEDE POUR DETERMINER LA REACTIVITE A UN EPITOPE**

[72] MEYSMAN, PIETER, BE
[72] LAUKENS, KRIS, BE
[72] OGUNJIMI, BENSON, BE
[71] UNIVERSITEIT ANTWERPEN, BE
[71] UNIVERSITAIR ZIEKENHUIS ANTWERPEN, BE

[85] 2021-08-19
[86] 2020-02-28 (PCT/EP2020/055224)
[87] (WO2020/174077)
[30] EP (19159931.5) 2019-02-28

[21] **3,130,851**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSING SYSTEM WITH REMOTE MICRO-INGREDIENT STORAGE SYSTEMS**

[54] **SYSTEME DE DISTRIBUTION DE BOISSON AVEC SYSTEMES DE STOCKAGE DE MICRO-INGREDIENT A DISTANCE**

[72] WELCH, DICK P., US
[72] JOHNSON, BRIAN B., US
[71] THE COCA-COLA COMPANY, US

[85] 2021-08-20
[86] 2020-02-19 (PCT/US2020/018757)
[87] (WO2020/172227)
[30] US (62/808,367) 2019-02-21

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[21] **3,130,852**
[13] A1

[51] **Int.Cl. A01C 21/00 (2006.01) A01C 15/00 (2006.01) A01C 23/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR DETERMINING AN AMOUNT OF NITROGEN-STABILIZING ADDITIVE**

[54] **PROCEDE ET APPAREIL DE DETERMINATION DE QUANTITE D'ADDITIF STABILISANT L'AZOTE**

[72] ZERULLA, WOLFRAM, DE

[72] SCHMID, MARKUS, DE

[72] PASDA, GREGOR, DE

[72] WISSEMEIER, ALEXANDER, DE

[71] BASF SE, DE

[85] 2021-08-13

[86] 2020-02-13 (PCT/IB2020/051179)

[87] (WO2020/165818)

[30] EP (19157267.6) 2019-02-14

[21] **3,130,853**
[13] A1

[51] **Int.Cl. A47C 1/024 (2006.01) A47C 20/08 (2006.01)**

[25] EN

[54] **MOTORIZED FURNITURE CONTROL SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE COMMANDE DE MEUBLE MOTORISEE**

[72] WOMACK, ROBERT B., US

[72] BEILFUSS, ROBERT C., US

[72] BAKER, JASON M., US

[71] LA-Z-BOY INCORPORATED, US

[85] 2021-09-16

[86] 2020-04-01 (PCT/US2020/026178)

[87] (WO2020/205973)

[30] US (62/827,774) 2019-04-01

[30] US (16/836,884) 2020-03-31

[21] **3,130,854**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7125 (2006.01)**

[25] EN

[54] **FRAGILE X MENTAL RETARDATION PROTEIN INTERFERING OLIGONUCLEOTIDES AND METHODS OF USING SAME**

[54] **OLIGONUCLEOTIDES INTERFERANT AVEC LA PROTEINE FMRP ET PROCEDES D'UTILISATION DE CEUX-CI**

[72] VITI, FRANCESCA, CH

[72] BELLIN VIA, SALVATORE, CH

[71] NOGRA PHARMA LIMITED, IE

[85] 2021-08-19

[86] 2020-02-26 (PCT/EP2020/055071)

[87] (WO2020/174023)

[30] US (62/810,697) 2019-02-26

[21] **3,130,855**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01)**

[25] EN

[54] **PURIFICATION PROCESS FOR BIOLOGICAL MOLECULES SUCH AS PLASMID DNA USING ANIONIC EXCHANGE CHROMATOGRAPHY**

[54] **PROCEDE DE PURIFICATION DE MOLECULES BIOLOGIQUES TELLES QUE L'ADN PLASMIDIQUE A L'AIDE D'UNE CHROMATOGRAPHIE PAR ECHANGE ANIONIQUE**

[72] ZURBRIGGEN, ANDREAS, CH

[72] COSANDEY, LUDOVIC, CH

[72] BALMER, YVES, CH

[71] LONZA LTD, CH

[85] 2021-08-19

[86] 2020-02-28 (PCT/EP2020/055285)

[87] (WO2020/174085)

[30] EP (19160132.7) 2019-02-28

[21] **3,130,857**
[13] A1

[51] **Int.Cl. C08L 67/04 (2006.01)**

[25] EN

[54] **MULTICOMPONENT THERMOPLASTIC PRODUCT**

[54] **PRODUIT THERMOPLASTIQUE A COMPOSANTS MULTIPLES**

[72] GUILLAMOT, FREDERIQUE, FR

[72] ALOUI DALIBEY, MADIHA, FR

[71] PK MED, FR

[85] 2021-09-16

[86] 2020-03-27 (PCT/EP2020/058827)

[87] (WO2020/193779)

[30] EP (19305397.2) 2019-03-28

[21] **3,130,858**
[13] A1

[25] EN

[54] **OLIVE OIL-BASED SOLID VEGETABLE FAT PRODUCT**

[54] **PRODUIT GRAS VEGETAL SOLIDE A BASE D'HUILE D'OLIVE**

[72] ORTIZ GARCIA, JUAN MANUEL, ES

[72] ORTIZ GARCIA, SERGIO, ES

[72] BLANCO DOMINGUEZ, VIDAL, ES

[71] HEALTHY FOOD IBERICA, S.L., ES

[85] 2021-09-16

[86] 2020-03-25 (PCT/ES2020/070205)

[87] (WO2020/212633)

[30] ES (201930346) 2019-04-16

[21] **3,130,859**
[13] A1

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

[25] EN

[54] **TRANSCATHETER ANTI EMBOLIC FILTER FOR ARTERIAL AND VENOUS VESSELS**

[54] **FILTRE ANTI-EMBOLIQUE TRANSCATHETER POUR VAISSEAUX ARTERIELS ET VEINEUX**

[72] PASQUINO, ENRICO, CH

[72] OSTA, FRANCO, IT

[72] OSTA, STEFANO, IT

[72] BAI, YI PENG, IT

[72] PARIGI, GIULIA, IT

[72] BONETTI, FRANCESCO, IT

[71] AORTICLAB SRL, IT

[85] 2021-09-16

[86] 2020-04-03 (PCT/EP2020/059601)

[87] (WO2020/201524)

[30] EP (19167599.0) 2019-04-05

PCT Applications Entering the National Phase

[21] **3,130,860**
[13] A1

[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/073 (2010.01) C12N 5/0735 (2010.01)**

[25] EN

[54] **METHODS FOR THE MATURATION OF CARDIOMYOCYTES ON AMNIOTIC FLUID CELL-DERIVED ECM, CELLULAR CONSTRUCTS, AND USES FOR CARDIOTOXICITY AND PROARRHYTHMIC SCREENING OF DRUG COMPOUNDS**

[54] **PROCEDES POUR LA MATURATION DE CARDIOMYOCYTES SUR DES ECM DERIVEES DE CELLULES DE LUQUIDE AMNIOTIQUE, CONSTRUCTIONS CELLULAIRES ET UTILISATIONS POUR LA CARDIOTOXICITE ET LE CRIBLA GE PROARYTHMIQUE DE COMPOSES MEDICAMENTEUX**

[72] BLOCK, TRAVIS, US
[72] GRIFFEY, EDWARD S., US
[72] HERRON, TODD, US
[71] STEMBIOSYS, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019311)
[87] (WO2020/172589)
[30] US (62/808,690) 2019-02-21

[21] **3,130,862**
[13] A1

[51] **Int.Cl. C40B 40/10 (2006.01) A61K 47/68 (2017.01) C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C40B 30/04 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01) G01N 35/00 (2006.01)**

[25] EN

[54] **MODULATORS OF CELL SURFACE PROTEIN INTERACTIONS AND METHODS AND COMPOSITIONS RELATED TO SAME**

[54] **MODULATEURS D'INTERACTIONS DE PROTEINE DE SURFACE CELLULAIRE ET PROCEDES ET COMPOSITIONS ASSOCIES A CEUX-CI**

[72] MARTINEZ-MARTIN, NADIA, US
[72] TURLEY, SHANNON J., US
[72] VERSCHUEREN, ERIK, US
[71] GENENTECH, INC., US
[85] 2021-08-20
[86] 2020-03-27 (PCT/US2020/025471)
[87] (WO2020/205626)
[30] US (62/826,904) 2019-03-29
[30] US (63/000,466) 2020-03-26

[21] **3,130,864**
[13] A1

[51] **Int.Cl. G01S 17/87 (2020.01) G01S 13/931 (2020.01) G01S 15/931 (2020.01) G01S 17/931 (2020.01) G01S 13/87 (2006.01) G01S 15/87 (2006.01) G01S 17/08 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PREVENTING COLLISION**

[54] **SYSTEME ET PROCEDE D'EVITEMENT DE COLLISION**

[72] KOVERMANN, JAN W., FR
[72] RUFFO, MASSIMILIANO, CH
[72] POTIER, BAPTISTE, FR
[71] TERABEE S.A.S., FR
[85] 2021-09-16
[86] 2020-04-09 (PCT/EP2020/060223)
[87] (WO2020/212259)
[30] EP (19305510.0) 2019-04-18

[21] **3,130,865**
[13] A1

[51] **Int.Cl. G06T 7/90 (2017.01)**

[25] EN

[54] **OPTIMIZING DETECTION OF IMAGES IN RELATION TO TARGETS BASED ON COLORSPACE TRANSFORMATION TECHNIQUES**

[54] **OPTIMISATION DE LA DETECTION D'IMAGES PAR RAPPORT A DES CIBLES SUR LA BASE DE TECHNIQUES DE TRANSFORMATION DE L'ESPACE CHROMATIQUE**

[72] WALTERS, AUSTIN GRANT, US
[72] GOODSITT, JEREMY EDWARD, US
[72] ABDI TAGHI ABAD, FARDIN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-09-16
[86] 2020-03-13 (PCT/US2020/022811)
[87] (WO2020/190789)
[30] US (16/357,231) 2019-03-18

[21] **3,130,867**
[13] A1

[51] **Int.Cl. C08J 9/08 (2006.01) C08J 9/10 (2006.01)**

[25] EN

[54] **CHEMICAL FOAMING OF PVC WITH SURFACE-REACTED CALCIUM CARBONATE (MCC) AND/OR HYDROMAGNESITE**

[54] **PRODUCTION CHIMIQUE DE MOUSSE DE PVC AVEC DU CARBONATE DE CALCIUM AYANT REAGI EN SURFACE (MCC) ET/OU DE L'HYDROMAGNESITE**

[72] SPEHN, JURGEN, CH
[72] IPPOLITO, FABIO, CH
[72] BARADEL, FRANCK, CH
[72] UNGER, MARCUS, DE
[71] OMYA INTERNATIONAL AG, CH
[85] 2021-09-16
[86] 2020-06-12 (PCT/EP2020/066378)
[87] (WO2020/249779)
[30] EP (19179749.7) 2019-06-12

Demandes PCT entrant en phase nationale

[21] **3,130,868**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/34 (2006.01) A61M 5/46 (2006.01)**

[25] EN

[54] **INJECTION ASSEMBLY WITH MOVABLE SLEEVE**

[54] **ENSEMBLE D'INJECTION A MANCHON MOBILE**

[72] ALLEGRETTI, ANDREW, US

[72] GIRGIS, PETER, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2021-09-16

[86] 2020-03-20 (PCT/US2020/023820)

[87] (WO2020/205275)

[30] US (62/826,225) 2019-03-29

[21] **3,130,869**
[13] A1

[51] **Int.Cl. C08G 65/30 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08G 65/335 (2006.01) C08K 5/51 (2006.01)**

[25] EN

[54] **POLYETHER POLYOL**

[54] **POLYETHER POLYOL**

[72] BONAMI, LIES, BE

[72] BOSMAN, JORIS KAREL PETER, BE

[72] MERCIER, ELS ELISABETH, BE

[71] HUNTSMAN INTERNATIONAL LLC, US

[85] 2021-08-19

[86] 2020-03-03 (PCT/EP2020/055552)

[87] (WO2020/193087)

[30] EP (19164934.2) 2019-03-25

[21] **3,130,870**
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01)**

[25] EN

[54] **TOOL ASSEMBLY FOR MOUNTING OF A DENTAL PROSTHESIS AND METHOD OF MOUNTING**

[54] **ENSEMBLE OUTIL POUR LE MONTAGE D'UNE PROTHESE DENTAIRE ET PROCEDE DE MONTAGE**

[72] HORNBECK, JACQUES, LU

[71] JADE FINANCE S.A.R.L., LU

[85] 2021-08-19

[86] 2020-03-10 (PCT/EP2020/056391)

[87] (WO2020/182833)

[30] LU (LU101149) 2019-03-11

[21] **3,130,871**
[13] A1

[51] **Int.Cl. C07D 205/04 (2006.01) A61K 31/132 (2006.01) A61K 31/18 (2006.01) A61K 31/27 (2006.01) A61K 31/397 (2006.01) A61K 31/4025 (2006.01) A61K 31/44 (2006.01) A61P 1/00 (2006.01) C07C 211/40 (2006.01) C07C 233/62 (2006.01) C07C 271/24 (2006.01) C07C 311/07 (2006.01) C07D 207/09 (2006.01) C07D 213/61 (2006.01) C07D 265/30 (2006.01)**

[25] EN

[54] **NOVEL POTASSIUM CHANNEL INHIBITORS**

[54] **NOUVEAUX INHIBITEURS DES CANAUX POTASSIQUES**

[72] BROWN, DAVID, TRISTRAM, DK

[72] CHRISTOPHERSEN, PALLE, DK

[72] JACOBSEN, THOMAS, AMOS, DK

[72] LARSEN, JANUS, S., DK

[72] POULSEN, PERNILLE, HARTVEIT, DK

[72] STROBÆK, DORTE, DK

[71] SANIONA A/S, DK

[85] 2021-08-19

[86] 2020-03-20 (PCT/EP2020/057816)

[87] (WO2020/193419)

[30] EP (19164637.1) 2019-03-22

[21] **3,130,872**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61P 35/02 (2006.01) A61P 37/06 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **ENHANCEMENT OF CYTOLYTIC T-CELL ACTIVITY BY INHIBITING EBAG9**

[54] **AMELIORATION DE L'ACTIVITE DES CELLULES T CYTOLYTIQUES PAR INHIBITION DE EBAG9**

[72] REHM, ARMIN, DE

[72] WIRGES, ANTHEA, DE

[72] BUNSE, MARIO, DE

[72] UCKERT, WOLFGANG, DE

[71] MAX-DELBRUCK-CENTRUM FUR MOLEKULARE MEDIZIN IN DER HELMHOLTZ-GEMEINSCHAFT, DE

[85] 2021-08-19

[86] 2020-03-25 (PCT/EP2020/058355)

[87] (WO2020/193628)

[30] EP (19164822.9) 2019-03-25

[21] **3,130,873**
[13] A1

[51] **Int.Cl. C08J 11/14 (2006.01) C10J 3/16 (2006.01) C10J 3/48 (2006.01) C10J 3/54 (2006.01) C10J 3/56 (2006.01)**

[25] EN

[54] **METHOD AND PROCESS ARRANGEMENT FOR PRODUCING HYDROCARBONS AND USE**

[54] **PROCEDE ET AGENCEMENT DE TRAITEMENT POUR LA PRODUCTION D'HYDROCARBURES ET LEUR UTILISATION**

[72] NIEMINEN, MATTI, FI

[72] REINIKAINEN, MATTI, FI

[71] TEKNOLOGIAN TUTKIMUSKESKUS VTT OY, FI

[85] 2021-08-19

[86] 2020-02-21 (PCT/FI2020/050111)

[87] (WO2020/169888)

[30] FI (20195132) 2019-02-21

[21] **3,130,874**
[13] A1

[51] **Int.Cl. G01M 3/32 (2006.01) E21B 47/117 (2012.01) G01M 3/36 (2006.01)**

[25] EN

[54] **PRESSURE SEAL WITH BUILT IN TESTING SYSTEM**

[54] **JOINT DE PRESSION AVEC SYSTEME DE TEST INTEGRE**

[72] MCKAY, JOHN HENRY, GB

[72] SHANKS, DAVID SIRDA, GB

[71] EXPRO NORTH SEA LIMITED, GB

[85] 2021-08-19

[86] 2020-02-26 (PCT/GB2020/050452)

[87] (WO2020/174232)

[30] GB (1902732.5) 2019-02-28

PCT Applications Entering the National Phase

[21] **3,130,875**
[13] A1

[51] **Int.Cl. G01N 37/00 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR LEARNING ACROSS MULTIPLE CHEMICAL SENSING UNITS USING A MUTUAL LATENT REPRESENTATION**
[54] **SYSTEMES ET PROCEDES D'APPRENTISSAGE A TRAVERS DE MULTIPLES UNITES DE DETECTION CHIMIQUE A L'AIDE D'UNE REPRESENTATION LATENTE RECIPROQUE**
[72] MARIC, NEVEN, CA
[72] MASILAMANI, ASHOK, PRABHU, CA
[72] GAHROOSI, AMIR BAHADOR, CA
[72] KHOMAMI ABADI, MOJTABA, CA
[72] MASILAMANI, ASHOK PRABHU, CA
[71] STRATUSCENT INC., CA
[85] 2021-08-19
[86] 2020-02-21 (PCT/IB2020/000127)
[87] (WO2020/170036)
[30] US (62/809,364) 2019-02-22

[21] **3,130,876**
[13] A1

[51] **Int.Cl. B61D 7/24 (2006.01) B61D 17/16 (2006.01) B61D 39/00 (2006.01)**
[25] EN
[54] **AUTOMATED HATCH SYSTEM FOR HOPPER RAILCARS**
[54] **SYSTEME DE TRAPPE AUTOMATISE POUR WAGONS-TREMIES**
[72] LOW, TREVOR, CA
[72] HOMM, UWE, CA
[71] ECOFAB COVERS INTERNATIONAL INC., BB
[85] 2021-08-19
[86] 2020-02-19 (PCT/IB2020/000137)
[87] (WO2020/170038)
[30] US (62/807,722) 2019-02-19

[21] **3,130,877**
[13] A1

[51] **Int.Cl. B29C 44/06 (2006.01)**
[25] EN
[54] **COMPOSITE FOAM ARTICLE**
[54] **ARTICLE EN MOUSSE COMPOSITE**
[72] KANGAS, KEVIN G., US
[71] PROPRIETECT L.P., CA
[85] 2021-08-19
[86] 2020-02-19 (PCT/IB2020/051389)
[87] (WO2020/170163)
[30] US (62/807,292) 2019-02-19

[21] **3,130,878**
[13] A1

[51] **Int.Cl. E01F 15/04 (2006.01) E01F 15/06 (2006.01)**
[25] EN
[54] **A ROAD SAFETY BARRIER ASSEMBLY**
[54] **ENSEMBLE BARRIERE DE SECURITE ROUTIERE**
[72] IMPERO, PASQUALE, IT
[71] IMPERO, PASQUALE, IT
[85] 2021-08-19
[86] 2020-02-20 (PCT/IB2020/051427)
[87] (WO2020/170189)
[30] IT (102019000002495) 2019-02-21

[21] **3,130,879**
[13] A1

[51] **Int.Cl. C12P 19/04 (2006.01) A61K 39/09 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **METHODS FOR PURIFYING BACTERIAL POLYSACCHARIDES**
[54] **PROCEDES DE PURIFICATION DE POLYSACCHARIDES BACTERIENS**
[72] CHU, LING, US
[72] COOK, SCOTT ANDREW, US
[72] MERCHANT, NISHITH, US
[72] MORAN, JUSTIN KEITH, US
[71] PFIZER INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/IB2020/051430)
[87] (WO2020/170190)
[30] US (62/808,907) 2019-02-22

[21] **3,130,880**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) A63F 13/358 (2014.01)**
[25] EN
[54] **AUGMENTED REALITY MOBILE EDGE COMPUTING**
[54] **CALCUL DE BORD MOBILE A REALITE AUGMENTEE**
[72] PEAKE, BENJAMIN, US
[72] SMITH, DAVID GRAYSON, US
[72] HU, SI YING, DIANA, US
[72] RAGHURAMAN, GANDEEVAN, US
[72] TURNER, PETER JAMES, US
[71] NIANTIC, INC., US
[85] 2021-08-19
[86] 2020-02-25 (PCT/IB2020/051614)
[87] (WO2020/174404)
[30] US (62/810,115) 2019-02-25

[21] **3,130,881**
[13] A1

[51] **Int.Cl. C22B 3/04 (2006.01) C22B 3/00 (2006.01) C22B 3/44 (2006.01) C25C 1/20 (2006.01)**
[25] EN
[54] **A PROCESS FOR RECOVERING GOLD FROM ORES**
[54] **PROCEDE DE RECUPERATION D'OR A PARTIR DE MINERAIS**
[72] NAIM, RONEN, IL
[72] COSTI, RONNY, IL
[72] SERTHOOK, HANAN, IL
[72] ELAZARI, RAN, IL
[71] BROMINE COMPOUNDS LTD., IL
[85] 2021-08-19
[86] 2020-03-12 (PCT/IL2020/050291)
[87] (WO2020/183469)
[30] US (62/817,578) 2019-03-13

Demandes PCT entrant en phase nationale

[21] **3,130,882**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 8/49 (2006.01) A61K 31/40 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **APREMILAST LIPOPHILIC TOPICAL PHARMACEUTICAL COMPOSITIONS**

[54] **COMPOSITIONS PHARMACEUTIQUES TOPIQUES LIPOPHILES D'APREMILAST**

[72] SREEDHARALA, VENKATA NOOKARAJU, IN

[72] MANAKKOTE, RAMDAS, IN

[72] KALAKOTI, SRIKANTH, IN

[71] APRAMITHA INNOVATIONS PRIVATE LIMITED, IN

[85] 2021-08-19

[86] 2020-02-17 (PCT/IN2020/050149)

[87] (WO2020/170268)

[21] **3,130,883**
[13] A1

[51] **Int.Cl. G06N 99/00 (2019.01)**

[25] EN

[54] **INFORMATION PROCESSING SYSTEM, METHOD FOR PROCESSING INFORMATION AND PROGRAM**

[54] **SYSTEME DE TRAITEMENT D'INFORMATIONS, PROCEDE DE TRAITEMENT D'INFORMATIONS, ET PROGRAMME**

[72] ENDO, KOTARO, JP

[71] KABUSHIKI KAISHA TOSHIBA, JP

[71] TOSHIBA DIGITAL SOLUTIONS CORPORATION, JP

[85] 2021-08-19

[86] 2019-02-22 (PCT/JP2019/006708)

[87] (WO2020/170410)

[21] **3,130,884**
[13] A1

[51] **Int.Cl. A01N 65/08 (2009.01) A01N 65/22 (2009.01) A01N 65/24 (2009.01)**

[25] EN

[54] **ANTIMICROBIAL SKIN CREAM**

[54] **CREME ANTIMICROBIENNE POUR LA PEAU**

[72] GANGA, YVON, US

[71] GANGA, YVON, US

[85] 2021-08-19

[86] 2019-07-03 (PCT/US2019/040576)

[87] (WO2021/002867)

[21] **3,130,885**
[13] A1

[51] **Int.Cl. G01F 1/56 (2006.01) G01N 27/22 (2006.01) G01N 33/24 (2006.01) G01N 33/26 (2006.01)**

[25] EN

[54] **DIELECTRIC MULTIPHASE FLOW METER**

[54] **DEBITMETRE MULTI-PHASE DIELECTRIQUE**

[72] BAUMOEL, JOSEPH, US

[71] BAUMOEL, JOSEPH, US

[85] 2021-08-19

[86] 2019-08-22 (PCT/US2019/047679)

[87] (WO2020/180347)

[30] US (16/290,068) 2019-03-01

[21] **3,130,886**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/08 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CALIBRATION OF A POSE OF A SENSOR RELATIVE TO A MATERIALS HANDLING VEHICLE**

[54] **SYSTEMES ET PROCEDES DE CALIBRAGE D'UNE POSE D'UN CAPTEUR PAR RAPPORT A UN VEHICULE DE MANIPULATION DE MATERIAUX**

[72] ESTEP, RYAN MICHAELS, US

[72] FANSELOW, TIMOTHY WILLIAM, US

[71] CROWN EQUIPMENT CORPORATION, US

[85] 2021-08-19

[86] 2020-02-13 (PCT/US2020/018081)

[87] (WO2020/172039)

[30] US (62/807,536) 2019-02-19

[21] **3,130,887**
[13] A1

[51] **Int.Cl. E01F 9/688 (2016.01) E01F 9/654 (2016.01) E01F 13/02 (2006.01)**

[25] EN

[54] **COVER FOR NOTIFICATION, CHANNELING, OR DELINEATOR DEVICE**

[54] **COUVERCLE POUR DISPOSITIF DE NOTIFICATION, DE CANALISATION OU DE DELIMITATION**

[72] BUTTERWORTH III, FRANK L., US

[71] BUTTERWORTH III, FRANK L., US

[85] 2021-08-19

[86] 2020-02-18 (PCT/US2020/018693)

[87] (WO2020/172194)

[30] US (62/807,367) 2019-02-19

[30] US (62/858,821) 2019-06-07

[30] US (62/905,292) 2019-09-24

[30] US (62/930,546) 2019-11-04

[21] **3,130,888**
[13] A1

[51] **Int.Cl. C12N 15/01 (2006.01) C12N 9/00 (2006.01)**

[25] EN

[54] **RNA POLYMERASE VARIANTS FOR CO-TRANSCRIPTIONAL CAPPING**

[54] **VARIANTS D'ARN POLYMERASE POUR LE COIFFAGE CO-TRANSCRIPTIONNEL**

[72] DOUSIS, ATHANASIOS, US

[72] RAVICHANDRAN, KANCHANA, US

[72] RABIDEAU, AMY E., US

[72] FRANKLIN, MARGARET, US

[72] SMITH, KEVIN, US

[72] HALL, MICHELLE LYNN, US

[71] MODERNATX, INC., US

[85] 2021-08-19

[86] 2020-02-19 (PCT/US2020/018779)

[87] (WO2020/172239)

[30] US (62/808,182) 2019-02-20

[30] US (62/832,314) 2019-04-11

[30] US (62/885,928) 2019-08-13

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[21] **3,130,889**
[13] A1

[51] **Int.Cl. G01N 1/30 (2006.01) G01N 1/36 (2006.01)**
[25] EN
[54] **ITERATIVE DIRECT EXPANSION MICROSCOPY**
[54] **MICROSCOPIE D'EXPANSION DIRECTE ITERATIVE**
[72] SARKAR, DEBLINA, US
[72] BOYDEN, EDWARD STUART, US
[72] WASSIE, ASMAMAW T., US
[72] KANG, JINYOUNG, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018789)
[87] (WO2020/172247)
[30] US (62/809,062) 2019-02-22

[21] **3,130,890**
[13] A1

[51] **Int.Cl. B65D 81/38 (2006.01) B65D 81/00 (2006.01) B65D 81/18 (2006.01)**
[25] EN
[54] **THERMAL PROTECTION PACKAGING**
[54] **EMBALLAGE DE PROTECTION THERMIQUE**
[72] WIEMANN, DAVID J., US
[72] HASCHKE, PAUL C., US
[72] MCCARTHY, TIMOTHY L., US
[72] MCDONNELL, WILLIAM T., US
[71] WESTROCK SHARED SERVICES, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018800)
[87] (WO2020/172254)
[30] US (16/279,282) 2019-02-19
[30] US (16/791,228) 2020-02-14

[21] **3,130,891**
[13] A1

[51] **Int.Cl. B08B 9/04 (2006.01) B05B 1/06 (2006.01) B05B 13/06 (2006.01) B05C 7/00 (2006.01) B08B 9/043 (2006.01) B08B 9/055 (2006.01) F16L 55/00 (2006.01)**
[25] EN
[54] **HEADER DELIVERY SYSTEM**
[54] **SYSTEME DE POSE DE COLLECTEUR**
[72] BURGGRAAFF, MAARTEN CORNELIS, US
[72] MEERKERK, WILLEM, US
[71] QUEST INTEGRITY GROUP, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018837)
[87] (WO2020/172283)
[30] US (62/808,076) 2019-02-20

[21] **3,130,892**
[13] A1

[51] **Int.Cl. H04Q 9/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COMMUNICATIONS NODE UPGRADE AND SELECTION**
[54] **SYSTEMES ET PROCEDES DE MISE A NIVEAU ET DE SELECTION DE NŒUDS DE COMMUNICATIONS**
[72] GRAY, WILLIAM, US
[72] SAYRE, JAMES, US
[72] LIMBURG, STEPHEN, US
[71] LEVEL 3 COMMUNICATIONS, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018877)
[87] (WO2020/172316)
[30] US (62/808,183) 2019-02-20
[30] US (62/808,189) 2019-02-20

[21] **3,130,893**
[13] A1

[25] EN
[54] **SERVICE AREA DETERMINATION IN A TELECOMMUNICATIONS NETWORK**
[54] **ZONE DE SERVICE DANS UN RESEAU DE TELECOMMUNICATION**
[72] DRAPER, SHAWN, US
[72] KAZA, VAMSI, US
[72] MATTHEWS, JERRY, US
[72] GRAY, WILLIAM, US
[71] LEVEL 3 COMMUNICATIONS, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018885)
[87] (WO2020/172320)
[30] US (62/808,183) 2019-02-20
[30] US (62/808,189) 2019-02-20
[30] US (62/968,811) 2020-01-31

[21] **3,130,894**
[13] A1

[51] **Int.Cl. B01D 63/08 (2006.01)**
[25] EN
[54] **DEVICE FOR BIND AND ELUTE CHROMATOGRAPHY USING MEMBRANES, AND METHOD OF MANUFACTURE**
[54] **DISPOSITIF DE FIXATION ET D'ELUTION POUR CHROMATOGRAPHIE UTILISANT DES MEMBRANES, ET PROCEDE DE FABRICATION**
[72] RAUTIO, KEVIN, US
[72] FOLEY, SEAN, US
[72] HUNT, STEPHEN G., US
[72] LEE, BUMCHUL, US
[72] LANDRY, NATHAN, US
[71] EMD MILLIPORE CORPORATION, US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/018947)
[87] (WO2020/172354)
[30] US (62/807,937) 2019-02-20
[30] US (62/932,722) 2019-11-08

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[21] **3,130,895**
[13] A1

[51] **Int.Cl. H02M 1/32 (2007.01) H02M 7/483 (2007.01) H02M 7/49 (2007.01) H02P 29/02 (2016.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROTECTING AN ELECTRICAL LOAD OF A DRIVE SYSTEM**

[54] **SYSTEME ET PROCEDE DE PROTECTION D'UNE CHARGE ELECTRIQUE D'UN SYSTEME D'ENTRAINEMENT**

[72] CLEMENTS, NEAL, US

[72] GRASINGER, DANIEL, US

[72] KONEVA, ELENA V., US

[72] BOUSFIELD, JOHN CHANNING, III, US

[71] SIEMENS AKTIENGESSELLSCHAFT, DE

[85] 2021-08-19

[86] 2020-02-20 (PCT/US2020/018987)

[87] (WO2020/172376)

[30] US (62/808,412) 2019-02-21

[21] **3,130,896**
[13] A1

[51] **Int.Cl. F02C 5/04 (2006.01) F02C 3/16 (2006.01) F23R 3/16 (2006.01)**

[25] EN

[54] **ROTATING INTERNAL COMBUSTION ENGINE**

[54] **MOTEUR A COMBUSTION INTERNE ROTATIF**

[72] GREEN, CHARLES MATTISON, US

[72] HOAG, KEVIN L., US

[72] REINHART, THOMAS E., US

[72] BRANYON, DAVID P., US

[72] MUSGROVE, GRANT O., US

[71] GREEN ENGINE, LLC, US

[85] 2021-08-19

[86] 2020-02-20 (PCT/US2020/019026)

[87] (WO2020/172399)

[30] US (62/808,174) 2019-02-20

[21] **3,130,897**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 31/352 (2006.01) A61P 3/04 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING TETRAHYDROCANNABIVARIN FOR THE PREVENTION AND TREATMENT OF OVERWEIGHT**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DE LA TETRAHYDROCANNABIVARINE POUR LA PREVENTION ET LE TRAITEMENT DU SURPOIDS**

[72] GLAS, RONALD JOHANNES (DECEASED), NL

[71] AKASHA CORPORATION, AI

[71] LIV INNOVATION, NL

[85] 2021-08-19

[86] 2020-02-21 (PCT/NL2020/050110)

[87] (WO2020/171711)

[30] NL (2022615) 2019-02-21

[21] **3,130,898**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL, PHYTO-CANNABINOID BASED COMPOSITIONS**

[54] **COMPOSITIONS PHARMACEUTIQUES A BASE DE PHYTOCANNABINOIDES**

[72] GLAS, RONALD JOHANNES, NL

[71] AKASHA CORPORATION, AI

[71] LIV INNOVATION SA, CH

[85] 2021-08-19

[86] 2020-02-21 (PCT/NL2020/050111)

[87] (WO2020/171712)

[30] NL (2022614) 2019-02-21

[21] **3,130,899**
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/43 (2006.01) A61K 8/60 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE PRODUCT**

[54] **PRODUIT DE SOIN BUCCAL**

[72] BOIOCCHI, LORENZO EMILIANO, IT

[71] CURASEPT A.D.S. S.R.L., IT

[85] 2021-08-19

[86] 2020-02-27 (PCT/EP2020/055199)

[87] (WO2020/178148)

[30] IT (102019000003009) 2019-03-01

[21] **3,130,902**
[13] A1

[51] **Int.Cl. B23K 9/12 (2006.01) B23K 9/10 (2006.01) B25J 9/22 (2006.01) G05B 19/4093 (2006.01)**

[25] EN

[54] **WELD LINE DATA GENERATION DEVICE, WELDING SYSTEM, WELD LINE DATA GENERATION METHOD, AND PROGRAM**

[54] **DISPOSITIF DE PRODUCTION DE DONNEES DE LIGNE DE SOUDURE, SYSTEME DE SOUDAGE, PROCEDE DE PRODUCTION DE DONNEES DE LIGNE DE SOUDURE ET PROGRAMME**

[72] JIAO, YOUZHUO, JP

[72] SADAHIRO, KENJI, JP

[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBELCO STEEL, LTD.), JP

[85] 2021-08-19

[86] 2020-02-04 (PCT/JP2020/004196)

[87] (WO2020/175041)

[30] JP (2019-032635) 2019-02-26

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[21] **3,130,904**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/01 (2012.01) E21B 47/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR EVALUATING RECIPROCATING DOWNHOLE PUMP DATA USING POLAR COORDINATE ANALYTICS**

[54] **SYSTEME ET PROCEDE D'EVALUATION DE DONNEES DE POMPE ALTERNATIVE DE FOND DE TROU UTILISANT UNE ANALYSE DE COORDONNEES POLAIRES**

[72] PONS, VICTORIA, US

[71] RAVDOS HOLDINGS INC., US

[85] 2021-07-21

[86] 2020-01-21 (PCT/US2020/014483)

[87] (WO2020/154329)

[30] US (62/795,371) 2019-01-22

[21] **3,130,905**
[13] A1

[51] **Int.Cl. A23C 11/10 (2021.01) A23L 25/00 (2016.01) C12N 9/10 (2006.01)**

[25] EN

[54] **PREVENTION OF AGGREGATION IN NUT MILK**

[54] **PREVENTION DE L'AGREGATION DE LAIT DE NOIX**

[72] FUJIOKA, HIROKI, GB

[71] AMANO ENZYME INC., JP

[71] AMANO ENZYME EUROPE LTD., GB

[85] 2021-08-19

[86] 2020-02-19 (PCT/JP2020/006432)

[87] (WO2020/171105)

[30] JP (2019-029904) 2019-02-21

[21] **3,130,907**
[13] A1

[51] **Int.Cl. A23C 11/10 (2021.01) A23L 25/00 (2016.01) C12N 9/10 (2006.01)**

[25] EN

[54] **PREVENTION OF AGGREGATION IN PLANT MILK**

[54] **PREVENTION DE L'AGREGATION DE LAIT VEGETAL**

[72] FUJIOKA, HIROKI, GB

[71] AMANO ENZYME INC., JP

[71] AMANO ENZYME EUROPE LTD., GB

[85] 2021-08-19

[86] 2020-02-19 (PCT/JP2020/006433)

[87] (WO2020/171106)

[30] JP (2019-029904) 2019-02-21

[30] JP (2019-077841) 2019-04-16

[21] **3,130,909**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) G01N 33/15 (2006.01) G01N 33/50 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **ANTIBODIES THAT BIND TO CLEAVED FORM OF MUTANT CALRETICULIN, AND DIAGNOSTIC, PREVENTIVE, OR THERAPEUTIC AGENT FOR MYELOPROLIFERATIVE NEOPLASM**

[54] **ANTICORPS SE LIANT A LA FORME CLIVEE DE LA CALRETICULINE MUTANTE ET L'AGENT DIAGNOSTIQUE, PREVENTIF OU THERAPEUTIQUE POUR LA NEOPLASIE MYELOPROLIFERATIVE**

[72] ARAKI, MARITO, JP

[72] KIHARA, YOSHIHIKO, JP

[72] KOMATSU, NORIO, JP

[71] JUNTENDO EDUCATIONAL FOUNDATION, JP

[71] MEIJI SEIKA PHARMA CO., LTD., JP

[85] 2021-08-19

[86] 2020-02-28 (PCT/JP2020/008434)

[87] (WO2020/175689)

[30] JP (2019-036119) 2019-02-28

[21] **3,130,911**
[13] A1

[51] **Int.Cl. C08J 5/06 (2006.01) B29B 15/08 (2006.01) C08L 1/08 (2006.01) C08L 101/00 (2006.01)**

[25] EN

[54] **FIBROUS CELLULOSE COMPOSITE RESIN AND PRODUCTION METHOD THEREFOR, AND RESIN REINFORCING MATERIAL**

[54] **RESINE COMPOSITE DE CELLULOSE FIBREUSE ET PROCEDE DE PRODUCTION ASSOCIE, ET MATERIAU DE RENFORCEMENT DE RESINE**

[72] MATSUSUE, IKKO, JP

[72] OCHIAI, YU, JP

[71] DAIO PAPER CORPORATION, JP

[85] 2021-08-19

[86] 2020-03-12 (PCT/JP2020/010872)

[87] (WO2020/203147)

[30] JP (2019-065313) 2019-03-29

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,130,913 [13] A1</p> <p>[51] Int.Cl. B28C 5/16 (2006.01) [25] EN [54] PRETREATMENT MIXING AND STIRRING DEVICE, GYPSUM SLURRY MANUFACTURING APPARATUS, BUILDING BOARD MANUFACTURING APPARATUS, PRETREATMENT CALCINED GYPSUM MANUFACTURING METHOD, GYPSUM SLURRY MANUFACTURING METHOD, BUILDING BOARD MANUFACTURING METHOD [54] AGITATEUR DE MELANGE DE PRETRAITEMENT, DISPOSITIF DE FABRICATION DE SUSPENSION CONCENTREE DE GYPSE, DISPOSITIF DE FABRICATION DE MATERIAU DESURFACE DE CONSTRUCTION, PROCEDE DE FABRICATION DE GYPSE CALCINE DE PRETRAITEMENT, PROCEDE DE FABRICATION DE SUSPENSION CONCENTREE DE GYPSE, PROCEDE DE FABRICATION DE MATERIAU DE SURFACE DE CONSTRUCTION [72] HIROOKA, YUICHI, JP [72] SOMENO, HIROYUKI, JP [71] YOSHINO GYPSUM CO., LTD., JP [85] 2021-08-19 [86] 2020-04-14 (PCT/JP2020/016458) [87] (WO2020/213611) [30] JP (2019-077352) 2019-04-15</p>	<p style="text-align: center;">[21] 3,130,918 [13] A1</p> <p>[51] Int.Cl. F04D 25/12 (2006.01) F04D 29/28 (2006.01) F24F 7/013 (2006.01) F24F 7/06 (2006.01) F24F 12/00 (2006.01) F24F 13/28 (2006.01) F24F 13/30 (2006.01) [25] EN [54] DUAL MODE IMPELLER ASSEMBLY AND A VENTILATION UNIT [54] ENSEMBLE TURBINE A DOUBLE MODE ET UNITE DE VENTILATION [72] GULLIKSEN, MORTEN, NO [71] PEAKVENT AS, NO [85] 2021-08-19 [86] 2020-02-21 (PCT/NO2020/050048) [87] (WO2020/171719) [30] NO (20190246) 2019-02-22 [30] NO (20190522) 2019-04-17</p>	<p style="text-align: center;">[21] 3,130,924 [13] A1</p> <p>[51] Int.Cl. C08K 5/053 (2006.01) C08K 5/07 (2006.01) C08K 5/1575 (2006.01) C08K 5/24 (2006.01) C08K 5/25 (2006.01) [25] EN [54] BITUMINOUS COMPOSITION SOLID AT AMBIENT TEMPERATURE [54] COMPOSITION BITUMINEUSE SOLIDE A TEMPERATURE AMBIANTE [72] VINCENT, REGIS, FR [71] TOTAL MARKETING SERVICES, FR [85] 2021-09-17 [86] 2020-03-05 (PCT/EP2020/055809) [87] (WO2020/187580) [30] EP (19305321.2) 2019-03-18</p>
<p style="text-align: center;">[21] 3,130,916 [13] A1</p> <p>[51] Int.Cl. G06T 7/00 (2017.01) G16H 30/40 (2018.01) [25] EN [54] IMAGE PROCESSING DEVICE, IMAGE PROCESSING PROGRAM, AND IMAGE PROCESSING METHOD [54] DISPOSITIF DE TRAITEMENT D'IMAGE, PROGRAMME DE TRAITEMENT D'IMAGE ET PROCEDE DE TRAITEMENT D'IMAGE [72] UMINO TATSUYA, JP [72] KIMURA KENICHIRO, JP [71] MAYEKAWA MFG. CO., LTD., JP [85] 2021-08-19 [86] 2020-05-25 (PCT/JP2020/020532) [87] (WO2020/246288) [30] JP (2019-107026) 2019-06-07</p>	<p style="text-align: center;">[21] 3,130,921 [13] A1</p> <p>[51] Int.Cl. A61K 39/395 (2006.01) A61K 9/00 (2006.01) A61K 39/00 (2006.01) C07K 16/24 (2006.01) [25] EN [54] METHOD FOR TREATING TNF.ALPHA.-RELATED DISEASES [54] METHODE DE TRAITEMENT DES MALADIES LIEES AU TNFA [72] KIM, SUN JUNG, KR [72] KIM, SERA, KR [72] SUH, JEE HYE, KR [72] YANG, SI YOUNG, KR [72] LEE, JOON HO, KR [72] JO, SO HYE, KR [72] JUNG, JIN SUN, KR [72] LEE, SUN HEE, KR [71] CELLTRION, INC., KR [85] 2021-08-19 [86] 2020-02-28 (PCT/KR2020/002886) [87] (WO2020/175954) [30] KR (10-2019-0023769) 2019-02-28</p>	<p style="text-align: center;">[21] 3,130,925 [13] A1</p> <p>[51] Int.Cl. H03K 19/1776 (2020.01) G06T 7/90 (2017.01) [25] EN [54] DETECTION OF IMAGES IN RELATION TO TARGETS BASED ON COLORSPACE TRANSFORMATION TECHNIQUES AND UTILIZING ULTRAVIOLET LIGHT [54] DETECTION D'IMAGES PAR RAPPORT A DES CIBLES SUR LA BASE DE TECHNIQUES DE TRANSFORMATION D'ESPACE COLORIMETRIQUE ET D'UTILISATION DE LUMIERE ULTRAVIOLETTE [72] WALTERS, AUSTIN GRANT, US [72] GOODSITT, JEREMY EDWARD, US [72] ABDI TAGHI ABAD, FARDIN, US [71] CAPITAL ONE SERVICES, LLC, US [85] 2021-09-17 [86] 2020-03-16 (PCT/US2020/022920) [87] (WO2020/190843) [30] US (16/357,211) 2019-03-18</p>

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[21] **3,130,926**
[13] A1

[51] **Int.Cl. B65D 63/10 (2006.01) F16L 3/137 (2006.01) F16L 3/233 (2006.01)**
[25] EN
[54] **A CABLE TIE**
[54] **ATTACHE DE CABLE**
[72] DUDEK, TIMOTHY, NZ
[71] DUDEK, TIMOTHY, NZ
[85] 2021-08-19
[86] 2020-02-10 (PCT/NZ2020/050009)
[87] (WO2020/167142)
[30] NZ (750593) 2019-02-11

[21] **3,130,927**
[13] A1

[51] **Int.Cl. C10M 145/14 (2006.01)**
[25] EN
[54] **POLYALKYL(METH)ACRYLATES FOR IMPROVING FUEL ECONOMY, DISPERSANCY AND DEPOSITS PERFORMANCE**
[54] **POLYALKYL(METH)ACRYLATES POUR AMELIORER L'ECONOMIE DE CARBURANT, LES PERFORMANCES DE DEPOTS ET DE CAPACITE DE DISPERSION**
[72] SCHOLLER, KATRIN, DE
[72] ZIEGLER, FABIAN, DE
[72] EISENBERG, BORIS, DE
[72] SHAKHVOROSTOV, DMITRIY, DE
[72] SCHIMOSSEK, KLAUS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-09-17
[86] 2020-03-18 (PCT/EP2020/057364)
[87] (WO2020/187954)
[30] US (62/821,220) 2019-03-20
[30] EP (EP19191924) 2019-08-15

[21] **3,130,930**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR EVALUATION OF CELL SAMPLES**
[54] **PROCEDES ET SYSTEMES D'EVALUATION D'ECHANTILLONS CELLULAIRES**
[72] YUN, KYUSON, US
[71] YUN, KYUSON, US
[85] 2021-09-17
[86] 2020-03-18 (PCT/US2020/023445)
[87] (WO2020/191105)
[30] US (62/820,719) 2019-03-19

[21] **3,130,935**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **CANNABIGEROL AND PHARMACEUTICAL COMPOSITIONS COMPRISING CANNABIGEROL FOR USE IN THE TREATMENT OF INSOMNIA**
[54] **CANNABIGEROL ET COMPOSITIONS PHARMACEUTIQUES COMPORTANT DU CANNABIGEROL A UTILISES DANS LE TRAITEMENT DE L'INSOMNIE**
[72] GLAS, RONALD JOHANNES (DECEASED), XX
[71] AKASHA CORPORATION, AI
[71] LIV INNOVATION SA, CH
[85] 2021-08-19
[86] 2020-02-21 (PCT/NL2020/050112)
[87] (WO2020/171713)
[30] NL (2022616) 2019-02-21

[21] **3,130,937**
[13] A1

[51] **Int.Cl. A61K 38/28 (2006.01) A61K 45/00 (2006.01)**
[25] EN
[54] **TOPICAL COMPOSITION FOR IMPROVED HEALING OF OCULAR AILMENTS**
[54] **COMPOSITION TOPIQUE POUR LA CICATRISATION AMELIOREE DE MALADIES OCULAIRES**
[72] BUICE, MONA E., US
[72] SAILORS, DAVID M., US
[72] WOODY, JONATHAN, US
[72] WOOD, JAMES LOUIS, US
[72] GREESON, JOSHUA Z., US
[71] ELEOS PHARMACEUTICALS, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018808)
[87] (WO2020/172260)
[30] US (62/808,037) 2019-02-20

[21] **3,130,939**
[13] A1

[51] **Int.Cl. C22C 21/06 (2006.01)**
[25] EN
[54] **ALUMINIUM-BASED ALLOY**
[54] **ALLIAGE A BASE D'ALUMINIUM**
[72] MANN, VIKTOR
KHRIST'YANOVICH, RU
[72] ALABIN, ALEKSANDR
NIKOLAEVICH, RU
[72] KHROMOV, ALEKSANDR
PETROVICH, RU
[72] VAL'CHUK, SERGEY
VIKTOROVICH, RU
[72] KROKHIN, ALEKSANDR
YUR'EVICH, RU
[72] FOKIN, DMITRIY OLEGOVICH, RU
[72] VAKHROMOV, ROMAN
OLEGOVICH, RU
[72] YUREV, PAVEL OLEGOVICH, RU
[71] OBSHCHESTVO S
OGRANICHENNOY
OTVETSTVENNOST'YU
"OBEDINENNAYA KOMPANIYA
RUSAL INZHENERNO-
TEKHNOLOGICHESKIY TSENTR",
RU
[85] 2021-08-19
[86] 2019-12-27 (PCT/RU2019/001038)
[87] (WO2021/133200)

[21] **3,130,940**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR COMMUNICATIONS NODE UPGRADE AND SELECTION**
[54] **SYSTEMES ET PROCEDES DESTINES A LA MISE A NIVEAU ET A LA SELECTION DE NŌUDS DE COMMUNICATION**
[72] GRAY, WILLIAM, US
[72] SAYRE, JAMES, US
[72] LIMBURG, STEPHEN, US
[71] LEVEL 3 COMMUNICATIONS, LLC, US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018892)
[87] (WO2020/172325)
[30] US (62/808,183) 2019-02-20
[30] US (62/808,189) 2019-02-20

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[21] **3,130,943**
[13] A1

[51] **Int.Cl. H01F 5/00 (2006.01) H01F 27/02 (2006.01)**
[25] EN
[54] **CAGE CORE INDUCTOR**
[54] **BOBINE D'INDUCTION A NOYAU A CAGE**
[72] FALLDIN, AGNE, SE
[71] KKM KRAFTKVALITEMATNING AB, SE
[85] 2021-08-19
[86] 2020-02-18 (PCT/SE2020/050187)
[87] (WO2020/171762)
[30] SE (1950225-1) 2019-02-21

[21] **3,130,944**
[13] A1

[51] **Int.Cl. D01F 2/02 (2006.01) C08B 16/00 (2006.01) D01D 5/06 (2006.01) D01F 1/10 (2006.01)**
[25] EN
[54] **A PROCESS AND A SPINNING LINE UNIT FOR WET SPINNING OF CELLULOSE FIBERS FROM AN ALKALINE SPIN BATH**
[54] **PROCEDE ET UNITE DE LIGNE DE FILAGE POUR LE FILAGE PAR VOIE HUMIDE DE FIBRES DE CELLULOSE A PARTIR D'UN BAIN DE FILAGE ALCALIN**
[72] HAGSTROM, BENGT, SE
[72] KOHNKE, TOBIAS, SE
[72] ENGSTROM, JONAS, SE
[71] TREETOTEXTILE AB, SE
[85] 2021-08-19
[86] 2020-02-20 (PCT/SE2020/050198)
[87] (WO2020/171767)
[30] SE (1950223-6) 2019-02-21

[21] **3,130,945**
[13] A1

[51] **Int.Cl. F16T 1/48 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND MEDIA FOR MONITORING STEAM TRAPS FOR FAILURE**
[54] **SYSTEMES, PROCEDES ET SUPPORTS POUR SURVEILLER DES PIEGES A VAPEUR POUR DETERMINER UNE DEFAILLANCE**
[72] OWENS, PETER, US
[72] MICALLEF, DAVID, MT
[71] LATENCY, LLC, US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019095)
[87] (WO2020/172452)
[30] US (62/808,113) 2019-02-20

[21] **3,130,947**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**
[25] EN
[54] **REUSABLE RESPIRATORY PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION RESPIRATOIRE REUTILISABLE**
[72] HEIMBUCH, BRIAN K., US
[72] HARNISH, DELBERT A., US
[72] KIBBLE, GEOFFREY A., US
[72] STEPHENSON, THOMAS B., US
[72] NOGUEIRA-PREWITT, SHEILA J., US
[72] ESTKOWSKI, CHRISTOPHER G., US
[72] COPLEY, JOHNNIE H., US
[72] WILSON, GRAHAM, GB
[72] WARD, CHRIS, GB
[71] APPLIED RESEARCH ASSOCIATES, INC., US
[85] 2021-09-17
[86] 2020-04-23 (PCT/US2020/029538)
[87] (WO2020/231614)
[30] US (62/848,341) 2019-05-15
[30] US (16/852,993) 2020-04-20

[21] **3,130,950**
[13] A1

[51] **Int.Cl. A61M 39/16 (2006.01) A61M 39/18 (2006.01) A61M 39/20 (2006.01)**
[25] EN
[54] **CAPPING AND CLEANSING DEVICES FOR NEEDLEFREE VASCULAR ACCESS CONNECTORS**
[54] **DISPOSITIFS DE COIFFAGE ET DE NETTOYAGE POUR CONNECTEURS D'ACCES VASCULAIRE SANS AIGUILLE**
[72] ANDERSON, NICHOLAS, US
[72] GRANT, JOHN, US
[72] CHAMBERS, DANIEL M., US
[72] ARIELY, ADAM, US
[72] MATSUURA, DAVID G., US
[72] SIMPSON, PHILIP J., US
[71] CLEANSITE MEDICAL, INC., US
[85] 2021-08-19
[86] 2020-02-19 (PCT/US2020/018924)
[87] (WO2020/172346)
[30] US (62/807,239) 2019-02-19

[21] **3,130,951**
[13] A1

[51] **Int.Cl. B21C 1/00 (2006.01) B21C 3/14 (2006.01) B21C 9/00 (2006.01) C10M 107/00 (2006.01)**
[25] EN
[54] **WIRE DRAWING MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE TREFILAGE**
[72] SARVER, RICHARD, US
[72] NAUMANN, KARL, US
[72] NORONA, JOAO, US
[71] PARAMOUNT DIE COMPANY, INC, US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019128)
[87] (WO2020/172477)
[30] US (62/807,834) 2019-02-20

[21] **3,130,953**
[13] A1

[51] **Int.Cl. C11D 17/00 (2006.01) C11D 1/14 (2006.01) C11D 1/66 (2006.01) C11D 1/72 (2006.01) C11D 1/83 (2006.01) C11D 3/10 (2006.01) C11D 3/20 (2006.01) C11D 11/00 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **STABLE ANHYDROUS CLEANSER CONCENTRATE FORMULATION AND METHOD OF MAKING SAME**
[54] **FORMULATION CONCENTREE NETTOYANTE ANHYDRE STABLE ET SON PROCEDE DE FABRICATION**
[72] NAQVI, SYED HUMZA, US
[71] ONE HOME BRANDS, INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019058)
[87] (WO2020/172420)
[30] US (62/808,021) 2019-02-20
[30] US (62/836,245) 2019-04-19
[30] US (62/836,325) 2019-04-19
[30] US (62/836,390) 2019-04-19
[30] US (62/929,572) 2019-11-01
[30] US (62/929,588) 2019-11-01
[30] US (62/929,598) 2019-11-01

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[21] **3,130,957**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MAGNETIC RESONANCE IMAGING THERMOMETRY**
[54] **METHODE ET APPAREIL POUR THERMOMETRIE D'IMAGERIE PAR RESONANCE MAGNETIQUE**
[72] DROWN, CHRISTINE R., US
[72] WALD, ANDREW, US
[72] VINCELETTE, REBECCA L., US
[72] GRISSOM, WILLIAM A., US
[71] MEDTRONIC NAVIGATION, INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019060)
[87] (WO2020/172422)
[30] US (16/282,193) 2019-02-21

[21] **3,130,958**
[13] A1

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 3/10 (2006.01) C11D 3/20 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **STABLE ANHYDROUS FOAMING AND GELLING HAND SOAP CONCENTRATE AND METHOD OF MAKING SAME**
[54] **CONCENTRE DE SAVON POUR LES MAINS A FORMATION DE GEL ET DE MOUSSE, STABLE, ANHYDRE ET SON PROCEDE DE PRODUCTION**
[72] NAQVI, SYED HUMZA, US
[71] ONE HOME BRANDS, INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019061)
[87] (WO2020/172423)
[30] US (62/808,021) 2019-02-20
[30] US (62/889,480) 2019-08-20

[21] **3,130,959**
[13] A1

[51] **Int.Cl. C08L 33/26 (2006.01) C08F 2/22 (2006.01) C08F 2/24 (2006.01) C09K 8/03 (2006.01) C09K 8/88 (2006.01)**
[25] FR
[54] **REVERSE EMULSION FOR HYDRAULIC FRACTURING**
[54] **EMULSION INVERSE POUR LA FRACTURATION HYDRAULIQUE**
[72] FAVERO, CEDRICK, FR
[72] BRAUN, OLIVIER, FR
[72] TAVERNIER, BRUNO, FR
[71] S.P.C.M. SA, FR
[85] 2021-09-17
[86] 2020-03-27 (PCT/EP2020/058703)
[87] (WO2020/201081)
[30] FR (FR1903409) 2019-03-29

[21] **3,130,963**
[13] A1

[51] **Int.Cl. G06T 5/00 (2006.01) G06T 7/73 (2017.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MAGNETIC RESONANCE IMAGING THERMOMETRY**
[54] **PROCEDE ET APPAREIL DE THERMOMETRIE PAR IMAGERIE PAR RESONANCE MAGNETIQUE**
[72] DROWN, CHRISTINE R., US
[72] WALD, ANDREW, US
[72] VINCELETTE, REBECCA L., US
[72] GRISSOM, WILLIAM A., US
[71] MEDTRONIC NAVIGATION, INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019080)
[87] (WO2020/172439)
[30] US (16/282,213) 2019-02-21

[21] **3,130,964**
[13] A1

[25] EN
[54] **A PROCESS AND APPARATUS FOR ACID MINE DRAINAGE TREATMENT**
[54] **PROCEDE ET APPAREIL POUR LE TRAITEMENT DE DRAINAGE MINIER ACIDE**
[72] THOMPSON BREWSTER, EMMA, AU
[71] CIPO, CA
[71] ENGINEER ROOM INFRASTRUCTURE CONSULTING PTY LTD, AU
[85] 2021-09-17
[86] 2020-03-25 (PCT/AU2020/050282)
[87] (WO2020/191439)
[30] AU (2019900984) 2019-03-25

[21] **3,130,965**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/73 (2017.01) G06T 7/77 (2017.01) G06T 7/60 (2017.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MAGNETIC RESONANCE IMAGING THERMOMETRY**
[54] **METHODE ET APPAREIL POUR THERMOMETRIE D'IMAGERIE PAR RESONANCE MAGNETIQUE**
[72] DROWN, CHRISTINE R., US
[72] WALD, ANDREW, US
[72] VINCELETTE, REBECCA L., US
[72] GRISSOM, WILLIAM A., US
[71] MEDTRONIC NAVIGATION, INC., US
[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019084)
[87] (WO2020/172441)
[30] US (16/282,219) 2019-02-21

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[21] **3,130,978**
[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01)**
[25] EN
[54] **IMPLANTABLE COCHLEAR SYSTEM WITH INTEGRATED COMPONENTS AND LEAD CHARACTERIZATION**

[54] **SYSTEME COCHLEAIRE IMPLANTABLE A COMPOSANTS INTEGRES ET CARACTERISATION PAR FILS ELECTRIQUES**

[72] MAZANEC, PAUL R., US
[72] BECKERLE, TRAVIS MICHAEL, US
[72] EARNEST, TIMOTHY J., US
[72] WHITTINGTON, BENJAMIN R., US
[72] WIBBEN, JOSHUA J., US
[72] JOURNOT, BRICE, US
[71] ENVOY MEDICAL CORPORATION, US
[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019166)
[87] (WO2020/172500)
[30] US (62/808,634) 2019-02-21

[21] **3,130,985**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 21/00 (2006.01) C07K 14/47 (2006.01) C12N 15/12 (2006.01)**

[25] EN
[54] **AMPHIPHYSIN / BIN1 FOR THE TREATMENT OF AUTOSOMAL DOMINANT CENTRONUCLEAR MYOPATHY**

[54] **AMPHIPHYSINE/BIN1 POUR LE TRAITEMENT D'UNE MYOPATHIE CENTRONUCLEAIRE AUTOSOMIQUE DOMINANTE**

[72] LIONELLO, VALENTINA MARIA, IT
[72] LAPORTE, JOCELYN, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE(INSERM), FR
[71] UNIVERSITE DE STRASBOURG, FR
[85] 2021-09-17
[86] 2020-03-20 (PCT/EP2020/057853)
[87] (WO2020/188103)
[30] US (62/820,932) 2019-03-20

[21] **3,130,996**
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) F03B 13/06 (2006.01) F02C 6/00 (2006.01)**

[25] EN
[54] **MOVING AND STORING ENERGY BETWEEN UTILITY'S ENERGY DELIVERY NETWORKS**

[54] **DEPLACEMENT ET STOCKAGE D'ENERGIE ENTRE DES RESEAUX DE DISTRIBUTION D'ENERGIE D'UN SERVICE PUBLIC**

[72] METCALFE, MALCOLM STUART, CA
[72] SANKEY, JOHN TODD, CA
[71] POWER MANAGEMENT HOLDINGS (U.S.), INC., US
[85] 2021-09-17
[86] 2020-03-13 (PCT/IB2020/052326)
[87] (WO2020/188446)
[30] US (62/819,404) 2019-03-15

[21] **3,130,999**
[13] A1

[51] **Int.Cl. B64C 39/02 (2006.01)**

[25] EN
[54] **AUTONOMOUS DRONE DIAGNOSIS**

[54] **DIAGNOSTIC AUTONOME DE DRONE**

[72] GIL, JULIO, NL
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2021-09-17
[86] 2020-05-15 (PCT/US2020/033126)
[87] (WO2020/232352)
[30] US (16/414,400) 2019-05-16

[21] **3,131,000**
[13] A1

[25] EN
[54] **DEVICE FOR SURFACE COVERING**

[54] **DISPOSITIF DE REVETEMENT DE SURFACE**

[72] ABDULBAKI, MANSOUR, US
[72] GORDON, BLAKE, US
[71] LOWE'S COMPANIES, INC., US
[85] 2021-09-17
[86] 2020-03-16 (PCT/IB2020/052358)
[87] (WO2020/188458)
[30] US (62/820,272) 2019-03-19

[21] **3,131,005**
[13] A1

[51] **Int.Cl. F16K 31/44 (2006.01) F16K 27/00 (2006.01)**

[25] EN
[54] **MULTI-DIRECTIONAL TOUCH VALVE**

[54] **VALVE RAPIDE ORIENTABLE**

[72] KAO, CHIH-HUNG, CN
[72] HSIAO, CHIN-YUAN, CN
[71] NEOPERL AG, CH
[85] 2021-08-16
[86] 2020-01-09 (PCT/CN2020/071157)
[87] (WO2020/164342)
[30] CN (201910118818.6) 2019-02-15

[21] **3,131,006**
[13] A1

[51] **Int.Cl. A23L 2/02 (2006.01) A23L 11/00 (2021.01) A23L 19/00 (2016.01) A23L 33/00 (2016.01)**

[25] EN
[54] **COMPOSITIONS COMPRISING CHOLINE AND OMEGA-3 FATTY ACID TO NUTRITIONALLY ENHANCE FOOD PRODUCTS**

[54] **COMPOSITIONS COMPRENANT DE LA CHOLINE ET DE L'ACIDE GRAS OMEGA 3 POUR ENRICHIR NUTRITIONNELLEMENT DES PRODUITS ALIMENTAIRES**

[72] WOLFSON, JONATHAN, US
[72] BROOKS, MARK, US
[72] NOAKES, KATHARINE, US
[71] INGENUITY FOODS, INC., US
[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019354)
[87] (WO2020/172623)
[30] US (62/808,716) 2019-02-21
[30] US (62/808,717) 2019-02-21
[30] US (62/928,285) 2019-10-30

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[21] **3,131,007**
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 47/62 (2017.01) A61K 47/69 (2017.01) A61K 31/7105 (2006.01) A61K 31/713 (2006.01) A61K 39/00 (2006.01) C07K 7/06 (2006.01)**

[25] EN

[54] **PEPTIDE-FUNCTIONALIZED BIODEGRADABLE POLYMERS FOR EFFICIENT DELIVERY OF VARIOUS RNAS**

[54] **POLYMERES BIODEGRADABLES FONCTIONNALISES PAR PEPTIDE POUR LA LIVRAISON EFFICACE DE DIVERS ARN**

[72] GUAN, ZHIBIN, US
[72] YANG, DONGCHU, US
[72] ELDRIDGE, ALEXANDER, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019375)
[87] (WO2020/172642)
[30] US (62/809,550) 2019-02-22

[21] **3,131,008**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) G06Q 10/06 (2012.01) E21B 44/00 (2006.01)**

[25] EN

[54] **EVENT DRIVEN CONTROL SCHEMAS FOR ARTIFICIAL LIFT**

[54] **MODES DE COMMANDE ENTRAINES PAR EVENEMENT POUR ASCENSION ARTIFICIELLE**

[72] CHONG, JONATHAN WUN SHIUNG, US

[72] CHAMBLISS, T. EVERETT, US
[72] HEDLUND, MAGNUS, US
[72] ROSSI, DAVID, US
[72] NGUYEN, NAM, US
[72] YUAN, PENGYU, US
[72] HOEFEL, ALBERT, US
[71] SENSIA LLC, US
[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2021-08-19
[86] 2020-02-20 (PCT/US2020/019090)
[87] (WO2020/172447)
[30] US (62/808,345) 2019-02-21

[21] **3,131,009**
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/00 (2020.01) A24F 40/05 (2020.01) A24F 1/28 (2006.01)**

[25] EN

[54] **CARTRIDGE FOR VAPORIZER**

[54] **CARTOUCHE POUR VAPORISATEUR**

[72] GOLDSTEIN, DAVID, US
[72] GOLDSTEIN, BORIS, US
[71] RYAH MEDTECH, INC., US

[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019212)
[87] (WO2020/172526)
[30] US (62/809,266) 2019-02-22

[21] **3,131,010**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR PRODUCING SOLUTIONS FROM CONCENTRATES**

[54] **SYSTEMES ET PROCEDES DE PRODUCTION DE SOLUTIONS A PARTIR DE CONCENTRES**

[72] GUNIA, NICHOLAS ALEXANDER, US

[72] GUNIA, MATTHEW KARL, US
[72] GUNIA, MARK KURT, US
[71] SUDSENSE, LLC, US

[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019290)
[87] (WO2020/172570)
[30] US (62/808,809) 2019-02-21
[30] US (62/874,138) 2019-07-15

[21] **3,131,011**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 17/00 (2006.01) C07K 16/24 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTI-IL-ALPHA ANTIBODY FOR THE TREATMENT OF HIDRADENITIS SUPPURATIVA**

[54] **ANTICORPS ANTI-IL-ALPHA POUR LE TRAITEMENT DE L'HIDRADENITE SUPPUREE**

[72] GIAMARELLOS-BOURBOULIS, EVANGELOS J., GR

[72] KIM, STANLEY A., US
[71] JANSSEN BIOTECH, INC., US

[85] 2021-08-19
[86] 2020-02-27 (PCT/US2020/020115)
[87] (WO2020/176738)
[30] US (62/811,696) 2019-02-28

[21] **3,131,012**
[13] A1

[51] **Int.Cl. A47J 39/00 (2006.01)**

[25] EN

[54] **AUTOMATED FOOD MANAGEMENT SYSTEM**

[54] **SYSTEME AUTOMATISE DE GESTION D'ALIMENTS**

[72] MINARD, JAMES J., US
[72] NELSON, DENNIS, US
[72] SANDS, JEFFREY L., US
[72] LECLERC, SCOTT A., US
[72] HOTALING, BRYAN R., US
[72] PARKER, SPENCER M., US
[72] NORRIS, CHRIS, US
[72] PAHNKE, CARL, US
[71] TAYLOR COMMERCIAL FOODSERVICE, LLC., US

[85] 2021-08-19
[86] 2020-02-24 (PCT/US2020/019409)
[87] (WO2020/176377)
[30] US (62/810,170) 2019-02-25

[21] **3,131,013**
[13] A1

[51] **Int.Cl. H01R 9/05 (2006.01) H01R 24/38 (2011.01) H01R 24/40 (2011.01) H01R 24/42 (2011.01) H01R 24/54 (2011.01) H01R 43/26 (2006.01)**

[25] EN

[54] **COAXIAL CABLE CONNECTOR SLEEVE WITH CUTOUT**

[54] **MANCHON POUR CONNECTEUR DE CABLE COAXIAL AVEC DECOUPE**

[72] WATKINS, HAROLD J., US
[72] STANKOVSKI, STEVE, US
[72] DAOUST, DANIEL, US
[71] PPC BROADBAND, INC., US

[85] 2021-08-19
[86] 2020-02-24 (PCT/US2020/019558)
[87] (WO2020/172687)
[30] US (62/809,299) 2019-02-22

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[21] **3,131,014**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12N 5/0783 (2010.01) A61K 49/00 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C12P 21/08 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **ANTI-TCR ANTIBODY MOLECULES AND USES THEREOF**

[54] **MOLECULES D'ANTICORPS ANTI-TCR ET LEURS UTILISATIONS**

[72] LOEW, ANDREAS, US

[72] TAN, SENG-LAI, US

[72] HSU, JONATHAN, US

[72] VASH, BRIAN EDWARD, US

[71] MARENGO THERAPEUTICS, INC., US

[85] 2021-08-19

[86] 2020-02-21 (PCT/US2020/019319)

[87] (WO2020/172596)

[30] US (62/808,784) 2019-02-21

[30] US (62/956,871) 2020-01-03

[21] **3,131,016**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL MOLECULES THAT BIND TO CALRETICULIN AND USES THEREOF**

[54] **MOLECULES MULTIFONCTIONNELLES SE LIANT A LA CALRETICULINE ET UTILISATIONS ASSOCIEES**

[72] LOEW, ANDREAS, US

[72] LAMBERTO, IIARIA, US

[72] TAN, SENG-LAI, US

[72] HSU, JONATHAN, US

[72] VASH, BRIAN EDWARD, US

[72] MALHOTRA, NIDHI, US

[72] KATRAGADDA, MADAN, US

[72] HERRMANN, JOHN LEONARD, US

[72] MAIOCCO, STEPHANIE J., US

[71] MARENGO THERAPEUTICS, INC., US

[85] 2021-08-19

[86] 2020-02-21 (PCT/US2020/019324)

[87] (WO2020/172601)

[30] US (62/808,779) 2019-02-21

[30] US (62/818,427) 2019-03-14

[30] US (62/956,866) 2020-01-03

[21] **3,131,017**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/46 (2006.01) C07K 14/465 (2006.01) C12N 1/36 (2006.01)**

[25] EN

[54] **IMMUNOSTIMULATORY BACTERIA ENGINEERED TO COLONIZE TUMORS, TUMOR-RESIDENT IMMUNE CELLS, AND THE TUMOR MICROENVIRONMENT**

[54] **BACTERIES IMMUNOSTIMULATRICES MODIFIEES EN VUE DE COLONISER DES TUMEURS, DES CELLULES IMMUNITAIRES RESIDANT DANS UNE TUMEUR ET LE MICROENVIRONNEMENT TUMORAL**

[72] THANOS, CHRISTOPHER D., US

[72] GLICKMAN, LAURA HIX, US

[72] SKOBLE, JUSTIN, US

[72] IANNELLO, ALEXANDRE CHARLES MICHEL, US

[72] KEHOE, HAIXING, US

[71] ACTYM THERAPEUTICS, INC., US

[85] 2021-08-19

[86] 2020-02-27 (PCT/US2020/020240)

[87] (WO2020/176809)

[30] US (62/811,521) 2019-02-27

[30] US (62/828,990) 2019-04-03

[30] US (62/934,478) 2019-11-12

[30] US (62/962,140) 2020-01-16

[21] **3,131,018**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 16/22 (2019.01)**

[25] EN

[54] **ONLINE TOKENIZATION OF OUTSTANDING DEBT**

[54] **SEGMENTATION EN LIGNE D'UNE DETTE IMPAYEE**

[72] BRADLEY, CHRISTOPHER, GB

[71] GOOD LIFE NETWORKS INC., CA

[85] 2021-08-20

[86] 2019-02-22 (PCT/CA2019/050219)

[87] (WO2019/161504)

[30] US (62/634,333) 2018-02-23

[21] **3,131,019**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **CD33 ANTIBODIES AND METHODS OF USING THE SAME TO TREAT CANCER**

[54] **ANTICORPS ANTI-CD33 ET LEURS PROCEDES D'UTILISATION POUR TRAITER LE CANCER**

[72] CHEUNG, NAI-KONG V., US

[72] HOSEINI, SAYED SHAHABUDDIN, US

[72] AHMED, MAHIUDDIN, US

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[85] 2021-08-19

[86] 2020-02-21 (PCT/US2020/019351)

[87] (WO2020/172621)

[30] US (62/809,091) 2019-02-22

[21] **3,131,021**
[13] A1

[51] **Int.Cl. F16L 3/02 (2006.01) E02D 29/00 (2006.01) F16L 1/00 (2006.01) F16L 1/028 (2006.01) F16L 1/06 (2006.01) F16L 3/00 (2006.01) F16L 3/08 (2006.01) F16L 3/10 (2006.01) F16L 3/12 (2006.01) F16L 7/00 (2006.01)**

[25] EN

[54] **ADJUSTABLE FIXTURES FOR BURIED TUBULARS, FORMING TOOLS FOR DEFINING A HOLE IN THE ADJUSTABLE FIXTURES, AND METHODS OF MANUFACTURING THE ADJUSTABLE FIXTURES**

[54] **FIXATIONS REGLABLES POUR ELEMENTS TUBULAIRES ENTERRES, OUTILS DE FORMATION POUR DELIMITER UN TROU DANS LES FIXATIONS REGLABLES, ET PROCEDES DE FABRICATION DES FIXATIONS REGLABLES**

[72] BARR, AARON, US

[71] BARRCO, INC., US

[85] 2021-08-19

[86] 2020-02-26 (PCT/US2020/019860)

[87] (WO2020/176600)

[30] US (62/811,677) 2019-02-28

[30] US (62/852,902) 2019-05-24

[30] US (16/795,292) 2020-02-19

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[21] **3,131,022**
[13] A1

[51] **Int.Cl. A47B 46/00 (2006.01) A47B 88/453 (2017.01) A47B 51/00 (2006.01)**
[25] EN
[54] **OVERHEAD STOWAGE SYSTEM**
[54] **SYSTEME DE RANGEMENT EN HAUTEUR**
[72] AGHAEI, JOHN, CA
[71] 2557408 ONTARIO LTD., CA
[85] 2021-08-20
[86] 2020-01-23 (PCT/CA2020/050072)
[87] (WO2020/168414)
[30] US (62/809,047) 2019-02-22

[21] **3,131,023**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **OXR1 GENE THERAPY**
[54] **THERAPIE GENIQUE AVEC OXR1**
[72] VOLKERT, MICHAEL R., US
[72] KHANNA, HEMANT, US
[71] UNIVERSITY OF MASSACHUSETTS, US
[85] 2021-08-19
[86] 2020-02-21 (PCT/US2020/019234)
[87] (WO2020/172537)
[30] US (62/809,021) 2019-02-22

[21] **3,131,026**
[13] A1

[51] **Int.Cl. A01M 1/22 (2006.01) G16Z 99/00 (2019.01)**
[25] EN
[54] **INSECT TRAPPING DEVICE**
[54] **DISPOSITIF DE PIEGEAGE D'INSECTES**
[72] WATTS, KEVIN BRADLEY, CA
[71] WATTS, KEVIN BRADLEY, CA
[85] 2021-08-20
[86] 2020-02-17 (PCT/CA2020/050205)
[87] (WO2020/168419)
[30] US (62/809,417) 2019-02-22

[21] **3,131,027**
[13] A1

[51] **Int.Cl. H04N 19/186 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR INTRA PREDICTION USING LINEAR MODEL**
[54] **PROCEDE ET APPAREIL DE PREDICTION INTRA A L'AIDE D'UN MODELE LINEAIRE**
[72] FILIPPOV, ALEXEY
KONSTANTINOVICH, RU
[72] RUFITSKIY, VASILY ALEXEEVICH, RU
[72] CHEN, JIANLE, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-08-20
[86] 2020-02-24 (PCT/CN2020/076466)
[87] (WO2020/169113)
[30] US (62/809,555) 2019-02-22
[30] US (62/825,021) 2019-03-28
[30] US (62/825,796) 2019-03-28

[21] **3,131,028**
[13] A1

[51] **Int.Cl. H04N 19/50 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR AFFINE BASED INTER PREDICTION OF CHROMA SUBBLOCKS**
[54] **PROCEDE ET APPAREIL POUR INTER-PREDICTION A BASE AFFINE DE SOUS-BLOCS DE CHROMINANCE**
[72] RUFITSKIY, VASILY ALEXEEVICH, RU
[72] SOLOVYEV, TIMOFEY MIKHAILOVICH, RU
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, RU
[72] CHEN, JIANLE, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-08-20
[86] 2020-02-24 (PCT/CN2020/076493)
[87] (WO2020/169114)
[30] US (62/809,551) 2019-02-22
[30] US (62/823,653) 2019-03-25
[30] US (62/824,302) 2019-03-26

[21] **3,131,029**
[13] A1

[51] **Int.Cl. H04W 12/02 (2009.01) G06F 21/62 (2013.01)**
[25] EN
[54] **METHOD TO ANONYMIZE CLIENT MAC ADDRESSES FOR CLOUD REPORTING**
[54] **PROCEDE D'ANONYMISATION D'ADRESSES MAC CLIENT POUR RAPPORT EN NUAGE**
[72] LUMBATIS, KURT ALAN, US
[72] HARE, JR., WILLIAM CHARLES, US
[72] NEGAHDAR, ALI, US
[71] ARRIS ENTERPRISES LLC, US
[85] 2021-08-19
[86] 2020-02-28 (PCT/US2020/020376)
[87] (WO2020/176851)
[30] US (62/812,242) 2019-02-28

[21] **3,131,030**
[13] A1

[51] **Int.Cl. B01J 13/06 (2006.01) A23P 10/30 (2016.01) C05G 5/30 (2020.01) A61K 8/11 (2006.01) A61K 9/48 (2006.01) C12N 11/00 (2006.01)**
[25] EN
[54] **LIQUID ENCAPSULATION METHOD AND COMPOSITIONS AND USES RELATED THERETO**
[54] **PROCEDE D'ENCAPSULATION EN LIQUIDE ET COMPOSITIONS ET UTILISATIONS LIEES AUDIT PROCEDE**
[72] MITRA, SUSHANTA, CA
[72] GUNDA, NAGA SIVA KUMAR, CA
[72] MISRA, SIRSHENDU, CA
[72] TRINAVEE, KUMARI, CA
[71] MITRA, SUSHANTA, CA
[71] GUNDA, NAGA SIVA KUMAR, CA
[71] MISRA, SIRSHENDU, CA
[71] TRINAVEE, KUMARI, CA
[85] 2021-08-20
[86] 2020-02-20 (PCT/CA2020/050222)
[87] (WO2020/168432)
[30] IN (201911006813) 2019-02-21
[30] US (62/906,540) 2019-09-26

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[21] **3,131,031**
[13] A1

[51] **Int.Cl. H04N 19/50 (2014.01)**
[25] EN
[54] **IMPROVED WEIGHTING PROCESSING OF COMBINED INTRA-INTER PREDICTION**
[54] **TRAITEMENT AMELIORE DE PONDERATION DE PREDICTION INTRA-INTER COMBINEE**
[72] LIU, HONGBIN, CN
[72] ZHANG, LI, US
[72] ZHANG, KAI, US
[72] XU, JIZHENG, US
[72] WANG, YUE, CN
[72] ZHANG, NA, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[71] BYTEDANCE INC., US
[85] 2021-08-20
[86] 2020-03-23 (PCT/CN2020/080632)
[87] (WO2020/187329)
[30] CN (PCT/CN2019/079148) 2019-03-21
[30] CN (PCT/CN2019/100616) 2019-08-14

[21] **3,131,032**
[13] A1

[51] **Int.Cl. D04B 1/14 (2006.01) D04B 1/16 (2006.01) D04B 1/18 (2006.01)**
[25] EN
[54] **FIRE-RESISTANT DOUBLE-FACED FABRIC OF KNITTED CONSTRUCTION**
[54] **TISSU DOUBLE FACE DE STRUCTURE TRICOTEE RESISTANT AU FEU**
[72] KALANTARI, MAHSA, CA
[72] DOLEZ, PATRICIA, CA
[72] BUCHINSKI, JESSICA, CA
[71] JESS BLACK INC., CA
[85] 2021-08-20
[86] 2020-02-21 (PCT/CA2020/050227)
[87] (WO2020/168437)
[30] US (62/809,420) 2019-02-22

[21] **3,131,033**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **MODIFIED FC FRAGMENT, ANTIBODY COMPRISING SAME, AND APPLICATION THEREOF**
[54] **FRAGMENT FC MODIFIE, ANTICORPS LE COMPRENANT ET SON APPLICATION**
[72] ZHANG, JING, CN
[72] FANG, LIJUAN, CN
[72] YAN, YONGXIANG, CN
[72] ZENG, LIANG, CN
[72] ZHOU, PENGFEI, CN
[71] WUHAN YZY BIOPHARMA CO., LTD., CN
[85] 2021-08-20
[86] 2019-02-22 (PCT/CN2019/075881)
[87] (WO2020/168554)

[21] **3,131,034**
[13] A1

[51] **Int.Cl. C07J 43/00 (2006.01) A61K 31/58 (2006.01) A61P 5/28 (2006.01) A61P 5/46 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ABIRATERONE PRODRUGS**
[54] **PROMEDICAMENTS D'ABIRATERONE**
[72] SHARP, MATTHEW J., US
[72] MOORE, WILLIAM R., US
[71] PROPELLA THERAPEUTICS, INC., US
[85] 2021-08-19
[86] 2020-03-04 (PCT/US2020/020915)
[87] (WO2020/180942)
[30] US (62/814,568) 2019-03-06
[30] US (62/849,259) 2019-05-17

[21] **3,131,035**
[13] A1

[51] **Int.Cl. H04N 19/13 (2014.01) H04N 19/103 (2014.01) H04N 19/159 (2014.01)**
[25] EN
[54] **CODING AND DECODING METHODS, CODER AND DECODER, AND STORAGE MEDIUM**
[54] **METHODES DE CODAGE ET DE DECODAGE, CODEUR-DECODEUR ET SUPPORT DE STOCKAGE**
[72] CAO, XIAOQIANG, CN
[72] CHEN, FANGDONG, CN
[72] WANG, LI, CN
[71] HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., CN
[85] 2021-08-20
[86] 2020-03-09 (PCT/CN2020/078486)
[87] (WO2020/182102)
[30] CN (201910177580.4) 2019-03-09

[21] **3,131,036**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **CD3 ANTIGEN-BINDING FRAGMENT AND APPLICATION THEREOF**
[54] **FRAGMENT DE LIAISON A L'ANTIGENE CD3 ET APPLICATION DE CELUI-CI**
[72] ZHANG, JING, CN
[72] FANG, LIJUAN, CN
[72] YAN, YONGXIANG, CN
[72] ZENG, LIANG, CN
[72] ZHOU, PENGFEI, CN
[71] WUHAN YZY BIOPHARMA CO., LTD., CN
[85] 2021-08-20
[86] 2019-02-22 (PCT/CN2019/075901)
[87] (WO2020/168555)

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[21] **3,131,039**
[13] A1

[51] **Int.Cl. H04L 1/12 (2006.01) H04L 1/00 (2006.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**
[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS, DISPOSITIF TERMINAL, ET DISPOSITIF DE RESEAU**
[72] ZHAO, ZHENSHAN, CN
[72] LU, QIANXI, CN
[72] LIN, HUEI-MING, AU
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-08-20
[86] 2019-02-22 (PCT/CN2019/075958)
[87] (WO2020/168574)

[21] **3,131,040**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06F 17/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPTIMIZING AN OBJECTIVE HAVING DISCRETE CONSTRAINTS**
[54] **PROCEDE ET SYSTEME D'OPTIMISATION D'UN OBJECTIF A CONTRAINTES DISCRETES**
[72] KENG, BRIAN, CA
[72] GOLOB, ANNEYA, CA
[72] HE, YIFENG, CA
[71] KINAXIS INC., CA
[85] 2021-08-20
[86] 2021-01-20 (PCT/CA2021/050057)
[87] (WO2021/146802)
[30] US (62/963,762) 2020-01-21

[21] **3,131,042**
[13] A1

[51] **Int.Cl. A47K 10/36 (2006.01) A47K 10/42 (2006.01)**
[25] EN
[54] **DISPENSER FOR DISPENSING SHEET PRODUCTS**
[54] **DISTRIBUTEUR DESTINE A DISTRIBUER DES PRODUITS EN FEUILLES**
[72] MOLLER, PER, SE
[72] WALHEIM, KARL, SE
[72] THOREN, LARS, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2021-08-20
[86] 2019-03-11 (PCT/EP2019/055970)
[87] (WO2020/182283)

[21] **3,131,043**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06F 40/205 (2020.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACE FOR EMAIL FILE CONTENT**
[54] **INTERFACE UTILISATEUR GRAPHIQUE D'UN CONTENU DE FICHER DE COURRIER ELECTRONIQUE**
[72] ZHANG, JINREN, CN
[72] CAO, LEI, CN
[71] CITRIX SYSTEMS, INC., US
[85] 2021-08-20
[86] 2019-12-06 (PCT/CN2019/123473)
[87] (WO2021/109097)

[21] **3,131,044**
[13] A1

[51] **Int.Cl. A47K 10/36 (2006.01) A47K 10/42 (2006.01)**
[25] EN
[54] **DISPENSER INSERT FOR DISPENSING SHEET PRODUCTS**
[54] **INSERT DE DISTRIBUTEUR DESTINE A DISTRIBUER DES PRODUITS EN FEUILLES**
[72] MOLLER, PER, SE
[72] WALHEIM, KARL, SE
[72] THOREN, LARS, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2021-08-20
[86] 2019-03-11 (PCT/EP2019/055972)
[87] (WO2020/182284)

[21] **3,131,046**
[13] A1

[25] EN
[54] **USER PLANE PATH SELECTION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE SELECTION DE TRAJET DE PLAN UTILISATEUR**
[72] CHONG, WEIWEI, CN
[72] WU, XIAOBO, CN
[72] XIN, YANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-08-20
[86] 2020-02-21 (PCT/CN2020/076221)
[87] (WO2020/169086)
[30] CN (201910133914.8) 2019-02-22

[21] **3,131,048**
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01)**
[25] EN
[54] **CUFF ELECTRODE OR OPTRODE COMPRISING A HANDLING FLAP**
[54] **ELECTRODE SOUPLE OU OPTRODE COMPRENANT UN RABAT DE MANIPULATION**
[72] DOGUET, PASCAL, BE
[72] DAUTREBANDE, MARIE, BE
[72] LEONARD, CATHERINE, BE
[72] GODFRAIND, CARMEN, BE
[72] NIEUWENHUYTS, AURORE, BE
[71] SYNERGIA MEDICAL, BE
[85] 2021-08-20
[86] 2019-03-11 (PCT/EP2019/056051)
[87] (WO2020/182293)

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[21] **3,131,050**
[13] A1

[51] **Int.Cl. G01N 19/00 (2006.01) G01M 3/04 (2006.01)**
[25] EN
[54] **APPARATUS, METHOD AND SYSTEM FOR DETECTING PRESENCE OF A FLUID**
[54] **APPAREIL, PROCEDE ET SYSTEME POUR DETECTER LA PRESENCE D'UN FLUIDE**
[72] HNATOVSKY, CYRIL, CA
[72] GROBNIC, DAN, CA
[72] MIHAJLOV, STEPHEN J., CA
[72] LU, PING, CA
[72] DE SILVA, KASTHURI, CA
[72] DING, HUIMIN, CA
[72] COULAS, DAVID, CA
[72] WALKER, ROBERT B., CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2021-08-20
[86] 2020-01-10 (PCT/IB2020/050187)
[87] (WO2020/170047)
[30] US (62/809,092) 2019-02-22

[21] **3,131,051**
[13] A1

[51] **Int.Cl. A41D 11/00 (2006.01) A47G 9/08 (2006.01) A61F 5/37 (2006.01)**
[25] EN
[54] **WEARABLE BLANKET WITH DISTRIBUTED WEIGHT SYSTEM**
[54] **COUVERTURE POUVANT ETRE PORTEE AVEC SYSTEME DE POIDS DISTRIBUE**
[72] WILLIAMS, TARA, US
[71] DREAMLAND BABY CO., US
[85] 2021-08-20
[86] 2019-12-19 (PCT/IB2019/001362)
[87] (WO2020/136436)
[30] US (62/783,191) 2018-12-20
[30] US (16/664,941) 2019-10-27

[21] **3,131,053**
[13] A1

[51] **Int.Cl. G07D 7/12 (2016.01)**
[25] EN
[54] **METHOD FOR AUTHENTICATING A MAGNETICALLY INDUCED MARK WITH A PORTABLE DEVICE**
[54] **PROCEDE D'AUTHENTIFICATION D'UNE MARQUE INDUITE MAGNETIQUEMENT AVEC UN DISPOSITIF PORTABLE**
[72] DINOEV, TODOR, CH
[72] DORIER, JEAN-LUC, CH
[72] HALASZ, EDMUND, CH
[72] LOGINOV, EVGENY, CH
[72] DESPLAND, CLAUDE-ALAIN, CH
[72] CALLEGARI, ANDREA, CH
[71] SICPA HOLDING SA, CH
[85] 2021-08-20
[86] 2020-02-10 (PCT/EP2020/053331)
[87] (WO2020/173693)
[30] EP (19160146.7) 2019-02-28

[21] **3,131,055**
[13] A1

[51] **Int.Cl. E04B 2/96 (2006.01)**
[25] EN
[54] **CURTAIN WALL**
[54] **MUR-RIDEAU**
[72] CLAEYS, STEPHANIE CATHARINA R., BE
[72] CLAEYS, LAURENS LEONARD J., BE
[72] CLAEYS, NAUSIKAA ELS P., BE
[71] CLAEYS, STEPHANIE CATHARINA R., BE
[71] CLAEYS, LAURENS LEONARD J., BE
[71] CLAEYS, NAUSIKAA ELS P., BE
[85] 2021-08-20
[86] 2020-03-13 (PCT/IB2020/052277)
[87] (WO2020/188431)
[30] US (62/818,821) 2019-03-15
[30] BE (2019/5399) 2019-06-19

[21] **3,131,056**
[13] A1

[51] **Int.Cl. E01F 15/04 (2006.01) E05F 15/40 (2015.01) G08G 1/01 (2006.01) G01B 7/16 (2006.01) G01H 11/08 (2006.01)**
[25] EN
[54] **A ROAD SAFETY BARRIER ASSEMBLY FOR DETECTING AN IMPACT OF A VEHICLE**
[54] **ENSEMBLE BARRIERE DE SECURITE ROUTIERE POUR LA DETECTION D'UN IMPACT D'UN VEHICULE**
[72] IMPERO, PASQUALE, IT
[71] IMPERO, PASQUALE, IT
[85] 2021-08-20
[86] 2020-02-20 (PCT/IB2020/051432)
[87] (WO2020/170191)
[30] IT (102019000002501) 2019-02-21

[21] **3,131,058**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G06Q 10/08 (2012.01) G16H 40/00 (2018.01) G06T 7/00 (2017.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHODS FOR MANAGEMENT OF MEDICAL SUPPLIES**
[54] **APPAREIL, SYSTEME ET PROCEDES DE GESTION DE FOURNITURES MEDICALES**
[72] MATITYAHO, SHLOMO, IL
[71] IDENTI HEALTHCARE LTD., IL
[85] 2021-08-20
[86] 2020-02-20 (PCT/IL2020/050186)
[87] (WO2020/170250)
[30] US (62/809,102) 2019-02-22

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[21] **3,131,059**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 45/06 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **IMIDAZOPYRIDINYL COMPOUNDS AND USE THEREOF FOR TREATMENT OF NEURODEGENERATIVE DISORDERS**

[54] **COMPOSES D'IMIDAZOPYRIDINYLE ET LEUR UTILISATION POUR LE TRAITEMENT DE TROUBLES NEURODEGENERATIFS**

[72] LEE, JINHWHA, KR
[72] JO, SUYEON, KR
[72] LIM, KEONSEUNG, KR
[72] PARK, A YEONG, KR
[72] KIM, JAE EUN, KR
[72] KIM, MISOOON, KR
[72] LIM, SEUNG MOOK, KR
[71] 1ST BIOTHERAPEUTICS, INC., KR
[85] 2021-08-20
[86] 2020-02-21 (PCT/IB2020/051469)
[87] (WO2020/170205)
[30] US (62/809,230) 2019-02-22

[21] **3,131,061**
[13] A1

[51] **Int.Cl. B29C 45/00 (2006.01) B29B 11/08 (2006.01)**

[25] EN

[54] **BARRIERS FOR INJECTION MOLDED PLASTIC PREFORMS OR CONTAINERS AND INJECTION MOLDED PLASTIC PREFORMS OR CONTAINERS MADE THEREWITH**

[54] **BARRIERES POUR PREFORMES OU RECIPIENTS EN PLASTIQUE MOULES PAR INJECTION ET PREFORMES OU RECIPIENTS EN PLASTIQUE MOULES PAR INJECTION FABRIQUES AVEC CELLES-CI**

[72] MICHIELS, YOURI, BE
[71] PLASTIPAK BELGIUM BVBA, BE
[85] 2021-08-20
[86] 2020-02-21 (PCT/IB2020/051477)
[87] (WO2020/170209)
[30] US (62/809,095) 2019-02-22
[30] US (62/809,114) 2019-02-22

[21] **3,131,062**
[13] A1

[51] **Int.Cl. H04W 12/00 (2021.01) H04W 12/06 (2021.01) G06Q 20/32 (2012.01) G06F 21/36 (2013.01) B42D 25/00 (2014.01) B42D 25/36 (2014.01) B42D 25/369 (2014.01) B42D 25/378 (2014.01) B05D 3/00 (2006.01) G06K 19/06 (2006.01) G06K 19/12 (2006.01) H04L 9/32 (2006.01)**

[25] EN

[54] **VERIFIABLE ACCESS CREDENTIAL**

[54] **JUSTIFICATIF D'IDENTITE D'ACCES VERIFIABLE**

[72] DORIER, JEAN-LUC, CH
[72] DINOEV, TODOR, CH
[72] LOGINOV, EVGENY, CH
[72] FANKHAUSER, CATHERINE, CH
[72] NICOLOV, KALIN, CH
[72] SUICHIES, BART, CH
[72] DESPLAND, CLAUDE-ALAIN, CH
[72] CALLEGARI, ANDREA, CH
[71] SICPA HOLDING SA, CH
[85] 2021-08-20
[86] 2020-02-10 (PCT/EP2020/053354)
[87] (WO2020/173696)
[30] EP (19160137.6) 2019-02-28

[21] **3,131,063**
[13] A1

[51] **Int.Cl. A23L 7/17 (2016.01) A23L 33/185 (2016.01)**

[25] EN

[54] **FOOD COMPOSITION COMPRISING LOW FAT, HEMP PROTEIN, AND NON HEMP PROTEIN AND METHOD OF PREPARING IT AS EXPANDED FOOD COMPOSITION**

[54] **COMPOSITION ALIMENTAIRE AYANT UNE FAIBLE TENEUR EN MATIERE GRASSE ET COMPRENANT UNE PROTEINE DE CHANVRE ET UNE PROTEINE NON ISSUE DE CHANVRE ET SON PROCEDE DE PREPARATION SOUS FORME DE COMPOSITION ALIMENTAIRE EXPANSEE**

[72] CASPER, JEFFREY L., US
[72] MAHESHWARI, PEEYUSH, US
[71] MANITOBA HARVEST USA, LLC, US
[85] 2021-08-19
[86] 2020-03-06 (PCT/US2020/021366)
[87] (WO2020/181181)
[30] US (62/814,427) 2019-03-06

[21] **3,131,064**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12Q 1/6886 (2018.01) A61K 31/454 (2006.01) A61K 31/573 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS OF TREATING NEWLY DIAGNOSED MULTIPLE MYELOMA WITH A COMBINATION OF AN ANTIBODY THAT SPECIFICALLY BINDS CD38, LENALIDOMIDE AND DEXAMETHASONE**

[54] **PROCEDES DE TRAITEMENT D'UN MYELOME MULTIPLE NOUVELLEMENT DIAGNOSTIQUE AVEC UNE ASSOCIATION D'UN ANTICORPS QUI SE LIE SPECIFIQUEMENT A CD38, DE LENALIDOMIDE ET DE DEXAMETHASONE**

[72] QI, MING, US
[71] JANSSEN BIOTECH, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/IB2020/051484)
[87] (WO2020/170211)
[30] US (62/809,070) 2019-02-22
[30] US (62/829,791) 2019-04-05
[30] US (62/829,804) 2019-04-05
[30] US (62/829,814) 2019-04-05

Demandes PCT entrant en phase nationale

[21] **3,131,065**
[13] A1

[51] **Int.Cl. G01N 33/579 (2006.01) G01N 21/27 (2006.01) G01N 21/29 (2006.01) G01N 21/59 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR VISUALIZATION OF ENDOTOXINS IN A FLUID SAMPLE**

[54] **PROCEDE ET SYSTEME DE VISUALISATION D'ENDOTOXINES DANS UN ECHANTILLON LIQUIDE**

[72] LEDRU, SUKMI, US

[72] FRANASZCZUK, KRZYSZTOF, US

[72] MANLEY, JESSE, US

[72] KREMER, DAVID, US

[72] PANUGANTI, VAMSI, US

[72] TEAGUE, JEREMIAH, US

[72] LE, YAN, US

[72] SCAER, MICHAEL, US

[71] BL TECHNOLOGIES, INC., US

[85] 2021-08-19

[86] 2020-03-09 (PCT/US2020/021642)

[87] (WO2020/185646)

[30] US (62/815,716) 2019-03-08

[30] US (62/826,253) 2019-03-29

[30] US (62/826,355) 2019-03-29

[21] **3,131,067**
[13] A1

[51] **Int.Cl. G01R 33/035 (2006.01) G01R 33/00 (2006.01)**

[25] EN

[54] **MAGNETIC FIELD MEASURING APPARATUS AND MAGNETIC FIELD MEASURING METHOD**

[54] **APPAREIL DE MESURE DE CHAMP MAGNETIQUE ET PROCEDE DE MESURE DE CHAMP MAGNETIQUE**

[72] YASUI, TAKASHI, JP

[71] RICOH COMPANY, LTD., JP

[85] 2021-08-20

[86] 2020-03-16 (PCT/JP2020/011542)

[87] (WO2020/189643)

[30] JP (2019-052514) 2019-03-20

[21] **3,131,068**
[13] A1

[51] **Int.Cl. F16C 33/60 (2006.01) F16C 35/067 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR REPLACING A USED BEARING, IN PARTICULAR FOR REPLACING A MAIN BEARING OF A WIND TURBINE, AND BEARING ARRANGEMENT IN PARTICULAR OF A WIND TURBINE**

[54] **PROCEDE ET DISPOSITIF DE REMPLACEMENT D'UN PALIER USAGE, EN PARTICULIER DE REMPLACEMENT D'UN PALIER PRINCIPAL D'UNE EOLIENNE, AINSI QU'ENSEMBLE DE PALIERS EN PARTICULIER D'UNE EOL IENNE**

[72] PURUCKER, MICHAEL, DE

[71] EOLOTEC GMBH, DE

[85] 2021-08-20

[86] 2020-02-20 (PCT/EP2020/054532)

[87] (WO2020/169762)

[30] DE (10 2019 202 449.1) 2019-02-22

[21] **3,131,069**
[13] A1

[51] **Int.Cl. A61B 6/00 (2006.01) G16H 50/20 (2018.01) G06T 7/00 (2017.01) G06T 15/00 (2011.01)**

[25] EN

[54] **MODELING REGIONS OF INTEREST OF AN ANATOMIC STRUCTURE**

[54] **MODELISATION DE REGIONS D'INTERET D'UNE STRUCTURE ANATOMIQUE**

[72] HOLLADAY, MATTHEW, US

[72] GOEL, VIKASH, US

[72] HUDSON, ROBERT CRAIG, US

[71] CENTERLINE BIOMEDICAL, INC., US

[85] 2021-08-19

[86] 2020-04-03 (PCT/US2020/026699)

[87] (WO2020/206338)

[30] US (62/829,378) 2019-04-04

[21] **3,131,070**
[13] A1

[51] **Int.Cl. G02B 27/10 (2006.01) G02B 17/08 (2006.01) G02B 27/42 (2006.01) H01S 5/40 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES AND METHODS FOR OPTICAL BEAM COMBINING**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE COMBINAISON DE FAISCEAUX OPTIQUES**

[72] SCHIFFER, ZEEV, IL

[72] LEVY, DANIEL, IL

[72] MAROM, RAN ZVI, IL

[71] ELBIT SYSTEMS ELECTRO-OPTICS ELOP LTD., IL

[85] 2021-08-20

[86] 2020-02-23 (PCT/IL2020/050195)

[87] (WO2020/174461)

[30] IL (265027) 2019-02-25

[30] IL (271130) 2019-12-02

[21] **3,131,071**
[13] A1

[51] **Int.Cl. A61B 6/00 (2006.01) A61B 34/20 (2016.01) A61B 90/00 (2016.01) A61B 6/03 (2006.01)**

[25] EN

[54] **SPATIAL REGISTRATION OF TRACKING SYSTEM WITH AN IMAGE USING TWO-DIMENSIONAL IMAGE PROJECTIONS**

[54] **RECALAGE SPATIAL D'UN SYSTEME DE SUIVI AVEC UNE IMAGE A L'AIDE DE PROJECTIONS D'IMAGES BIDIMENSIONNELLES**

[72] HOLLADAY, MATTHEW, US

[72] GOEL, VIKASH, US

[71] CENTERLINE BIOMEDICAL, INC., US

[85] 2021-08-19

[86] 2020-04-06 (PCT/US2020/026865)

[87] (WO2020/206421)

[30] US (62/829,394) 2019-04-04

PCT Applications Entering the National Phase

[21] **3,131,072**
[13] A1

[51] **Int.Cl. A23C 9/152 (2006.01) A23L 33/19 (2016.01) A23C 21/08 (2006.01) A23J 3/08 (2006.01) A23L 2/38 (2021.01) A23L 2/39 (2006.01) A23L 2/66 (2006.01)**

[25] EN

[54] **MILK PROTEIN-CONTAINING GRANULAR COMPOSITION, METHOD FOR PRODUCING SAME, AND METHOD FOR IMPROVING DISPERSION PROPERTIES OF MILK PROTEIN-CONTAINING GRANULAR COMPOSITION**

[54] **COMPOSITION GRANULEUSE COMPRENANT UNE PROTEINE DERIVEE DU LAIT AINSI QUE PROCEDE DE FABRICATION DE CELLE-CI, ET PROCEDE AMELIORANT LA DISPERSABILITE DE CETTE COMPOSITION GRANULEUSE**

[72] HASEBE, KYOKO, JP
[72] MATSUI, NORIKO, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2021-08-20
[86] 2020-02-18 (PCT/JP2020/006290)
[87] (WO2020/171068)
[30] JP (2019-028603) 2019-02-20

[21] **3,131,074**
[13] A1

[51] **Int.Cl. E21B 36/00 (2006.01) E21B 36/04 (2006.01) E21B 43/24 (2006.01) E21B 47/01 (2012.01)**

[25] EN

[54] **HEAT TRANSFER PREVENTION METHOD FOR WELLBORE HEATING SYSTEM**

[54] **PROCEDE DE PREVENTION DE TRANSFERT DE CHALEUR POUR SYSTEME DE CHAUFFAGE DE Puits de forage**

[72] HANSEN, HENNING, NO
[72] GUDMESTAD, TARALD, NO
[71] AARBAKKE INNOVATION AS, NO
[85] 2021-07-19
[86] 2019-11-20 (PCT/IB2019/059994)
[87] (WO2020/157555)
[30] US (62/798,286) 2019-01-29

[21] **3,131,076**
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01)**

[25] EN

[54] **STROKE MONITORING**

[54] **SURVEILLANCE D'UN AVC**

[72] ABBOSH, AMIN, AU
[72] AFSARI, ARMAN, AU
[71] EMVISION MEDICAL DEVICES LTD, AU
[85] 2021-08-20
[86] 2020-03-04 (PCT/AU2020/050201)
[87] (WO2020/176940)
[30] AU (2019900703) 2019-03-04

[21] **3,131,077**
[13] A1

[51] **Int.Cl. A45D 1/02 (2006.01) A45D 1/06 (2006.01) A45D 2/00 (2006.01) A45D 20/00 (2006.01) A45D 20/04 (2006.01) A45D 20/10 (2006.01)**

[25] EN

[54] **HAIR STYLING DEVICE**

[54] **DISPOSITIF DE COIFFURE**

[72] DEBENEDICTIS, ALFREDO, GB
[72] HOLLAND, JANUSZ LUCIEN, GB
[72] HUGHES, MARK CHRISTOPHER, GB
[72] HARRIS, MARTIN MALCOLM, GB
[72] NELSON, JAMES ROBERT, GB
[72] SOREN, SURAJ, GB
[71] JAPHAM GROUP LIMITED, GB
[85] 2021-08-20
[86] 2020-02-24 (PCT/EP2020/054791)
[87] (WO2020/169849)
[30] GB (1902443.9) 2019-02-22

[21] **3,131,078**
[13] A1

[51] **Int.Cl. B60Q 1/38 (2006.01)**

[25] EN

[54] **WORK SITE MANAGEMENT SYSTEM AND WORK SITE MANAGEMENT METHOD**

[54] **SYSTEME DE GESTION POUR SITE DE TRAVAIL ET PROCEDE DE GESTION POUR SITE DE TRAVAIL**

[72] YAMAMOTO, TAKASHI, JP
[72] HIRANAKA, TAKASHI, JP
[72] OSAGAWA, KENTA, JP
[71] KOMATSU LTD., JP
[85] 2021-08-20
[86] 2020-03-19 (PCT/JP2020/012276)
[87] (WO2020/189758)
[30] JP (2019-053885) 2019-03-20

[21] **3,131,080**
[13] A1

[51] **Int.Cl. G01V 1/13 (2006.01) G01V 1/04 (2006.01) G01V 1/28 (2006.01)**

[25] EN

[54] **METHOD FOR IMPROVING 2D SEISMIC ACQUISITION**

[54] **PROCEDE D'AMELIORATION D'ACQUISITION SISMIQUE 2D**

[72] MICHELON, DIOGO, BR
[72] LUIZ CALDEIRA, JOAO, BR
[72] BALDANZA RIBEIRO, ROBERTO, BR
[72] NETO, ENEAS, BR
[72] SILVEIRA DE MIRANDA, FREDERICO, BR
[71] ENEVA S.A., BR
[85] 2021-08-20
[86] 2020-02-20 (PCT/BR2020/050051)
[87] (WO2020/168406)
[30] BR (BR 1020190034653) 2019-02-20

[21] **3,131,081**
[13] A1

[51] **Int.Cl. B25J 5/02 (2006.01) B23Q 1/25 (2006.01) B66C 17/06 (2006.01)**

[25] FR

[54] **HANDLING DEVICE INTENDED TO TRANSPORT AN INTERVENTION TOOL FOR AN ELECTROLYTIC CELL**

[54] **DISPOSITIF DE MANUTENTION DESTINE A CONVOYER UN OUTIL D'INTERVENTION SUR UNE CUVE D'ELECTROLYSE**

[72] BRUN, FREDERIC, CA
[72] RENAUDIER, STEEVE, FR
[71] RIO TINTO ALCAN INTERNATIONAL LIMITEE, CA
[85] 2021-08-20
[86] 2020-03-11 (PCT/CA2020/050325)
[87] (WO2020/181380)
[30] FR (19/02640) 2019-03-14

Demandes PCT entrant en phase nationale

[21] **3,131,082**
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING NEUROLOGICAL DISEASES**
[54] **COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT DE MALADIES NEUROLOGIQUES**
[72] YOO, SANG KU, KR
[72] KIM, JI YOUNG, KR
[72] JO, IN GEUN, KR
[72] KIM, KYUNG II, KR
[72] PARK, YUN SUN, KR
[71] GLACEUM INC., KR
[85] 2021-08-20
[86] 2020-02-28 (PCT/KR2020/002907)
[87] (WO2020/175962)
[30] KR (10-2019-0024024) 2019-02-28

[21] **3,131,084**
[13] A1

[51] **Int.Cl. H04W 8/24 (2009.01)**
[25] EN
[54] **TERMINAL CAPABILITY DETERMINATION METHOD AND DEVICE, AND TERMINAL**
[54] **PROCEDE ET DISPOSITIF DE DETERMINATION DE FONCTIONNALITES DE TERMINAL, ET TERMINAL**
[72] WANG, SHUKUN, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-06-04
[86] 2019-05-10 (PCT/CN2019/086451)
[87] (WO2020/227860)

[21] **3,131,085**
[13] A1

[51] **Int.Cl. C02F 1/68 (2006.01) A23L 33/10 (2016.01) A61K 33/00 (2006.01) A61K 47/12 (2006.01) A61P 3/02 (2006.01) C05D 9/00 (2006.01) C05F 11/00 (2006.01)**
[25] EN
[54] **SILICON ION COMPLEX ORGANIZED WITH CARBOXYLIC ACID, PREPARATION METHOD FOR SILICON ION COMPLEX, AND PRODUCT USING THE SAME**
[54] **COMPLEXE D'IONS DE SILICIUM ORGANISE AVEC DE L'ACIDE CARBOXYLIQUE, PROCEDE DE FABRICATION DU COMPLEXE ET PRODUIT L'UTILISANT**
[72] YOON, JONG OH, KR
[71] KOREA NEW TECHNOLOGY CO.,LTD., KR
[71] YOON, JONG OH, KR
[85] 2021-08-20
[86] 2020-04-23 (PCT/KR2020/005343)
[87] (WO2020/218834)
[30] KR (10-2019-0047830) 2019-04-24
[30] KR (10-2020-0025022) 2020-02-28

[21] **3,131,086**
[13] A1

[51] **Int.Cl. G09B 9/04 (2006.01)**
[25] EN
[54] **OPTIMISED DEVICE FOR SIMULATING DRIVING EXPERIENCES**
[54] **DISPOSITIF OPTIMISE POUR SIMULER DES EXPERIENCES DE CONDUITE**
[72] BORTOLON, RICCARDO, CH
[71] CRESNO SA, CH
[85] 2021-09-16
[86] 2019-12-10 (PCT/IB2019/060602)
[87] (WO2020/121185)
[30] IT (202018000003923) 2018-12-12

[21] **3,131,087**
[13] A1

[51] **Int.Cl. B01D 46/54 (2006.01) B01D 33/00 (2006.01) B01D 45/00 (2006.01) B01D 46/26 (2006.01) F24F 3/00 (2006.01)**
[25] EN
[54] **AIR FILTER DEVICE**
[54] **DISPOSITIF DE FILTRE A AIR**
[72] GULLIKSEN, MORTEN, NO
[71] PEAKVENT AS, NO
[85] 2021-08-20
[86] 2020-02-21 (PCT/NO2020/050047)
[87] (WO2020/171718)
[30] NO (20190246) 2019-02-22
[30] NO (20190522) 2019-04-17
[30] NO (20190732) 2019-06-14
[30] NO (20191358) 2019-11-15

[21] **3,131,089**
[13] A1

[51] **Int.Cl. A43B 3/26 (2006.01) A43B 13/14 (2006.01) A43B 13/22 (2006.01) A43B 23/02 (2006.01)**
[25] EN
[54] **SLIP RESISTANT EXPANSION OVERSHOE**
[54] **SURCHAUSSURE ANTIDERAPANTE A EXPANSION**
[72] CRARY, NATHAN, US
[72] PULLI, KYLE, US
[71] SHOES FOR CREWS, LLC, US
[85] 2021-08-21
[86] 2020-02-28 (PCT/US2020/020285)
[87] (WO2020/176827)
[30] US (62/811,860) 2019-02-28

PCT Applications Entering the National Phase

[21] **3,131,091**
[13] A1

[51] **Int.Cl. B01J 19/12 (2006.01)**
[25] EN
[54] **METHOD FOR DIRECTLY REDUCING A MATERIAL BY MEANS OF MICROWAVE RADIATION**

[54] **PROCEDE DE REDUCTION DIRECTE D'UN MATERIAU PAR RAYONNEMENT MICRO-ONDES**

[72] SERRA ALFARO, JOSE MANUEL, ES
[72] CATALA CIVERA, JOSE MANUEL, ES
[72] GARCIA BANOS, BEATRIZ, ES
[72] BORRAS MORELL, JUAN FRANCISCO, ES
[72] NAVARRETE ALGABA, LAURA, ES
[71] UNIVERSITAT POLITECNICA DE VALENCIA, ES
[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC), ES
[85] 2021-08-20
[86] 2020-02-28 (PCT/ES2020/070146)
[87] (WO2020/174118)
[30] ES (P201930189) 2019-02-28

[21] **3,131,092**
[13] A1

[51] **Int.Cl. E21B 4/18 (2006.01) E21B 23/01 (2006.01) E21B 29/00 (2006.01) E21B 29/02 (2006.01) E21B 29/06 (2006.01)**
[25] EN
[54] **METHOD TO LONGITUDINALLY AND CIRCUMFERENTIAL CUT OUT AND REMOVE A SECTION OF A WELLBORE TUBULAR**

[54] **PROCEDE DE DECOUPE LONGITUDINALE ET CIRCONFERENCELLE ET D'ENLEVEMENT D'UNE SECTION D'UN ELEMENT TUBULAIRE DE Puits de forage**

[72] HANSEN, HENNING, NO
[72] GUDMESTAD, TARALD, NO
[72] SHAFIEE, LUQMANUL, MY
[72] RAHMAN, SITI, MY
[71] AARBAKKE INNOVATION, A.S., NO
[71] PETROLIAM NASIONAL BERHAD, MY
[85] 2021-09-16
[86] 2020-03-17 (PCT/IB2020/052426)
[87] (WO2020/188481)
[30] US (62/819,824) 2019-03-18

[21] **3,131,093**
[13] A1

[51] **Int.Cl. E05B 15/06 (2006.01) E05B 21/06 (2006.01)**
[25] EN
[54] **DISC TUMBLER CYLINDER LOCK AND KEY COMBINATION**

[54] **COMBINAISON CLE ET SERRURE A CYLINDRE A GACHETTE A DISQUE**

[72] KINNUNEN, KEIJO, FI
[72] TIRKKONEN, JOUNI, FI
[71] ABLOY OY, FI
[85] 2021-08-20
[86] 2020-02-28 (PCT/FI2020/050127)
[87] (WO2020/178478)
[30] FI (20195157) 2019-03-05

[21] **3,131,095**
[13] A1

[51] **Int.Cl. F16B 5/06 (2006.01) F16B 11/00 (2006.01) B64C 1/06 (2006.01)**
[25] EN
[54] **JOINT STRUCTURE AND ASSEMBLY METHOD FOR SAME**

[54] **DISPOSITIF DE JOINT ET PROCEDE D'ASSEMBLAGE POUR CE DERNIER**

[72] HARADA, TAKASHI, JP
[72] SHIGENARI, YU, JP
[72] OKUMURA, IKUO, JP
[72] AKIMOTO, TOYOHARU, JP
[71] IHI AEROSPACE CO., LTD., JP
[85] 2021-09-16
[86] 2019-04-12 (PCT/JP2019/015923)
[87] (WO2020/208802)

[21] **3,131,097**
[13] A1

[51] **Int.Cl. C09K 8/38 (2006.01) C09K 8/42 (2006.01)**
[25] EN
[54] **GAS GENERATING COMPOSITIONS**

[54] **COMPOSITIONS GENERATRICES DE GAZ**

[72] REDDY, B. RAGHAVA, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019181)
[87] (WO2020/172511)
[30] US (16/282,245) 2019-02-21

[21] **3,131,099**
[13] A1

[51] **Int.Cl. C08L 5/00 (2006.01) B65D 65/46 (2006.01) C08J 3/075 (2006.01) C08J 3/20 (2006.01) C08L 1/28 (2006.01)**
[25] EN
[54] **BIODEGRADABLE COMPOSITION**

[54] **COMPOSITION BIODEGRADABLE**

[72] DUNDAR FIELD, AYCA, GB
[71] SOLUBLUE LTD, GB
[85] 2021-08-20
[86] 2020-02-26 (PCT/GB2020/050455)
[87] (WO2020/174234)
[30] GB (1902558.4) 2019-02-26

[21] **3,131,101**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **MULTI-FIBER REEL AND ADAPTER ASSEMBLY**

[54] **ENSEMBLE BOBINE ET ADAPTEUR A FIBRES MULTIPLES**

[72] MONTENA, NOAH P., US
[72] CARAPPELLA, PETER, US
[72] ADAMS, CAMERON J., US
[71] PPC BROADBAND, INC., US
[85] 2021-09-16
[86] 2020-03-23 (PCT/US2020/024337)
[87] (WO2020/191412)
[30] US (62/821,951) 2019-03-21

[21] **3,131,103**
[13] A1

[51] **Int.Cl. B29C 45/00 (2006.01) A61F 2/24 (2006.01) B29C 45/16 (2006.01)**
[25] EN
[54] **HEART VALVE**

[54] **VALVULE CARDIAQUE**

[72] ASCIONE, RAIMONDO, GB
[72] MOGGRIDGE, GEOFF, GB
[72] STASIAK, JOANNA, GB
[72] SERRANI, MARTA, GB
[72] BIRAL, EUGENIA, GB
[71] THE UNIVERSITY OF BRISTOL, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2021-08-20
[86] 2020-02-28 (PCT/GB2020/050491)
[87] (WO2020/174253)
[30] GB (1902717.6) 2019-02-28

Demandes PCT entrant en phase nationale

[21] **3,131,104**
[13] A1

[51] **Int.Cl. C07D 213/78 (2006.01) A61K 31/44 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 493/14 (2006.01) C07D 498/14 (2006.01)**

[25] EN

[54] **CYCLIC AMINO-PYRAZINECARBOXAMIDE COMPOUNDS AND USES THEREOF**

[54] **COMPOSES CYCLIQUES D'AMINO-PYRAZINECARBOXAMIDE ET LEURS UTILISATIONS**

[72] SMITH, SEAN WESLEY, US
[72] COBURN, CRAIG ALAN, US
[71] SILVERBACK THERAPEUTICS, INC., US

[85] 2021-08-20
[86] 2020-03-05 (PCT/US2020/021100)
[87] (WO2020/181040)
[30] US (62/814,728) 2019-03-06
[30] US (62/939,383) 2019-11-22

[21] **3,131,108**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/203 (2006.01) A61K 31/47 (2006.01) A61K 31/495 (2006.01) A61P 25/28 (2006.01) C07C 63/74 (2006.01) C07C 65/28 (2006.01) C07D 215/06 (2006.01)**

[25] EN

[54] **SYNTHETIC RETINOIDS FOR USE IN RAR ACTIVATION**

[54] **RETINOIDES SYNTHETIQUES DESTINES A ETRE UTILISES DANS L'ACTIVATION DE RAR**

[72] WHITING, ANDREW, GB
[72] CHISHOLM, DAVID, GB
[72] GREIG, IAIN, GB
[72] KHATIB, THABAT, GB
[72] MCCAFFERY, PETER, GB
[71] UNIVERSITY OF DURHAM, GB

[85] 2021-08-20
[86] 2020-03-11 (PCT/GB2020/050607)
[87] (WO2020/183173)
[30] GB (1903242.4) 2019-03-11

[21] **3,131,110**
[13] A1

[51] **Int.Cl. F16K 37/00 (2006.01) F16K 17/04 (2006.01) F16K 17/06 (2006.01) F16K 17/16 (2006.01)**

[25] EN

[54] **PRESSURE RELIEF VALVE AND METHOD OF RELIEF VALVE OPENING DETECTION**

[54] **SOUPAPE DE SURPRESSION ET PROCEDE DE DETECTION D'OUVERTURE DE SOUPAPE DE SURPRESSION**

[72] KUHN, ORVAL, US
[72] FISCHER, MICHAEL, US
[72] KUMAR, SANTHOSH, US
[72] CRANE, BRYANT, US
[71] HANSEN TECHNOLOGIES CORPORATION, US

[85] 2021-08-20
[86] 2020-02-26 (PCT/US2020/019813)
[87] (WO2020/176574)
[30] US (62/810,667) 2019-02-26
[30] US (62/810,682) 2019-02-26
[30] US (62/828,008) 2019-04-02

[21] **3,131,105**
[13] A1

[51] **Int.Cl. F42B 1/036 (2006.01) B33Y 80/00 (2015.01) F42B 1/028 (2006.01) F42B 1/032 (2006.01)**

[25] EN

[54] **WARHEAD AND METHOD FOR PRODUCING SAME**

[54] **OGIVE ET SON PROCEDE DE PRODUCTION**

[72] HAMDAN, HAMZAH, SE
[72] THUMAN, CHRISTER, SE
[72] JOHANSSON, BJORN, SE
[71] BAE SYSTEMS BOFORS AB, SE

[85] 2021-08-20
[86] 2020-03-09 (PCT/SE2020/050257)
[87] (WO2020/190193)
[30] SE (1900054-6) 2019-03-19

[21] **3,131,109**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 27/00 (2016.01) A23L 33/105 (2016.01)**

[25] EN

[54] **PROTEIN-CONTAINING ORAL COMPOSITION AND METHOD FOR IMPROVING FLAVOR OF PROTEIN-CONTAINING ORAL COMPOSITION**

[54] **COMPOSITION ORALE COMPRENANT UNE PROTEINE, ET PROCEDE D'AMELIORATION DE LA FLAVEUR DE CETTE COMPOSITION**

[72] HASEBE, KYOKO, JP
[72] MATSUI, NORIKO, JP
[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2021-08-20
[86] 2020-02-18 (PCT/JP2020/006293)
[87] (WO2020/171069)
[30] JP (2019-028604) 2019-02-20

[21] **3,131,111**
[13] A1

[51] **Int.Cl. B25J 9/00 (2006.01)**

[25] EN

[54] **ITEM PERTURBATION FOR PICKING OPERATIONS**

[54] **PERTURBATION D'ARTICLE POUR OPERATIONS DE SAISIE**

[72] SCHNEIDER, FRANZ, US
[72] BROOKS, JOEL, US
[71] RIGHTHAND ROBOTICS, INC., US

[85] 2021-08-20
[86] 2020-02-06 (PCT/US2020/016967)
[87] (WO2020/185334)
[30] US (62/816,242) 2019-03-11

PCT Applications Entering the National Phase

[21] **3,131,112**
[13] A1

[51] **Int.Cl. B23K 9/23 (2006.01) B23K 9/032 (2006.01) C21D 9/50 (2006.01) E21B 17/04 (2006.01) E21B 17/042 (2006.01)**

[25] EN

[54] **WELD JOINTS INVOLVING DISSIMILAR METALS AND METHODS FOR FORMING SAME**

[54] **JOINTS DE SOUDURE FAISANT APPEL A DES METAUX DISSEMBLABLES ET LEURS PROCEDES DE FORMATION**

[72] BUNKER, WILLIAM RANDAL, US

[72] GEORGE, HELNA, US

[72] PILLAI, RAJAGOPALA N., US

[71] NATIONAL OILWELL DHT, L.P., US

[85] 2021-08-20

[86] 2020-02-11 (PCT/US2020/017704)

[87] (WO2020/172005)

[30] US (62/808,422) 2019-02-21

[21] **3,131,113**
[13] A1

[51] **Int.Cl. A23K 50/75 (2016.01) A23L 33/135 (2016.01)**

[25] EN

[54] **MICROBIAL TREATMENT**

[54] **TRAITEMENT MICROBIEN**

[72] COX, ANNA-LEIGH JULIETTE MARY, US

[71] ELANCO US INC., US

[85] 2021-08-20

[86] 2020-02-20 (PCT/US2020/019002)

[87] (WO2020/172385)

[30] US (62/809,043) 2019-02-22

[21] **3,131,114**
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01)**

[25] EN

[54] **WEAR RESISTANT DRILL PIPE**

[54] **TUBE DE FORAGE RESISTANT A L'USURE**

[72] PRICE, JOHN FORESTER, US

[71] NATIONAL OILWELL VARCO, L.P., US

[85] 2021-08-20

[86] 2020-02-13 (PCT/US2020/018042)

[87] (WO2020/172033)

[30] US (62/809,300) 2019-02-22

[21] **3,131,115**
[13] A1

[51] **Int.Cl. C40B 30/04 (2006.01)**

[25] EN

[54] **METHODS, COMPOSITIONS, AND DEVICES FOR SOLID-STATE SYNTHESIS OF EXPANDABLE POLYMERS FOR USE IN SINGLE MOLECULE SEQUENCING**

[54] **METHODES, COMPOSITIONS ET DISPOSITIFS POUR LA SYNTHESE A L'ETAT SOLIDE DE POLYMERES EXPANSIBLES A UTILISER DANS LE SEQUENCAGE DE MOLECULES INDIVIDUELLES**

[72] MERRILL, LACEY, US

[72] PRINDLE, MARC, US

[72] VELLUCCI, SAMANTHA, US

[72] CHANDRASEKAR, JAGADEESWARAN, US

[72] KOKORIS, MARK STAMATIOS, US

[72] AGUIRRE, GERSON, US

[72] TABONE, JOHN, US

[72] MCRUER, ROBERT N., US

[72] LEE, MICHAEL, US

[72] CORNING, MATTHEW, US

[72] THIESSEN, GREG, US

[72] KELLER BARRETT, SALKA, US

[72] BERRIOS, CHRISTIAN, US

[72] JACOBS, AARON, US

[72] LEHMANN, TAYLOR, US

[71] STRATOS GENOMICS, INC., US

[85] 2021-08-20

[86] 2020-02-20 (PCT/US2020/019131)

[87] (WO2020/172479)

[30] US (62/808,768) 2019-02-21

[30] US (62/826,805) 2019-03-29

[21] **3,131,116**
[13] A1

[51] **Int.Cl. C07B 41/02 (2006.01) C07B 57/00 (2006.01) C12P 7/02 (2006.01)**

[25] EN

[54] **METHODS OF MAKING HIGH ENANTIOSELECTIVE SECONDARY ALCOHOLS**

[54] **PROCEDES DE PREPARATION D'ALCOOLS SECONDAIRES HAUTEMENT ENANTIOSELECTIFS**

[72] LAI, MING-TAIN, TW

[72] YU, CHENG-DER TONY, TW

[72] HSIEH, YIH-HUANG, TW

[72] LIN, SHU-YI, TW

[72] CHAO, CHIN-SHENG, TW

[72] HSIEH, YIN-CHENG, TW

[71] OBI PHARMA, INC., TW

[85] 2021-08-20

[86] 2020-02-21 (PCT/US2020/019176)

[87] (WO2020/172506)

[30] US (62/808,712) 2019-02-21

[21] **3,131,117**
[13] A1

[51] **Int.Cl. H04N 19/82 (2014.01) H04N 19/117 (2014.01) H04N 19/147 (2014.01) H04N 19/174 (2014.01) H04N 19/176 (2014.01)**

[25] EN

[54] **BOUNDARY HANDLING FOR ADAPTIVE LOOP FILTERING**

[54] **GESTION DE LIMITE POUR FILTRAGE A BOUCLE ADAPTATIF**

[72] SEREGIN, VADIM, US

[72] HU, NAN, US

[72] KARCZEWICZ, MARTA, US

[71] QUALCOMM INCORPORATED, US

[85] 2021-08-20

[86] 2020-03-11 (PCT/US2020/022132)

[87] (WO2020/185919)

[30] US (62/816,728) 2019-03-11

[30] US (16/814,597) 2020-03-10

Demandes PCT entrant en phase nationale

[21] **3,131,119**
[13] A1

[51] **Int.Cl. C09K 8/00 (2006.01) B01J 7/00 (2006.01) C09K 8/035 (2006.01) C09K 8/42 (2006.01) C09K 8/467 (2006.01) C09K 8/594 (2006.01) C09K 8/68 (2006.01) E21B 21/00 (2006.01) E21B 33/13 (2006.01) E21B 43/16 (2006.01) E21B 43/25 (2006.01)**

[25] EN
[54] **STORABLE GAS GENERATING COMPOSITIONS**
[54] **COMPOSITIONS GENERATRICES DE GAZ STOCKABLES**
[72] REDDY, B. RAGHAV, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019182)
[87] (WO2020/172512)
[30] US (16/282,112) 2019-02-21

[21] **3,131,120**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 1/02 (2006.01) B41M 3/12 (2006.01) B44C 1/175 (2006.01) C09K 9/00 (2006.01)**

[25] EN
[54] **TEMPORARY TATTOO DECALS USABLE AS DOSIMETERS**
[54] **DECALCOMANIES DE TATOUAGES TEMPORAIRES UTILISABLES EN TANT QUE DOSIMETRES**
[72] LEVINE, ANDREW SETH, US
[72] ZUJOVIC, NICOLE ANN, US
[72] HENSE, DEBORA, US
[71] LEVINE, ANDREW SETH, US
[71] ZUJOVIC, NICOLE ANN, US
[71] HENSE, DEBORA, US
[85] 2021-08-20
[86] 2019-02-22 (PCT/US2019/019204)
[87] (WO2019/165244)
[30] US (62/633,632) 2018-02-22

[21] **3,131,121**
[13] A1

[51] **Int.Cl. A61B 90/50 (2016.01) A61B 50/28 (2016.01) A61G 12/00 (2006.01) F16M 13/02 (2006.01)**

[25] EN
[54] **MOUNTING PLATE FOR MEDICAL DEVICE SUSPENSION SYSTEM**
[54] **PLAQUE DE MONTAGE POUR SYSTEME DE SUSPENSION DE DISPOSITIF MEDICAL**
[72] BELLOWS, LANCE CLARK, US
[72] HESER, MICHAEL JOSEPH, US
[71] AMERICAN STERILIZER COMPANY, US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019189)
[87] (WO2020/172514)
[30] US (62/809,173) 2019-02-22

[21] **3,131,122**
[13] A1

[51] **Int.Cl. G01N 15/08 (2006.01) G01N 33/24 (2006.01)**

[25] EN
[54] **DEVICE AND PROCESS FOR MAINTAINING ZERO CAPILLARY PRESSURE BOUNDARY CONDITION DURING CORE FLOOD EXPERIMENTS**
[54] **DISPOSITIF ET PROCEDE DE MAINTIEN DE CONDITION LIMITE DE PRESSION CAPILLAIRE NULLE AU COURS D'EXPERIENCES D'INJECTION DE LIQUIDE DANS UNE CAROTTE**
[72] CHEN, QUAN, SA
[72] ENEZI, SULTAN, SA
[72] AL-YOUSEF, ALI ABDALLAH, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-20
[86] 2020-02-27 (PCT/US2020/020092)
[87] (WO2020/176727)
[30] US (16/287,255) 2019-02-27

[21] **3,131,123**
[13] A1

[51] **Int.Cl. F25D 25/02 (2006.01) A47B 88/80 (2017.01) A47B 46/00 (2006.01) A47B 73/00 (2006.01) A47B 96/02 (2006.01) A47B 96/06 (2006.01)**

[25] EN
[54] **UNDER CABINET/SHELF STORAGE RACK**
[54] **RATELIER D'ENTREPOSAGE SOUS ARMOIRE/ETAGERE**
[72] BECK, RONALD, US
[71] BECK, RONALD, US
[85] 2021-08-20
[86] 2019-08-08 (PCT/US2019/045621)
[87] (WO2020/171842)
[30] US (16/281,634) 2019-02-21
[30] US (16/281,772) 2019-02-21

[21] **3,131,124**
[13] A1

[51] **Int.Cl. B01D 24/04 (2006.01) B01D 53/04 (2006.01) B01D 53/22 (2006.01) B01D 53/96 (2006.01) C02F 1/00 (2006.01)**

[25] EN
[54] **REGENERATIVE MEDIA FILTER AIR SCOURING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE RECURAGE D'AIR DE FILTRE DE MILIEU REGENERATIF**
[72] HAWKSLEY, STEVEN, US
[71] NEPTUNE BENSON, INC., US
[85] 2021-08-23
[86] 2019-11-20 (PCT/US2019/062373)
[87] (WO2020/176151)
[30] US (62/810,008) 2019-02-25

PCT Applications Entering the National Phase

[21] **3,131,125**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/69 (2017.01) A61K 39/00 (2006.01) A61K 39/39 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TOLL-LIKE RECEPTOR 7 OR 8 AGONIST-CHOLESTEROL COMPLEX, AND USE OF SAME**

[54] **COMPLEXE AGONISTE DU RECEPTEUR DE TYPE TOLL 7 OU 8-CHOLESTEROL, ET SON UTILISATION**

[72] LIM, YONG TAIK, KR

[72] SHIN, HONG SIK, KR

[72] REN, LONG, KR

[71] RESEARCH & BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY, KR

[85] 2021-09-13

[86] 2020-02-07 (PCT/KR2020/001753)

[87] (WO2020/162705)

[30] KR (10-2019-0014756) 2019-02-08

[30] KR (10-2020-0014775) 2020-02-07

[21] **3,131,126**
[13] A1

[51] **Int.Cl. A61G 7/00 (2006.01) A61B 6/04 (2006.01) A61G 7/05 (2006.01) A61G 7/10 (2006.01) A61G 13/12 (2006.01)**

[25] EN

[54] **DEVICES AND SYSTEMS FOR MOVING A PERSON ON A SUPPORT APPARATUS**

[54] **DISPOSITIFS ET SYSTEMES POUR DEPLACER UNE PERSONNE SUR UN APPAREIL DE SUPPORT**

[72] FOX, SAMUEL T., US

[72] NEZARIA, JEREMY Y., US

[71] SENECA DEVICES, INC., US

[85] 2021-08-20

[86] 2020-02-21 (PCT/US2020/019211)

[87] (WO2020/172525)

[30] US (62/809,214) 2019-02-22

[30] US (62/844,944) 2019-05-08

[21] **3,131,127**
[13] A1

[51] **Int.Cl. C11D 7/06 (2006.01) C11D 3/00 (2006.01) C11D 7/10 (2006.01) C11D 7/26 (2006.01) C11D 7/34 (2006.01) C11D 7/36 (2006.01)**

[25] EN

[54] **CONCENTRATED ALUMINUM COMPOSITIONS FOR AQUEOUS CORROSION CONTROL**

[54] **COMPOSITIONS CONCENTREES A BASE D'ALUMINIUM POUR LA LUTTE CONTRE LA CORROSION EN MILIEU AQUEUX**

[72] CLEMENS, JANINE, US

[72] HENDEL, ROBERT, US

[72] FRAIL, PAUL, US

[72] BARRON, JUDY, US

[71] BL TECHNOLOGIES, INC., US

[85] 2021-08-20

[86] 2020-03-27 (PCT/US2020/025158)

[87] (WO2020/205490)

[30] US (62/827,005) 2019-03-30

[21] **3,131,128**
[13] A1

[51] **Int.Cl. A61K 31/433 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **COMPOUNDS AND METHODS OF DEUTERATED XANOMELINE FOR TREATING NEUROLOGICAL DISORDERS**

[54] **COMPOSES ET METHODES A BASE DE XANOMELINE DEUTEREE PERMETTANT LE TRAITEMENT DE TROUBLES NEUROLOGIQUES**

[72] BENNETT, DENNIS, US

[72] ATTARDO, GIORGIO, US

[72] SCHLECHT, CLIFFORD, US

[71] KARUNA THERAPEUTICS, INC., US

[85] 2021-08-20

[86] 2020-02-21 (PCT/US2020/019193)

[87] (WO2020/172516)

[30] US (62/808,954) 2019-02-22

[30] US (62/936,358) 2019-11-15

[21] **3,131,130**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/09 (2006.01) C12N 15/64 (2006.01) C12N 15/66 (2006.01)**

[25] EN

[54] **NON-ACTIVE LIPID NANOPARTICLES WITH NON-VIRAL, CAPSID FREE DNA**

[54] **NANOPARTICULES LIPIDIQUES NON ACTIVES AVEC ADN DEPOURVU DE CAPSIDE, NON VIRAL**

[72] STANTON, MATTHEW G., US

[72] MANGANIELLO, MATTHEW, US

[71] GENERATION BIO CO., US

[85] 2021-08-20

[86] 2020-03-06 (PCT/US2020/021328)

[87] (WO2020/181168)

[30] US (62/814,460) 2019-03-06

[30] US (62/857,557) 2019-06-05

[21] **3,131,132**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 31/675 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMBINING IMMUNOLOGIC AND CHEMOTHERAPEUTIC METHOD FOR THE TREATMENT OF CANCER**

[54] **COMPOSITION PHARMACEUTIQUE ASSOCIANT UN PROCEDE IMMUNOLOGIQUE ET CHIMIOThERAPEUTIQUE POUR LE TRAITEMENT DU CANCER**

[72] BOSTWICK, DAVID GRANGER, US

[72] BOSTWICK, BRIAN RAFFERTY, US

[71] RAMPART HEALTH, L.L.C., US

[85] 2021-08-20

[86] 2020-02-28 (PCT/US2020/020395)

[87] (WO2020/180686)

[30] US (62/812,703) 2019-03-01

Demandes PCT entrant en phase nationale

[21] **3,131,134**
[13] A1

[51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/20 (2016.01) A23L 33/16 (2016.01) A23L 2/06 (2006.01) A23L 2/385 (2006.01) A23L 2/54 (2006.01) A23L 2/56 (2006.01) A23L 2/66 (2006.01)**

[25] EN

[54] **DAIRY MINERALS AS A MOUTHFEEL ENHANCER AND FLAVOR MODIFIER**

[54] **SUBSTANCES MINERALES LAITIERES EN TANT QU'EXHAUSTEURS DE SENSATIONS BUCCALES ET MODIFICATEURS D'AROME**

[72] BANDO, CHRISTOPHER, US
[72] MUTILANGI, WILLIAM, US
[72] NATTRESS, LAURA, US
[72] TIWARI, RASHMI, US
[71] PEPSICO, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019316)
[87] (WO2020/180504)
[30] US (16/294,548) 2019-03-06

[21] **3,131,138**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **T CELL RECEPTORS SPECIFIC TO B-CELL MATURATION ANTIGEN FOR TREATMENT OF CANCER**

[54] **RECEPTEURS DE LYMPHOCYTES T SPECIFIQUES DE L'ANTIGENE DE MATURATION DES LYMPHOCYTES B POUR LE TRAITEMENT DU CANCER**

[72] BAE, JOEUN, US
[72] MUNSHI, NIKHIL C., US
[72] ANDERSON, KENNETH C., US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2021-08-20
[86] 2020-03-05 (PCT/US2020/021273)
[87] (WO2020/181142)
[30] US (62/814,622) 2019-03-06

[21] **3,131,145**
[13] A1

[51] **Int.Cl. C12N 15/90 (2006.01) A01K 67/027 (2006.01) A01K 67/033 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **MONOGENIC OR POLYGENIC DISEASE MODEL ORGANISMS HUMANIZED WITH TWO OR MORE GENES**

[54] **ORGANISMES MODELES DE MALADIE MONOGENIQUE OU POLYGENIQUE HUMANISES A L'AIDE DE DEUX GENES OU PLUS**

[72] HOPKINS, CHRISTOPHER, US
[72] BROCK, TRISHA, US
[72] FEKETE, RICHARD, US
[71] NEMAMETRIX INC, US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019308)
[87] (WO2020/172587)
[30] US (16/281,988) 2019-02-21
[30] US (PCT/US2019/019027) 2019-02-21
[30] US (62/821,377) 2019-03-20

[21] **3,131,137**
[13] A1

[51] **Int.Cl. A61K 31/4535 (2006.01) A61K 9/72 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT OF RESPIRATORY DISORDERS**

[54] **METHODES DE TRAITEMENT D'AFFECTIONS RESPIRATOIRES**

[72] ABERG, A. K. GUNNAR, US
[72] CIOFALO, VINCENT B., US
[72] PUCAJ, KRESIMIR, HR
[71] BRIDGE PHARMA, INC., US
[85] 2021-08-20
[86] 2020-02-14 (PCT/US2020/018205)
[87] (WO2020/172047)
[30] US (62/809,212) 2019-02-22
[30] US (16/751,539) 2020-01-24

[21] **3,131,141**
[13] A1

[51] **Int.Cl. E21B 49/08 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **TESTING SUBTERRANEAN WATER FOR A HAZARDOUS WASTE MATERIAL REPOSITORY**

[54] **ANALYSE D'EAU SOUTERRAINE A LA RECHERCHE D'UN DEPOT DE DECHETS DANGEREUX**

[72] MULLER, RICHARD A., US
[72] GRIMSICH, JOHN LINUS, US
[71] DEEP ISOLATION, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019231)
[87] (WO2020/205084)
[30] US (62/808,523) 2019-02-21
[30] US (62/833,285) 2019-04-12
[30] US (62/911,560) 2019-10-07
[30] US (62/934,894) 2019-11-13

[21] **3,131,146**
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/438 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **SOLID POLYMORPHS OF A FLNA-BINDING COMPOUND AND ITS HYDROCHLORIDE SALTS**

[54] **POLYMORPHES SOLIDES D'UN COMPOSE LIANT FLNA ET SES SELS DE CHLORHYDRATE**

[72] ZAMLOOT, MICHAEL, US
[72] BARBIER, LINDSAY BURNS, US
[72] KUCERA, SHAWN ANTHONY, US
[71] PAIN THERAPEUTICS, INC., US
[85] 2021-08-20
[86] 2020-02-21 (PCT/US2020/019305)
[87] (WO2020/172584)
[30] US (62/808,609) 2019-02-21

PCT Applications Entering the National Phase

[21] **3,131,147**
[13] A1

[51] **Int.Cl. H01L 29/66 (2006.01) H01L 21/324 (2006.01) H01L 21/326 (2006.01) H01L 21/66 (2006.01)**

[25] EN

[54] **A PROCESS OF MAKING A SHORT-CIRCUITED DIODE THAT PREVENTS ELECTROCUTION**

[54] **PROCEDE DE FABRICATION D'UNE DIODE EN COURT-CIRCUIT QUI EMPECHE L'ELECTROCUTION**

[72] PACHECO PENA, JOHN JAIRO, CO

[72] JIMENEZ, JORGE LUIS, VE

[71] YAKOB INDUSTRIES, INC., US

[85] 2021-08-20

[86] 2020-02-18 (PCT/US2020/018533)

[87] (WO2020/172104)

[30] US (16/281,082) 2019-02-20

[21] **3,131,148**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/48 (2006.01) A61K 9/70 (2006.01) A61K 31/196 (2006.01) A61K 31/56 (2006.01) A61K 31/58 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL DOSAGE FORM FOR APPLICATION TO MUCOUS MEMBRANES AND METHODS FOR PRODUCING SAME**

[54] **FORME POSOLOGIQUE PHARMACEUTIQUE DESTINEE A ETRE APPLIQUEE SUR DES MUQUEUSES ET SES PROCEDES DE PRODUCTION**

[72] KRAUSE, JULIUS, DE

[71] ESOCAP AG, CH

[85] 2021-08-23

[86] 2020-03-13 (PCT/EP2020/056934)

[87] (WO2020/183005)

[30] EP (19162908.8) 2019-03-14

[30] EP (19192961.1) 2019-08-21

[21] **3,131,149**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSING SYSTEM WITH REMOTE MICRO-INGREDIENT STORAGE SYSTEMS**

[54] **SYSTEME DE DISTRIBUTION DE BOISSON AVEC SYSTEMES DE STOCKAGE DE MICRO-INGREDIENTS A DISTANCE**

[72] NATARAJAN, ARUN, US

[71] THE COCA-COLA COMPANY, US

[85] 2021-08-20

[86] 2020-02-19 (PCT/US2020/018752)

[87] (WO2020/172225)

[30] US (62/808,354) 2019-02-21

[21] **3,131,150**
[13] A1

[51] **Int.Cl. H02P 9/04 (2006.01) H02H 7/06 (2006.01) H02J 3/38 (2006.01)**

[25] EN

[54] **ADVANCED CROSS-CURRENT COMPENSATION SYSTEM AND METHOD FOR ENHANCING REACTIVE CURRENT SHARING IN POWER GENERATION HAVING MULTIPLE GENERATORS**

[54] **SYSTEME DE COMPENSATION AVANCE DE COURANTS CONTRAIRES ET PROCEDE POUR AMELIORER LE PARTAGE DE COURANT REACTIF**

[72] KIM, KIYONG, US

[72] WEBER, DANIEL, US

[71] BASLER ELECTRIC COMPANY, US

[85] 2021-08-20

[86] 2020-02-21 (PCT/US2020/019299)

[87] (WO2020/172578)

[30] US (62/809,009) 2019-02-22

[21] **3,131,151**
[13] A1

[25] EN

[54] **DYNAMIC TEXT MESSAGE PROCESSING IMPLEMENTING ENDPOINT COMMUNICATION CHANNEL SELECTION**

[54] **TRAITEMENT DYNAMIQUE DE MESSAGE TEXTUEL METTANT EN ŒUVRE UNE SELECTION DE CANAL DE COMMUNICATION DE POINT D'EXTREMITE**

[72] CHEN, ANTHONY, US

[71] LIVEPERSON, INC., US

[85] 2021-08-20

[86] 2020-02-19 (PCT/US2020/018893)

[87] (WO2020/172326)

[30] US (62/809,136) 2019-02-22

[21] **3,131,153**
[13] A1

[51] **Int.Cl. B66B 23/14 (2006.01)**

[25] EN

[54] **PLATE CONVEYOR BANDE TRANSPORTEUSE A PLAQUES**

[72] DRENCKO, JIRI, CZ

[71] INNOVA PATENT GMBH, AT

[85] 2021-08-23

[86] 2020-03-12 (PCT/EP2020/056722)

[87] (WO2020/193165)

[30] AT (A 50255/2019) 2019-03-25

[21] **3,131,154**
[13] A1

[51] **Int.Cl. G06T 7/11 (2017.01) G06T 7/62 (2017.01) G06T 5/00 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **PROCESSING THREE-DIMENSIONAL (3D) ULTRASOUND IMAGES**

[54] **TRAITEMENT D'IMAGES ULTRASONORES TRIDIMENSIONNELLES (3D)**

[72] WILSON, DAVID L., US

[72] WU, HAO, US

[72] MINHAZ, TAHSEEN, US

[72] ORGE, FARUK, US

[72] HELMS, RICHARD, US

[72] LEE, JUHWAN, US

[71] CASE WESTERN RESERVE UNIVERSITY, US

[85] 2021-08-20

[86] 2020-02-20 (PCT/US2020/018958)

[87] (WO2020/172359)

[30] US (62/808,435) 2019-02-21

Demandes PCT entrant en phase nationale

[21] **3,131,156**
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/553 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 498/14 (2006.01) C07D 498/22 (2006.01)**

[25] EN

[54] **FUSED TRICYCLIC COMPOUNDS USEFUL AS ANTICANCER AGENTS**

[54] **COMPOSES TRICYCLIQUES FUSIONNES UTILES EN TANT QU'AGENTS ANTICANCEREUX**

[72] KETTLE, JASON GRANT, GB

[72] SIMPSON, IAIN, GB

[72] PHILLIPS, CHRISTOPHER, GB

[72] BOYD, SCOTT, GB

[72] STEWARD, OLIVER ROSS, GB

[72] BODNARCHUK, MICHAEL STEVEN, GB

[72] CASSAR, DOYLE JOSEPH, GB

[72] PIKE, KURT GORDON, GB

[71] ASTRAZENECA AB, SE

[85] 2021-08-23

[86] 2020-03-03 (PCT/EP2020/055551)

[87] (WO2020/178282)

[30] US (62/813,885) 2019-03-05

[30] US (62/951,146) 2019-12-20

[21] **3,131,157**
[13] A1

[51] **Int.Cl. G06F 16/33 (2019.01) G06F 16/35 (2019.01) G06F 40/30 (2020.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TEXT CATEGORIZATION AND SENTIMENT ANALYSIS**

[54] **SYSTEME ET PROCEDE POUR CATEGORISATION DE TEXTE ET ANALYSE DE SENTIMENTS**

[72] KERSHAW, JONATHAN, GB

[72] UNITT, ASHLEY, GB

[72] MCCORD, ALAN, NZ

[71] NEWVOICEMEDIA US INC., US

[85] 2021-08-20

[86] 2020-02-24 (PCT/US2020/019438)

[87] (WO2020/172649)

[30] US (16/283,447) 2019-02-22

[30] US (16/794,162) 2020-02-18

[21] **3,131,159**
[13] A1

[51] **Int.Cl. A61K 31/52 (2006.01) A61K 31/522 (2006.01) A61P 31/22 (2006.01)**

[25] EN

[54] **TREATMENT OF HERPES SIMPLEX WITH A COMBINATION OF VALACYCLOVIR AND FAMCICLOVIR**

[54] **TRAITEMENT DE L'HERPES SIMPLEX AVEC UNE COMBINAISON DE VALACYCLOVIR ET FAMCICLOVIR**

[72] CHECCONE, EMIDIO A., US

[72] RAMIREZ, CHRISTINA, US

[71] ELIAN LLC, US

[85] 2021-08-20

[86] 2020-02-25 (PCT/US2020/019700)

[87] (WO2020/176506)

[30] US (62/810,074) 2019-02-25

[21] **3,131,160**
[13] A1

[51] **Int.Cl. G06F 30/23 (2020.01) G06F 30/20 (2020.01) G06F 30/30 (2020.01)**

[25] EN

[54] **SIMULATION OF QUANTUM OPTICAL SYSTEMS SUBJECT TO AN ELECTROMAGNETIC PULSE**

[54] **SIMULATION DE SYSTEMES OPTIQUES QUANTIQUES SOUMIS A UNE IMPULSION ELECTROMAGNETIQUE**

[72] SLAVCHEVA, GABRIELA, GB

[72] KOLEVA, MIRELLA, GB

[71] QUANTOPTICON LTD., GB

[85] 2021-08-23

[86] 2020-02-21 (PCT/GB2020/050421)

[87] (WO2020/169990)

[30] GB (1902463.7) 2019-02-22

[21] **3,131,161**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/42 (2006.01) A61P 35/00 (2006.01) C07K 14/805 (2006.01)**

[25] EN

[54] **ANTITUMOR CELL COMPRISING A CHARGE MODIFIED GLOBIN**

[54] **CELLULE ANTITUMORALE COMPRENANT UNE GLOBINE A CHARGE MODIFIEE**

[72] PERRIMAN, ADAM WILLIS, GB

[72] CARTER, BENJAMIN MICHAEL, GB

[72] GREEN, THOMAS IAIN PHILLIP, GB

[72] COE, DAVID, GB

[72] ZHANG, WILLIAM HONGYU, GB

[71] CYTOSEEK LTD, GB

[85] 2021-08-23

[86] 2020-03-06 (PCT/GB2020/050537)

[87] (WO2020/178598)

[30] GB (1902992.5) 2019-03-06

[21] **3,131,163**
[13] A1

[25] EN

[54] **INTEGRATION OF THERMOCHEMICAL WATER SPLITTING WITH CO2 DIRECTAIR CAPTURE**

[54] **INTEGRATION DE DECOMPOSITION THERMOCHIMIQUE D'EAU AVEC CAPTURE DIRECTE D'AIR DE CO2**

[72] DAVIS, MARK E., US

[72] XU, BINGJUN, US

[72] BRADY, CASPER O., US

[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US

[71] UNIVERSITY OF DELAWARE, US

[85] 2021-09-20

[86] 2020-04-01 (PCT/US2020/026099)

[87] (WO2020/205924)

[30] US (62/828,671) 2019-04-03

[30] US (62/923,824) 2019-10-21

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[21] **3,131,166**
[13] A1

[51] **Int.Cl. B02C 17/14 (2006.01) G01N 1/28 (2006.01)**
[25] EN
[54] **HOMOGENIZER AND METHOD OF GRINDING LARGE SAMPLE QUANTITIES**
[54] **HOMOGENISEUR ET PROCEDE DE BROYAGE DE GRANDES QUANTITES D'ECHANTILLON**
[72] SMITH, ERIC, US
[71] SPEX SAMPLEPREP, LLC, US
[85] 2021-08-20
[86] 2020-02-26 (PCT/US2020/019932)
[87] (WO2020/176644)
[30] US (62/810,742) 2019-02-26

[21] **3,131,170**
[13] A1

[51] **Int.Cl. C09C 1/44 (2006.01) C01B 32/00 (2017.01) C08K 3/04 (2006.01) C08K 9/00 (2006.01)**
[25] EN
[54] **METHOD FOR ODOR REDUCTION OF PARTICULATE CARBON MATERIALS**
[54] **PROCEDE POUR REDUIRE L'ODEUR DE MATIERES CARBONEES PARTICULAIRES**
[72] WITTMANN, TOBIAS, DE
[72] PODSCHUN, JACOB, DE
[72] SCHMAUCKS, GERD, DE
[72] LUDER, ULF, CH
[71] SUNCOAL INDUSTRIES GMBH, DE
[85] 2021-08-23
[86] 2020-02-21 (PCT/EP2020/054636)
[87] (WO2020/169809)
[30] DE (10 2019 104 406.5) 2019-02-21

[21] **3,131,174**
[13] A1

[51] **Int.Cl. B60P 7/15 (2006.01) B61D 45/00 (2006.01)**
[25] EN
[54] **BREAKAWAY SYSTEM FOR CAPTIVE BEAM SYSTEM**
[54] **SYSTEME DE RUPTURE POUR SYSTEME DE POUTRE CAPTIVE**
[72] DA ROSA, JOAQUIM CARLOS, US
[71] ANCRA INTERNATIONAL LLC, US
[85] 2021-08-23
[86] 2020-02-20 (PCT/US2020/019011)
[87] (WO2020/176326)
[30] US (62/810,734) 2019-02-26

[21] **3,131,186**
[13] A1

[51] **Int.Cl. B65G 47/90 (2006.01) B25J 9/16 (2006.01)**
[25] EN
[54] **ROBOTIC MULTI-ITEM TYPE PALLETIZING & DEPALLETIZING**
[54] **PALETTISATION ET DEPALETTISATION DE TYPE MULTI-ARTICLE ROBOTIQUE**
[72] CHAVEZ, KEVIN JOSE, US
[72] GAO, YUAN, US
[72] PIDAPARTHI, ROHIT, US
[72] MORRIS-DOWNING, TALBOT, US
[72] SU, HARRY ZHE, US
[72] MENON, SAMIR, US
[71] DEXTERITY, INC., US
[85] 2021-08-20
[86] 2019-11-06 (PCT/US2019/060035)
[87] (WO2020/171859)
[30] US (62/809,389) 2019-02-22
[30] US (16/380,859) 2019-04-10

[21] **3,131,187**
[13] A1

[51] **Int.Cl. A61B 17/072 (2006.01)**
[25] EN
[54] **SURGICAL STAPLING INSTRUMENT HAVING A TWO-POSITION LOCKOUT MECHANISM**
[54] **INSTRUMENT D'AGRAFAGE CHIRURGICAL AYANT UN MECANISME DE VERROUILLAGE A DEUX POSITIONS**
[72] ROBERTS, THOMAS M. B., US
[72] HOPKINS, TIMOTHY M., US
[72] QUINTANA, QUINTON A., US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-08-20
[86] 2020-02-26 (PCT/US2020/019938)
[87] (WO2020/176649)
[30] US (62/811,457) 2019-02-27

[21] **3,131,188**
[13] A1

[51] **Int.Cl. B26D 1/02 (2006.01) B26D 1/00 (2006.01) B26D 3/00 (2006.01) B26D 3/28 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **SLICER AND PUSHER**
[54] **TRANCHEUSE ET POUSSOIR**
[72] HAUSER, LAWRENCE, US
[71] PROGRESSIVE INTERNATIONAL CORPORATION, US
[85] 2021-08-20
[86] 2020-02-26 (PCT/US2020/019983)
[87] (WO2020/176675)
[30] US (62/812,154) 2019-02-28

[21] **3,131,189**
[13] A1

[51] **Int.Cl. F04B 47/06 (2006.01) E21B 43/12 (2006.01) F04B 47/08 (2006.01)**
[25] EN
[54] **POLYGONAL LINER FOR ELECTRICAL SUBMERSIBLE PUMP CANNED MOTOR**
[54] **CHEMISE POLYGONALE POUR MOTEUR A GAINÉ DE POMPE SUBMERSIBLE ELECTRIQUE**
[72] WRIGHTON, CHRISTOPHER, GB
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-20
[86] 2020-02-27 (PCT/US2020/020041)
[87] (WO2020/176707)
[30] US (16/287,495) 2019-02-27

[21] **3,131,190**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) B82Y 15/00 (2011.01) G01N 15/06 (2006.01)**
[25] EN
[54] **NANOSENSORS AND USE THEREOF**
[54] **NANOCAPTEURS ET LEUR UTILISATION**
[72] QUAN, QIMIN, US
[72] WILKINSON, JOSEPH, US
[72] RITCHEY, JOSHUA A., US
[72] BOYCE, JOHN, US
[71] NANOMOSAIC LLC, US
[85] 2021-08-20
[86] 2020-02-27 (PCT/US2020/020204)
[87] (WO2020/176793)
[30] US (62/811,041) 2019-02-27
[30] US (62/811,559) 2019-02-28
[30] US (62/811,579) 2019-02-28
[30] US (62/811,543) 2019-02-28

Demandes PCT entrant en phase nationale

[21] **3,131,191**
[13] A1

[51] **Int.Cl. H04N 19/48 (2014.01)**
[25] EN
[54] **COEFFICIENT DOMAIN BLOCK DIFFERENTIAL PULSE-CODE MODULATION IN VIDEO CODING**
[54] **MODULATION DE CODE D'IMPULSION DIFFERENTIELLE DE BLOC DE DOMAINE DE COEFFICIENT DANS UN CODAGE VIDEO**
[72] COBAN, MUHAMMED ZEYD, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2021-08-20
[86] 2020-03-12 (PCT/US2020/022376)
[87] (WO2020/186050)
[30] US (62/817,451) 2019-03-12
[30] US (16/816,116) 2020-03-11

[21] **3,131,192**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 10/08 (2012.01) B25J 9/16 (2006.01)**
[25] EN
[54] **METHOD FOR DEPLOYING FIXED AND MOBILE SENSORS FOR STOCK KEEPING IN A STORE**
[54] **PROCEDE DE DEPLOIEMENT DE CAPTEURS FIXES ET MOBILES POUR LA GESTION DES STOCKS DANS UN MAGASIN**
[72] BOGOLEA, BRADLEY, US
[72] TIWARI, DURGESH, US
[71] SIMBE ROBOTICS, INC., US
[85] 2021-08-20
[86] 2020-03-13 (PCT/US2020/022568)
[87] (WO2020/186143)
[30] US (62/818,080) 2019-03-13

[21] **3,131,193**
[13] A1

[51] **Int.Cl. G01F 1/56 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR GENERATING DOMINANT SHORT STATURE ALLELES USING GENOME EDITING**
[54] **PROCEDES ET COMPOSITIONS POUR GENERER DES ALLELES DOMINANTS DE PETITE TAILLE A L'AIDE D'EDITION DE GENOME**
[72] MANJUNATH, SIVALINGANNA, US
[72] RYMARQUIS, LINDA A., US
[72] SLEWINSKI, THOMAS L., US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2021-08-20
[86] 2020-05-28 (PCT/US2020/034993)
[87] (WO2020/243361)
[30] US (62/854,142) 2019-05-29
[30] US (62/886,726) 2019-08-14

[21] **3,131,194**
[13] A1

[51] **Int.Cl. A01H 5/10 (2018.01) A01H 1/00 (2006.01) C12N 15/00 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR GENERATING DOMINANT SHORT STATURE ALLELES USING GENOME EDITING**
[54] **PROCEDES ET COMPOSITIONS POUR GENERER DES ALLELES DOMINANTS DE PETITE TAILLE PAR EDITION DE GENOME**
[72] MANJUNATH, SIVALINGANNA, US
[72] RYMARQUIS, LINDA A., US
[72] SLEWINSKI, THOMAS L., US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2021-08-20
[86] 2020-05-28 (PCT/US2020/034996)
[87] (WO2020/243363)
[30] US (62/854,142) 2019-05-29
[30] US (62/886,732) 2019-08-14

[21] **3,131,195**
[13] A1

[51] **Int.Cl. F16L 59/02 (2006.01) F16L 59/065 (2006.01)**
[25] EN
[54] **INSULATED PIPE**
[54] **CONDUITE ISOLEE**
[72] DE BELL, HUMPHREY REGINALD, NL
[71] THERMAFLEX INTERNATIONAL HOLDING B.V., NL
[85] 2021-08-23
[86] 2020-03-20 (PCT/NL2020/050189)
[87] (WO2020/204700)
[30] NL (2022875) 2019-04-05

[21] **3,131,196**
[13] A1

[51] **Int.Cl. B31D 5/00 (2017.01)**
[25] EN
[54] **FORMING ASSEMBLY FOR A DUNNAGE CONVERSION MACHINE, DUNNAGE CONVERSION MACHINE AND PRE-PREPARED SHEET STOCK MATERIAL**
[54] **ENSEMBLE DE FORMAGE POUR MACHINE DE CONVERSION EN FARDAGE, MACHINE DE CONVERSION EN FARDAGE ET MATERIAU DE FEUILLES EN STOCK PRE-PREPARE**
[72] CHEICH, ROBERT C., US
[72] WAGNER, DENNIS J., US
[72] LEMMENS, PETER L. C., NL
[72] PLUIJMEN, ROB A. H., NL
[71] RANPAK CORP., US
[85] 2021-08-23
[86] 2020-02-12 (PCT/US2020/017828)
[87] (WO2020/176257)
[30] US (62/812,059) 2019-02-28

PCT Applications Entering the National Phase

[21] **3,131,197**
[13] A1

[51] **Int.Cl. G01N 21/01 (2006.01) G01N 21/3504 (2014.01) G01J 3/02 (2006.01) G01N 21/00 (2006.01)**

[25] EN

[54] **SPECTROSCOPIC DEVICES, SYSTEMS, AND METHODS FOR OPTICAL SENSING OF MOLECULAR SPECIES**

[54] **DISPOSITIFS SPECTROSCOPIQUES, SYSTEMES ET PROCEDES DE DETECTION OPTIQUE D'ESPECES MOLECULAIRES**

[72] ZONDLO, MARK, US

[72] TAO, LEI, US

[72] PAN, DA, US

[72] COLLINS, JOSH, US

[72] GUIGUIZIAN, PAUL, US

[72] BELL, HOWARD Y., US

[72] ELLIOTT, ALICE MARGARET SOPHIE, NL

[72] KILLOUGH, PATRICK MINTER, US

[72] GEERTSHUIS, BERNARDUS MARIA, NL

[72] SOTO, HERIE JAVIER, US

[71] THE TRUSTEES OF PRINCETON UNIVERSITY, US

[85] 2021-08-23

[86] 2020-02-21 (PCT/US2020/019239)

[87] (WO2020/172541)

[30] US (62/809,249) 2019-02-22

[21] **3,131,198**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **CATHETER AND METHOD OF USING A CATHETER**

[54] **CATHETER ET PROCEDE D'UTILISATION D'UN CATHETER**

[72] BOUBES, KHALED, US

[71] BOUBES, KHALED, US

[85] 2021-08-23

[86] 2020-02-23 (PCT/US2020/019388)

[87] (WO2020/176365)

[30] US (62/810,413) 2019-02-26

[30] US (16/798,376) 2020-02-23

[21] **3,131,199**
[13] A1

[51] **Int.Cl. F17C 13/08 (2006.01)**

[25] EN

[54] **FLEX PLATE MOUNT FOR HIGH PRESSURE TANK**

[54] **SUPPORT DE PLAQUE FLEXIBLE POUR RESERVOIR HAUTE PRESSION**

[72] VAN OYEN, HANS, US

[71] QUANTUM FUEL SYSTEMS LLC, US

[85] 2021-08-23

[86] 2020-02-20 (PCT/US2020/019077)

[87] (WO2020/172436)

[30] US (62/808,814) 2019-02-21

[21] **3,131,200**
[13] A1

[51] **Int.Cl. C08L 77/00 (2006.01) B32B 5/02 (2006.01) B32B 7/12 (2006.01) B32B 27/02 (2006.01) B32B 27/08 (2006.01) B32B 27/12 (2006.01) B32B 27/34 (2006.01) C08J 5/18 (2006.01) C08K 3/00 (2018.01) C08K 5/00 (2006.01) C08L 101/00 (2006.01)**

[25] EN

[54] **BIO-BASED ELASTOMER COMPOSITION, AND FILM AND LAMINATE PREPARED THEREFROM**

[54] **COMPOSITION ELASTOMERE BIOSOURCEE, ET FILM ET STRATIFIE PREPARES A PARTIR DE CETTE COMPOSITION**

[72] LIN, YUWEI, CN

[72] WU, YAOPEN, CN

[72] ZENG, DONGHUI, CN

[72] YAN, ZHIJIAN, CN

[72] XU, YINGBO, CN

[72] QI, QIANG, CN

[71] FOSHAN KING WONDER HI-TECH CO., LTD., CN

[85] 2021-08-23

[86] 2019-12-19 (PCT/CN2019/126658)

[87] (WO2020/173191)

[30] CN (201910137382.5) 2019-02-25

[21] **3,131,201**
[13] A1

[51] **Int.Cl. A61C 17/34 (2006.01)**

[25] EN

[54] **ELECTRIC TOOTHBRUSH USING THREE-SIDED BRISTLES**

[54] **BROSSE A DENTS ELECTRIQUE MUNIE DE BRINS A TROIS COTES**

[72] ZHAO, MAO, CN

[72] ZHU, YAOQING, CN

[72] ZHANG, JIAN, CN

[71] SHANGHAI HEISR INTELLIGENT TECHNOLOGY CO., LTD, CN

[85] 2021-08-20

[86] 2020-02-24 (PCT/CN2020/076450)

[87] (WO2020/181984)

[30] CN (201910183180.4) 2019-03-11

[21] **3,131,206**
[13] A1

[51] **Int.Cl. H04W 40/08 (2009.01) H04W 40/12 (2009.01)**

[25] EN

[54] **MODE SELECTION FOR MESH NETWORK COMMUNICATION**

[54] **SELECTION DE MODE POUR COMMUNICATION DANS UN RESEAU MAILLE**

[72] HOLCOMBE, MICHAEL SEAN, US

[72] MATTHEWS, JUSTIN CLIFFORD, AU

[71] LANDIS+GYR INNOVATIONS, INC., US

[85] 2021-08-21

[86] 2020-02-21 (PCT/US2020/019284)

[87] (WO2020/176355)

[30] US (16/285,309) 2019-02-26

Demandes PCT entrant en phase nationale

[21] **3,131,217**
[13] A1

[51] **Int.Cl. G01H 17/00 (2006.01) G01D 21/00 (2006.01) G01S 5/18 (2006.01) G08B 5/36 (2006.01)**

[25] EN

[54] **ACOUSTICAL OR VIBRATIONAL MONITORING IN A GUIDED ASSEMBLY SYSTEM**

[54] **SURVEILLANCE ACOUSTIQUE OU VIBRATOIRE DANS UN SYSTEME D'ASSEMBLAGE GUIDE**

[72] RYZNAR, PAUL, US

[72] SOMMERVILLE, WILLIAM T., US

[72] FELDMAN, RYAN J., US

[71] OPS SOLUTIONS LLC, US

[85] 2021-08-23

[86] 2020-02-21 (PCT/IB2020/051487)

[87] (WO2020/170212)

[30] US (62/808,420) 2019-02-21

[21] **3,131,224**
[13] A1

[51] **Int.Cl. B01J 20/14 (2006.01) A01K 1/015 (2006.01) A61L 15/46 (2006.01) A61L 15/60 (2006.01)**

[25] EN

[54] **ANIMAL LITTERS WITH REDUCED DUSTING**

[54] **LITIERES POUR ANIMAUX, A LIBERATION REDUITE DE POUSSIERE**

[72] ADAMY, STEVEN T., US

[71] CHURCH & DWIGHT CO., INC., US

[85] 2021-08-23

[86] 2020-02-25 (PCT/IB2020/051610)

[87] (WO2020/174400)

[30] US (62/810,479) 2019-02-26

[21] **3,131,226**
[13] A1

[51] **Int.Cl. A61L 27/16 (2006.01) A61F 2/16 (2006.01) C08L 33/14 (2006.01)**

[25] EN

[54] **IN-SITU ADJUSTABLE INTRAOCULAR LENS**

[54] **LENTILLE INTRAOCULAIRE AJUSTABLE IN SITU**

[72] AKINAY, ALI, US

[72] JIANG, XUWEI, US

[72] LIU, JIAN, US

[72] LIU, JINGBO, US

[71] ALCON INC., CH

[85] 2021-08-23

[86] 2020-04-06 (PCT/IB2020/053279)

[87] (WO2020/208501)

[30] US (62/831,520) 2019-04-09

[21] **3,131,229**
[13] A1

[51] **Int.Cl. A01B 79/00 (2006.01) A01M 9/00 (2006.01) B64C 39/02 (2006.01) B64D 1/16 (2006.01)**

[25] EN

[54] **SYSTEM FOR THE RELEASE OF BIOLOGICAL AGENTS IN THE BIOLOGICAL CONTROL OF PESTS**

[54] **SYSTEME EMBARQUE MULTI-UTILISATIONS POUR LA LIBERATION AUTONOME D'AGENTS BIOLOGIQUES DANS LA LUTTE BIOLOGIQUE ANTIPARASITAIRE DE PRECISION**

[72] NICODEMOS, FERNANDO GARCIA, BR

[71] NCB SISTEMAS EMBARCADOS EIRELI - EPP, BR

[85] 2021-08-23

[86] 2020-02-21 (PCT/BR2020/050054)

[87] (WO2020/172731)

[30] BR (BR 10 2019 003863 2) 2019-02-25

[21] **3,131,230**
[13] A1

[51] **Int.Cl. A61K 38/06 (2006.01) A61K 31/16 (2006.01) A61K 31/4196 (2006.01) A61K 31/4412 (2006.01) A61K 31/65 (2006.01) A61P 31/04 (2006.01) C07C 225/20 (2006.01) C07C 233/47 (2006.01) C07D 213/69 (2006.01) C07D 249/08 (2006.01) C07K 5/00 (2006.01) C12Q 1/18 (2006.01)**

[25] EN

[54] **ANTI-BACTERIAL COMBINATION THERAPY**

[54] **THERAPIE A L'AIDE D'UNE COMBINAISON ANTIBACTERIENNE**

[72] BURROWS, LORI L., CA

[72] RANIERI, MICHAEL M.R., CA

[72] CHAN, DEREK C.K., CA

[72] YAEGER, LUKE N., CA

[71] MCMASTER UNIVERSITY, CA

[85] 2021-08-23

[86] 2020-02-26 (PCT/CA2020/050247)

[87] (WO2020/172749)

[30] US (62/810,645) 2019-02-26

[21] **3,131,231**
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/28 (2018.01) C12N 15/82 (2006.01)**

[25] EN

[54] **POWDERY MILDEW RESISTANT CANNABIS PLANTS**

[54] **PLANTES DE CANNABIS RESISTANTES A L'OIDIUM**

[72] SHERMAN, TAL, IL

[72] MARGALIT, IDO, IL

[72] COREM, SHIRA, IL

[71] BETTERSEEDS LTD., IL

[85] 2021-08-23

[86] 2020-02-20 (PCT/IL2020/050189)

[87] (WO2020/170251)

[30] US (62/809,584) 2019-02-23

[21] **3,131,232**
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/436 (2006.01) A61K 47/32 (2006.01) A61K 47/38 (2006.01) A61P 17/00 (2006.01) A61P 17/02 (2006.01)**

[25] EN

[54] **TOPICAL RAPAMYCIN FORMULATIONS AND THEIR USE IN TREATING FACIAL ANGIOFIBROMAS AND OTHER SKIN DISORDERS**

[54] **FORMULATIONS TOPIQUES DE RAPAMYCINE ET LEUR UTILISATION DANS LE TRAITEMENT D'ANGIOFIBROMES FACIAUX ET D'AUTRES TROUBLES CUTANES**

[72] XU, TIAN, US

[72] LICHENSTEIN, HENRI, US

[72] ROTHBERG, JONATHAN M., US

[72] GROTZKE, JEFF, US

[72] BECKETT, PAUL, US

[72] FANDRICK, KEITH, US

[71] AI THERAPEUTICS, INC., US

[85] 2021-08-18

[86] 2020-02-19 (PCT/US2020/018816)

[87] (WO2020/172266)

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[21] **3,131,233**
[13] A1

[51] **Int.Cl. G06F 16/335 (2019.01)**
[25] EN
[54] **ADVICE PRESENTATION SYSTEM**
[54] **SYSTEME DE PRESENTATION DE CONSEILS**
[72] KAMEI, MASAMICHI, JP
[71] KAMEI, MASAMICHI, JP
[85] 2021-08-23
[86] 2020-02-20 (PCT/JP2020/006831)
[87] (WO2020/179478)
[30] JP (2019-040028) 2019-03-05

[21] **3,131,235**
[13] A1

[51] **Int.Cl. A61B 5/0215 (2006.01) A61B 5/022 (2006.01) A61B 5/024 (2006.01) A61B 17/12 (2006.01)**
[25] EN
[54] **OCCLUDER WITH SELF-POWERED SENSORS**
[54] **DISPOSITIF D'OCCLUSION A CAPTEURS AUTO-ALIMENTES**
[72] DANG, LYNN T., US
[72] YANG, HAO-CHUNG, US
[72] SANGUINETTI, JAVIER A., US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-08-23
[86] 2020-02-25 (PCT/US2020/019615)
[87] (WO2020/185389)
[30] US (62/817,199) 2019-03-12

[21] **3,131,236**
[13] A1

[51] **Int.Cl. G16H 20/00 (2018.01)**
[25] EN
[54] **ASSISTANCE SYSTEM**
[54] **SYSTEME D'ASSISTANCE**
[72] KAMIYA, YUKI, JP
[72] HIRAOKA, TAKEHIRO, JP
[72] SHIMIZU, SATOSHI, JP
[72] TAKAHASHI, RYU, JP
[71] FUJI CORPORATION, JP
[85] 2021-08-23
[86] 2019-03-05 (PCT/JP2019/008718)
[87] (WO2020/178992)

[21] **3,131,237**
[13] A1

[51] **Int.Cl. B01J 27/25 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) C01C 1/04 (2006.01) C04B 35/44 (2006.01) C04B 38/00 (2006.01) C04B 41/85 (2006.01)**
[25] EN
[54] **MOLDED SINTERED BODY, AND METHOD FOR PRODUCING MOLDED SINTERED BODY**
[54] **CORPS FRITTE MOULE, ET PROCEDE DE PRODUCTION DE CORPS FRITTE MOULE**
[72] INOUE, YASUNORI, JP
[72] ITO, MUNENOBU, JP
[72] KISHIDA, KAZUHISA, JP
[72] HOSONO, HIDEO, JP
[72] KITANO, MASAOKI, JP
[72] YOKOYAMA, TOSHIHARU, JP
[71] TSUBAME BHB CO., LTD., JP
[71] TOKYO INSTITUTE OF TECHNOLOGY, JP
[85] 2021-08-23
[86] 2020-02-26 (PCT/JP2020/007620)
[87] (WO2020/175519)
[30] JP (2019-032346) 2019-02-26

[21] **3,131,238**
[13] A1

[51] **Int.Cl. G16H 20/00 (2018.01)**
[25] EN
[54] **ASSISTANCE INFORMATION MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION D'INFORMATIONS D'ASSISTANCE**
[72] KAMIYA, YUKI, JP
[72] HIRAOKA, TAKEHIRO, JP
[72] SHIMIZU, SATOSHI, JP
[72] TAKAHASHI, RYU, JP
[71] FUJI CORPORATION, JP
[85] 2021-08-23
[86] 2019-03-05 (PCT/JP2019/008719)
[87] (WO2020/178993)

[21] **3,131,240**
[13] A1

[51] **Int.Cl. C07H 3/04 (2006.01) A23L 27/30 (2016.01)**
[25] EN
[54] **A NOVEL COMPOUND DERIVED FROM ALLULOSE**
[54] **NOUVEAU COMPOSE DERIVE D'ALLULOSE**
[72] KIM, MIN HOE, KR
[72] LEE, YOUNG MI, KR
[72] KANG, IN SUNG, KR
[72] KIM, SEONG BO, KR
[72] KIM, TAEK BEOM, KR
[72] BYUN, SUNG BAE, KR
[72] CHOI, EUN JUNG, KR
[72] CHOI, JONG MIN, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2021-08-23
[86] 2019-08-02 (PCT/KR2019/009666)
[87] (WO2020/189859)
[30] KR (10-2019-0032093) 2019-03-21

[21] **3,131,241**
[13] A1

[51] **Int.Cl. A63C 9/08 (2012.01) A63C 10/12 (2012.01) A63C 9/00 (2012.01) H02J 7/00 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **SAFETY MECHANISM FOR USE WITH SNOW SPORT BOOT AND BINDING SYSTEM**
[54] **MECANISME DE SECURITE DESTINE A ETRE UTILISE AVEC UNE CHAUSSURE DE SPORT DE NEIGE ET SYSTEME DE FIXATION**
[72] PANTAZELOS, GEORGE, US
[72] LANE, JOSEPH K., US
[72] CAMERON, MICHAEL RYAN, US
[71] STOP RIVER DEVELOPMENT LLC, US
[85] 2021-08-23
[86] 2020-02-25 (PCT/US2020/019694)
[87] (WO2020/176500)
[30] US (62/810,051) 2019-02-25

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[21] **3,131,242**
[13] A1
[51] **Int.Cl. C22C 21/06 (2006.01) B60K 1/04 (2019.01) C22F 1/06 (2006.01)**
[25] EN
[54] **BATTERY BOX BOTTOM PART FOR ELECTRIC VEHICLES**
[54] **PARTIE INFÉRIEURE DE BOITIER DE BATTERIE POUR VÉHICULES ÉLECTRIQUES**
[72] JESSNER, PETER, FR
[72] LIST, JOCELYNE, FR
[72] MULLER, ESTELLE, FR
[71] CONSTELLIUM NEUF-BRISACH, FR
[85] 2021-08-24
[86] 2020-03-17 (PCT/EP2020/057348)
[87] (WO2020/187942)
[30] FR (FR1902816) 2019-03-19

[21] **3,131,243**
[13] A1
[51] **Int.Cl. C12P 21/02 (2006.01) C12N 1/21 (2006.01) C40B 40/08 (2006.01)**
[25] EN
[54] **CELL-FREE PROTEIN SYNTHESIS PLATFORMS DERIVED FROM CLOSTRIDIA**
[54] **PLATES-FORMES DE SYNTHÈSE ACÉLLULAIRE DE PROTÉINES DÉRIVÉES DE CLOSTRIDIA**
[72] JEWETT, MICHAEL CHRISTOPHER, US
[72] KRUGER-GERICKE, ANTJE, US
[72] MUELLER, ALEXANDER PAUL, US
[72] KOEPKE, MICHAEL, US
[71] NORTHWESTERN UNIVERSITY, US
[71] LANZATECH, INC., US
[85] 2021-08-23
[86] 2020-02-25 (PCT/US2020/019719)
[87] (WO2020/176522)
[30] US (62/810,014) 2019-02-25

[21] **3,131,244**
[13] A1
[51] **Int.Cl. A61K 31/357 (2006.01) A61K 31/4433 (2006.01) A61K 31/683 (2006.01)**
[25] EN
[54] **SELECTED ARTEMISININ DIMERS FOR THE TREATMENT OF LASHMANIASIS**
[54] **DIMÈRES D'ARTEMISININE SÉLECTIONNÉES POUR LE TRAITEMENT DE LA LEISHMANIOSE**
[72] EISOHLY, MAHMOUD A., US
[72] GUL, WASEEM, US
[71] EISOHLY, MAHMOUD A., US
[71] GUL, WASEEM, US
[85] 2021-08-23
[86] 2020-02-25 (PCT/US2020/019681)
[87] (WO2020/176488)

[21] **3,131,245**
[13] A1
[51] **Int.Cl. G01N 21/77 (2006.01) G01N 33/53 (2006.01) G01N 33/536 (2006.01)**
[25] EN
[54] **ASSAY DEVICE AND METHOD OF USE THEREOF**
[54] **DISPOSITIF DE DOSAGE ET SON PROCÉDE D'UTILISATION**
[72] VANDERKLEIN, IAN, US
[72] TOVAR, ARMANDO, US
[72] HAWKINS, JEFFREY, US
[72] LEE, FLORENCE YING, US
[72] DELMENICO, PETER R., US
[72] MARRINUCCI, DENA, US
[71] TRUVIAN SCIENCES, INC., US
[85] 2021-08-23
[86] 2020-02-26 (PCT/US2020/019875)
[87] (WO2020/176607)
[30] US (62/810,857) 2019-02-26

[21] **3,131,248**
[13] A1
[51] **Int.Cl. G01K 7/42 (2006.01) H01B 17/34 (2006.01) H01F 27/04 (2006.01)**
[25] EN
[54] **HIGH VOLTAGE SYSTEM COMPRISING A TEMPERATURE DISTRIBUTION DETERMINING DEVICE**
[54] **SYSTÈME HAUTE TENSION COMPRENANT UN DISPOSITIF DE DÉTERMINATION DE DISTRIBUTION DE TEMPERATURE**
[72] LANERYD, TOR, SE
[72] SCHIESSLING, JOACHIM, SE
[71] ABB POWER GRIDS SWITZERLAND AG, CH
[85] 2021-08-24
[86] 2020-02-28 (PCT/EP2020/055362)
[87] (WO2020/178202)
[30] EP (19160313.3) 2019-03-01

[21] **3,131,249**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) C07D 403/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING A MULTIPLE MYELOMA**
[54] **PROCÉDE DE TRAITEMENT D'UN MYÉLOME MULTIPLE**
[72] WEETALL, MARLA L., US
[72] CAO, LIANGXIAN, US
[72] BOLOMSKY, ARNOLD, AT
[72] LUDWIG, HEINZ, AT
[71] PTC THERAPEUTICS, INC., US
[85] 2021-08-23
[86] 2020-02-26 (PCT/US2020/019884)
[87] (WO2020/176610)
[30] US (62/812,002) 2019-02-28

PCT Applications Entering the National Phase

[21] **3,131,250**
[13] A1

[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **ANTI-ANG2 ANTIBODY AND USE THEREOF**

[54] **ANTICORPS ANTI-ANG2 ET SON UTILISATION**

[72] NAM, JU RYOUNG, KR
[72] BYUN, SANG SOON, KR
[72] KO, JONGIL, KR
[72] KIM, DO-YUN, KR
[72] LEE, JOO HYOUNG, KR
[72] HA, JUNG MIN, KR
[72] PARK, CHEONHO, KR
[72] LEE, EUN-AH, KR
[72] LEE, WEON SUP, KR
[72] YOO, JIN-SAN, KR
[71] PHARMABCINE INC., KR
[85] 2021-08-23
[86] 2020-02-25 (PCT/KR2020/002687)
[87] (WO2020/175886)
[30] KR (10-2019-0021812) 2019-02-25

[21] **3,131,251**
[13] A1

[51] **Int.Cl. B60L 15/20 (2006.01) B60L 50/61 (2019.01) B60L 58/12 (2019.01) B60L 7/02 (2006.01) B60L 7/14 (2006.01) B60L 7/20 (2006.01) B64D 27/24 (2006.01)**

[25] EN

[54] **HYBRID-ELECTRIC PROPULSION ARCHITECTURE AND METHOD FOR DISSIPATING ELECTRICAL ENERGY IN SUCH AN ARCHITECTURE**

[54] **ARCHITECTURE PROPULSIVE HYBRIDE-ELECTRIQUE ET PROCEDE DE DISSIPATION D'ENERGIE ELECTRIQUE DANS UNE TELLE ARCHITECTURE**

[72] KLONOWSKI, THOMAS, FR
[72] BARRACO, THOMAS, FR
[72] SERGHINE, CAMEL, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2021-08-24
[86] 2020-02-24 (PCT/FR2020/050343)
[87] (WO2020/174165)
[30] FR (1901979) 2019-02-26

[21] **3,131,253**
[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01) A61B 1/015 (2006.01) A61B 5/15 (2006.01) A61B 5/153 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **VENTED SYRINGE**

[54] **SERINGUE VENTILEE**

[72] FEITH, RAYMOND, US
[72] ZOLLINGER, CHRISTOPHER, US
[72] MANSOUR, GEORGE, US
[72] YU, EDMOND, US
[72] FRAUSTO, TOMAS, US
[72] CALLAHAN, RYAN, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-08-23
[86] 2020-02-26 (PCT/US2020/019950)
[87] (WO2020/176657)
[30] US (16/286,382) 2019-02-26

[21] **3,131,256**
[13] A1

[51] **Int.Cl. B29C 49/58 (2006.01) B29C 49/04 (2006.01) B29C 49/28 (2006.01)**

[25] EN

[54] **NOZZLE FOR BLOW-MOLDING STEPPED FINISH PREFORM**

[54] **BUSE POUR PREFORME DE FINITION ETAGEE DE MOULAGE PAR SOUFFLAGE**

[72] HANAN, JAY CLARKE, US
[71] NIAGARA BOTTLING, LLC, US
[85] 2021-08-23
[86] 2020-02-26 (PCT/US2020/020000)
[87] (WO2020/176690)
[30] US (62/810,852) 2019-02-26
[30] US (16/802,483) 2020-02-26

[21] **3,131,257**
[13] A1

[51] **Int.Cl. H03M 7/40 (2006.01)**

[25] EN

[54] **SPILLING TEMPORARY RESULTS FOR ACCOMMODATION OF MEMORY BOUNDARIES**

[54] **DEVERSEMENT DE RESULTATS TEMPORAIRES POUR ADAPTATION A DES LIMITES DE MEMOIRE**

[72] KURUP, GIRISH GOPALA, IN
[72] KLEIN, MATTHIAS, US
[72] SOFIA, ANTHONY THOMAS, US
[72] BRADBURY, JONATHAN, US
[72] MISHRA, ASHUTOSH, US
[72] JACOBI, CHRISTIAN, US
[72] BHATTACHARJEE, DEEPANKAR, IN
[71] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2021-08-24
[86] 2020-02-27 (PCT/EP2020/055105)
[87] (WO2020/174033)
[30] US (16/286,703) 2019-02-27

[21] **3,131,258**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/744 (2015.01) A23K 10/16 (2016.01) A23L 29/00 (2016.01) A23L 33/135 (2016.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING, IMPROVING OR TREATING OBESITY OR FATTY LIVER DISEASE COMPRISING THE LEUCONOSTOC CITREUM WIKIM0104**

[54] **COMPOSITION POUR LA PREVENTION, LE SOULAGEMENT OU LE TRAITEMENT DE L'OBESITE OU D'UNE STEATOSE HEPATIQUE COMPRENANT LE LEUCONOSTOC CITREUM WIKIM0104**

[72] CHOI, HAK-JONG, KR
[72] LIM, SEUL-KI, KR
[71] KOREA FOOD RESEARCH INSTITUTE, KR
[85] 2021-08-23
[86] 2020-02-27 (PCT/KR2020/002845)
[87] (WO2020/175940)
[30] KR (10-2019-0024254) 2019-02-28

Demandes PCT entrant en phase nationale

[21] **3,131,259**
[13] A1

[51] **Int.Cl. A61K 47/66 (2017.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 15/85 (2006.01) C12Q 1/00 (2006.01)**

[25] EN
[54] **COMBINATION THERAPIES**
[54] **POLYTHERAPIES**
[72] SCHREIBER, TAYLOR, US
[72] FROMM, GEORGE, US
[72] DE SILVA, SURESH, US
[71] SHATTUCK LABS, INC., US
[85] 2021-08-23
[86] 2020-02-27 (PCT/US2020/020076)
[87] (WO2020/176718)
[30] US (62/811,861) 2019-02-28
[30] US (62/894,479) 2019-08-30

[21] **3,131,260**
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 40/02 (2012.01)**

[25] EN
[54] **AN ELECTRONIC PAYMENT SYSTEM AND METHOD THEREOF**
[54] **SYSTEME DE PAIEMENT ELECTRONIQUE ET PROCEDE ASSOCIE**
[72] ASBE, DILIP, IN
[72] RAJENDRAN, NARAYANAN, IN
[72] PALAGIRI, SATEESH, IN
[72] SHARMA, ANUBHAV, IN
[71] NATIONAL PAYMENTS CORPORATION OF INDIA, IN
[85] 2021-08-23
[86] 2020-01-29 (PCT/IB2020/050667)
[87] (WO2020/174296)
[30] IN (201923007905) 2019-02-28

[21] **3,131,261**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01)**

[25] EN
[54] **METHOD FOR RETAINING A MOVING PART OF A WIND TURBINE**
[54] **PROCEDE SERVANT A MAINTENIR UNE PARTIE MOBILE D'UNE EOLIENNE**
[72] KRONBERGER, PETER, AT
[71] B&R INDUSTRIAL AUTOMATION GMBH, AT
[85] 2021-08-24
[86] 2020-02-26 (PCT/EP2020/054984)
[87] (WO2020/173978)
[30] EP (19159740.0) 2019-02-27

[21] **3,131,263**
[13] A1

[51] **Int.Cl. A61K 31/4745 (2006.01) A61P 5/38 (2006.01)**

[25] EN
[54] **THERAPEUTIC USES OF RELACORILANT, A HETEROARYL-KETONE FUSED AZADECALIN GLUCOCORTICOID RECEPTOR MODULATOR**
[54] **UTILISATIONS THERAPEUTIQUES DU RELACORILANT, UN MODULATEUR DU RECEPTEUR DES GLUCOCORTICOIDES DERIVE D'AZADECALINE FUSIONNEE A UNE HETEROARYLCETONE**
[72] MORAITIS, ANDREAS, US
[71] CORCEPT THERAPEUTICS INCORPORATED, US
[85] 2021-08-23
[86] 2020-02-21 (PCT/US2020/019167)
[87] (WO2020/172501)
[30] US (62/809,327) 2019-02-22
[30] US (62/814,441) 2019-03-06
[30] US (62/833,517) 2019-04-12

[21] **3,131,264**
[13] A1

[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 31/4168 (2006.01) B05B 17/06 (2006.01)**

[25] EN
[54] **METHODS AND DEVICES FOR DELIVERING PILOCARPINE TO THE EYE AS A MICRO-DOSE STREAM OF DROPLETS**
[54] **METHODES ET DISPOSITIFS POUR ADMINISTRER DE LA PILOCARPINE DANS UN □IL SOUS LA FORME D'UN FLUX DE MICRODOSES DE GOUTTELETES**
[72] IANCHULEV, TSONTCHO, US
[72] CLAUSON, LUKE, US
[71] EYENOVIA, INC., US
[85] 2021-08-23
[86] 2020-03-02 (PCT/US2020/020656)
[87] (WO2020/180793)
[30] US (62/813,608) 2019-03-04

[21] **3,131,265**
[13] A1

[51] **Int.Cl. B65G 15/62 (2006.01) B65G 21/20 (2006.01) B65G 65/20 (2006.01) E02F 3/18 (2006.01)**

[25] EN
[54] **A METHOD OF REFURBISHING A BUCKET WHEEL RECLAIMER**
[54] **PROCEDE DE REMISE A NEUF DE RECUPERATEUR DE ROUE A GODETS**
[72] DE WET, GUSTAV, AU
[72] NITSCHKE, HEINZ, AU
[72] RADICI, ANTHONY, AU
[72] MAAS, JOCHEN, AU
[72] DORRINGTON, ANDREW, AU
[72] PLETZ, RUDOLF, AT
[72] SMAJLOVIC, BELMIN, AT
[72] DOSINGER, LUKAS, AT
[72] SCHLIMME, WOLFGANG, AU
[72] NEUFELDT, PATRICK, DE
[72] MUNDIK, PETER, AU
[72] MARKOVIC, MIODRAG, AU
[72] PETACK, BURKHARD, DE
[71] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU
[85] 2021-08-24
[86] 2020-02-25 (PCT/AU2020/050166)
[87] (WO2020/172707)
[30] AU (2019900597) 2019-02-25

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[21] **3,131,266**
[13] A1

[51] **Int.Cl. G01V 1/37 (2006.01) E21B 7/04 (2006.01) G01V 1/42 (2006.01)**
[25] EN
[54] **ACQUIRING SEISMIC DATA WITH SEISMIC-WHILE-DRILLING (SWD)**
[54] **ACQUISITION DE DONNEES SISMIQUES A L'AIDE D'UN FORAGE SISMIQUE PENDANT LE FORAGE (SWD)**
[72] AL-ALI, MUSTAFA NASER, SA
[72] ALMUHAIDIB, ABDULAZIZ MOHAMMAD, SA
[72] AL-HEMYARI, EMAD ABDO, SA
[72] GOLIKOV, PAVEL, SA
[72] LUO, YI, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-23
[86] 2020-02-24 (PCT/US2020/019431)
[87] (WO2020/176384)
[30] US (16/284,803) 2019-02-25

[21] **3,131,267**
[13] A1

[51] **Int.Cl. B60H 1/22 (2006.01)**
[25] EN
[54] **HEATER**
[54] **DISPOSITIF DE CHAUFFAGE**
[72] WEISSENBACH, VICTOR, DE
[72] STROHLE, ELMAR, DE
[72] REININGER, DENNIS, DE
[72] MARKESIC, ROBERT, DE
[72] DEMMEL, ROBERT, DE
[71] TRUMA GERATETECHNIK GMBH & CO. KG, DE
[85] 2021-08-24
[86] 2020-07-29 (PCT/EP2020/000137)
[87] (WO2021/052611)
[30] DE (10 2019 006 554.9) 2019-09-18

[21] **3,131,268**
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01)**
[25] EN
[54] **METHODS AND AGENTS FOR ASSESSING T-CELL FUNCTION AND PREDICTING RESPONSE TO THERAPY**
[54] **PROCEDES ET AGENTS POUR EVALUER UNE FONCTION DE LYMPHOCYTE T ET PREDIRE UNE REPOSE A UNE THERAPIE**
[72] RAO, SUDHA, AU
[72] MCCUAIG, ROBERT, AU
[71] EPLAXIS THERAPEUTICS PTY LTD, AU
[85] 2021-08-24
[86] 2020-02-27 (PCT/AU2020/050172)
[87] (WO2020/172712)
[30] AU (2019900628) 2019-02-27

[21] **3,131,269**
[13] A1

[51] **Int.Cl. G01V 1/36 (2006.01)**
[25] EN
[54] **PATTERN-GUIDED DIP ESTIMATION**
[54] **ESTIMATION D'INCLINAISON GUIDEE PAR UN MOTIF**
[72] ZHAO, YANG, US
[72] ZHANG, HOUZHU, US
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-08-23
[86] 2020-02-24 (PCT/US2020/019434)
[87] (WO2020/176387)
[30] US (16/284,767) 2019-02-25

[21] **3,131,270**
[13] A1

[51] **Int.Cl. C08G 77/60 (2006.01) C09D 183/16 (2006.01) H01L 21/02 (2006.01)**
[25] EN
[54] **METHOD FOR THE PREPARATION OF HYDRIDOSILANE OLIGOMERS**
[54] **PROCEDE DE PREPARATION D'OLIGOMERES D'HYDRIDOSILANE**
[72] HOLTHAUSEN, MICHAEL, DE
[72] ROCCARO, MAXIMILIAN, DE
[72] POUGIN, ANNA, DE
[72] SCHMITT, DANIEL, DE
[72] ZOLLNER, JORG, DE
[72] DASCHLEIN, CHRISTIAN, DE
[72] WUNNICKE, ODO, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-08-24
[86] 2019-11-28 (PCT/EP2019/082920)
[87] (WO2020/173588)
[30] EP (19159383.9) 2019-02-26

[21] **3,131,272**
[13] A1

[51] **Int.Cl. A61B 8/08 (2006.01) A61B 5/05 (2021.01)**
[25] EN
[54] **HYBRID MEDICAL IMAGING PROBE, APPARATUS AND PROCESS**
[54] **SONDE D'IMAGERIE MEDICALE HYBRIDE, APPAREIL ET PROCEDE**
[72] REZAEIEH, SASAN AHDI, AU
[72] ZAMANI, ALI, AU
[72] ABBOSH, AMIN, AU
[71] EMVISION MEDICAL DEVICES LTD, AU
[85] 2021-08-24
[86] 2020-03-13 (PCT/AU2020/050242)
[87] (WO2020/181336)
[30] AU (2019900842) 2019-03-14

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[21] **3,131,273**
[13] A1

[51] **Int.Cl. H04W 28/22 (2009.01) H04W 4/14 (2009.01) H04W 72/12 (2009.01) H04W 4/38 (2018.01)**

[25] EN

[54] **TELEMATICS DEVICE FOR COMMUNICATING AND COLLECTING AGRICULTURAL DATA**

[54] **DISPOSITIF TELEMATIQUE POUR COMMUNIQUER ET COLLECTER DES DONNEES AGRICOLES**

[72] YOUNG, KEITH ALAN, CA
[72] OSBORNE, RONALD W., JR., CA
[71] FARMERS EDGE INC., CA
[85] 2021-08-24
[86] 2020-04-02 (PCT/CA2020/050437)
[87] (WO2020/210896)
[30] US (62/835,971) 2019-04-18

[21] **3,131,274**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G02B 5/20 (2006.01) G02B 5/22 (2006.01)**

[25] EN

[54] **OPTICAL ABSORPTION FILTER FOR AN INTEGRATED DEVICE**

[54] **FILTRE D'ABSORPTION OPTIQUE POUR DISPOSITIF INTEGRE**

[72] BELLOS, MICHAEL, US
[72] AHMAD, FAISAL R., US
[72] BEACH, JAMES, US
[72] COUMANS, MICHAEL, US
[72] HOSALI, SHARATH, US
[72] KABIRI, ALI, US
[72] PRESTON, KYLE, US
[72] SCHMID, GERARD, US
[72] SHEN, BING, US
[72] ROTHBERG, JONATHAN M., US
[71] QUANTUM-SI INCORPORATED, US
[85] 2021-08-23
[86] 2020-03-03 (PCT/US2020/020847)
[87] (WO2020/180899)
[30] US (62/813,997) 2019-03-05
[30] US (62/831,237) 2019-04-09

[21] **3,131,275**
[13] A1

[51] **Int.Cl. C08L 25/06 (2006.01) C08J 3/20 (2006.01) C08J 3/24 (2006.01) C08K 3/16 (2006.01) C08K 5/19 (2006.01) C08K 5/29 (2006.01) C08L 27/06 (2006.01) C08L 81/06 (2006.01) G01L 9/00 (2006.01) H01L 51/48 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR GENERATING A POLYMER-PEROVSKITE HYBRID**

[54] **PROCEDE ET SYSTEME DE GENERATION D'UN HYBRIDE POLYMER-PEROVSKITE**

[72] MAHESHWARI, VIVEK, CA
[72] SARAF, ROHIT, CA
[71] MAHESHWARI, VIVEK, CA
[71] SARAF, ROHIT, CA
[85] 2021-08-24
[86] 2020-02-25 (PCT/CA2020/050237)
[87] (WO2020/172741)
[30] US (62/919,023) 2019-02-25

[21] **3,131,276**
[13] A1

[51] **Int.Cl. E21B 21/00 (2006.01) E21B 21/01 (2006.01) E21B 41/00 (2006.01) E21B 43/24 (2006.01)**

[25] EN

[54] **ENHANCING SCREW GEOMETRY**

[54] **AMELIORATION DE LA GEOMETRIE D'UNE VIS**

[72] KAPILA, RAJESH C., US
[72] HOFFMAN, BARRY, CA
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-08-24
[86] 2019-05-03 (PCT/US2019/030704)
[87] (WO2020/226607)

[21] **3,131,277**
[13] A1

[51] **Int.Cl. H04B 10/079 (2013.01) H04N 21/438 (2011.01) H04N 7/10 (2006.01) H04N 17/00 (2006.01)**

[25] EN

[54] **NOISE DETECTION AND LOCALIZATION**

[54] **DETECTION ET LOCALISATION DE BRUIT**

[72] TOWFIQ, FOAD, US
[72] KYRYLIUK, IVAN, US
[72] PODAREVSKY, ALEXANDER, US
[72] SHTIKHLAYTNER, ANTONIN, US
[72] ZHUK, IURII, US
[72] ZHURAVLOV, ANDRIY, US
[71] PROMPTLINK COMMUNICATIONS, INC., US
[85] 2021-08-23
[86] 2020-02-24 (PCT/US2020/019540)
[87] (WO2020/172676)
[30] US (62/809,676) 2019-02-24
[30] US (62/908,306) 2019-09-30
[30] US (62/972,550) 2020-02-10

[21] **3,131,278**
[13] A1

[51] **Int.Cl. A45F 5/00 (2006.01) A45C 3/12 (2006.01) A47F 7/08 (2006.01) A47G 25/00 (2006.01)**

[25] EN

[54] **A DISPLAY, SECURING AND TRANSPORTING DEVICE FOR A PAIR OF FOOTWEAR**

[54] **DISPOSITIF DE PRESENTATION, DE FIXATION ET DE TRANSPORT POUR UNE PAIRE DE CHAUSSURES**

[72] YAKLHA, CHEME, CA
[72] RIVEST, HUGUES, CA
[72] LABERGE, MARTIN, CA
[72] LEFEBVRE, PHILIPPE, CA
[71] VLIRKA INCORPORATED, CA
[85] 2021-08-24
[86] 2020-03-10 (PCT/CA2020/050315)
[87] (WO2020/181370)
[30] US (62/816,271) 2019-03-11

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[21] **3,131,279**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 1/14 (2006.01) G01N 21/01 (2006.01) G01N 33/483 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **AUTOMATED MICROFLUIDIC SYSTEM FOR LIFESPAN AND HEALTHSPAN ANALYSIS IN NEMATODES**

[54] **SYSTEME MICROFLUIDIQUE AUTOMATISE POUR L'ANALYSE DE DUREE DE VIE ET D'ETENDUE PLUS SAINE CHEZ LES NEMATODES**

[72] VANAPALLI, SIVA A., US
[72] ANUPOM, TASLIM, US
[72] RAHMAN, MIZANUR, US
[72] GUPTA, SIDDHARTHA, US
[71] TEXAS TECH UNIVERSITY SYSTEM, US

[85] 2021-08-23
[86] 2020-03-05 (PCT/US2020/021065)
[87] (WO2020/181028)
[30] US (62/814,110) 2019-03-05

[21] **3,131,280**
[13] A1

[51] **Int.Cl. G06F 3/048 (2013.01)**

[25] EN

[54] **CONTROLLING FROM A MOBILE DEVICE A GRAPHICAL POINTER DISPLAYED AT A LOCAL COMPUTING DEVICE**

[54] **COMMANDE, PAR UN DISPOSITIF MOBILE, D'UN POINTEUR GRAPHIQUE AFFICHE AU NIVEAU D'UN DISPOSITIF INFORMATIQUE LOCAL**

[72] CHEN, HAO, CN
[72] MOMCHILOV, GEORGY, US
[72] INGALE, MUKUND, US
[72] ISRAEL, JACOB, US
[71] CITRIX SYSTEMS, INC., US

[85] 2021-08-24
[86] 2019-03-13 (PCT/CN2019/077925)
[87] (WO2020/181514)

[21] **3,131,282**
[13] A1

[51] **Int.Cl. H01J 45/00 (2006.01)**

[25] EN

[54] **NANO-SCALE ENERGY CONVERSION DEVICE**

[54] **DISPOSITIF DE CONVERSION D'ENERGIE A L'ECHELLE NANOMETRIQUE**

[72] BIRMINGHAM, JOSEPH, US
[71] BIRMINGHAM TECHNOLOGIES, INC., US

[85] 2021-08-24
[86] 2020-02-21 (PCT/US2020/019230)
[87] (WO2020/176344)
[30] US (16/284,979) 2019-02-25
[30] US (16/284,987) 2019-02-25
[30] US (16/284,967) 2019-02-25

[21] **3,131,283**
[13] A1

[51] **Int.Cl. C10G 67/04 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR PRODUCING LIGHT OLEFINS FROM INFERIOR OILS**

[54] **PROCEDE ET SYSTEME DE PRODUCTION D'OLEFINE LEGERE A PARTIR D'UNE HUILE PAUVRE**

[72] HOU, HUANDI, CN
[72] WEI, XIAOLI, CN
[72] LONG, JUN, CN
[72] DONG, MING, CN
[72] ZHANG, JIUSHUN, CN
[72] HOU, SHUANDI, CN
[72] CHEN, XUEFENG, CN
[72] LIANG, JIALIN, CN
[72] LI, JIGUANG, CN
[72] WANG, CUIHONG, CN
[72] SHEN, HAIPING, CN
[72] GONG, JIANHONG, CN
[72] DAI, LISHUN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] RESEARCH INSTITUTE OF PETROLEUM PROCESSIGN, SINOPEC, CN

[85] 2021-08-24
[86] 2020-03-02 (PCT/CN2020/077389)
[87] (WO2020/177652)
[30] CN (201910159576.5) 2019-03-04
[30] CN (201910159559.1) 2019-03-04
[30] CN (201910159674.9) 2019-03-04

[21] **3,131,285**
[13] A1

[51] **Int.Cl. C07D 239/94 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 239/95 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01)**

[25] EN

[54] **ANILINE-BASED WDR5 PROTEIN-PROTEIN INTERACTION INHIBITOR, METHOD FOR PREPARING THE SAME, AND USE THEREOF**

[54] **INHIBITEUR D'INTERACTION PROTEINE-PROTEINE D'ANILINE WDR5, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] YOU, QIDONG, CN
[72] GUO, XIAOKE, CN
[72] CHEN, WEILIN, CN
[72] LI, DONGDONG, CN
[72] GU, JING, CN
[72] XU, JUN, CN
[72] CHEN, XIN, CN
[72] JIANG, ZHENGYU, CN
[72] XU, XIAOLI, CN
[71] CHINA PHARMACEUTICAL UNIVERSITY, CN

[85] 2021-08-24
[86] 2019-03-22 (PCT/CN2019/079160)
[87] (WO2020/172932)
[30] CN (201910139980.6) 2019-02-26

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[21] **3,131,286**
[13] A1

[51] **Int.Cl. H04N 19/117 (2014.01) H04N 19/124 (2014.01) H04N 19/136 (2014.01) H04N 19/176 (2014.01) H04N 19/30 (2014.01) H04N 19/82 (2014.01) H04N 19/98 (2014.01)**

[25] EN

[54] **CONSTRAINTS ON MODEL-BASED RESHAPING IN VIDEO PROCESSING**

[54] **CONTRAINTES SUR UN REMODELAGE BASE SUR UN MODELE DANS UN TRAITEMENT VIDEO**

[72] ZHANG, KAI, US
[72] ZHANG, LI, US
[72] LIU, HONGBIN, CN
[72] WANG, YUE, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[71] BYTEDANCE INC., US
[85] 2021-08-24
[86] 2020-03-09 (PCT/CN2020/078388)
[87] (WO2020/182092)
[30] CN (PCT/CN2019/077429) 2019-03-08

[21] **3,131,287**
[13] A1

[51] **Int.Cl. C12M 1/24 (2006.01) C12M 1/00 (2006.01) C12M 1/04 (2006.01) C12M 3/00 (2006.01)**

[25] EN

[54] **ADJUSTABLE FERMENTATION AND CELL CULTURE FLASKS**

[54] **FLACONS DE CULTURE CELLULAIRE ET DE FERMENTATION REGLABLES**

[72] RAO, GOVIND, US
[72] KOSTOV, YORDAN, US
[72] TOLOSA, MICHAEL, US
[72] GE, XUDONG, US
[71] UNIVERSITY OF MARYLAND, BALTIMORE COUNTY, US
[85] 2021-08-24
[86] 2020-02-12 (PCT/US2020/017830)
[87] (WO2020/176258)
[30] US (62/809,796) 2019-02-25

[21] **3,131,288**
[13] A1

[51] **Int.Cl. H04N 19/60 (2014.01)**

[25] EN

[54] **AN ENCODER, A DECODER, AND CORRESPONDING METHODS THAT ARE USED FOR TRANSFORM PROCESS**

[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS MIS EN OEUVRE DANS UN PROCESSUS DE TRANSFORMEE**

[72] GAO, HAN, DE
[72] ESENLIK, SEMIH, DE
[72] WANG, BIAO, DE
[72] KOTRA, ANAND MEHER, DE
[72] CHEN, JIANLE, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-08-24
[86] 2020-02-12 (PCT/CN2020/074780)
[87] (WO2020/177509)
[30] US (62/813,136) 2019-03-03
[30] US (62/815,293) 2019-03-07

[21] **3,131,289**
[13] A1

[51] **Int.Cl. H04N 19/423 (2014.01)**

[25] EN

[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS USING IBC DEDICATED BUFFER AND DEFAULT VALUE REFRESHING FOR LUMA AND CHROMA COMPONENT**

[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS UTILISANT UNE MEMOIRE TAMPON DEDIEE IBC ET UN RAFFRAICHISSEMENT DE VALEURS PAR DEFAUT POUR DES COMPOSANTES LUMINANCE ET CHROMINANCE**

[72] GAO, HAN, DE
[72] ESENLIK, SEMIH, DE
[72] WANG, BIAO, DE
[72] KOTRA, ANAND MEHER, DE
[72] CHEN, JIANLE, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-08-24
[86] 2020-05-13 (PCT/CN2020/090053)
[87] (WO2020/228744)
[30] US (62/849,119) 2019-05-16
[30] EP (PCT/EP2019/065540) 2019-06-13

[21] **3,131,291**
[13] A1

[51] **Int.Cl. B64C 25/34 (2006.01) B64C 25/28 (2006.01) B64D 45/00 (2006.01) E05C 3/06 (2006.01)**

[25] EN

[54] **LANDING GEAR AND PIN LOCKED INDICATION**

[54] **TRAIN D'ATTERRISSAGE ET INDICATION VERROUILLEE PAR CODE PIN**

[72] GLEAVE, JAMES, GB
[72] SALCOMBE, ANDREW, GB
[71] TRIUMPH AEROSPACE OPERATIONS UK, LTD, GB
[85] 2021-08-24
[86] 2020-02-24 (PCT/US2020/019470)
[87] (WO2020/180520)
[30] US (62/810,002) 2019-02-25

[21] **3,131,292**
[13] A1

[51] **Int.Cl. A63B 5/11 (2006.01) A63B 71/02 (2006.01)**

[25] EN

[54] **TRAMPOLINE WITH HANDRAIL**

[54] **TRAMPOLINE AVEC RAMPE**

[72] COLLING, MICHAEL J., US
[71] SKYWALKER HOLDINGS, LLC, US
[85] 2021-08-23
[86] 2020-03-06 (PCT/US2020/021384)
[87] (WO2020/181188)
[30] US (16/294,779) 2019-03-06

[21] **3,131,293**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/55 (2006.01) A61P 11/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **JAK INHIBITOR COMPOUND AND USE THEREOF**

[54] **COMPOSE INHIBITEUR DE JAK ET SON UTILISATION**

[72] LU, LIANG, CN
[72] HUANG, HAI, CN
[72] ZHANG, LONGZHENG, CN
[72] ZHAO, SAISAI, CN
[72] ZHANG, JIXUAN, CN
[71] HENAN MEDINNO PHARMACEUTICAL TECHNOLOGY CO., LTD., CN
[85] 2021-08-24
[86] 2020-02-21 (PCT/CN2020/076231)
[87] (WO2020/173400)
[30] CN (201910137984.0) 2019-02-25
[30] CN (201910877661.5) 2019-09-17

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[13] A1

[51] **Int.Cl. C07D 239/95 (2006.01) A61K 31/517 (2006.01)**
[25] EN
[54] **QUINAZOLINONE COMPOUNDS COMPOSES QUINAZOLINONE**
[72] LU, BINGWEI, US
[71] CEREPEUT, INC., US
[85] 2021-08-24
[86] 2020-02-26 (PCT/US2020/019942)
[87] (WO2020/176652)
[30] US (62/811,471) 2019-02-27

[21] **3,131,295**
[13] A1

[51] **Int.Cl. C11D 17/04 (2006.01)**
[25] EN
[54] **FIBROUS WATER-SOLUBLE UNIT DOSE ARTICLES COMPRISING WATER-SOLUBLE FIBROUS STRUCTURES**
[54] **ARTICLES EN DOSE UNITAIRE FIBREUSE HYDROSOLUBLE COMPRENANT DES STRUCTURES FIBREUSES HYDROSOLUBLES**
[72] SIVIK, MARK ROBERT, US
[72] DENOME, FRANK WILLIAM, US
[72] HAMERSKY, MARK WILLIAM, US
[72] DELANEY, SARAH ANN, US
[72] ESCOBAR, SOL MELISSA, US
[72] ENGLISH, JACK WESLEY, US
[72] MAO, MIN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2021-08-23
[86] 2020-03-16 (PCT/US2020/022904)
[87] (WO2020/190838)
[30] EP (19163586.1) 2019-03-19

[21] **3,131,296**
[13] A1

[51] **Int.Cl. C11D 17/04 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING A FIBROUS WATER-SOLUBLE UNIT DOSE ARTICLE**
[54] **PROCEDE DE FABRICATION D'UN ARTICLE FIBREUX EN DOSE UNITAIRE SOLUBLE DANS L'EAU**
[72] SIVIK, MARK ROBERT, US
[72] DENOME, FRANK WILLIAM, US
[72] HAMERSKY, MARK WILLIAM, US
[72] DELANEY, SARAH ANN, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2021-08-23
[86] 2020-03-16 (PCT/US2020/022952)
[87] (WO2020/190858)
[30] EP (19163588.7) 2019-03-19

[21] **3,131,297**
[13] A1

[51] **Int.Cl. H04W 40/02 (2009.01)**
[25] EN
[54] **USER EXPERIENCE ORIENTED PATH SELECTION**
[54] **SELECTION DE TRAJET AXEE SUR EXPERIENCE UTILISATEUR**
[72] CHU, XIAOLU, CN
[72] ZHANG, JINREN, CN
[72] ZHUANG, JIE, CN
[72] ZHAN, TAO, CN
[71] CITRIX SYSTEMS, INC., US
[85] 2021-08-24
[86] 2019-03-11 (PCT/CN2019/077609)
[87] (WO2020/181449)

[21] **3,131,298**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 11/00 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **TRITERPENOID ANTIFUNGALS FOR THE TREATMENT OR PREVENTION OF PNEUMOCYSTIS SPP. PNEUMONIA**
[54] **ANTIFONGIQUES TRITERPENOIDES POUR LE TRAITEMENT OU LA PREVENTION DE LA PNEUMONIE A PNEUMOCYSTIS SPP.**
[72] ANGULO GONZALEZ, DAVID A., US
[72] BARAT, STEPHEN ANDREW, US
[71] SCYNEXIS, INC., US
[85] 2021-08-24
[86] 2020-02-25 (PCT/US2020/019724)
[87] (WO2020/176527)
[30] US (62/811,456) 2019-02-27

[21] **3,131,299**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 38/17 (2006.01) A61P 37/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **ANTI-CD6 ANTIBODY COMPOSITIONS AND METHODS FOR TREATING LUPUS**
[54] **COMPOSITIONS D'ANTICORPS ANTI-CD6 ET METHODES DE TRAITEMENT DE LUPUS**
[72] CONNELLY, STEPHEN, US
[72] POLU, KRISHNA, US
[72] MOHAN, CHANDRA, US
[71] EQUILLIUM, INC., US
[71] UNIVERSITY OF HOUSTON SYSTEM, US
[85] 2021-08-24
[86] 2020-02-26 (PCT/US2020/019990)
[87] (WO2020/176682)
[30] US (62/810,628) 2019-02-26
[30] US (62/933,294) 2019-11-08

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[21] **3,131,300**
[13] A1

[51] **Int.Cl. G21C 11/08 (2006.01) G21C 1/09 (2006.01) G21C 1/22 (2006.01) G21C 1/32 (2006.01) G21C 13/02 (2006.01)**

[25] EN

[54] **NUCLEAR THERMAL PROPULSION NUCLEAR REACTOR INTERFACE STRUCTURE**

[54] **STRUCTURE D'INTERFACE DE REACTEUR NUCLEAIRE A PROPULSION THERMIQUE NUCLEAIRE**

[72] INMAN, JAMES BRIAN, US

[72] WHITTEN, ANDREW C., US

[71] BWXT NUCLEAR ENERGY, INC., US

[85] 2021-08-23

[86] 2020-03-19 (PCT/US2020/023587)

[87] (WO2020/209997)

[30] US (62/820,622) 2019-03-19

[21] **3,131,302**
[13] A1

[51] **Int.Cl. C07D 213/81 (2006.01) A61K 31/426 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING 6-(1-ACRYLOYLPYPERIDIN-4-YL)-2-(4-PHENOXYPHENYL)NICOTINAMIDE**

[54] **PROCEDE DE PREPARATION DE 6-(1-ACRYLOYLPYPERIDIN-4-YL)-2-(4-PHENOXYPHENYL)NICOTINAMIDE**

[72] CHEN, XIANGYANG, CN

[71] BEIJING INNOCARE PHARMA TECH CO., LTD., CN

[85] 2021-08-24

[86] 2020-02-24 (PCT/CN2020/076387)

[87] (WO2020/173407)

[30] US (62/810,305) 2019-02-25

[21] **3,131,303**
[13] A1

[51] **Int.Cl. C09K 11/67 (2006.01) C09K 11/77 (2006.01) H05B 33/14 (2006.01)**

[25] EN

[54] **A LIGHTING DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE**

[72] LASTUSAARI, MIKA, FI

[72] NORRBO, ISABELLA, FI

[71] TURUN YLIOPISTO, FI

[85] 2021-08-24

[86] 2020-02-17 (PCT/FI2020/050096)

[87] (WO2020/174124)

[30] FI (20195144) 2019-02-26

[21] **3,131,305**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**

[25] EN

[54] **EXPANSION OF TUMOR INFILTRATING LYMPHOCYTES FROM LIQUID TUMORS AND THERAPEUTIC USES THEREOF**

[54] **EXPANSION DE LYMPHOCYTES INFILTRANT LES TUMEURS A PARTIR DE TUMEURS LIQUIDES ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] KARYAMPUDI, LAVAKUMAR, US

[71] IOVANCE BIOTHERAPEUTICS, INC., US

[85] 2021-08-24

[86] 2020-02-28 (PCT/US2020/020505)

[87] (WO2020/180733)

[30] US (62/812,900) 2019-03-01

[30] US (62/857,219) 2019-06-04

[21] **3,131,307**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **FORMULATION COMPRISING ANTI-CD47 ANTIBODY, PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **PREPARATIONS CONTENANT UN ANTICORPS ANTI-CD47, LEUR PROCEDE DE PREPARATION ET UTILISATION ASSOCIEE**

[72] XIE, RUIXIA, CN

[72] MA, LIQIANG, CN

[72] WANG, YINJUE, CN

[72] ZHOU, KAISONG, CN

[71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN

[85] 2021-08-24

[86] 2020-02-25 (PCT/CN2020/076611)

[87] (WO2020/173431)

[30] CN (201910141894.9) 2019-02-26

[21] **3,131,309**
[13] A1

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

[25] EN

[54] **HEIGHT ADJUSTING AND LEVELING WORKSURFACE CANTILEVER**

[54] **ELEMENT EN PORTE-A-FAUX POUR REGLER LA HAUTEUR ET METTRE A NIVEAU UNE SURFACE DE TRAVAIL**

[72] BROWN, THOMAS A., CA

[72] GOSLING, GEOFF W., CA

[72] VULIC, JOSEPH A., CA

[71] DIRTT ENVIRONMENTAL SOLUTIONS LTD., CA

[85] 2021-08-23

[86] 2020-03-20 (PCT/US2020/023935)

[87] (WO2020/191324)

[30] US (62/821,403) 2019-03-20

[21] **3,131,310**
[13] A1

[51] **Int.Cl. A23L 17/00 (2016.01) A23P 20/10 (2016.01) A23P 20/12 (2016.01) A23P 20/18 (2016.01) A23P 30/00 (2016.01)**

[25] EN

[54] **FROZEN BATTERED FISH PRODUCT**

[54] **PRODUIT DE POISSON PANE CONGELE**

[72] BURNETT, ALAN MICHAEL, GB

[71] YOUNG'S SEAFOOD LIMITED, GB

[85] 2021-08-24

[86] 2020-02-27 (PCT/GB2020/050465)

[87] (WO2020/174244)

[30] GB (1902609.5) 2019-02-27

[21] **3,131,311**
[13] A1

[51] **Int.Cl. H04N 19/513 (2014.01)**

[25] EN

[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR INTER PREDICTION**

[54] **ENCODEUR, DECODEUR ET PROCEDES CORRESPONDANTS POUR L'INTERPREDICTION**

[72] SETHURAMAN, SRIRAM, IN

[72] KOTECHA, SAGAR, IN

[72] A, JEEVA RAJ, IN

[71] HUAWAI TECHNOLOGIES CO., LTD., CN

[85] 2021-08-24

[86] 2020-02-28 (PCT/CN2020/077121)

[87] (WO2020/181997)

[30] IN (201931009184) 2019-03-08

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[21] **3,131,312**
[13] A1

[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/4545 (2006.01) A61P 15/00 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **TREATMENT WITH P2X3 MODULATORS**

[54] **TRAITEMENT AVEC DES MODULATEURS DE P2X3**

[72] MATZOURANIS, ANTONIOS, CA

[72] GARCEAU, DENIS, CA

[72] BELLINI, ROBERTO, CA

[71] BELLUS HEALTH COUGH INC., CA

[85] 2021-08-24

[86] 2020-02-24 (PCT/IB2020/000160)

[87] (WO2020/174283)

[30] US (62/810,163) 2019-02-25

[21] **3,131,313**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/06 (2006.01) A61B 17/80 (2006.01)**

[25] EN

[54] **SURGICAL FIXATION SYSTEMS AND ASSOCIATED METHODS**

[54] **SYSTEMES DE FIXATION CHIRURGICALE ET PROCEDES ASSOCIES**

[72] BACHMAIER, SAMUEL, DE

[72] JOLLY, JAKE, US

[72] SWANLAW, TARA, US

[72] BAKER, COLIN, US

[72] ESPOSITO, TYLER, US

[71] ARTHREX, INC., US

[85] 2021-08-24

[86] 2020-03-04 (PCT/US2020/020952)

[87] (WO2020/180963)

[30] US (62/813,903) 2019-03-05

[30] US (62/813,904) 2019-03-05

[21] **3,131,314**
[13] A1

[51] **Int.Cl. A61G 3/08 (2006.01)**

[25] EN

[54] **MOBILITY DEVICE SECUREMENT SYSTEM**

[54] **SYSTEME DE FIXATION DE DISPOSITIF DE MOBILITE**

[72] GIRARDIN, JEAN-MARC, US

[72] GIRARDIN, PATRICK, US

[72] OTT, WILLIAM, US

[72] TURCANU, OVIDIUS, US

[72] SLEVINSKY, PAUL, CA

[72] MARTE, IVAN, US

[71] VALEDA COMPANY, LLC, US

[85] 2021-08-23

[86] 2020-03-30 (PCT/US2020/025803)

[87] (WO2020/198747)

[30] US (62/825,325) 2019-03-28

[30] US (62/960,883) 2020-01-14

[21] **3,131,316**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) A61P 31/04 (2006.01)**

[25] EN

[54] **BACTERIOPHAGE FOR MODULATING INFLAMMATORY BOWEL DISEASE**

[54] **BACTERIOPHAGE POUR MODULER UNE MALADIE INTESTINALE INFLAMMATOIRE**

[72] HONDA, KENYA, JP

[72] ATARASHI, KOJI, JP

[72] NARUSHIMA, SEIKO, JP

[72] KHABRA, EFRAT, IL

[72] BEN DAVID, HAVA, IL

[72] WEINSTOCK, EYAL, IL

[72] MATIUHIN, YULIA, IL

[72] ZAK, NAOMI BLUMA, IL

[71] KEIO UNIVERSITY, JP

[71] BIOMX LTD., IL

[85] 2021-08-24

[86] 2020-03-06 (PCT/IB2020/000182)

[87] (WO2020/178636)

[30] US (62/815,265) 2019-03-07

[21] **3,131,318**
[13] A1

[51] **Int.Cl. A45D 29/00 (2006.01) A45D 29/11 (2006.01) A45D 29/12 (2006.01) A45D 29/14 (2006.01) A45D 34/04 (2006.01)**

[25] EN

[54] **AUTOMATIC NAIL POLISH APPLICATION SYSTEM AND METHOD**

[54] **DISPOSITIF ET PROCEDE D'APPLICATION AUTOMATIQUE DE VERNIS A ONGLES**

[72] APTE, RENUKA AJAY, US

[72] FELDSTEIN, AARON JAMES, US

[72] SUNDEN, ERIK OSCAR, US

[71] ELEMENTREE INC., US

[85] 2021-08-24

[86] 2020-02-24 (PCT/US2020/019555)

[87] (WO2020/176430)

[30] US (62/810,906) 2019-02-26

[21] **3,131,320**
[13] A1

[51] **Int.Cl. B29C 64/124 (2017.01) B33Y 10/00 (2015.01)**

[25] EN

[54] **METHOD FOR THE LITHOGRAPHY-BASED ADDITIVE MANUFACTURING OF A THREE-DIMENSIONAL COMPONENT**

[54] **PROCEDE DE PREPARATION GENERATIVE A BASE DE LITHOGRAPHIE D'UN COMPOSANT TRIDIMENSIONNEL**

[72] GRUBER, PETER, AT

[71] UPNANO GMBH, AT

[85] 2021-08-24

[86] 2020-02-26 (PCT/IB2020/051626)

[87] (WO2020/174411)

[30] EP (19450004.7) 2019-02-26

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[13] A1

[51] **Int.Cl. A63F 13/67 (2014.01) A63F 13/77 (2014.01)**
[25] EN
[54] **GAME BOT GENERATION FOR GAMING APPLICATIONS**
[54] **GENERATION DE ROBOT DE JEU POUR DES APPLICATIONS DE JEU**
[72] YANNAKAKIS, GEORGIOS, MT
[72] PEDERSEN, CHRISTOFFER HOLMGARD, DK
[72] HENRIKSEN, LARS, DK
[72] MIKKELSEN, BENEDIKTE, DK
[72] RISI, SEBASTIAN, DK
[72] JUSTESEN, NIELS ORSLEFF, DK
[72] TOGELIUS, JULIAN, US
[71] MODLAI APS, DK
[85] 2021-08-24
[86] 2020-03-18 (PCT/US2020/023290)
[87] (WO2020/191015)
[30] US (62/820,412) 2019-03-19
[30] US (62/820,417) 2019-03-19
[30] US (62/820,424) 2019-03-19
[30] US (62/946,019) 2019-12-10
[30] US (62/946,824) 2019-12-11
[30] US (62/966,669) 2020-01-28
[30] US (62/967,845) 2020-01-30
[30] US (16/821,020) 2020-03-17

[21] **3,131,339**
[13] A1

[51] **Int.Cl. A23K 50/80 (2016.01) A23K 10/30 (2016.01) A23K 20/158 (2016.01) A23K 40/00 (2016.01) A23K 40/25 (2016.01) A01K 61/85 (2017.01) A01K 63/04 (2006.01)**
[25] EN
[54] **AN AQUACULTURE FEED WITH HIGH WATER AND OIL CONTENT AND A SYSTEM AND METHOD FOR MANUFACTURING SAID AQUACULTURE FEED**
[54] **ALIMENT POUR AQUACULTURE A TENEUR ELEVEE EN EAU ET EN HUILE ET SYSTEME ET PROCEDE DE FABRICATION DUDIT ALIMENT POUR AQUACULTURE**
[72] DETHLEFSEN, MARKUS WIED, DK
[72] HOLGERSEN, KLAUS DAMSBOE, DK
[72] SIMONSEN, BENNY, DK
[71] GRAINTEC A/S, DK
[85] 2021-08-24
[86] 2020-02-28 (PCT/DK2020/050057)
[87] (WO2020/173535)
[30] DK (PA 2019 70142) 2019-02-28

[21] **3,131,340**
[13] A1

[51] **Int.Cl. G06N 7/00 (2006.01) G06N 99/00 (2019.01) G06Q 30/02 (2012.01) H04L 9/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ETHICAL COLLECTION OF DATA**
[54] **SYSTEME ET PROCEDE POUR UNE COLLECTE ETHIQUE DE DONNEES**
[72] WALSH, BRANDY, US
[72] PAQUETTE, GERI, US
[72] THOMAS, TODD, US
[72] DONOVAN, BRYAN, US
[71] ACXIOM LLC, US
[85] 2021-08-24
[86] 2020-06-12 (PCT/US2020/037491)
[87] (WO2021/025785)
[30] US (62/884,025) 2019-08-07

[21] **3,131,342**
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01) H04N 7/14 (2006.01)**
[25] EN
[54] **ONLINE MEDIATION AND SETTLEMENT OF DISPUTES**
[54] **MEDIATION ET REGLEMENT DE CONFLITS EN LIGNE**
[72] BIBBY, CLAIRE, AU
[72] KEILY, LAURA, AU
[71] DISPUTECH IP HOLDCO PTY LTD, AU
[85] 2021-08-24
[86] 2020-02-27 (PCT/IB2020/051662)
[87] (WO2020/174430)
[30] AU (2019900615) 2019-02-27
[30] AU (2019903425) 2019-09-13

[21] **3,131,343**
[13] A1

[51] **Int.Cl. A61F 2/28 (2006.01)**
[25] EN
[54] **CUSTOMIZED TIBIAL TRAYS, METHODS, AND SYSTEMS FOR KNEE REPLACEMENT**
[54] **PLATEAUX TIBIAUX PERSONNALISES, PROCEDES ET SYSTEMES DE REMPLACEMENT DU GENOU**
[72] UNIS, DOUGLAS B., US
[72] SCIFERT, CHRIS, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[71] MONOGRAM ORTHOPAEDICS INC., US
[85] 2021-08-24
[86] 2020-02-28 (PCT/US2020/020279)
[87] (WO2020/176824)
[30] US (62/811,855) 2019-02-28
[30] US (62/879,800) 2019-07-29

[21] **3,131,344**
[13] A1

[51] **Int.Cl. G16B 45/00 (2019.01) G16B 10/00 (2019.01) G16B 20/00 (2019.01) G16B 50/00 (2019.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACE DISPLAYING RELATEDNESS BASED ON SHARED DNA**
[54] **INTERFACE UTILISATEUR GRAPHIQUE AFFICHANT UNE PARENTE SUR LA BASE D'UN ADN PARTAGE**
[72] SONG, SHIYA, US
[72] VARNER, NEAL CRAIG, US
[72] CURTIS, ROSS E., US
[72] KERR, BRIAN JEREL, US
[72] BECKER, KELLY MCCLOY, US
[72] JORGENSEN, BRETT FREDERICK, US
[72] RIRIE, BRYCE DAMON, US
[72] MULLIGAN, MICHAEL JOSEPH, US
[72] VAN DYKE, JUSTIN MATTHEW ROBERT, US
[72] BONKEMEYER, MICHAELA BLACK, US
[71] ANCESTRY.COM DNA, LLC, US
[85] 2021-08-24
[86] 2020-02-27 (PCT/IB2020/051694)
[87] (WO2020/174442)
[30] US (62/811,505) 2019-02-27
[30] US (62/882,438) 2019-08-02

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<p style="text-align: center;">[21] 3,131,354 [13] A1</p> <p>[51] Int.Cl. A61M 60/161 (2021.01) A61M 60/289 (2021.01) A61M 60/468 (2021.01) A61M 60/538 (2021.01) A61M 60/839 (2021.01) A61M 60/865 (2021.01) A61M 60/873 (2021.01) A61M 60/876 (2021.01) A61M 60/88 (2021.01) A61M 60/882 (2021.01)</p> <p>[25] EN</p> <p>[54] A COLLAPSIBLE AND ADJUSTABLE VESSEL TREATMENT DEVICE AND ADVANCED CUFF WITH INDEPENDENT AND DYNAMICALLY CONTROLLED CHARGE AND DISCHARGE MODES FOR A VESSEL OR SAC WALL TREATMENT AND A CARDIAC ASSIST DEVICE</p> <p>[54] DISPOSITIF DE TRAITEMENT DE VAISSEAU PLIABLE ET REGLABLE ET MANCHON PERFECTIONNE AVEC MODES DE CHARGE ET DE DECHARGE INDEPENDANTS ET COMMANDES DYNAMIQUEMENT POUR UN TRAITEMENT D'U N VAISSEAU OU D'UNE PAROI DE SAC ET DISPOSITIF D'ASSISTANCE CARDIAQUE</p> <p>[72] WALSH, PETER WILLIAM, AU</p> <p>[72] LOWRY, ADRIAN JEFFERY, AU</p> <p>[72] NEELI, MADHUSUDANRAO, AU</p> <p>[72] ROMERO, DAVID, AU</p> <p>[72] AMAYA CATANO, JORGE ALBERTO, AU</p> <p>[71] QHEART MEDICAL PTY LTD, AU</p> <p>[85] 2021-08-19</p> <p>[86] 2019-02-21 (PCT/AU2019/000021)</p> <p>[87] (WO2019/161432)</p>	<p style="text-align: center;">[21] 3,131,356 [13] A1</p> <p>[25] EN</p> <p>[54] CLIENT COMPUTING DEVICE PROVIDING END-TO-END QUALITY OF SERVICE (QOS) CONTROL FOR SOFTWARE AS A SERVICE (SAAS) SESSIONS AND RELATED METHODS</p> <p>[54] DISPOSITIF INFORMATIQUE CLIENT FOURNISSANT UN CONTROLE DE LA QUALITE DE SERVICE (QOS) DE BOUT EN BOUT POUR DES SESSIONS DE LOGICIEL EN TANT QUE SERVICE (SAAS) ET PROCEDES CORRESPONDANTS</p> <p>[72] MOMCHILOV, GEORGY, US</p> <p>[72] VAN ROTTERDAM, JEROEN MATTIJS, US</p> <p>[71] CITRIX SYSTEMS, INC., US</p> <p>[85] 2021-08-24</p> <p>[86] 2020-01-24 (PCT/US2020/014885)</p> <p>[87] (WO2020/176180)</p> <p>[30] US (16/287,353) 2019-02-27</p>	<p style="text-align: center;">[21] 3,131,358 [13] A1</p> <p>[51] Int.Cl. H02K 1/18 (2006.01) H01F 27/24 (2006.01) H01F 27/245 (2006.01)</p> <p>[25] EN</p> <p>[54] LAMINATED CORE, CORE BLOCK, ELECTRIC MOTOR AND METHOD OF PRODUCING CORE BLOCK</p> <p>[54] NOYAU STRATIFIE, BLOC DE NOYAU, MACHINE ELECTRIQUE TOURNANTE, ET PROCEDE DE FABRICATION DE BLOC DE NOYAU</p> <p>[72] HONMA, REI, JP</p> <p>[72] HIRAYAMA, RYU, JP</p> <p>[72] TAKEDA, KAZUTOSHI, JP</p> <p>[71] NIPPON STEEL CORPORATION, JP</p> <p>[85] 2021-08-24</p> <p>[86] 2019-12-17 (PCT/JP2019/049289)</p> <p>[87] (WO2020/129938)</p> <p>[30] JP (2018-235856) 2018-12-17</p> <p>[30] JP (2018-235872) 2018-12-17</p> <p>[30] JP (2019-118338) 2019-06-26</p> <p>[30] JP (2019-118339) 2019-06-26</p>
<p style="text-align: center;">[21] 3,131,355 [13] A1</p> <p>[51] Int.Cl. A01C 5/06 (2006.01)</p> <p>[25] EN</p> <p>[54] WHEEL FOR CLOSING SYSTEM</p> <p>[54] ROUE POUR SYSTEME DE FERMETURE</p> <p>[72] RADTKE, IAN, US</p> <p>[71] PRECISION PLANTING LLC, US</p> <p>[85] 2021-08-24</p> <p>[86] 2020-04-16 (PCT/IB2020/053599)</p> <p>[87] (WO2020/225623)</p> <p>[30] US (62/843,037) 2019-05-03</p> <p>[30] US (62/866,700) 2019-06-26</p> <p>[30] US (62/967,272) 2020-01-29</p> <p>[30] US (62/985,094) 2020-03-04</p>	<p style="text-align: center;">[21] 3,131,357 [13] A1</p> <p>[51] Int.Cl. A42B 1/06 (2021.01) A42B 1/24 (2021.01) A42B 3/00 (2006.01) A42B 3/04 (2006.01) A42B 3/08 (2006.01)</p> <p>[25] EN</p> <p>[54] CONVERTIBLE TRAVEL ACCESSORY</p> <p>[54] ACCESSOIRE DE VOYAGE CONVERTIBLE</p> <p>[72] DIAZ, WILLIAM, US</p> <p>[71] DIAZ, WILLIAM, US</p> <p>[85] 2021-08-24</p> <p>[86] 2020-02-10 (PCT/US2020/017451)</p> <p>[87] (WO2020/167637)</p> <p>[30] US (62/803,839) 2019-02-11</p> <p>[30] US (62/820,545) 2019-03-19</p>	<p style="text-align: center;">[21] 3,131,361 [13] A1</p> <p>[51] Int.Cl. F25D 3/08 (2006.01) A45C 7/00 (2006.01) A45C 13/22 (2006.01) A45C 13/26 (2006.01) F25D 3/06 (2006.01) F25D 31/00 (2006.01)</p> <p>[25] EN</p> <p>[54] VESSEL WITH SUSPENSION SYSTEM</p> <p>[54] RESERVOIR AVEC SYSTEME DE SUSPENSION</p> <p>[72] FILIAU, CAMERON, US</p> <p>[71] COOL GEAR INTERNATIONAL, LLC, US</p> <p>[85] 2021-08-24</p> <p>[86] 2020-02-13 (PCT/US2020/018057)</p> <p>[87] (WO2020/176265)</p> <p>[30] US (62/811,013) 2019-02-27</p>

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[21] **3,131,362**
[13] A1

[51] **Int.Cl. F01K 23/10 (2006.01) F01K 13/02 (2006.01) F01K 17/04 (2006.01) F02C 3/34 (2006.01)**

[25] EN

[54] **GAS TURBINE PLANT AND EXHAUST CARBON DIOXIDE RECOVERY METHOD THEREFOR**

[54] **INSTALLATION DE TURBINE A GAZ ET SON PROCEDE DE RECUPERATION DE DIOXYDE DE CARBONE D'ECHAPPEMENT**

[72] NAGAFUCHI, NAOYUKI, JP

[72] TSUTSUMI, ATSUSHI, JP

[72] KAMIJO, TAKASHI, JP

[72] SHIGETA, HIROAKI, JP

[71] MITSUBISHI POWER, LTD., JP

[71] MITSUBISHI HEAVY INDUSTRIES ENGINEERING, LTD., JP

[85] 2021-08-24

[86] 2020-01-31 (PCT/JP2020/003694)

[87] (WO2020/175012)

[30] JP (2019-036442) 2019-02-28

[21] **3,131,363**
[13] A1

[51] **Int.Cl. H04R 7/02 (2006.01) H04R 1/00 (2006.01) H04R 7/00 (2006.01) H04R 9/00 (2006.01)**

[25] EN

[54] **A MULTI-RANGE SPEAKER CONTAINING MULTIPLE DIAPHRAGMS**

[54] **HAUT-PARLEUR A MULTIPLES PLAGES CONTENANT DE MULTIPLES DIAPHRAGMES**

[72] CHO, LEEG HYUN, KR

[72] CHO, YOUNGIL, US

[72] FEMRITE, CHRISTIAN, US

[71] RESONADO, INC., US

[85] 2021-08-24

[86] 2020-02-18 (PCT/US2020/018588)

[87] (WO2020/176285)

[30] US (62/809,866) 2019-02-25

[30] US (16/659,389) 2019-10-21

[21] **3,131,366**
[13] A1

[51] **Int.Cl. A61K 31/436 (2006.01) A61K 9/10 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **EXTERNAL PREPARATION FOR VASCULAR ABNORMALITY TREATMENT**

[54] **PREPARATION EXTERNE POUR TRAITEMENT D'ANOMALIE VASCULAIRE**

[72] KANEDA, MARI, JP

[71] OSAKA UNIVERSITY, JP

[85] 2021-08-24

[86] 2020-02-12 (PCT/JP2020/005252)

[87] (WO2020/175131)

[30] JP (2019-034071) 2019-02-27

[21] **3,131,367**
[13] A1

[51] **Int.Cl. H01J 45/00 (2006.01)**

[25] EN

[54] **NANO-SCALE ENERGY CONVERSION DEVICE**

[54] **DISPOSITIF DE CONVERSION D'ENERGIE NANOMETRIQUE**

[72] BIRMINGHAM, JOSEPH, US

[71] BIRMINGHAM TECHNOLOGIES, INC., US

[85] 2021-08-24

[86] 2020-02-21 (PCT/US2020/019232)

[87] (WO2020/176345)

[30] US (16/284,979) 2019-02-25

[30] US (16/284,967) 2019-02-25

[30] US (16/284,987) 2019-02-25

[21] **3,131,369**
[13] A1

[51] **Int.Cl. G03F 1/62 (2012.01)**

[25] EN

[54] **PELLICLE INTERMEDIARY BODY, PELLICLE, METHOD FOR MANUFACTURING OF PELLICLE INTERMEDIARY BODY, AND PELLICLE MANUFACTURING METHOD**

[54] **PELLICULE INTERMEDIAIRE, PELLICULE, PROCEDE DE FABRICATION DE PELLICULE INTERMEDIAIRE ET PROCEDE DE FABRICATION DE PELLICULE**

[72] OKU, HIDEHIKO, JP

[72] MIHARA, KEI, JP

[72] HIDE, ICHIRO, JP

[71] AIR WATER INC., JP

[85] 2021-08-24

[86] 2020-02-21 (PCT/JP2020/007003)

[87] (WO2020/175355)

[30] JP (2019-031707) 2019-02-25

[21] **3,131,370**
[13] A1

[51] **Int.Cl. G06F 16/332 (2019.01)**

[25] EN

[54] **INTENT-DRIVEN CONTACT CENTER**

[54] **CENTRE DE CONTACT ENTRAINE PAR INTENTION**

[72] DUNN, MATTHEW, US

[72] BRADLEY, JOE, US

[72] ONU, LAURA, US

[71] LIVEPERSON, INC., US

[85] 2021-08-24

[86] 2020-02-21 (PCT/US2020/019273)

[87] (WO2020/176353)

[30] US (62/810,146) 2019-02-25

[21] **3,131,372**
[13] A1

[51] **Int.Cl. B60J 3/02 (2006.01) B60R 16/02 (2006.01)**

[25] EN

[54] **THIN VISOR**

[54] **PARE-SOLEIL MINCE**

[72] HUFF, DAVID, US

[71] IRVIN AUTOMOTIVE PRODUCTS, LLC, US

[85] 2021-08-24

[86] 2020-02-24 (PCT/US2020/019404)

[87] (WO2020/176372)

[30] US (16/288,612) 2019-02-28

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[21] **3,131,373**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 31/352 (2006.01) A61K 36/31 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **COMPOSITION CONTAINING PLANT-DERIVED EXTRACT AND/OR PLANT-DERIVED PROCESSED PRODUCT**

[54] **COMPOSITION CONTENANT UN EXTRAIT VEGETAL ET/OU UN PRODUIT TRANSFORME D'ORIGINE VEGETALE**

[72] IKEDA, YASUTAKA, JP
[72] MIZOKAMI, TSUBASA, JP
[72] AKIYAMA, MINORU, JP
[72] ABIRU, YASUHIRO, JP
[72] OYAMA, AYUKO, JP
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP

[85] 2021-08-24
[86] 2020-02-26 (PCT/JP2020/007858)
[87] (WO2020/175579)
[30] JP (2019-034822) 2019-02-27

[21] **3,131,375**
[13] A1

[51] **Int.Cl. F16H 3/44 (2006.01) B60K 17/22 (2006.01) B60T 1/06 (2006.01) B64C 13/00 (2006.01) B64C 13/24 (2006.01) B64C 13/34 (2006.01) F16D 63/00 (2006.01)**

[25] EN

[54] **SELF-BINDING NON-JAMMING STOP MODULE FOR ROTARY DRIVE ACTUATOR**

[54] **MODULE D'ARRET SANS BLOCAGE A LIAISON AUTOMATIQUE POUR D'ENTRAINEMENT ROTATIF**

[72] ARCE, ARTURO M., US
[71] MOOG INC., US

[85] 2021-08-24
[86] 2020-02-24 (PCT/US2020/019407)
[87] (WO2020/176375)
[30] US (62/810,130) 2019-02-25

[21] **3,131,376**
[13] A1

[51] **Int.Cl. H04J 1/05 (2006.01) H04L 5/06 (2006.01)**

[25] EN

[54] **RESOURCE CONSERVING WEIGHTED OVERLAP-ADD CHANNELIZER**

[54] **CANALISEUR A AJOUT DE CHEVAUCHEMENT PONDERE A CONSERVATION DE RESSOURCES**

[72] ZHANG, HANHUI, US
[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2021-08-24
[86] 2020-02-24 (PCT/US2020/019498)
[87] (WO2020/172666)
[30] US (16/283,770) 2019-02-24

[21] **3,131,377**
[13] A1

[51] **Int.Cl. H01L 37/00 (2006.01) H01L 23/12 (2006.01) H01L 25/10 (2006.01) H01L 25/11 (2006.01) H01L 25/18 (2006.01) H05K 1/18 (2006.01)**

[25] EN

[54] **SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH ELECTRIC POWER GENERATION FUNCTION**

[54] **DISPOSITIF A CIRCUIT INTEGRE A SEMI-CONDUCTEUR AYANT UNE FONCTION DE GENERATION D'ENERGIE**

[72] GOTO, HIROSHI, JP
[72] SAKATA, MINORU, JP
[71] GCE INSTITUTE INC., JP

[85] 2021-08-24
[86] 2020-03-02 (PCT/JP2020/008578)
[87] (WO2020/184234)
[30] JP (2019-044970) 2019-03-12

[21] **3,131,378**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61B 1/227 (2006.01)**

[25] EN

[54] **INTRATYMPANIC INJECTOR DEVICES AND NEEDLES FOR DELIVERY OF DRUGS AND METHODS OF USE**

[54] **DISPOSITIFS D'INJECTION INTRATYMPANIQUES ET AIGUILLES POUR L'ADMINISTRATION DE MEDICAMENTS, ET PROCEDES D'UTILISATION**

[72] SACHERMAN, KEVIN W., US
[72] AYOOB, ANDREW, US
[72] ERICKSON, SIGNE, US
[72] PERIS, HUGO, US
[72] LIMB, CHARLES, US
[72] DE JUAN, JR., EUGENE, US
[71] SPIRAL THERAPEUTICS INC., US

[85] 2021-08-24
[86] 2020-02-24 (PCT/US2020/019517)
[87] (WO2020/176419)
[30] US (62/810,162) 2019-02-25

[21] **3,131,379**
[13] A1

[51] **Int.Cl. A61L 15/24 (2006.01) A61L 15/26 (2006.01) A61L 15/42 (2006.01)**

[25] EN

[54] **ANTIBACTERIAL WOUND TREATMENTS WITH CLOT-PROMOTING PROPERTIES**

[54] **TRAITEMENTS ANTIBACTERIENS DE PLAIES COMPORTANT DES PROPRIETES FAVORISANT LES CAILLOTS**

[72] PANT, JITENDRA, US
[72] NGUYEN, DIEU THAO, US
[72] HANDA, HITESH, US
[71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US

[85] 2021-08-24
[86] 2020-02-25 (PCT/US2020/019701)
[87] (WO2020/176507)
[30] US (62/810,634) 2019-02-26

Demandes PCT entrant en phase nationale

[21] **3,131,380**
[13] A1

[51] **Int.Cl. A47L 13/254 (2006.01) B08B 9/027 (2006.01) B08B 9/087 (2006.01)**

[25] EN
[54] **SURFACE CLEANING TOOLS**
[54] **OUTILS DE NETTOYAGE DE SURFACES**

[72] MARTINEZ, LORENA, US
[72] LECOMPTE, PHILLIP, US
[72] TAYLOR, MARY, US
[71] MICRONOVA MANUFACTURING, INC., US

[85] 2021-08-24
[86] 2020-02-24 (PCT/US2020/019536)
[87] (WO2020/176423)
[30] US (62/810,026) 2019-02-25

[21] **3,131,382**
[13] A1

[51] **Int.Cl. A61K 36/82 (2006.01) A61K 8/9789 (2017.01) A61K 8/64 (2006.01) A61K 38/06 (2006.01) A61K 45/06 (2006.01) A61P 17/02 (2006.01) A61P 17/16 (2006.01) A61Q 19/00 (2006.01)**

[25] EN
[54] **METHODS, COMPOSITIONS, SHEETS FOR THERAPEUTIC SKIN TREATMENTS**
[54] **METHODES, COMPOSITIONS ET FEUILLES POUR TRAITEMENTS THERAPEUTIQUES DE LA PEAU**

[72] HERNANDEZ, STEVEN M., US
[71] TOPIX PHARMACEUTICALS, INC., US

[85] 2021-08-24
[86] 2020-02-25 (PCT/US2020/019579)
[87] (WO2020/176434)
[30] US (62/810,079) 2019-02-25

[21] **3,131,383**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4427 (2006.01) A61K 31/4433 (2006.01) A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) A61K 31/506 (2006.01) A61K 31/513 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN
[54] **P300/CBP HAT INHIBITORS AND METHODS FOR THEIR USE**
[54] **INHIBITEURS DE P300/CBP HAT ET LEURS PROCEDES D'UTILISATION**

[72] WILSON, JONATHAN E., US
[71] CONSTELLATION PHARMACEUTICALS, INC., US

[85] 2021-08-24
[86] 2020-02-26 (PCT/US2020/019786)
[87] (WO2020/176558)
[30] US (62/811,143) 2019-02-27
[30] US (62/879,852) 2019-07-29

[21] **3,131,384**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/19 (2006.01) A61K 31/445 (2006.01) A61P 23/02 (2006.01) A61K 9/127 (2006.01)**

[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS FOR USE IN TREATING PAIN**
[54] **COMPOSITIONS PHARMACEUTIQUES POUR UTILISATION DANS LE TRAITEMENT DE LA DOULEUR**

[72] TAI, TIEN-TZU, TW
[72] TSENG, YUN-LONG, TW
[72] SHIH, SHEUE-FANG, TW
[72] KUO, MIN-WEN, TW
[72] BROWN, CARL OSCAR, TW
[72] WANG, HUI-TING, US
[72] JAO, WEENEE YEUN NG, TW
[72] HU, PEI-HSIEN, TW
[72] YU, WAN-NI, TW
[72] HONG, KEELUNG, US
[72] KAO, HAO-WEN, US
[72] LIN, YI-YU, US
[71] TLC BIOPHARMACEUTICALS, INC., US
[71] TAIWAN LIPOSOME COMPANY, LTD., CN

[85] 2021-08-24
[86] 2020-02-26 (PCT/US2020/019806)
[87] (WO2020/176568)
[30] US (62/810,378) 2019-02-26
[30] US (62/848,286) 2019-05-15

[21] **3,131,385**
[13] A1

[51] **Int.Cl. C07D 217/06 (2006.01) A61K 31/4365 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 217/26 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 471/04 (2006.01) C07D 495/04 (2006.01)**

[25] EN
[54] **COMPOUNDS AND METHODS OF USE**
[54] **COMPOSES AYANT UNE ACTIVITE INDUISANT LA FERROPTOSE ET LEURS PROCEDES D'UTILISATION**

[72] JIANG, CHUN, US
[72] PANDEY, ANJALI, US
[72] CHEN, RUIHONG, US
[72] KALITA, BISWAJIT, US
[72] DURAISWAMY, ATHISAYAMANI JEYARAJ, US
[71] FERRO THERAPEUTICS, INC., US

[85] 2021-08-24
[86] 2020-02-27 (PCT/US2020/020150)
[87] (WO2020/176757)
[30] US (16/287,805) 2019-02-27
[30] US (PCT/US2019/019854) 2019-02-27
[30] US (62/893,092) 2019-08-28

[21] **3,131,386**
[13] A1

[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 31/4545 (2006.01)**

[25] EN
[54] **IMIDAZOLOPYRAZINE COMPOUNDS FOR IRE1 INHIBITION**
[54] **COMPOSES D'IMIDAZOLOPYRAZINE POUR INHIBITION D'IRE1**

[72] KEENAN, RICHARD, US
[72] SUTTON, JON, US
[72] HYND, GEORGE, US
[71] OPTIKIRA LLC, US

[85] 2021-08-24
[86] 2020-02-27 (PCT/US2020/020157)
[87] (WO2020/176761)
[30] US (62/811,243) 2019-02-27
[30] US (62/813,966) 2019-03-05

PCT Applications Entering the National Phase

[21] **3,131,387**
[13] A1

[51] **Int.Cl. C07H 15/24 (2006.01) A23L 2/38 (2021.01) A23L 2/52 (2006.01) C07G 3/00 (2006.01) C07J 17/00 (2006.01)**

[25] EN

[54] **NOVEL MOGROSIDES AND USES OF THE SAME**

[54] **NOUVEAUX MOGROSIDES ET LEURS UTILISATIONS**

[72] PRAKASH, INDRA, US

[72] MA, GIL, US

[72] MERCOGLIANO, CHRISTOPHER, US

[72] PETROVIC, GORAN, US

[71] THE COCA-COLA COMPANY, US

[85] 2021-08-24

[86] 2020-02-26 (PCT/US2020/019864)

[87] (WO2020/176602)

[30] US (62/810,556) 2019-02-26

[21] **3,131,388**
[13] A1

[51] **Int.Cl. A61K 31/4985 (2006.01) A61P 25/28 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **PYRAZOLOPYRIDINE COMPOUNDS FOR IRE1 INHIBITION**

[54] **COMPOSES DE PYRAZOLOPYRIDINE POUR L'INHIBITION D'IRE1**

[72] KEENAN, RICHARD, US

[72] SUTTON, JON, US

[72] HYND, GEORGE, US

[71] OPTIKIRA, LLC, US

[85] 2021-08-24

[86] 2020-02-27 (PCT/US2020/020162)

[87] (WO2020/176765)

[30] US (62/811,237) 2019-02-27

[30] US (62/813,975) 2019-03-05

[21] **3,131,390**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF B-SARCOGLYCAN AND THE TREATMENT OF MUSCULAR DYSTROPHY**

[54] **ADMINISTRATION DE VECTEUR DE VIRUS ADENO-ASSOCIE DE S-SARCOGLYCANE ET TRAITEMENT DE DYSTROPHIE MUSCULAIRE**

[72] RODINO-KLAPAC, LOUISE, US

[72] MENDELL, JERRY R., US

[71] RESEARCH INSTITUTE OF NATIONWIDE CHILDREN'S HOSPITAL, US

[85] 2021-08-24

[86] 2020-02-26 (PCT/US2020/019892)

[87] (WO2020/176614)

[30] US (62/810,917) 2019-02-26

[30] US (62/834,012) 2019-04-15

[30] US (62/858,644) 2019-06-07

[30] US (62/881,901) 2019-08-01

[30] US (62/909,564) 2019-10-02

[30] US (62/910,779) 2019-10-04

[21] **3,131,391**
[13] A1

[51] **Int.Cl. A61K 51/10 (2006.01) A61K 38/05 (2006.01) A61K 48/00 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **ANTIBODY-DRUG CONJUGATES COMPRISING ANTI-TM4SF1 ANTIBODIES AND METHODS OF USING THE SAME**

[54] **CONJUGUES D'ANTICORPS-MEDICAMENT COMPRENANT DES ANTICORPS ANTI-TM4SF1 ET LEURS METHODES D'UTILISATION**

[72] JAMINET, PAUL A., US

[72] JAMINET, SHOU-CHING S., US

[72] HA, EDWARD H., US

[72] PRESTA, LEONARD G., US

[72] HUDLIKAR, MANISH S., US

[71] ANGIEX, INC., US

[85] 2021-08-24

[86] 2020-02-27 (PCT/US2020/020207)

[87] (WO2020/176794)

[30] US (62/811,411) 2019-02-27

[30] US (62/967,377) 2020-01-29

[21] **3,131,392**
[13] A1

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/06 (2006.01) A63B 21/072 (2006.01) A63B 21/075 (2006.01) A63B 23/035 (2006.01) A63B 23/12 (2006.01)**

[25] EN

[54] **HOLDING DEVICE FOR USING GYMNASTIC EQUIPMENT**

[54] **DISPOSITIF DE TENUE POUR L'UTILISATION D'APPAREILS DE GYMNASTIQUE**

[72] SCHATZ, RALPH, AT

[72] RIEGLER, STEFAN, AT

[72] KALTENBRUNNER, ERIC, AT

[72] RIEGLER, MATTHIAS, AT

[71] SCHATZ, RALPH, AT

[71] RIEGLER, STEFAN, AT

[71] KALTENBRUNNER, ERIC, AT

[71] RIEGLER, MATTHIAS, AT

[85] 2021-08-25

[86] 2020-02-14 (PCT/AT2020/000002)

[87] (WO2020/172695)

[30] AT (A 73/2019) 2019-02-27

[30] AT (A 240/2019) 2019-07-01

[21] **3,131,393**
[13] A1

[51] **Int.Cl. G02B 21/26 (2006.01) B01L 9/00 (2006.01) G01N 21/01 (2006.01) G02B 21/34 (2006.01)**

[25] EN

[54] **HOLDING A SUBSTRATE WITHIN A SECONDARY DEVICE**

[54] **MAINTIEN D'UN SUBSTRAT A L'INTERIEUR D'UN DISPOSITIF SECONDAIRE**

[72] STEWART, DAVID, US

[72] QUARRE, STEVE, US

[71] RARECYTE, INC., US

[85] 2021-08-24

[86] 2020-02-28 (PCT/US2020/020406)

[87] (WO2020/180689)

[30] US (62/812,695) 2019-03-01

Demandes PCT entrant en phase nationale

[21] **3,131,394**
[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01) A47J 37/06 (2006.01) F23B 40/00 (2006.01) F24B 13/00 (2006.01) F24B 13/02 (2006.01) F24B 13/04 (2006.01)**

[25] EN

[54] **COMBUSTION CHAMBER FOR PELLET GRILLS**

[54] **CHAMBRE DE COMBUSTION POUR GRILS A GRANULES**

[72] AHMED, MALLIK, US

[72] ROBERTS, BRUCE, US

[72] RAHMANI, RAMIN KHOSRAVI, US

[72] HAMILTON, ANTHONY, US

[72] ABDALLAH, SLEIMAN, US

[71] W.C. BRADLEY CO., US

[85] 2021-08-24

[86] 2020-02-28 (PCT/US2020/020487)

[87] (WO2020/176883)

[30] US (62/811,743) 2019-02-28

[21] **3,131,395**
[13] A1

[51] **Int.Cl. C12N 5/0775 (2010.01) C12N 5/02 (2006.01)**

[25] EN

[54] **METHOD FOR IMPROVING ANGIOGENIC POTENTIAL OF A MESENCHYMAL STEM CELL**

[54] **PROCEDE D'AMELIORATION DU POTENTIEL ANGIOGENIQUE D'UNE CELLULE SOUCHE MESENCHYMATEUSE**

[72] KILIAN, KRISTOPHER, AU

[72] ROMANAZZO, SARA, AU

[71] CYNATA THERAPEUTICS LIMITED, AU

[85] 2021-08-25

[86] 2020-02-21 (PCT/AU2020/050151)

[87] (WO2020/172700)

[30] AU (2019900659) 2019-02-28

[21] **3,131,396**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/162 (2006.01) A61J 1/10 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **IV SPIKE FOR USE WITH NON-ISO COMPLIANT IV CONTAINER**

[54] **POINTE IV DESTINEE A ETRE UTILISEE AVEC UN RECIPIENT IV NON CONFORME AUX NORMES ISO**

[72] TAN, BENJAMIN YANG TECK, SG

[71] CAREFUSION 303, INC., US

[85] 2021-08-24

[86] 2020-03-02 (PCT/US2020/020708)

[87] (WO2020/180822)

[30] US (16/292,195) 2019-03-04

[21] **3,131,398**
[13] A1

[51] **Int.Cl. C07J 75/00 (2006.01) B01J 31/00 (2006.01) C07J 17/00 (2006.01)**

[25] EN

[54] **MOGROSIDE BIOCATALYSIS METHODS**

[54] **PROCEDES DE BIOCATALYSE DE MOGROSIDE**

[72] PRAKASH, INDRA, US

[72] MA, GIL, US

[72] MERCOGLIANDO, CHRISTOPHER, US

[72] HARTLEY, CAROL, AU

[72] WILDING, MATTHEW ALEXANDER, AU

[72] SCOTT, COLIN, AU

[71] THE COCA-COLA COMPANY, US

[85] 2021-08-24

[86] 2020-02-26 (PCT/US2020/019972)

[87] (WO2020/176668)

[30] US (62/810,553) 2019-02-26

[21] **3,131,400**
[13] A1

[51] **Int.Cl. B65D 25/02 (2006.01) B44D 3/12 (2006.01) B65D 43/04 (2006.01) B65D 43/10 (2006.01)**

[25] EN

[54] **CONTAINER AND SEAL ASSEMBLY**

[54] **CONTENANT ET ENSEMBLE JOINT D'ETANCHEITE**

[72] LUBURIC, FRANO, US

[72] HOMAN, JOHN, US

[71] BWAY CORPORATION, US

[85] 2021-08-24

[86] 2020-02-26 (PCT/US2020/019973)

[87] (WO2020/176669)

[30] US (62/810,709) 2019-02-26

[21] **3,131,401**
[13] A1

[51] **Int.Cl. E21C 27/22 (2006.01) E21B 7/04 (2006.01) E21B 7/28 (2006.01) E21B 21/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MINING**

[54] **PROCEDE ET SYSTEME D'EXTRACTION**

[72] BUTT, STEPHEN DOUGLAS, CA

[72] DE MOURA JUNIOR, JERONIMO, CA

[72] CRAMM, ALLAN R., CA

[72] DE MOURA JUNIOR, JERONIMO, CA

[71] NOVAMERA INC., CA

[85] 2021-08-25

[86] 2019-11-29 (PCT/CA2019/051720)

[87] (WO2020/172736)

[30] US (62/810,818) 2019-02-26

[21] **3,131,403**
[13] A1

[51] **Int.Cl. C07C 209/62 (2006.01) C07C 211/01 (2006.01) C07F 9/564 (2006.01)**

[25] EN

[54] **PROCESS FRO MAKING LEVOAMPHETAMINE**

[54] **APPLICATION POUR LETTRES PATENTES**

[72] MECKLER, HAROLD, US

[72] CLEARY, DARRYL, US

[72] BRACKEEN, MARCUS, US

[72] SURYADEVARA, PRAVEEN, US

[71] CHEMAPOTHECA, LLC, US

[85] 2021-08-24

[86] 2020-03-02 (PCT/US2020/020713)

[87] (WO2020/180825)

[30] US (62/813,033) 2019-03-02

[21] **3,131,405**
[13] A1

[51] **Int.Cl. B65D 43/03 (2006.01) B44D 3/12 (2006.01) B65D 1/12 (2006.01) B65D 8/02 (2006.01) B65D 21/036 (2006.01) B65D 43/02 (2006.01)**

[25] EN

[54] **IMPROVED THREE-PIECE CONTAINER ASSEMBLY**

[54] **ENSEMBLE RECIPIENT AMELIORE EN TROIS PARTIES**

[72] LUBURIC, FRANO, US

[72] HOMAN, JOHN, US

[71] BWAY CORPORATION, US

[85] 2021-08-24

[86] 2020-02-26 (PCT/US2020/019975)

[87] (WO2020/176671)

[30] US (62/810,709) 2019-02-26

PCT Applications Entering the National Phase

[21] **3,131,406**
[13] A1

[51] **Int.Cl. H01L 37/00 (2006.01) H01L 23/12 (2006.01) H01L 25/10 (2006.01) H01L 25/11 (2006.01) H01L 25/18 (2006.01) H05K 1/18 (2006.01)**

[25] EN

[54] **SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE WITH ELECTRIC POWER GENERATION FUNCTION**

[54] **DISPOSITIF DE CIRCUIT INTEGRE A SEMI-CONDUCTEUR AYANT UNE FONCTION DE GENERATION D'ENERGIE**

[72] GOTO, HIROSHI, JP
[72] SAKATA, MINORU, JP
[71] GCE INSTITUTE INC., JP
[85] 2021-08-24
[86] 2020-03-02 (PCT/JP2020/008579)
[87] (WO2020/184235)
[30] JP (2019-044971) 2019-03-12

[21] **3,131,407**
[13] A1

[51] **Int.Cl. G06F 16/435 (2019.01)**

[25] EN

[54] **INTELLIGENT FILE RECOMMENDATION ENGINE**

[54] **MOTEUR DE RECOMMANDATION DE FICHIERS INTELLIGENT**

[72] ZHANG, WENSHUANG, CN
[71] CITRIX SYSTEMS, INC., US
[85] 2021-08-25
[86] 2019-03-12 (PCT/CN2019/077743)
[87] (WO2020/181479)

[21] **3,131,408**
[13] A1

[51] **Int.Cl. F28D 15/02 (2006.01) F24F 1/0033 (2019.01) F24F 1/0035 (2019.01) F24F 1/0059 (2019.01) F24F 1/028 (2019.01) F24F 1/029 (2019.01) F25B 39/02 (2006.01) F25B 39/04 (2006.01) H05K 7/20 (2006.01)**

[25] EN

[54] **PASSIVE HEAT EXCHANGER WITH SINGLE MICROCHANNEL COIL**

[54] **ECHANGEUR DE CHALEUR PASSIF A BOBINE A MICROCANAL UNIQUE**

[72] STEGALL, ALLEN CHARLES, US
[72] HUMPHRIES, JODI ELIZABETH, US
[72] SCHMIDT JR., CHARLES RICHARD, US
[72] BERG, TROY F., US
[72] BOEKHOUDT, OSBALDI, US
[71] DAN THERM COOLING INC., US
[85] 2021-08-24
[86] 2020-02-27 (PCT/US2020/020128)
[87] (WO2020/176746)
[30] US (62/811,248) 2019-02-27

[21] **3,131,409**
[13] A1

[51] **Int.Cl. A61F 2/44 (2006.01) A61B 17/70 (2006.01) A61F 2/30 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **FACET JOINT REPLACEMENT DEVICE AND METHODS OF USE**

[54] **DISPOSITIF DE REMPLACEMENT DE FACETTE ARTICULAIRE ET PROCEDES D'UTILISATION**

[72] STURM, CHRISTOPHER D., US
[72] VAN DAHM, SHAWN, US
[72] JONES, ROBERT, US
[71] FACET DYNAMICS, INC., US
[85] 2021-08-24
[86] 2020-03-03 (PCT/US2020/020810)
[87] (WO2020/180875)
[30] US (62/813,678) 2019-03-04

[21] **3,131,410**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A23K 10/16 (2016.01) A23L 29/00 (2016.01) A23L 33/135 (2016.01) A23C 9/12 (2006.01) A61K 35/74 (2015.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING, IMPROVING OR TREATING OBESITY OR FATTY LIVER DISEASE COMPRISING THE WEISSELLA HELLENICA WIKIM0103**

[54] **COMPOSITION POUR LA PREVENTION, LE SOULAGEMENT OU LE TRAITEMENT DE L'OBESITE OU D'UNE STEATOSE HEPATHIQUE, COMPRENANT WEISSELLA HELLENICA WIKI0103**

[72] CHOI, HAK-JONG, KR
[72] LIM, SEUL-KI, KR
[71] KOREA FOOD RESEARCH INSTITUTE, KR
[85] 2021-08-24
[86] 2020-02-27 (PCT/KR2020/002844)
[87] (WO2020/175939)
[30] KR (10-2019-0024255) 2019-02-28

[21] **3,131,411**
[13] A1

[51] **Int.Cl. G06T 1/00 (2006.01)**

[25] EN

[54] **TRACKING IMAGE SENDERS ON CLIENT DEVICES**

[54] **SUIVI D'EXPEDITEURS D'IMAGE SUR DES DISPOSITIFS CLIENTS**

[72] LI, SHUZHEN, CN
[72] XU, SAI, CN
[71] CITRIX SYSTEMS, INC., US
[85] 2021-08-25
[86] 2019-03-12 (PCT/CN2019/077867)
[87] (WO2020/181500)

Demandes PCT entrant en phase nationale

[21] **3,131,412**
[13] A1

[51] **Int.Cl. H01R 9/05 (2006.01) H01R 24/54 (2011.01) H01R 13/17 (2006.01) H01R 13/40 (2006.01) H01R 13/52 (2006.01) H01R 13/622 (2006.01) H01R 13/631 (2006.01) H01R 25/16 (2006.01)**

[25] EN

[54] **PIN SETTING DEVICE FOR RETAINING A CONNECTOR IN A CABLE TAP**

[54] **DISPOSITIF DE REGLAGE DE BROCHE POUR RETENIR UN CONNECTEUR DANS UNE PRISE DE CABLE**

[72] IVANCIC, JOSHUA, US
[72] JONES, DOUGLAS, US
[71] PPC BROADBAND, INC., US
[85] 2021-08-24
[86] 2020-03-04 (PCT/US2020/020885)
[87] (WO2020/180927)
[30] US (62/813,909) 2019-03-05

[21] **3,131,413**
[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01)**

[25] EN

[54] **DISPLAY INTEGRATED INTO DOOR**

[54] **DISPOSITIF D'AFFICHAGE INTEGRE DANS UNE PORTE**

[72] PFAFF, JOHN, US
[72] AGNEW, DENNIS, US
[72] SAGASER, MATTHEW, US
[71] CLARK EQUIPMENT COMPANY, US
[85] 2021-08-24
[86] 2020-02-27 (PCT/US2020/020139)
[87] (WO2020/176750)
[30] US (62/811,125) 2019-02-27
[30] US (16/533,417) 2019-08-06
[30] US (62/934,065) 2019-11-12

[21] **3,131,415**
[13] A1

[51] **Int.Cl. A61M 1/14 (2006.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01) A61M 1/36 (2006.01) H03J 9/04 (2006.01) H04B 11/00 (2006.01)**

[25] EN

[54] **REMOTE COMMUNICATION WITH MULTIPLE DIALYSIS MACHINES**

[54] **COMMUNICATION A DISTANCE AVEC DE MULTIPLES MACHINES DE DIALYSE**

[72] PEESAPATI, SAMEERA ANIRUDH, US
[72] YUDS, DAVID, US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2021-08-24
[86] 2020-03-04 (PCT/US2020/020928)
[87] (WO2020/185459)
[30] US (16/351,623) 2019-03-13

[21] **3,131,417**
[13] A1

[51] **Int.Cl. A42B 3/30 (2006.01) B60W 30/09 (2012.01) B60W 50/14 (2020.01) A41B 3/00 (2006.01) A41D 13/018 (2006.01) A41D 13/05 (2006.01) A42B 3/00 (2006.01) A42B 3/32 (2006.01) B60W 30/08 (2012.01) G08G 1/16 (2006.01)**

[25] EN

[54] **ACCIDENT PREVENTION SYSTEM AND METHODS THEREFORE**

[54] **SYSTEME DE PREVENTION DES ACCIDENTS ET PROCEDES ASSOCIES**

[72] WENDEL RUP, HEINO, SE
[71] HOVDING SVERIGE AB, SE
[85] 2021-08-24
[86] 2020-02-28 (PCT/SE2020/050226)
[87] (WO2020/180231)
[30] SE (1950269-9) 2019-03-01

[21] **3,131,418**
[13] A1

[51] **Int.Cl. H04M 3/38 (2006.01) H04M 3/42 (2006.01)**

[25] EN

[54] **VALIDATING TELEPHONE CALLS BY VERIFYING ENTITY IDENTITIES USING BLOCKCHAINS**

[54] **VALIDATION D'APPELS TELEPHONIQUE PAR VERIFICATION D'IDENTITES D'ENTITE A L'AIDE DE CHAINES DE BLOCS**

[72] JOHNSON, REBEKAH, US
[72] JAFFER, MOHAMED S. A., US
[71] NUMERACLE, INC., US
[85] 2021-08-24
[86] 2020-03-17 (PCT/US2020/023083)
[87] (WO2020/190906)
[30] US (62/819,977) 2019-03-18

[21] **3,131,419**
[13] A1

[51] **Int.Cl. C07C 45/68 (2006.01) C07C 49/323 (2006.01) C07C 49/35 (2006.01)**

[25] EN

[54] **CONTINUOUS SYNTHESIS METHOD FOR 1,1'-BICYCLO[1.1.1]PENTANE-1,3-DIETHYL KETONE COMPOUNDS**

[54] **PROCEDE DE SYNTHESE EN CONTINU DE MATIERE ORGANIQUE A BASE DE 1,1'-BICYCLO[1.1.1]PENTANE-1,3-DIETHYLKETONE**

[72] HONG, HAO, US
[72] ZHANG, ENXUAN, CN
[72] LU, JIANGPING, CN
[72] WEI, FULIANG, CN
[72] YANG, SIHANG, CN
[72] CHE, GUANDA, CN
[71] JILIN ASYM-CHEM LABORATORIES CO., LTD., CN
[85] 2021-08-25
[86] 2019-06-11 (PCT/CN2019/090736)
[87] (WO2020/248126)

PCT Applications Entering the National Phase

[21] **3,131,420**
[13] A1

[51] **Int.Cl. C07D 309/08 (2006.01) A61K 31/121 (2006.01) A61K 31/341 (2006.01) A61K 31/351 (2006.01) A61K 31/40 (2006.01) A61K 31/435 (2006.01) A61K 31/44 (2006.01) C07C 211/35 (2006.01) C07C 229/28 (2006.01) C07C 229/46 (2006.01) C07D 207/09 (2006.01) C07D 211/72 (2006.01) C07D 213/24 (2006.01) C07D 307/16 (2006.01) C07D 309/14 (2006.01)**

[25] EN

[54] **SUBSTITUTED CYCLOHEXYL COMPOUNDS AS NOP INHIBITORS**

[54] **COMPOSES DE CYCLOHEXYLE SUBSTITUES UTILISES EN TANT QU'INHIBITEURS DE NOP**

[72] BASINGER THOMPSON, JILLIAN, US

[72] BOOKSER, BRETT, US

[72] BURLEY, SCOTT, US

[72] GARCIA-REYNAGA, PABLO, US

[72] HUDSON, ANDREW, US

[72] PETERS, MARCO, US

[72] PRATT, BENJAMIN, US

[72] THOMPSON, AARON, US

[72] TRAN, JOE, US

[72] VALDEZ, LINO, US

[71] DART NEUROSCIENCE, LLC, US

[85] 2021-08-24

[86] 2019-02-26 (PCT/US2019/019650)

[87] (WO2019/168866)

[30] US (62/636,730) 2018-02-28

[21] **3,131,421**
[13] A1

[51] **Int.Cl. G05B 19/042 (2006.01)**

[25] EN

[54] **AUTOMATIC EXTRACTION OF ASSETS DATA FROM ENGINEERING DATA SOURCES**

[54] **EXTRACTION AUTOMATIQUE DE DONNEES D'ACTIFS A PARTIR DE SOURCES DE DONNEES D'INGENIERIE**

[72] SINHA, BHASKAR, IN

[72] JAGANNATH, VENKATESH, US

[72] BHATTACHARYYA, AMITABHA, IN

[72] PATIL, ASHISH, IN

[72] KONDEJKAR, SAMEER, IN

[71] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US

[85] 2021-08-24

[86] 2020-03-24 (PCT/US2020/024501)

[87] (WO2020/198249)

[30] US (62/823,377) 2019-03-25

[30] US (62/823,469) 2019-03-25

[30] US (62/842,929) 2019-05-03

[21] **3,131,423**
[13] A1

[51] **Int.Cl. B05B 7/02 (2006.01) B05B 7/04 (2006.01) B05B 7/10 (2006.01) B05B 7/24 (2006.01)**

[25] EN

[54] **TECHNOLOGIES FOR FOAM FORMATION AND OUTPUT**

[54] **TECHNOLOGIES DE FORMATION ET DE DELIVRANCE DE MOUSSE**

[72] KESKE, TODD A., US

[72] KEIM, DONALD C., US

[71] FOAM SUPPLIES, INC., US

[85] 2021-08-24

[86] 2019-02-28 (PCT/US2019/019974)

[87] (WO2020/176096)

[21] **3,131,424**
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01) C09J 5/06 (2006.01) C09J 123/16 (2006.01) C09J 125/08 (2006.01) C09J 167/00 (2006.01) C09J 179/08 (2006.01)**

[25] EN

[54] **PROTECTIVE BARRIER COATING TO IMPROVE BOND INTEGRITY IN DOWNHOLE EXPOSURES**

[54] **REVETEMENT DE BARRIERE DE PROTECTION POUR AMELIORER L'INTEGRITE DE LIAISON DANS DES EXPOSITIONS DE FOND DE TROU**

[72] SMITH, CHARLES TIMOTHY, US

[72] GLAESMAN, CHAD WILLIAM, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24

[86] 2019-04-10 (PCT/US2019/026820)

[87] (WO2020/209853)

[21] **3,131,425**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) G06F 30/00 (2020.01) E21B 43/25 (2006.01)**

[25] EN

[54] **COMPLEXITY INDEX OPTIMIZING JOB DESIGN**

[54] **CONCEPTION DE TACHE D'OPTIMISATION D'INDICE DE COMPLEXITE**

[72] SHETTY, DINESH ANANDA, US

[72] HILLARD, ROBERT DOUGLAS, US

[72] WALTERS, HAROLD GRAYSON, US

[72] STEGENT, NEIL ALAN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24

[86] 2019-04-30 (PCT/US2019/029859)

[87] (WO2020/222792)

[30] US (16/397,833) 2019-04-29

Demandes PCT entrant en phase nationale

[21] **3,131,427**
[13] A1

[51] **Int.Cl. E21B 34/10 (2006.01) E21B 23/04 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **HYDRAULIC LINE CONTROLLED DEVICE WITH DENSITY BARRIER**

[54] **DISPOSITIF COMMANDE PAR CONDUITE HYDRAULIQUE AVEC BARRIERE DE DENSITE**

[72] BREERWOOD, GLEN P., US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24

[86] 2019-04-30 (PCT/US2019/029993)

[87] (WO2020/222818)

[21] **3,131,430**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/26 (2006.01)**

[25] EN

[54] **INTEGRATED AND CONTINUOUS RECOMBINANT PROTEIN MANUFACTURING**

[54] **FABRICATION DE PROTEINE RECOMBINEE INTEGREE ET CONTINUE**

[72] COFFMAN, JONATHAN, US

[72] GODFREY, SCOTT A., US

[72] OROZCO, RAQUEL, US

[72] FAHRNER, ROBERT LEE, US

[72] FIADAIRO, MARCUS ANDRE, US

[72] KOTTMEIER, ROBERT E., US

[72] MCLAUGHLIN, JOSEPH K., US

[72] SALM, JEFFREY RICHARD, US

[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2021-08-24

[86] 2020-03-27 (PCT/US2020/025334)

[87] (WO2020/205559)

[30] US (62/827,504) 2019-04-01

[30] US (62/899,829) 2019-09-13

[21] **3,131,431**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/519 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **SOLID FORMS OF A TOLL-LIKE RECEPTOR MODULATOR**

[54] **FORMES SOLIDES D'UN MODULATEUR DE RECEPTEUR DE TYPE TOLL**

[72] ASSELIN, SYLVIE M., US

[72] BADALOV, PAVEL R., US

[72] MORRISON, HENRY G., US

[72] REGENS, CHRISTOPHER S., US

[72] VIEIRA, TIAGO, US

[71] GILEAD SCIENCES, INC., US

[85] 2021-08-24

[86] 2020-04-15 (PCT/US2020/028257)

[87] (WO2020/214663)

[30] US (62/835,335) 2019-04-17

[21] **3,131,434**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 23/06 (2006.01) E21B 23/08 (2006.01) E21B 33/129 (2006.01) E21B 34/14 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **DISSOLVABLE SETTING TOOL FOR HYDRAULIC FRACTURING OPERATIONS**

[54] **OUTIL DE POSE SOLUBLE POUR OPERATIONS DE FRACTURATION HYDRAULIQUE**

[72] WINKLER, ALBERT, SG

[72] PENNO, ANDREW, SG

[72] FRIPP, MICHAEL, LINLEY, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24

[86] 2020-05-08 (PCT/US2020/032255)

[87] (WO2020/236443)

[30] US (62/852,129) 2019-05-23

[30] US (62/852,108) 2019-05-23

[30] US (62/852,153) 2019-05-23

[30] US (62/852,161) 2019-05-23

[21] **3,131,436**
[13] A1

[51] **Int.Cl. C09K 8/52 (2006.01) E21B 37/06 (2006.01)**

[25] EN

[54] **DUAL CATION HYDRATE INHIBITORS**

[54] **INHIBITEUR D'HYDRATES A DOUBLE CATION**

[72] VO, LOAN, US

[72] MONTEIRO, DEEPAK S., US

[72] LAN, QIANG, US

[72] PRINCE, PHILIPPE, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24

[86] 2019-05-23 (PCT/US2019/033656)

[87] (WO2020/236176)

[21] **3,131,437**
[13] A1

[51] **Int.Cl. G06K 5/00 (2006.01) G06Q 10/08 (2012.01) G06Q 20/04 (2012.01) G06Q 20/10 (2012.01)**

[25] EN

[54] **POINT-OF-SALE CONSUMER RESOLUTION SYSTEM**

[54] **SYSTEME DE RESOLUTION DE CONSOMMATEUR DE POINT DE VENTE**

[72] TURNER, JOYCE, US

[72] GILLERAN, SHAWN, US

[72] PAYTON, SANDY, US

[72] PETTIT, JOEL, US

[71] ACXIOM LLC, US

[85] 2021-08-24

[86] 2019-08-22 (PCT/US2019/047666)

[87] (WO2020/185251)

[30] US (62/815,686) 2019-03-08

PCT Applications Entering the National Phase

[21] **3,131,439**
[13] A1

[51] **Int.Cl. H01L 31/054 (2014.01) H02S 20/26 (2014.01) H02S 40/20 (2014.01) B44C 5/04 (2006.01) C03C 17/42 (2006.01)**

[25] EN

[54] **POWER-GENERATING BUILDING MATERIALS AND PREPARATION PROCESS THEREOF**

[54] **MATERIAU DE CONSTRUCTION POUR LA PRODUCTION D'ENERGIE ET SON PROCEDE DE FABRICATION**

[72] ZHANG, WEI, CN

[72] LI, YONGWU, CN

[71] PHOTON TECHNOLOGY (KUNSHAN) CO., LTD, CN

[85] 2021-08-25

[86] 2019-09-09 (PCT/CN2019/104876)

[87] (WO2020/155628)

[30] CN (201910097926.X) 2019-01-31

[30] CN (201910097919.X) 2019-01-31

[30] CN (201910098475.1) 2019-01-31

[30] CN (201910098347.7) 2019-01-31

[30] CN (201910098346.2) 2019-01-31

[30] CN (201910097914.7) 2019-01-31

[21] **3,131,440**
[13] A1

[51] **Int.Cl. H04W 74/00 (2009.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TRANSMISSION OF UPLINK CONTROL INFORMATION OVER MULTIPLE CARRIERS IN UNLICENSED SPECTRUM**

[54] **SYSTEMES ET PROCEDES DE TRANSMISSION D'INFORMATIONS DE COMMANDE DE LIAISON MONTANTE SUR DE MULTIPLES PORTEUSES DANS UN SPECTRE SANS LICENCE**

[72] SALEM, MOHAMED ADEL, CA

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-08-25

[86] 2020-02-25 (PCT/CN2020/076549)

[87] (WO2020/173422)

[30] US (62/810,057) 2019-02-25

[30] US (16/797,907) 2020-02-21

[21] **3,131,441**
[13] A1

[51] **Int.Cl. C05G 1/00 (2006.01)**

[25] EN

[54] **FERTILISING COMPOSITION WHICH INCLUDES A PLANT-ASSIMILABLE PHOSPHORUS AND CALCIUM POTENTIATOR AND USE THEREOF**

[54] **COMPOSITION FERTILISANTE COMPRENANT UN ACTIVATEUR DE PHOSPHORE ET DE CALCIUM ASSIMILABLES PAR LES PLANTES ET UTILISATION DE CELLE-CI**

[72] ATARES REAL, SERGIO, ES

[72] ROMERO LOPEZ, JOAQUIN, ES

[72] SALAET MADORRAN, IGNASI, ES

[72] FERRER GINES, MARIA, ES

[72] CABALLERO MOLADA, MARCOS, ES

[72] YANCE CHAVEZ, TULA DEL CARMEN, ES

[72] FUERTES DONATE, CARLOS, ES

[71] FERTINAGRO BIOTECH, S.L., ES

[85] 2021-08-25

[86] 2019-03-27 (PCT/ES2019/070206)

[87] (WO2020/193817)

[21] **3,131,444**
[13] A1

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

[25] EN

[54] **SYSTEM FOR FIXING WEAR ELEMENTS TO EARTH-MOVING MACHINES**

[54] **SYSTEME DE FIXATION D'ELEMENTS D'USURE SUR DES MACHINES DE TERRASSEMENT**

[72] AMAT HOLGADO, CARLOS, ES

[72] JIMENEZ GARCIA, JAVIER, ES

[71] METALOGENIA RESEARCH & TECHNOLOGIES, S.L., ES

[85] 2021-08-25

[86] 2020-03-02 (PCT/ES2020/070149)

[87] (WO2020/178466)

[30] ES (PCT/ES2019/070125) 2019-03-01

[21] **3,131,445**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 31/44 (2006.01) A61P 7/06 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION OF PROLYL HYDROXYLASE INHIBITOR AND PREPARATION METHOD THEREFOR**

[54] **COMPOSITION PHARMACEUTIQUE D'INHIBITEUR DE PROLYL HYDROXYLASE ET SON PROCEDE DE PREPARATION**

[72] YANG, ZHILIANG, CN

[72] SHI, LEI, CN

[72] WANG, LUYING, CN

[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN

[71] SUZHOU SUNCADIA BIOPHARMACEUTICALS CO., LTD., CN

[85] 2021-08-25

[86] 2020-03-03 (PCT/CN2020/077560)

[87] (WO2020/177681)

[30] CN (201910160454.8) 2019-03-04

[21] **3,131,447**
[13] A1

[51] **Int.Cl. H04N 19/137 (2014.01)**

[25] EN

[54] **ENCODING AND DECODING METHOD AND DEVICE, ENCODER SIDE APPARATUS AND DECODER SIDE APPARATUS**

[54] **PROCEDE ET DISPOSITIF DE CODAGE ET DE DECODAGE, APPAREIL COTE CODEUR ET APPAREIL COTE DECODEUR**

[72] CHEN, FANGDONG, CN

[71] HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., CN

[85] 2021-08-25

[86] 2020-03-11 (PCT/CN2020/078849)

[87] (WO2020/182161)

[30] CN (201910182197.8) 2019-03-11

Demandes PCT entrant en phase nationale

[21] **3,131,448**
[13] A1

[51] **Int.Cl. B64B 1/62 (2006.01)**
[25] EN
[54] **AIRCRAFT**
[54] **DIRIGEABLE A FORME VARIABLE**
[72] LINTU, JOUNI, FI
[71] KELLUU OY, FI
[85] 2021-08-25
[86] 2020-02-21 (PCT/FI2020/050112)
[87] (WO2020/174125)
[30] FI (20195145) 2019-02-26

[21] **3,131,450**
[13] A1

[51] **Int.Cl. C25C 3/10 (2006.01)**
[25] FR
[54] **INTERVENTION TOOL FOR USING AN ELECTROLYTIC CELL**
[54] **OUTIL D'INTERVENTION POUR L'EXPLOITATION D'UNE CUVE D'ELECTROLYSE**
[72] RENAUDIER, STEEVE, FR
[72] BRUN, FREDERIC, CA
[71] RIO TINTO ALCAN INTERNATIONAL LIMITED, CA
[85] 2021-08-23
[86] 2020-03-11 (PCT/CA2020/050324)
[87] (WO2020/181379)
[30] FR (19/02639) 2019-03-14

[21] **3,131,453**
[13] A1

[51] **Int.Cl. F02M 26/42 (2016.01) F02M 26/05 (2016.01) F02M 26/24 (2016.01) F02M 26/33 (2016.01) F02M 26/38 (2016.01) F02M 26/43 (2016.01) B63H 20/00 (2006.01) F01P 3/20 (2006.01) F02B 61/04 (2006.01) F02B 75/22 (2006.01) F02D 41/00 (2006.01)**
[25] EN
[54] **MARINE MOTOR WITH A DUAL-FLOW EXHAUST GAS RECIRCULATION SYSTEM**
[54] **MOTEUR MARIN DOTE DE SYSTEME DE RECIRCULATION DES GAZ D'ECHAPPEMENT A DOUBLE ECOULEMENT**
[72] CORNWELL, RICHARD, GB
[72] SELVARAJ, ANOOP, GB
[71] COX POWERTRAIN LTD., GB
[85] 2021-08-25
[86] 2020-03-05 (PCT/GB2020/050514)
[87] (WO2020/178581)
[30] GB (1903078.2) 2019-03-07

[21] **3,131,455**
[13] A1

[51] **Int.Cl. C11D 9/00 (2006.01) C11D 3/48 (2006.01) C11D 9/04 (2006.01)**
[25] EN
[54] **BAR COMPOSITIONS COMPRISING C10 SOAP WHILE MINIMIZING RATIO OF UNSATURATED C18 SOAP TO CAPRATE**
[54] **COMPOSITIONS DE PAIN COMPRENANT DU SAVON C10 TOUT EN REDUISANT AU MINIMUM LE RAPPORT ENTRE LE SAVON C18 INSATURE ET LE CAPRATE**
[72] AGARKHED, AJIT MANOHAR, IN
[72] CHANDAR, PREM, US
[72] KUMAR, NITISH, IN
[72] WALSH, CONNOR PATRICK, US
[72] WU, GUOHUI, US
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2021-08-25
[86] 2020-02-11 (PCT/EP2020/053435)
[87] (WO2020/177988)
[30] EP (19160273.9) 2019-03-01

[21] **3,131,456**
[13] A1

[51] **Int.Cl. F01L 1/20 (2006.01) F01L 1/18 (2006.01) F02B 75/00 (2006.01)**
[25] EN
[54] **MARINE OUTBOARD MOTOR WITH VALVE TRAIN HAVING ADJUSTABLE LASH**
[54] **MOTEUR HORS-BORD MARIN DOTE D'UN TRAIN DE SOUPAPES A JEU REGLABLE**
[72] LAYCOCK, ADAM, GB
[71] COX POWERTRAIN LTD., GB
[85] 2021-08-25
[86] 2020-03-05 (PCT/GB2020/050515)
[87] (WO2020/178582)
[30] GB (1903076.6) 2019-03-07

[21] **3,131,457**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C12Q 1/689 (2018.01) A01N 63/20 (2020.01) A01P 21/00 (2006.01) C05F 11/08 (2006.01)**
[25] EN
[54] **NOVEL PLANT GROWTH PROMOTING MICROBIAL COMPOSITIONS**
[54] **NOUVELLES COMPOSITIONS MICROBIENNES FAVORISANT LA CROISSANCE DES PLANTES**
[72] GOORMACHTIG, SOFIE, BE
[72] BEIRINCKX, STIEN, BE
[72] DEBODE, JANE, BE
[71] VIB VZW, BE
[71] UNIVERSITEIT GENT, BE
[71] INSTITUUT VOOR LANDBOUW- EN VISSERIJONDERZOEK (ILVO), BE
[85] 2021-08-25
[86] 2020-02-25 (PCT/EP2020/054909)
[87] (WO2020/173941)
[30] GB (1902612.9) 2019-02-27

[21] **3,131,460**
[13] A1

[51] **Int.Cl. E04H 12/22 (2006.01) A45B 23/00 (2006.01)**
[25] FR
[54] **ANCHORING DEVICE FOR ANCHORING A STAKE OF A BEACH PARASOL IN SAND OR SANDY SOIL**
[54] **DISPOSITIF D'ANCRAGE, DANS LE SABLE OU DANS UN SOL SABLONNEUX, D'UN PIQUET DE PARASOL DE PLAGE**
[72] ROIBIN, JEAN-ERIC, FR
[71] ROIBIN, JEAN-ERIC, FR
[85] 2021-08-25
[86] 2020-02-25 (PCT/EP2020/054926)
[87] (WO2020/173951)
[30] FR (1901953) 2019-02-26

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[21] **3,131,462**
[13] A1

[51] **Int.Cl. A01N 37/02 (2006.01) A01N 25/02 (2006.01) A01N 65/00 (2009.01) A01P 21/00 (2006.01)**
[25] EN
[54] **COATING COMPOSITION FOR SEED**
[54] **COMPOSITION DE REVETEMENT POUR SEMENCE**
[72] BUSSMANN, JACOB PAUL, DE
[72] RITTER, JAN, DE
[71] SEEDFORWARD GMBH, DE
[85] 2021-08-25
[86] 2020-02-26 (PCT/EP2020/054998)
[87] (WO2020/173987)
[30] DE (10 2019 104 867.2) 2019-02-26

[21] **3,131,485**
[13] A1

[51] **Int.Cl. C12N 5/073 (2010.01)**
[25] EN
[54] **COMPOSITION FOR IMPROVING THE CULTURE AND IMPLANTATION OF MAMMALIAN EMBRYOS, PREPARATION METHOD AND USE THEREOF**
[54] **COMPOSITION POUR AMELIORER LA CULTURE ET L'IMPLANTATION D'EMBRYONS DE MAMMIFERE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] COSTA RIEROLA, MONTSERRAT, ES
[72] ORTIZ FERNANDEZ, ANA MARIA, ES
[72] OJOSNEGROS MARTOS, SAMUEL, ES
[72] SERIOLA PETIT, ANNA, ES
[71] FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL), ES
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[85] 2021-07-16
[86] 2020-02-12 (PCT/EP2020/053548)
[87] (WO2020/165218)
[30] EP (19382106.3) 2019-02-15

[21] **3,131,488**
[13] A1

[51] **Int.Cl. B63H 20/00 (2006.01) B63H 20/28 (2006.01) F01P 3/20 (2006.01)**
[25] EN
[54] **A MARINE OUTBOARD MOTOR WITH A TRANSMISSION LUBRICATION SYSTEM AND LUBRICANT FILTER**
[54] **MOTEUR HORS-BORD MARIN DOTE D'UN SYSTEME DE TRANSMISSION ET DE LUBRIFICATION ET FILTRE DE LUBRIFIANT**
[72] BARRATT, JAMES, GB
[71] COX POWERTRAIN LTD., GB
[85] 2021-08-25
[86] 2020-03-05 (PCT/GB2020/050518)
[87] (WO2020/178585)
[30] GB (1903073.3) 2019-03-07

[21] **3,131,489**
[13] A1

[51] **Int.Cl. B32B 21/04 (2006.01) E04F 13/08 (2006.01) E04F 13/10 (2006.01)**
[25] EN
[54] **FIRE-RESISTANT MANUFACTURED-WOOD BASED SIDING**
[54] **BARDAGE A BASE DE BOIS FABRIQUE POUR RESISTER AU FEU**
[72] MERRICK, PAUL G., US
[71] LOUISIANA-PACIFIC CORPORATION, US
[85] 2021-08-25
[86] 2020-02-27 (PCT/IB2020/000220)
[87] (WO2020/174289)
[30] US (62/810,983) 2019-02-27

[21] **3,131,490**
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A23L 33/29 (2016.01)**
[25] EN
[54] **HEALTH SUPPLEMENT COMPOSITIONS**
[54] **COMPOSITIONS DE COMPLEMENTES DE SANTE**
[72] IYER, RAVI RAMAMOORTHY, US
[71] IYER, RAVI RAMAMOORTHY, US
[85] 2021-08-25
[86] 2020-02-19 (PCT/IB2020/051349)
[87] (WO2020/174319)
[30] US (62/811,296) 2019-02-27
[30] US (16/788,565) 2020-02-12

[21] **3,131,491**
[13] A1

[51] **Int.Cl. G16B 30/20 (2019.01)**
[25] EN
[54] **BIOLOGICAL SEQUENCING SEQUENCAGE BIOLOGIQUE**
[72] VAN HYFTE, DIRK, BE
[72] VAN HYFTE, ARNOUT, BE
[72] BRANDS, INGRID, BE
[72] VAN HYFTE, EWALD, BE
[71] BIOCLUE BV, BE
[85] 2021-08-05
[86] 2020-02-07 (PCT/EP2020/053222)
[87] (WO2020/161345)
[30] EP (19156086.1) 2019-02-07
[30] EP (19190900.1) 2019-08-08

[21] **3,131,492**
[13] A1

[51] **Int.Cl. A61J 1/00 (2006.01) A01N 1/00 (2006.01) A23L 3/00 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **PORTABLE AIR BLAST SYSTEM FOR HOMOGENEOUS AND REPRODUCIBLE FREEZING AND THAWING OF BIOLOGICAL MATERIALS**
[54] **SYSTEME DE SOUFFLAGE D'AIR PORTABLE POUR CONGELATION ET DECONGELATION HOMOGENES ET REPRODUCIBLES DE MATERIAUX BIOLOGIQUES**
[72] SILVESTRE DUARTE, ANDREIA FILIPA, PT
[72] SENA REGO, PEDRO GIL, PT
[72] DE BRITO ESTRELA, RUI, PT
[71] SMARTFREEZ, LDA, PT
[85] 2021-08-25
[86] 2020-02-21 (PCT/IB2020/051479)
[87] (WO2020/174338)
[30] PT (115345) 2019-02-27

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[21] **3,131,493**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **STABILISED HYPOCHLOROUS SOLUTIONS AND THEIR MEDICAL AND COSMETIC USES**

[54] **SOLUTIONS D'ACIDE HYPOCHLOREUX STABILISEES ET LEURS UTILISATIONS MEDICALES ET COSMETIQUES**

[72] WALKER, ROSS BEDFORD, GB

[71] CLINICAL HEALTH TECHNOLOGIES LTD, GB

[85] 2021-08-25

[86] 2020-02-27 (PCT/IB2020/051683)

[87] (WO2020/174436)

[30] GB (1902731.7) 2019-02-28

[30] GB (1913991.4) 2019-09-27

[21] **3,131,494**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01)**

[25] EN

[54] **VALVE COOLING AND NOISE SUPPRESSION**

[54] **REFROIDISSEMENT DE VANNE ET SUPPRESSION DE BRUIT**

[72] ZHOU, JIANSHEG, US

[72] FRITCH, CRAIG, US

[71] ALCON INC., CH

[85] 2021-08-25

[86] 2020-04-09 (PCT/IB2020/053414)

[87] (WO2020/217127)

[30] US (62/837,801) 2019-04-24

[21] **3,131,495**
[13] A1

[51] **Int.Cl. H02K 15/02 (2006.01) H02K 1/18 (2006.01)**

[25] EN

[54] **ADHESIVELY-LAMINATED CORE FOR STATOR AND ELECTRIC MOTOR**

[54] **NOYAU STRATIFIE ADHESIF DE STATOR ET MACHINE ELECTRIQUE ROTATIVE**

[72] TAKEDA, KAZUTOSHI, JP

[72] HIRAYAMA, RYU, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2021-08-25

[86] 2019-12-17 (PCT/JP2019/049273)

[87] (WO2020/129929)

[30] JP (2018-235863) 2018-12-17

[21] **3,131,496**
[13] A1

[51] **Int.Cl. H02K 15/02 (2006.01) H01F 41/02 (2006.01) H02K 1/18 (2006.01)**

[25] EN

[54] **LAMINATED CORE AND ELECTRIC MOTOR**

[54] **NOYAU EMPILE ET MACHINE ELECTRIQUE ROTATIVE**

[72] HIRAYAMA, RYU, JP

[72] TAKEDA, KAZUTOSHI, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2021-08-25

[86] 2019-12-17 (PCT/JP2019/049285)

[87] (WO2020/129936)

[30] JP (2018-235858) 2018-12-17

[21] **3,131,497**
[13] A1

[51] **Int.Cl. H01P 3/127 (2006.01) H01P 11/00 (2006.01)**

[25] EN

[54] **WAVEGUIDE DEVICE AND METHOD FOR PRODUCING SAID DEVICE**

[54] **DISPOSITIF A GUIDE D'ONDES ET PROCEDE DE FABRICATION DE CE DISPOSITIF**

[72] DE RIJK, EMILE, CH

[72] BILLOD, MATHIEU, FR

[72] CAPDEVILLA CASCANTE, SANTIAGO, CH

[72] DIMITRIADES, ALEXANDRE, CH

[72] SIMON, LIONEL, CH

[71] SWISSTO12 SA, CH

[85] 2021-08-25

[86] 2020-04-10 (PCT/IB2020/053434)

[87] (WO2020/208595)

[30] FR (FR1903906) 2019-04-11

[21] **3,131,498**
[13] A1

[51] **Int.Cl. B62D 12/02 (2006.01) B62D 6/00 (2006.01) B62D 7/15 (2006.01)**

[25] EN

[54] **VEHICLE COUPLING ASSISTANCE DEVICE, VEHICLE COUPLING ASSISTANCE METHOD, VEHICLE COUPLING ASSISTANCE SYSTEM, AND STEERING CONTROL DEVICE**

[54] **DISPOSITIF D'AIDE AU COUPLAGE D'UN VEHICULE, PROCEDE D'AIDE AU COUPLAGE D'UN VEHICULE ET SYSTEME D'AIDE AU COUPLAGE D'UN VEHICULE ET DISPOSITIF DE REGLAGE DE DIRECTION**

[72] WANG, JIAN, JP

[72] TAKAHAMA, TAKU, JP

[71] HITACHI ASTEMO, LTD., JP

[85] 2021-08-25

[86] 2020-04-30 (PCT/JP2020/018217)

[87] (WO2020/230640)

[30] JP (2019-090763) 2019-05-13

[21] **3,131,499**
[13] A1

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

[25] EN

[54] **MICROORGANISM BELONGING TO GENUS STAPHYLOCOCCUS PRODUCING ALLULOSE AND METHOD FOR PREPARING ALLULOSE USING THE SAME**

[54] **MICRO-ORGANISME PRODUISANT DE L'ALLULOSE DU GENRE STAPHYLOCOCCUS ET PROCEDE DE FABRICATION D'ALLULOSE L'UTILISANT**

[72] KIM, SU JIN, KR

[72] CHI, HYUN, KR

[72] HONG, EUNSOO, KR

[72] KIM, YANG HEE, KR

[72] KIM, TAEK BEOM, KR

[72] GWAK, JUNSEOK, KR

[72] KIM, SEONG BO, KR

[72] CHOI, EUN JUNG, KR

[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2021-08-25

[86] 2020-03-04 (PCT/KR2020/003061)

[87] (WO2020/184889)

[30] KR (10-2019-0026633) 2019-03-08

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[21] **3,131,500**
[13] A1

[51] **Int.Cl. H02K 15/02 (2006.01) H01F 41/02 (2006.01) H02K 1/18 (2006.01)**

[25] EN

[54] **LAMINATED CORE AND ELECTRIC MOTOR**

[54] **NOYAU EMPILE ET MACHINE ELECTRIQUE ROTATIVE**

[72] HIRAYAMA, RYU, JP

[72] TAKEDA, KAZUTOSHI, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2021-08-25

[86] 2019-12-17 (PCT/JP2019/049294)

[87] (WO2020/129942)

[30] JP (2018-235857) 2018-12-17

[21] **3,131,501**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/024 (2006.01) A61B 5/1455 (2006.01) A61B 5/1495 (2006.01) A61B 5/01 (2006.01) A61B 5/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR A WEARABLE VITAL SIGNS MONITOR**

[54] **SYSTEME ET PROCEDE POUR UN DISPOSITIF DE SURVEILLANCE DE SIGNES VITAUX POUVANT ETRE PORTE**

[72] DIETIKER, THOMAS, US

[71] MEDTOR LLC, US

[85] 2021-08-25

[86] 2019-02-07 (PCT/US2019/017107)

[87] (WO2019/164676)

[30] US (62/635,332) 2018-02-26

[21] **3,131,502**
[13] A1

[51] **Int.Cl. D06M 15/693 (2006.01) C08J 5/06 (2006.01) D06M 13/02 (2006.01) D06M 13/224 (2006.01)**

[25] EN

[54] **REINFORCING FIBER, METHOD FOR MANUFACTURING SAME, AND MOLDED BODY USING SAME**

[54] **FIBRE DE RENFORCEMENT, SON PROCEDE DE FABRICATION, ET CORPS MOULE L'UTILISANT**

[72] ASADA, TORU, JP

[72] KODA, DAISUKE, JP

[72] YORIMITSU, SHUHEI, JP

[72] TAKEMOTO, SHINICHI, JP

[72] KAWAI, HIROYUKI, JP

[71] KURARAY CO., LTD., JP

[85] 2021-08-25

[86] 2020-02-21 (PCT/JP2020/007220)

[87] (WO2020/175404)

[30] JP (2019-034453) 2019-02-27

[21] **3,131,503**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **CAPSULE**

[54] **CAPSULE**

[72] RAPPARINI, GINO, IT

[72] GENERALI, MAURIZIO, IT

[71] AROMA SYSTEM S.R.L., IT

[85] 2021-08-25

[86] 2020-04-16 (PCT/IB2020/053592)

[87] (WO2020/212892)

[30] IT (102019000006046) 2019-04-18

[21] **3,131,504**
[13] A1

[51] **Int.Cl. G01L 5/00 (2006.01) F16C 19/18 (2006.01) F16C 25/08 (2006.01) F16C 33/78 (2006.01) F16C 43/04 (2006.01)**

[25] EN

[54] **PRELOAD INSPECTION METHOD AND ASSEMBLY METHOD FOR BEARING DEVICE FOR VEHICLE WHEEL**

[54] **PROCEDE D'INSPECTION DE PRECHARGE ET PROCEDE D'ASSEMBLAGE POUR DISPOSITIF DE ROULEMENT DE ROUE**

[72] TAKUBO, TAKAYASU, JP

[72] OWADA, TAKAYUKI, JP

[72] KATAYAMA, AKIHIKO, JP

[71] NTN CORPORATION, JP

[85] 2021-08-25

[86] 2020-02-28 (PCT/JP2020/008355)

[87] (WO2020/179670)

[30] JP (2019-038630) 2019-03-04

[21] **3,131,506**
[13] A1

[51] **Int.Cl. D21H 27/00 (2006.01) D21C 5/00 (2006.01) D21H 11/12 (2006.01) D21H 27/10 (2006.01)**

[25] EN

[54] **METHODS FOR PREPARING CANNABIS HURD FIBER, PURIFIED CANNABIS HURD FIBER, AND ARTICLES CONTAINING THE PURIFIED CANNABIS HURD FIBER**

[54] **PROCEDES DE PREPARATION DE FIBRE D'ETOUPE DE CANNABIS, FIBRE D'ETOUPE DE CANNABIS PURIFIEE, ET ARTICLES CONTENANT LA FIBRE D'ETOUPE DE CANNABIS PURIFIEE**

[72] PAUWELS, DAVID, US

[72] ANDERSEN, TIFFANY, US

[71] PAUWELS, DAVID, US

[71] ANDERSEN, TIFFANY, US

[85] 2021-08-25

[86] 2019-02-20 (PCT/US2019/018723)

[87] (WO2019/164908)

[30] US (62/635,403) 2018-02-26

Demandes PCT entrant en phase nationale

[21] **3,131,507**
[13] A1

[51] **Int.Cl. E04H 4/00 (2006.01) A61H 33/00 (2006.01) E04H 4/08 (2006.01) E04H 4/10 (2006.01)**

[25] EN
[54] **SPA COVER WITH SENSOR**
[54] **COUVERCLE DE CUVE**
THERMALE DOTE DE CAPTEUR

[72] GUILFOYLE, JEFF, US
[72] SJOBLOM, DAN, US
[72] HALES, ERIC, US
[71] BULLFROG INTERNATIONAL, LC, US

[85] 2021-08-25
[86] 2019-02-27 (PCT/US2019/019835)
[87] (WO2020/176083)

[21] **3,131,508**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/178 (2006.01) A61M 5/34 (2006.01)**

[25] EN
[54] **SYRINGE WITH**
MULTIFUNCTIONAL NEEDLE
HOLDER AND RETAINER RING
ASSEMBLY

[54] **SERINGUE AYANT UN SUPPORT**
D'AIGUILLE
MULTIFONCTIONNEL ET
ENSEMBLE BAGUE DE RETENUE

[72] ZHU, NI, US
[72] DUESMAN, JORDAN, US
[72] SHAW, THOMAS J., US
[71] RETRACTABLE TECHNOLOGIES, INC., US

[71] SHAW, THOMAS J., US
[85] 2021-08-25
[86] 2019-09-19 (PCT/US2019/051840)
[87] (WO2020/176134)

[21] **3,131,510**
[13] A1

[51] **Int.Cl. F16L 59/02 (2006.01) F16L 59/00 (2006.01) F16L 59/10 (2006.01) F16L 59/11 (2006.01) F16L 59/14 (2006.01) F16L 59/16 (2006.01) F16L 59/18 (2006.01)**

[25] EN
[54] **PIPE ASSEMBLY INSULATION**
AND VAPOR BARRIER

[54] **ISOLATION ET BARRIERE PARE-VAPEUR POUR ENSEMBLE DE TUYAU**

[72] WEBSTER, JEFFREY J., US
[72] GREY, ADAM, M., US
[72] MARUNICH, JACOB M., US
[72] KUEHNER, RYAN D., US
[71] VICTAULIC COMPANY, US

[85] 2021-08-25
[86] 2020-02-20 (PCT/US2020/018972)
[87] (WO2020/176320)
[30] US (62/811,818) 2019-02-28

[21] **3,131,511**
[13] A1

[51] **Int.Cl. H04L 12/14 (2006.01) H04W 4/24 (2018.01) H04M 15/00 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR**
SUBSCRIPTION BASED
DEPLOYMENT AND
MANAGEMENT OF A
COMMUNICATION SYSTEM

[54] **SYSTEME ET PROCEDE POUR LE**
DEPLOIEMENT ET LA GESTION
D'UN SYSTEME DE
COMMUNICATION PAR
ABONNEMENT

[72] GLASS, STEPHEN C., US
[72] KLEIN, DAVID, US
[72] MOSELLE, BLAKE C., US
[72] TOUVANNAS, JOHN, US
[71] MOTOROLA SOLUTIONS, INC., US

[85] 2021-08-25
[86] 2020-02-21 (PCT/US2020/019217)
[87] (WO2020/185371)
[30] US (16/351,126) 2019-03-12

[21] **3,131,512**
[13] A1

[51] **Int.Cl. A62C 2/04 (2006.01) A62C 2/06 (2006.01) A62C 2/08 (2006.01) A62C 3/02 (2006.01) A62C 31/02 (2006.01)**

[25] EN
[54] **HORIZONTAL SIDEWALL**
WINDOW SPRINKLERS,
SYSTEMS AND METHODS OF
FIRE PROTECTION

[54] **GICLEURS HORIZONTAUX POUR**
FENETRES LATERALES,
SYSTEMES ET PROCEDES DE
PROTECTION CONTRE
L'INCENDIE

[72] DRAKE, JONATHAN D., US
[71] MINIMAX VIKING RESEARCH & DEVELOPMENT GMBH, DE

[85] 2021-08-25
[86] 2019-12-15 (PCT/US2019/066423)
[87] (WO2020/180382)
[30] US (62/814,039) 2019-03-05

[21] **3,131,514**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01) C12P 19/34 (2006.01) C40B 40/06 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS**
FOR NEXT GENERATION
SEQUENCING

[54] **COMPOSITIONS ET PROCEDES**
DE SEQUENCAGE DE NOUVELLE
GENERATION

[72] GANTT, RICHARD, US
[72] CHEN, SIYUAN, US
[71] TWIST BIOSCIENCE CORPORATION, US

[85] 2021-08-25
[86] 2020-02-21 (PCT/US2020/019371)
[87] (WO2020/176362)
[30] US (62/810,321) 2019-02-25
[30] US (62/914,904) 2019-10-14
[30] US (62/926,336) 2019-10-25

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[21] **3,131,515**
[13] A1

[51] **Int.Cl. F16L 59/16 (2006.01) F16L 25/00 (2006.01)**
[25] EN
[54] **PIPE CONNECTOR**
[54] **RACCORD DE TUYAU**
[72] GUDNASON, ROBERT KAREL, IS
[72] EINARSSON, ORN, IS
[71] SET EHF., IS
[85] 2021-08-25
[86] 2020-02-27 (PCT/IS2020/050006)
[87] (WO2020/174502)
[30] IS (050255) 2019-02-28

[21] **3,131,516**
[13] A1

[51] **Int.Cl. G08B 13/189 (2006.01) G08B 13/181 (2006.01) G08B 13/196 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMIC VEHICULAR THREAT DETECTION PERIMETER MODIFICATION FOR AN EXITED VEHICULAR OCCUPANT**
[54] **SYSTEME ET PROCEDE DE MODIFICATION DYNAMIQUE DE PERIMETRE DE DETECTION DE MENACE DE VEHICULE POUR UN OCCUPANT SORTI D'UN VEHICULE**
[72] KOSKAN, PATRICK D., US
[72] ALAZRAKI, SCOTT M., US
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2021-08-25
[86] 2020-02-07 (PCT/US2020/017128)
[87] (WO2020/180453)
[30] US (16/289,823) 2019-03-01

[21] **3,131,517**
[13] A1

[51] **Int.Cl. A61K 31/4985 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **INHIBITOR OF BTK AND MUTANTS THEREOF**
[54] **INHIBITEURS DE BTK ET LEURS MUTANTS**
[72] CHEN, YI, US
[71] GUANGZHOU LUPENG PHARMACEUTICAL COMPANY LTD., CN
[85] 2021-08-25
[86] 2020-02-24 (PCT/US2020/019478)
[87] (WO2020/176403)
[30] US (62/810,169) 2019-02-25
[30] US (62/837,535) 2019-04-23
[30] US (62/911,212) 2019-10-05

[21] **3,131,518**
[13] A1

[51] **Int.Cl. G01V 1/30 (2006.01) G01V 99/00 (2009.01) G01V 1/50 (2006.01)**
[25] EN
[54] **ITERATIVE STOCHASTIC SEISMIC INVERSION**
[54] **INVERSION SISMIQUE STOCHASTIQUE ITERATIVE**
[72] ZHANG, JINGFENG, US
[72] WALKER, MATTHEW, US
[71] BP CORPORATION NORTH AMERICA INC., US
[85] 2021-08-25
[86] 2020-02-10 (PCT/US2020/017416)
[87] (WO2020/180459)
[30] US (62/812,633) 2019-03-01
[30] US (16/785,755) 2020-02-10

[21] **3,131,519**
[13] A1

[51] **Int.Cl. G01S 7/41 (2006.01)**
[25] EN
[54] **DETERMINING SPACE OBJECT ATTITUDE STABILITIES FROM RADAR CROSS-SECTION STATISTICS**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES POUR DETERMINER DES STABILITES D'ATTITUDE D'OBJETS SPATIAUX A PARTIR DE STATISTIQUES DE SECTIONS EFFICACES EN RADAR**
[72] STEVENSON, MATTHEW A., US
[72] NICOLLS, MICHAEL, US
[72] ROSNER, CHRIS, US
[71] LEOLABS, INC., US
[85] 2021-08-25
[86] 2020-02-24 (PCT/US2020/019513)
[87] (WO2020/214242)
[30] US (62/811,373) 2019-02-27
[30] US (16/574,464) 2019-09-18

[21] **3,131,521**
[13] A1

[51] **Int.Cl. H02K 15/02 (2006.01) H02K 1/18 (2006.01)**
[25] EN
[54] **ADHESIVELY-LAMINATED CORE FOR STATOR AND ELECTRIC MOTOR**
[54] **NOYAU STRATIFIE ADHESIF DE STATOR ET MACHINE ELECTRIQUE ROTATIVE**
[72] TAKEDA, KAZUTOSHI, JP
[72] HIRAYAMA, RYU, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2021-08-25
[86] 2019-12-17 (PCT/JP2019/049266)
[87] (WO2020/129925)
[30] JP (2018-235864) 2018-12-17

[21] **3,131,522**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **HEART VALVE SEALING DEVICES**
[54] **DISPOSITIFS D'ETANCHEITE DE VALVULE CARDIAQUE**
[72] PHAN, JIAN LIN, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2021-08-25
[86] 2020-02-24 (PCT/US2020/019495)
[87] (WO2020/176410)
[30] US (62/809,856) 2019-02-25

Demandes PCT entrant en phase nationale

[21] **3,131,523**
[13] A1

[51] **Int.Cl. H01P 1/18 (2006.01) H04W 4/40 (2018.01) H01Q 1/32 (2006.01)**

[25] EN

[54] **SWITCHABLE REFLECTIVE PHASE SHIFTER FOR MILLIMETER WAVE APPLICATIONS**

[54] **DEPHASEUR A REFLEXION COMMUTABLE DESTINE A DES APPLICATIONS A ONDES MILLIMETRIQUES**

[72] ALIDIO, RAUL INOCENCIO, US

[71] METAWAVE CORPORATION, US

[85] 2021-08-25

[86] 2020-02-26 (PCT/US2020/019854)

[87] (WO2020/176595)

[30] US (62/810,950) 2019-02-26

[21] **3,131,525**
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **MEDICATION DELIVERY DEVICE WITH SENSING SYSTEM**

[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT DOTE D'UN SYSTEME DE DETECTION**

[72] CONNAUGHTON, EOIN PATRICK, US

[72] LAURENZI, BRENDAN FRANCIS, US

[72] LAWLOR, VINCENT PATRICK THOMAS, US

[72] LI, LIN, US

[72] MURPHY, PATRICK KEVIN, US

[72] PSZENNY, SEAN MATTHEW, US

[71] ELI LILLY AND COMPANY, US

[85] 2021-08-25

[86] 2020-02-20 (PCT/US2020/018953)

[87] (WO2020/176316)

[30] US (62/811,228) 2019-02-27

[21] **3,131,528**
[13] A1

[51] **Int.Cl. B22F 7/00 (2006.01) C22C 38/12 (2006.01)**

[25] EN

[54] **HIGH NITROGEN STEEL POWDER AND METHODS OF MAKING THE SAME**

[54] **POUDRE D'ACIER A HAUTE TENEUR EN AZOTE ET PROCEDES DE FABRICATION DE CELLE-CI**

[72] MOHANTY, PRAVANSU S., US

[72] VARADARAJAN, VIKRAM, US

[72] NAGENDIRAN, SHARAN, US

[71] SOMNIO GLOBAL HOLDINGS, LLC, US

[85] 2021-08-25

[86] 2020-02-26 (PCT/US2020/019894)

[87] (WO2020/176616)

[30] US (62/810,680) 2019-02-26

[21] **3,131,529**
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 35/763 (2015.01) C07K 14/52 (2006.01) C07K 14/54 (2006.01)**

[25] EN

[54] **USE OF ONCOLYTIC VIRUSES FOR THE TREATMENT OF CANCER**

[54] **UTILISATION DE VIRUS ONCOLYTIQUES POUR LE TRAITEMENT DU CANCER**

[72] DEVOSS, JASON JAMES, US

[72] MEISEN, WALTER HANS, US

[72] TINBERG, CHRISTINE ELAINE, US

[72] COOKE, KEEGAN, US

[72] MOESTA, ACHIM KLAUS, US

[71] AMGEN INC., US

[85] 2021-08-25

[86] 2020-03-03 (PCT/US2020/020793)

[87] (WO2020/180864)

[30] US (62/813,961) 2019-03-05

[21] **3,131,530**
[13] A1

[51] **Int.Cl. C07C 17/093 (2006.01) C07C 17/21 (2006.01) C07C 17/25 (2006.01) C07C 17/269 (2006.01) C07C 17/354 (2006.01) C07C 19/10 (2006.01) C07C 21/20 (2006.01) C07C 21/22 (2006.01)**

[25] EN

[54] **PROCESSES FOR PRODUCING Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE AND INTERMEDIATES FOR PRODUCING SAME**

[54] **PROCEDES DE PRODUCTION DE Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE ET INTERMEDIAIRES POUR LEUR PRODUCTION**

[72] PENG, SHENG, US

[72] SIEVERT, ALLEN CAPRON, US

[71] THE CHEMOURS COMPANY FC, LLC, US

[85] 2021-08-25

[86] 2020-04-03 (PCT/US2020/026671)

[87] (WO2020/206322)

[30] US (62/829,846) 2019-04-05

[21] **3,131,531**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **ANTIBODIES RECOGNIZING TAU**

[54] **ANTICORPS RECONNAISSANT LA PROTEINE TAU**

[72] NIJJAR, TARLOCHAN S., US

[72] BARBOUR, ROBIN, US

[72] DOLAN, PHILIP JAMES III, US

[72] LIU, YUE, US

[72] ALEXANDER, SVETLANA, US

[72] RENZ, MARK E., US

[71] PROTHENA BIOSCIENCES LIMITED, IE

[85] 2021-08-25

[86] 2020-03-02 (PCT/US2020/020704)

[87] (WO2020/180819)

[30] US (62/813,126) 2019-03-03

[30] US (62/813,137) 2019-03-03

[30] US (62/838,159) 2019-04-24

PCT Applications Entering the National Phase

[21] **3,131,532**
[13] A1

[51] **Int.Cl. C07C 17/04 (2006.01) C07C 17/20 (2006.01) C07C 17/25 (2006.01) C07C 17/354 (2006.01) C07C 19/10 (2006.01) C07C 21/18 (2006.01) C07C 21/22 (2006.01)**

[25] EN

[54] **PROCESSES FOR PRODUCING Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE AND INTERMEDIATES FOR PRODUCING SAME**

[54] **PROCEDES DE PRODUCTION DE Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE ET INTERMEDIAIRES POUR LEUR PRODUCTION**

[72] PENG, SHENG, US
[72] SIEVERT, ALLEN CAPRON, US
[71] THE CHEMOURS COMPANY FC, LLC, US

[85] 2021-08-25
[86] 2020-04-03 (PCT/US2020/026692)
[87] (WO2020/206335)
[30] US (62/829,854) 2019-04-05

[21] **3,131,533**
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01) A61K 35/17 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **CD19-DIRECTED CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF IN IMMUNOTHERAPY**

[54] **RECEPTEURS D'ANTIGENES CHIMERIQUES ANTI-CD19 ET LEURS UTILISATIONS EN IMMUNOTHERAPIE**

[72] TRAGER, JAMES BARNABY, US
[72] BUREN, LUXUAN GUO, US
[72] GUO, CHAO, US
[72] TOHME, MIRA, US
[72] CHAN, IVAN, US
[72] LAZETIC, ALEXANDRA, LEIDA LIANA, US

[71] NKARTA, INC., US

[85] 2021-08-25
[86] 2020-03-03 (PCT/US2020/020824)
[87] (WO2020/180882)
[30] US (62/814,180) 2019-03-05
[30] US (62/895,910) 2019-09-04
[30] US (62/932,165) 2019-11-07

[21] **3,131,534**
[13] A1

[51] **Int.Cl. G16H 20/30 (2018.01) G16H 20/70 (2018.01)**

[25] EN

[54] **ATHLETIC TRAINING SYSTEM COMBINING COGNITIVE TASKS WITH PHYSICAL TRAINING**

[54] **SYSTEME D'ENTRAINEMENT ATHLETIQUE COMBINANT DES TACHES COGNITIVES AVEC L'ENTRAINEMENT PHYSIQUE**

[72] SACHS, SUN, US
[72] ROTWEIN, CODY FRANCES, US
[71] REWIRE FITNESS, INC., US

[85] 2021-08-25
[86] 2020-02-24 (PCT/US2020/019518)
[87] (WO2020/176420)
[30] US (62/809,927) 2019-02-25

[21] **3,131,537**
[13] A1

[51] **Int.Cl. C07C 17/25 (2006.01) C07C 17/269 (2006.01) C07C 17/354 (2006.01) C07C 21/20 (2006.01) C07C 21/22 (2006.01)**

[25] EN

[54] **PROCESSES FOR PRODUCING Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE AND INTERMEDIATES FOR PRODUCING SAME**

[54] **PROCEDES DE PRODUCTION DE Z-1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE ET INTERMEDIAIRES POUR LEUR PRODUCTION**

[72] PENG, SHENG, US
[72] SIEVERT, ALLEN CAPRON, US
[71] THE CHEMOURS COMPANY FC, LLC, US

[85] 2021-08-25
[86] 2020-04-03 (PCT/US2020/026612)
[87] (WO2020/206279)
[30] US (62/829,856) 2019-04-05

[21] **3,131,538**
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[51] **Int.Cl. A61M 5/20 (2006.01)**

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[54] **CASSETTE FOR AN AUTOINJECTOR AND RELATED METHODS**

[54] **CASSETTE POUR AUTO-INJECTEUR ET METHODES ASSOCIEES**

[72] RAHBARI, AZITA, US
[72] DASOJU, SUNITHA, US
[72] TOSARINI, ANGELO, US
[72] ANTONINI, ANTONIO, US
[72] JAZAYERI, JULIAN, US
[72] SACHAR, HARPREET, US
[72] COLES, ANDREW, US
[72] YIN, DESHENG, US
[72] ASHANI, ALIREZA, US
[71] AMGEN INC., US

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[87] (WO2020/214492)
[30] US (62/835,249) 2019-04-17

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[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/00 (2020.01) A24F 40/42 (2020.01)**

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[54] **CARTRIDGE ORIENTATION FOR SELECTION OF A CONTROL FUNCTION IN A VAPORIZATION SYSTEM**

[54] **ORIENTATION DE CARTOUCHE POUR LA SELECTION D'UNE FONCTION DE COMMANDE DANS UN SYSTEME DE VAPORISATION**

[72] NOVAK, III, CHARLES JACOB, US
[72] DAUGHERTY, SEAN A., US
[72] GALLOWAY, MICHAEL RYAN, US
[72] WOOD, JASON L., US
[72] NETTENSTROM, MATTHEW JOEL, US

[72] HENRY, RAYMOND CHARLES, JR., US

[71] RAI STRATEGIC HOLDINGS, INC., US

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[54] **NOYAU STRATIFIE ET MACHINE ELECTRIQUE ROTATIVE**
[72] HIRAYAMA, RYU, JP
[72] TAKEDA, KAZUTOSHI, JP
[71] NIPPON STEEL CORPORATION, JP
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[25] EN
[54] **WELL TREATMENT METHODS**
[54] **PROCEDES DE TRAITEMENT DE PUITS**
[72] GOMAA, AHMED M., SA
[72] BATAWEEL, MOHAMMED A., SA
[72] SAYED, MOHAMMED, US
[72] CAIRNS, AMY J., US
[72] BULEKBAY, ASLAN, SA
[72] ALNOAIMI, KHALID R., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
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[25] EN
[54] **A VEIN PATTERN BASED SYSTEM FOR CARD USAGE BY CARD OWNERS AND THEIR BENEFICIARIES.**
[54] **SYSTEME BASE SUR UN MOTIF DE VEINE POUR L'UTILISATION DE CARTES PAR DES DETENTEURS DE CARTES ET LEURS BENEFICIAIRES**
[72] DIGHE, KSHITIJ, IN
[71] DIGHE, KSHITIJ, IN
[85] 2021-08-25
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[25] EN
[54] **EMBRYOGENESIS FACTORS FOR CELLULAR REPROGRAMMING OF A PLANT CELL**
[54] **FACTEURS D'EMBRYOGENESE POUR REPROGRAMMATION CELLULAIRE D'UNE CELLULE VEGETALE**
[72] REINDERS, JON AARON TUCKER, US
[72] YE, HUAXUN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2021-08-25
[86] 2020-04-17 (PCT/US2020/028815)
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[13] A1

[51] **Int.Cl. A23L 2/02 (2006.01) A23L 5/20 (2016.01)**
[25] EN
[54] **STABLE PROTEIN FORMULATIONS**
[54] **FORMULATIONS STABLES DE PROTEINE**
[72] LIOUTAS, THEODORE S., US
[72] OKUDA, KEITA, US
[71] AMANO ENZYME USA CO., LTD., US
[71] AMANO ENZYME INC., JP
[85] 2021-08-25
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[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) C12N 15/864 (2006.01)**
[25] EN
[54] **TARGETING SENESCENT CELLS**
[54] **CIBLAGE DE CELLULES SENESCENTES**
[72] THORIN, ERIC, CA
[71] INSTITUT DE CARDIOLOGIE DE MONTREAL, CA
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[30] US (62/811,057) 2019-02-27

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[13] A1

[51] **Int.Cl. A61K 39/155 (2006.01) A61K 38/00 (2006.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01) C12N 15/00 (2006.01)**
[25] EN
[54] **METHODS FOR PREVENTING DISEASE OR DISORDER CAUSED BY RSV INFECTION**
[54] **METHODES DE PREVENTION D'UNE MALADIE OU D'UN TROUBLE CAUSE PAR UNE INFECTION PAR LE VRS**
[72] GLENN, GREGORY, US
[71] NOVAVAX, INC., US
[85] 2021-08-25
[86] 2020-02-25 (PCT/US2020/019721)
[87] (WO2020/176524)
[30] US (62/811,945) 2019-02-28

[21] **3,131,553**
[13] A1

[51] **Int.Cl. A47L 15/00 (2006.01) A47L 15/24 (2006.01)**
[25] EN
[54] **DISHWASHING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE LAVAGE DE VAISSELLE**
[72] DI LILLO, MICHAEL, CA
[71] DI LILLO, MICHAEL, CA
[85] 2021-08-26
[86] 2020-03-12 (PCT/CA2020/050331)
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[51] **Int.Cl. G01N 1/04 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR MINCING BIOLOGICAL TISSUE**
[54] **PROCEDES ET DISPOSITIFS DE DECOUPAGE DE TISSUS BIOLOGIQUES**
[72] WONG, EDMOND TAN-LOON, CA
[71] GENETRACK BIOLABS INC., CA
[85] 2021-08-26
[86] 2021-01-20 (PCT/CA2021/050060)
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[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01) C12Q 1/34 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **DEVICE FOR METHODS OF DETECTING CANCER**
[54] **DISPOSITIF POUR DES METHODES DE DETECTION D'UN CANCER**
[72] FRANZMANN, ELIZABETH, US
[71] UNIVERSITY OF MIAMI, US
[85] 2021-08-25
[86] 2020-02-26 (PCT/US2020/019807)
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[13] A1

[51] **Int.Cl. A61K 31/4965 (2006.01) A61K 9/24 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING TBN, OR SALT OR HYDRATE THEREOF, AND PREPARATION METHOD THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT DU TBN, OU UN SEL OU UN HYDRATE DE CELUI-CI, ET SON PROCEDE DE PREPARATION**
[72] LIU, WEI, CN
[72] SUN, YEWEL, CN
[72] WANG, YUQIANG, CN
[71] GUANGZHOU MAGPIE PHARMACEUTICALS CO., LTD., CN
[85] 2021-08-26
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[87] (WO2020/173046)
[30] CN (201910143739.0) 2019-02-27

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[13] A1

[51] **Int.Cl. H03K 17/041 (2006.01)**
[25] EN
[54] **DESIGN AND APPLICATION FOR IMPROVING SWITCH SPEED OF POWER ELECTRONIC SWITCH DEVICE**
[54] **CONCEPTION PERMETTANT D'AUGMENTER LA VITESSE DE COMMUTATION D'UN DISPOSITIF DE COMMUTATION ELECTRONIQUE DE PUISSANCE, ET APPLICATION**
[72] LYU, JIANHUA, CN
[72] LYU, XINGHUA, CN
[71] LYU, JIANHUA, CN
[85] 2021-08-26
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[13] A1

[51] **Int.Cl. A24D 1/02 (2006.01) A24F 47/00 (2020.01)**
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[54] **SMOKING ARTICLE**
[54] **ARTICLE A FUMER**
[72] ENGLAND, WILLIAM, GB
[72] AUSTIN, MARK, GB
[71] BRITISH AMERICAN TOBACCO ITALIA S.P.A., IT
[85] 2021-08-26
[86] 2019-02-28 (PCT/EP2019/055078)
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[21] **3,131,573**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **FLOW CYTOMETRY MEASUREMENT METHOD AND KIT FOR CARRYING OUT SAME**
[54] **PROCEDE DE MESURE PAR CYTOMETRIE EN FLUX ET KIT POUR SA MISE EN ŒUVRE**
[72] KLAPPROTH, HOLGER, DE
[72] BIRSNER, ULRICH, DE
[72] KESSEMEIER, MARC, DE
[71] AVA LIFESCIENCE GMBH, DE
[85] 2021-08-26
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[87] (WO2020/177840)

[21] **3,131,577**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR NON-INVASIVE EXAMINATION OF BLOOD ENVIRONMENT PARAMETERS**
[54] **SYSTEME D'EXAMEN NON-INVASIF DE PARAMETRES D'ENVIRONNEMENT SANGUIN**
[72] KAZAR, PAVEL, SK
[71] DIGITAL BLOOD CORPORATION, US
[85] 2021-08-25
[86] 2020-02-26 (PCT/US2020/019953)
[87] (WO2020/176658)
[30] US (62/810,927) 2019-02-26

[21] **3,131,584**
[13] A1

[51] **Int.Cl. F03D 1/06 (2006.01)**
[25] EN
[54] **JOINTED WIND TURBINE ROTOR BLADE WITH CHORD-WISE EXTENDING PIN BUSHINGS DESIGNED TO MINIMIZE CHORD-WISE GAP**
[54] **PALE DE ROTOR D'EOLIENNE ARTICULEE DOTEE DE BAGUES DE BROCHE S'ETENDANT DANS LE SENS DE LA CORDE CONCUES POUR REDUIRE AU MINIMUM UN ESPACE DANS LE SENS DE LA CORDE**
[72] WRIGHT, JON STUART, US
[72] RODWELL, ANDREW MITCHELL, US
[72] HUTH, SCOTT JACOB, US
[72] SHILLIG, SCOTT IVERSON, US
[72] AGARWAL, ROHIT, US
[72] WILFORD, ASHLEY SIMONE, US
[71] GENERAL ELECTRIC COMPANY, US
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[87] (WO2020/180601)
[30] US (PCT/US2019/020267) 2019-03-01

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[51] **Int.Cl. C12N 15/10 (2006.01) A61K 39/00 (2006.01) C07K 14/725 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **IMPROVED PROCESS FOR DNA INTEGRATION USING RNA-GUIDED ENDONUCLEASES**

[54] **PROCEDE AMELIORE D'INTEGRATION D'ADN A L'AIDE D'ENDONUCLEASES GUIDEES PAR ARN**

[72] DING, BEIBEI, US
[72] GUO, WENZHONG, US
[72] ZHANG, YANLIANG, US
[71] SORRENTO THERAPEUTICS, INC., US

[85] 2021-08-25
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[30] US (16/288,052) 2019-02-27

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[13] A1

[51] **Int.Cl. A61K 31/351 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **USE OF SOTAGLIFLOZIN FOR THE TREATMENT OF PATIENTS WITH TYPE 1 DIABETES MELLITUS**

[54] **UTILISATION DE SOTAGLIFLOZINE POUR LE TRAITEMENT DE PATIENTS ATTEINTS DE DIABETE SUCRE DE TYPE 1**

[72] BANKS, PHILLIP, US
[72] SAWHNEY, SANGEETA, US
[71] LEXICON PHARMACEUTICALS, INC., US

[85] 2021-08-25
[86] 2020-02-28 (PCT/US2020/020295)
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[51] **Int.Cl. A63G 7/00 (2006.01) A63G 31/00 (2006.01) A63G 31/10 (2006.01) A63G 31/16 (2006.01) A63J 1/02 (2006.01)**

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[54] **VERTICAL MOTION DRIVE SYSTEM FOR A RIDE SYSTEM**

[54] **SYSTEME D'ENTRAINEMENT A MOUVEMENT VERTICAL POUR SYSTEME DE MANEGE**

[72] TRESAUGUE, MICHAEL JOSEPH, US
[72] LEVY, LISA MARIE, US
[72] BRISTER, MICHAEL KEITH, US
[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2021-08-25
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[30] US (62/818,457) 2019-03-14
[30] US (16/588,607) 2019-09-30

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[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/11 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **ANTISENSE OLIGOMERS FOR TREATMENT OF CONDITIONS AND DISEASES**

[54] **OLIGOMERES ANTISENS POUR LE TRAITEMENT D'ETATS PATHOLOGIQUES ET AUTRES MALADIES**

[72] AZNAREZ, ISABEL, US
[71] STROKE THERAPEUTICS, INC., US

[85] 2021-08-25
[86] 2020-02-27 (PCT/US2020/020175)
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[54] **NOVEL IRON COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME**

[54] **NOUVELLES COMPOSITIONS DE FER ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION**

[72] KEYSER, DONALD JEFFREY, US
[72] GUILLEM, ALVARO F., US
[72] ZAGER, RICHARD A., US
[71] RENIBUS THERAPEUTICS, INC., US

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[30] US (62/812,028) 2019-02-28

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[51] **Int.Cl. A45C 3/10 (2006.01) A45C 3/00 (2006.01) A45C 11/20 (2006.01) A45C 11/22 (2006.01) A45C 13/00 (2006.01) A45C 13/10 (2006.01)**

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[54] **CONTAINER WITH MAGNETIC CLOSURE**

[54] **RECIPIENT A FERMETURE MAGNETIQUE**

[72] ROGERS, KYLE EDWARD, US
[72] FRITZ, JOHN, US
[72] MUNIE, JEFFREY CHARLES, US
[71] YETI COOLERS, LLC, US

[85] 2021-08-25
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[30] US (16/295,711) 2019-03-07

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[51] **Int.Cl. A45C 3/10 (2006.01) A45C 11/20 (2006.01) A45C 11/22 (2006.01) A45C 13/00 (2006.01) A45C 13/10 (2006.01)**
[25] EN
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[72] SULLIVAN, DEREK G., US
[72] ROGERS, KYLE EDWARD, US
[71] YETI COOLERS, LLC, US
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[86] 2020-03-06 (PCT/US2020/021519)
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[13] A1
[51] **Int.Cl. B62B 7/12 (2006.01)**
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[54] **SEAT ASSEMBLY AND SYSTEMS**
[54] **ENSEMBLE SIEGE ET SYSTEMES**
[72] BOWMAN, ANDREW, US
[72] SCHROEDER, BRADY, US
[72] PERRIN, THOMAS, US
[72] MCKAY, NICHOLAS DOUGLAS, US
[71] VEER GEAR, LLC, US
[85] 2021-08-25
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[30] US (62/815,971) 2019-03-08

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[51] **Int.Cl. A61L 27/34 (2006.01) A61L 27/54 (2006.01) A61L 27/56 (2006.01)**
[25] EN
[54] **COLLAGEN-INFUSED COMPOSITE MATERIALS AND METHODS OF MANUFACTURING THE SAME**
[54] **MATERIAUX COMPOSITES IMPREGNES DE COLLAGENE ET LEURS PROCEDES DE FABRICATION**
[72] HANDLIN, JR., DALE LEE, US
[72] SHARMA, VARNA LAKSHMI, US
[72] EL AYLE, GRACIA, US
[72] QUINLAN, JOSEPH, US
[71] MODERN MEADOW, INC., US
[85] 2021-08-25
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[30] US (62/818,529) 2019-03-14
[30] US (62/894,451) 2019-08-30

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[51] **Int.Cl. G05D 7/00 (2006.01) H02G 1/00 (2006.01) H02G 9/00 (2006.01)**
[25] EN
[54] **FLUID INJECTION SYSTEM WITH SMART INJECTION AND RECEIVER TANKS**
[54] **SYSTEME D'INJECTION DE FLUIDE AVEC DES RESERVOIRS D'INJECTION ET DE RECEPTION INTELLIGENTS**
[72] BERTINI, GLEN JOHN, US
[72] FORD, WESTON PHILIPS CHAPIN, US
[72] HURWITZ, HELAINA, US
[72] KEITGES, NORMAN E., US
[72] LAUX, KEVIN, US
[72] STEELE, JAMES, US
[72] THOMAS, JEFFREY ANDREW, US
[72] TONFACK, RODRIGUE, US
[71] NOVINIUM, INC., US
[85] 2021-08-25
[86] 2020-03-14 (PCT/US2020/022861)
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[30] US (62/819,303) 2019-03-15
[30] US (62/879,263) 2019-07-26
[30] US (62/897,065) 2019-09-06
[30] US (16/818,941) 2020-03-13
[30] US (16/818,928) 2020-03-13

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[51] **Int.Cl. C07C 17/20 (2006.01) C07C 17/25 (2006.01) C07C 17/278 (2006.01) C07C 17/281 (2006.01) C07C 17/354 (2006.01) C07C 19/10 (2006.01) C07C 21/18 (2006.01) C07C 21/20 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING 1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE**
[54] **PROCEDE DE PRODUCTION DE 1,1,1,4,4,4-HEXAFLUOROBUT-2-ENE**
[72] PENG, SHENG, US
[72] SIEVERT, ALLEN CAPRON, US
[71] THE CHEMOURS COMPANY FC, LLC, US
[85] 2021-08-25
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[51] Int.Cl. G06Q 20/08 (2012.01) G06Q 30/02 (2012.01) [25] EN [54] SETTLEMENT SYSTEM AND SETTLEMENT METHOD [54] SYSTEME DE REGLEMENT ET PROCEDE DE REGLEMENT [72] ARIKAWA, SHINICHIROU, JP [72] FUJIYOSHI, EIJI, JP [71] 10353744 CANADA LTD., CA [22] 2014-12-24 [41] 2016-06-30 [62] 3,015,465	[51] Int.Cl. B65D 1/24 (2006.01) A24F 15/00 (2020.01) A45C 11/00 (2006.01) A47J 47/02 (2006.01) B65D 25/10 (2006.01) B65D 43/02 (2006.01) F42B 39/26 (2006.01) [25] EN [54] SEALABLE CONTAINER [54] [72] BLAGOJEVIC, STEVAN, XX [71] BLAGOJEVIC, STEVAN, XX [22] 2014-07-21 [41] 2015-01-22 [62] 2,955,319 [30] US (61/856,410) 2013-07-19 [30] US (61/988,745) 2014-05-05 [30] US (62/026,877) 2014-07-21	[51] Int.Cl. G01N 33/48 (2006.01) [25] EN [54] SYSTEM AND METHOD FOR DECISION SUPPORT USING LIFESTYLE FACTORS [54] SYSTEME ET PROCEDE D'AIDE A LA DECISION A L'AIDE DE FACTEURS DE MODE DE VIE [72] DAVIS, ANNA LEIGH, US [72] BHAVARAJU, NARESH C., US [72] BLACKWELL, JENNIFER, US [72] BOWMAN, LEIF N., US [72] CABRERA, ESTEBAN, US [72] CONSTANTIN, ALEXANDRA ELENA, US [72] DATTARAY, BASAB, US [72] DRAEGER, RIAN, US [72] JEPSON, LAUREN HRUBY, US [72] KAMATH, APURV ULLAS, US [72] KOEHLER, KATHERINE YERRE, US [72] PAL, ANDREW ATTILA, US [72] REIHMAN, ELI, US [72] WALKER, TOMAS C., US [71] DEXCOM, INC., US [22] 2017-01-26 [41] 2017-08-10 [62] 3,007,502 [30] US (62/289,825) 2016-02-01
[21] 3,128,591 [13] A1	[21] 3,129,220 [13] A1	
[51] Int.Cl. C12N 15/86 (2006.01) A61K 39/155 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/005 (2006.01) C07K 14/11 (2006.01) C07K 14/115 (2006.01) C12N 7/01 (2006.01) C12N 9/24 (2006.01) C12N 15/33 (2006.01) C12N 15/45 (2006.01) C12N 15/56 (2006.01) [25] EN [54] PARAINFLUENZA VIRUS 5 BASED VACCINES [54] VACCINS BASES SUR LE VIRUS PARAINFLUENZA 5 [72] HE, BIAO, US [71] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US [22] 2013-01-24 [41] 2013-08-01 [62] 2,860,388 [30] US (61/590,056) 2012-01-24 [30] US (61/590,070) 2012-01-24 [30] US (61/683,810) 2012-08-16	[51] Int.Cl. B65D 5/42 (2006.01) B65D 5/20 (2006.01) B65D 5/22 (2006.01) B65D 5/44 (2006.01) B65D 5/66 (2006.01) [25] EN [54] REINFORCED POLYGONAL CONTAINERS AND BLANKS FOR MAKING THE SAME [54] CONTENANTS POLYGONAUX RENFORCES ET FLANS POUR LES FABRIQUER [72] ARMSTRONG, MAUREEN ANN, US [72] SMITH, KENNETH, US [71] WESTROCK SHARED SERVICES, LLC, US [22] 2014-05-09 [41] 2014-11-13 [62] 2,912,053 [30] US (61/822,094) 2013-05-10 [30] US (14/062,711) 2013-10-24 [30] US (14/274,322) 2014-05-09	

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[21] **3,129,259**
[13] A1

[51] **Int.Cl. F24F 13/32 (2006.01) F24F 1/60 (2011.01) F24F 1/0043 (2019.01) F24F 1/027 (2019.01) F24F 1/031 (2019.01)**

[25] EN
[54] **WINDOW AIR-CONDITIONER**
[54] **CONDITIONNEUR D'AIR DE FENETRE**

[72] LEI, ZHISHENG, CN
[72] LIU, YU, CN
[72] TANG, YUHANG, CN
[72] XING, ZHIGANG, CN
[72] YU, HUI, CN
[72] ZHANG, KANGWEN, CN
[71] GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD., CN

[71] MIDEA GROUP CO., LTD., CN
[22] 2019-03-28
[41] 2020-08-03
[62] 3,057,107
[30] CN (201920188029.5) 2019-02-03
[30] CN (201910108802.7) 2019-02-03
[30] CN (201920188025.7) 2019-02-03
[30] CN (201910108813.5) 2019-02-03
[30] CN (201910108804.6) 2019-02-03
[30] CN (201920188059.6) 2019-02-03

[21] **3,129,267**
[13] A1

[51] **Int.Cl. F24F 13/32 (2006.01) F24F 1/60 (2011.01) F24F 1/0043 (2019.01) F24F 1/027 (2019.01) F24F 1/031 (2019.01)**

[25] EN
[54] **WINDOW AIR CONDITIONER**
[54] **CONDITIONNEUR D'AIR DE FENETRE**

[72] LEI, ZHISHENG, CN
[72] LIU, YU, CN
[72] TANG, YUHANG, CN
[72] XING, ZHIGANG, CN
[72] YU, HUI, CN
[72] ZHANG, KANGWEN, CN
[71] GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD., CN

[71] MIDEA GROUP CO., LTD., CN
[22] 2019-03-28
[41] 2020-08-03
[62] 3,057,107
[30] CN (201920188029.5) 2019-02-03
[30] CN (201910108802.7) 2019-02-03
[30] CN (201920188025.7) 2019-02-03
[30] CN (201910108813.5) 2019-02-03
[30] CN (201910108804.6) 2019-02-03
[30] CN (201920188059.6) 2019-02-03

[21] **3,129,277**
[13] A1

[51] **Int.Cl. C07K 16/38 (2006.01)**

[25] EN
[54] **ANTIBODY AND PROTEIN FORMULATIONS**
[54] **ANTICORPS ET FORMULATIONS PROTEIQUES**

[72] MA, XINGHANG, US
[72] XIANG, JUN, US
[71] BAYER HEALTHCARE LLC, US

[22] 2013-08-28
[41] 2014-03-06
[62] 2,883,095
[30] US (13/601,598) 2012-08-31
[30] US (13/843,780) 2013-03-15

[21] **3,129,283**
[13] A1

[51] **Int.Cl. A63H 13/00 (2006.01) A63H 3/00 (2006.01) A63H 33/00 (2006.01)**

[25] EN
[54] **ASSEMBLY WITH OBJECT IN HOUSING**
[54] **ENSEMBLE AVEC OBJET DANS LE BOITIER**

[72] HASHEMI, HAMID R., CA
[72] CHARBONNEAU, ANNE N., CA
[72] LAI, VICTOR, CA
[72] PRUZANSKY, AMY ANNE, CA
[72] MCDONALD, DAVID LEWIS, CA
[71] SPIN MASTER LTD., CA

[22] 2017-02-27
[41] 2017-12-30
[62] 3,112,760
[30] US (15/199,341) 2016-06-30
[30] US (15/227,740) 2016-08-03
[30] EP (16193072) 2016-10-10

[21] **3,129,289**
[13] A1

[25] EN
[54] **FIBER-OPTIC NODE WITH FORWARD DATA CONTENT DRIVEN POWER CONSUMPTION**
[54] **NOEUD A FIBRE OPTIQUE A CONSOMMATION D'ENERGIE COMMANDEE PAR LE CONTENU DE DONNEES DESCENDANTES**

[72] MARICEVIC, ZORAN, US
[72] SCHEMMANN, MARCEL F., NL
[71] ARRIS ENTERPRISES, INC., US

[22] 2014-08-19
[41] 2015-02-26
[62] 2,921,299
[30] US (61/867,550) 2013-08-19
[30] US (14/463,011) 2014-08-19

[21] **3,129,294**
[13] A1

[51] **Int.Cl. C12N 15/54 (2006.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/10 (2018.01) C12N 9/00 (2006.01) C12N 9/10 (2006.01) C12N 15/52 (2006.01) C12N 15/82 (2006.01)**

[25] EN
[54] **THE ISOLATION AND USE OF FAD2 AND FAE1 FROM CAMELINA**
[54] **ISOLEMENT ET UTILISATION DE GENES FAD2 ET FAE1 DE CAMELINE**

[72] DITT, RENATA F., US
[72] HUTCHEON, CAROLYN, US
[72] SHEWMAKER, CHRISTINE K., US
[71] SUSTAINABLE OILS, INC., US

[22] 2011-03-25
[41] 2011-09-29
[62] 2,831,271
[30] US (61/318,273) 2010-03-26
[30] US (61/346,410) 2010-05-19

[21] **3,129,296**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN
[54] **ITEM STATUS TRACKING**
[54] **SUIVI D'ETAT D'ARTICLE**

[72] GULLO, JOHN, US
[72] HUGO, JASON, US
[72] FELIX, SHEA, US
[72] BRIGANTI, MARK J., US
[71] UNITED STATES POSTAL SERVICE, US

[22] 2013-03-29
[41] 2013-12-27
[62] 2,868,012
[30] US (61/618,568) 2012-03-30
[30] US (13/826,644) 2013-03-14

[21] **3,129,307**
[13] A1

[51] **Int.Cl. A47K 3/00 (2006.01) A47K 1/14 (2006.01) A47K 3/12 (2006.01) A47K 17/00 (2006.01) E03C 1/22 (2006.01) A61G 7/10 (2006.01)**

[25] EN
[54] **BATHROOM SAFETY DEVICES**
[54]

[72] KING, RUDOLF, DE
[71] KING, RUDOLF, DE

[22] 2015-08-20
[41] 2016-03-10
[62] 2,952,765
[30] DE (20 2014 007 174.8) 2014-09-02

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[21] **3,129,309**
[13] A1

[25] EN
[54] **METHODS OF IMPROVING
RESPIRATORY HEALTH**
[54] **METHODES D'AMELIORATION
DE LA SANTE RESPIRATOIRE**
[72] ALTMAN, JAY A., US
[71] ALTERA INTERNATIONAL, LTD.,
US
[22] 2014-06-13
[41] 2014-12-18
[62] 2,913,776
[30] US (61/834,656) 2013-06-13

[21] **3,129,310**
[13] A1

[51] **Int.Cl. B32B 37/06 (2006.01) A44B
18/00 (2006.01) B32B 3/06 (2006.01)
B32B 37/12 (2006.01) E04B 1/62
(2006.01) E04C 2/34 (2006.01)**
[25] EN
[54] **ATTACHING HOOK FILM TO
INSULATION BOARD**
[54] **FIXATION D'UN FILM A
CROCHETS SUR UNE PLAQUE
D'ISOLATION**
[72] GARDNER, ROBERT, US
[72] BAKER, MATTHEW, US
[72] SEILER, STEVEN, US
[71] CARLISLE CONSTRUCTION
MATERIALS, LLC, US
[22] 2019-01-29
[41] 2019-08-08
[62] 3,088,535
[30] US (62/626,477) 2018-02-05
[30] US (62/736,245) 2018-09-25

[21] **3,129,371**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q
20/08 (2012.01)**
[25] EN
[54] **E-USED DIGITAL ASSETS AND
POST-ACQUISITION REVENUE**
[54] **ACTIFS NUMERIQUES
NUMERIQUEMENT USAGES ET
REVENUS POST-ACQUISITION**
[72] BEN-YAACOV, YAACOV, US
[72] BEN-YAACOV, BOAZ, US
[72] LIEBERMAN, ABRAHAM, IL
[71] CATCH MEDIA, INC., US
[22] 2012-02-23
[41] 2012-08-30
[62] 2,828,493
[30] US (61/446,015) 2011-02-23

[21] **3,129,437**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M
5/145 (2006.01) A61M 5/168 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD, AND
APPARATUS FOR INFUSING
FLUID**
[54]
[72] KAMEN, DEAN, US
[72] KERWIN, JOHN M., US
[72] GRAY, LARRY B., US
[72] LANGENFELD, CHRISTOPHER C.,
US
[72] SLATE, MICHAEL J., US
[72] PLACE, MICHAEL S., US
[72] LANIER, GREGORY R., JR., US
[72] PERET, BOB D., US
[72] KANE, DEREK G., US
[72] DURAND, KEVIN A., US
[72] SMITH, STANLEY B., III, US
[72] MURPHY, COLIN H., US
[72] SCARPACI, JACOB W., US
[72] LANIGAN, RICHARD J., US
[72] BLUMBERG, DAVID., JR., US
[72] TRACEY, BRIAN D., US
[72] DEMERS, JASON A., US
[72] BEAVIS, RUSSELL H., US
[72] CANNAN, DAVID D. B., US
[72] PERRY, N. CHRISTOPHER, US
[72] MANDRO, MARC A., US
[72] YOO, BRIAN H., US
[71] DEKA PRODUCTS LIMITED
PARTNERSHIP, US
[22] 2012-12-21
[41] 2013-06-27
[62] 2,860,224
[30] US (61/578,674) 2011-12-21
[30] US (PCT/US11/66588) 2011-12-21
[30] US (13/333,574) 2011-12-21
[30] US (61/578,658) 2011-12-21
[30] US (61/578,649) 2011-12-21
[30] US (61/651,322) 2012-05-24
[30] US (61/679,117) 2012-08-03

[21] **3,129,526**
[13] A1

[51] **Int.Cl. E21B 34/10 (2006.01) E21B
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[25] EN
[54] **BIDIRECTIONAL DOWNHOLE
ISOLATION VALVE**
[54]
[72] MCDOWELL, CHRISTOPHER L., US
[72] NOSKE, JOE, US
[72] KING, KYLE ALLEN, US
[72] HARRALL, SIMON J., US
[71] WEATHERFORD TECHNOLOGY
HOLDINGS, LLC, US
[22] 2014-06-26
[41] 2014-12-31
[62] 2,990,911
[30] US (61/839,447) 2013-06-26

[21] **3,129,536**
[13] A1

[51] **Int.Cl. G01R 33/422 (2006.01) A61B
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G01R 33/36 (2006.01) G01R 33/383
(2006.01) G01R 33/385 (2006.01)
G01R 33/3873 (2006.01)**
[25] EN
[54] **PORTABLE LOW-FIELD
MAGNETIC RESONANCE
IMAGING METHODS AND
APPARATUS**
[54] **PROCEDES ET APPAREIL
D'IMAGERIE PAR RESONANCE
MAGNETIQUE A CHAMP FAIBLE
PORTABLE**
[72] POOLE, MICHAEL STEPHEN, US
[72] HUGON, CEDRIC, US
[72] DYVORNE, HADRIEN A., US
[72] JORDAN, JEREMY CHRISTOPHER,
US
[72] KATZE, ALAN B., JR., US
[72] MCNULTY, CHRISTOPHER
THOMAS, US
[72] MILESKI, WILLIAM J., US
[72] REARICK, TODD, US
[72] ROTHBERG, JONATHAN M., US
[72] SACOLICK, LAURA, US
[71] HYPERFINE, INC., US
[22] 2017-11-22
[41] 2018-05-31
[62] 3,043,971
[30] US (62/425,465) 2016-11-22
[30] US (15/640,369) 2017-06-30

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[21] 3,129,540 [13] A1	[21] 3,129,543 [13] A1	[21] 3,129,547 [13] A1
[51] Int.Cl. G01R 33/28 (2006.01) G01R 33/36 (2006.01) G01R 33/383 (2006.01) G01R 33/385 (2006.01) G01R 33/3873 (2006.01) G01R 33/42 (2006.01)	[51] Int.Cl. G01R 33/383 (2006.01) A61B 5/055 (2006.01) G01R 33/28 (2006.01) G01R 33/36 (2006.01) G01R 33/385 (2006.01) G01R 33/3873 (2006.01)	[51] Int.Cl. G01R 33/38 (2006.01) G01R 33/28 (2006.01) G01R 33/36 (2006.01) G01R 33/381 (2006.01) G01R 33/383 (2006.01) G01R 33/3873 (2006.01)
[25] EN	[25] EN	[25] EN
[54] PORTABLE LOW-FIELD MAGNETIC RESONANCE IMAGING METHODS AND APPARATUS	[54] PORTABLE LOW-FIELD MAGNETIC RESONANCE IMAGING METHODS AND APPARATUS	[54] PORTABLE LOW-FIELD MAGNETIC RESONANCE IMAGING METHODS AND APPARATUS
[54] PROCEDES ET APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE A CHAMP FAIBLE PORTABLE	[54] PROCEDES ET APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE A CHAMP FAIBLE PORTABLE	[54] PROCEDES ET APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE A CHAMP FAIBLE PORTABLE
[72] DYVORNE, HADRIEN A., US	[72] DYVORNE, HADRIEN A., US	[72] DYVORNE, HADRIEN A., US
[72] HUGON, CEDRIC, US	[72] HUGON, CEDRIC, US	[72] HUGON, CEDRIC, US
[72] JORDAN, JEREMY CHRISTOPHER, US	[72] JORDAN, JEREMY CHRISTOPHER, US	[72] JORDAN, JEREMY CHRISTOPHER, US
[72] KATZE, ALAN B., JR., US	[72] KATZE, ALAN B., JR., US	[72] KATZE, ALAN B., JR., US
[72] MCNULTY, CHRISTOPHER THOMAS, US	[72] MCNULTY, CHRISTOPHER THOMAS, US	[72] MCNULTY, CHRISTOPHER THOMAS, US
[72] MILESKI, WILLIAM J., US	[72] MILESKI, WILLIAM J., US	[72] MILESKI, WILLIAM J., US
[72] POOLE, MICHAEL STEPHEN, US	[72] POOLE, MICHAEL STEPHEN, US	[72] POOLE, MICHAEL STEPHEN, US
[72] REARICK, TODD, US	[72] REARICK, TODD, US	[72] REARICK, TODD, US
[72] ROTHBERG, JONATHAN M., US	[72] ROTHBERG, JONATHAN M., US	[72] ROTHBERG, JONATHAN M., US
[72] SACOLICK, LAURA, US	[72] SACOLICK, LAURA, US	[72] SACOLICK, LAURA, US
[71] HYPERFINE, INC., US	[71] HYPERFINE, INC., US	[71] HYPERFINE, INC., US
[22] 2017-11-22	[22] 2017-11-22	[22] 2017-11-22
[41] 2018-05-31	[41] 2018-05-31	[41] 2018-05-31
[62] 3,043,971	[62] 3,043,971	[62] 3,043,971
[30] US (62/425,465) 2016-11-22	[30] US (62/425,465) 2016-11-22	[30] US (62/425,465) 2016-11-22
[30] US (15/640,369) 2017-06-30	[30] US (15/640,369) 2017-06-30	[30] US (15/640,369) 2017-06-30

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,129,551**
[13] A1

[51] **Int.Cl. G01R 33/48 (2006.01) A61B 5/055 (2006.01) G01R 33/28 (2006.01) G01R 33/36 (2006.01) G01R 33/38 (2006.01) G01R 33/383 (2006.01) G01R 33/385 (2006.01) G01R 33/3873 (2006.01) A61B 50/13 (2016.01)**

[25] EN
[54] **PORTABLE LOW-FIELD MAGNETIC RESONANCE IMAGING METHODS AND APPARATUS**

[54] **PROCEDES ET APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE A CHAMP FAIBLE PORTABLE**

[72] POOLE, MICHAEL STEPHEN, US
[72] HUGON, CEDRIC, US
[72] DYVORNE, HADRIEN A., US
[72] REARICK, TODD, US
[72] SACOLICK, LAURA, US
[72] JORDAN, JEREMY CHRISTOPHER, US
[72] MCNULTY, CHRISTOPHER THOMAS, US
[72] ROTHBERG, JONATHAN M., US
[72] KATZE, ALAN B., JR., US
[72] MILESKI, WILLIAM J., US
[71] HYPERFINE, INC., US
[22] 2017-11-22
[41] 2018-05-31
[62] 3,043,971
[30] US (62/425,465) 2016-11-22
[30] US (15/640,369) 2017-06-30

[21] **3,129,556**
[13] A1

[51] **Int.Cl. A01G 22/30 (2018.01) A01G 24/28 (2018.01)**

[25] FR
[54] **METHOD AND DEVICES FOR REMOVING THE ACROTELM OF PEATLANDS**

[54] **METHODES ET APPAREILS POUR LE PRELEVEMENT DE L'ACROTELME DE TOURBIERES**

[72] BELANGER, BERNARD, CA
[72] GAGNON, GUY, CA
[72] HOULE, ERIC, CA
[72] CARON, FREDERIC, CA
[72] LAVOIE, VALERIE, CA
[72] RICHARD, JEAN-LUC, CA
[72] PELLETIER, FRANCIS, CA
[72] CYR, ALEXANDRE, CA
[72] ROBERT, STEPHANE, CA
[71] PREMIER HORTICULTURE LTEE, CA
[22] 2020-04-08
[41] 2020-10-09
[62] 3,088,102
[30] CA (3039879) 2019-04-09

[21] **3,129,559**
[13] A1

[51] **Int.Cl. A61B 90/90 (2016.01) A61B 90/96 (2016.01) A61B 90/98 (2016.01) G16H 20/17 (2018.01) A61M 5/19 (2006.01) A61M 5/20 (2006.01) A61M 5/32 (2006.01) B65D 25/10 (2006.01)**

[25] EN
[54] **DRUG STORAGE AND DISPENSING SYSTEM FOR PRE-FILLED CONTAINERS**

[54] **SYSTEME DE STOCKAGE ET DE DISTRIBUTION DE MEDICAMENT POUR RECIPIENTS PREREMPLIS**

[72] BLACK, AMANDA, US
[72] WRIGHT, JUSTIN, US
[72] MONOCHOIX, HERVE, FR
[72] MARECHAL, DAMIEN, FR
[72] SCHNEIDER, ERIC, US
[72] LARROW, CHET, US
[71] BECTON DICKINSON FRANCE, FR
[22] 2016-01-15
[41] 2016-07-21
[62] 3,056,099
[30] US (62/104,130) 2015-01-16

[21] **3,129,563**
[13] A1

[51] **Int.Cl. C08J 11/16 (2006.01) C08F 8/50 (2006.01) C10M 109/00 (2006.01)**

[25] EN
[54] **CATALYTIC DEPOLYMERISATION OF POLYMERIC MATERIALS**

[54]

[72] KUMAR, ANIL, IN
[72] KUMAR, PUSHKAR, CA
[71] GREENMANTRA RECYCLING TECHNOLOGIES LTD., CA
[22] 2013-01-17
[41] 2014-07-24
[62] 2,898,257

[21] **3,129,565**
[13] A1

[51] **Int.Cl. B65D 43/16 (2006.01) B65D 53/00 (2006.01)**

[25] EN
[54] **FLEXIBLE PACKAGE AND METHOD OF MAKING THE SAME**

[54] **EMBALLAGE SOUPLE ET SON PROCEDE DE FABRICATION**

[72] SANFILIPPO, JAMES J., US
[72] SANFILIPPO, JOHN E., US
[72] SKAGGS, JEANNE M., US
[72] SORIA, FRANCISCO JAVIER, US
[72] RADENOVIC, MILORAD, US
[72] WYSLOTSKY, BOHDAN, US
[72] GEORGELOS, PAUL, US
[72] MONTEFUSCO, PAT, US
[72] SPEER, ROY, US
[72] FOROWYCZ, ROMAN, US
[71] PRIMAPAK, LLC, US
[22] 2013-10-25
[41] 2014-05-01
[62] 2,888,741
[30] US (61/719,340) 2012-10-26
[30] US (61/739,535) 2012-12-19
[30] US (61/769,168) 2013-02-25
[30] US (61/801,186) 2013-03-15
[30] US (61/860,233) 2013-07-30

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[21] **3,129,570**
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[51] **Int.Cl. E06B 9/38 (2006.01) E06B 9/262 (2006.01)**
[25] EN
[54] **HANDLE AND BRAKE ARRANGEMENT FOR A COVERING FOR ARCHITECTURAL OPENINGS**
[54] **POIGNEE ET DISPOSITIF DE FREINAGE POUR UN REVETEMENT D'OUVERTURES ARCHITECTURALES**
[72] ANDERSON, RICHARD N., US
[72] THOMPSON, EUGENE W., US
[72] FISHER, ROBERT E., II, US
[71] HUNTER DOUGLAS INC., US
[22] 2014-07-15
[41] 2015-01-17
[62] 2,856,890
[30] US (61/847,117) 2013-07-17
[30] US (61/873,035) 2013-09-03

[21] **3,129,669**
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[51] **Int.Cl. F24C 7/08 (2006.01) A47J 37/06 (2006.01) H05B 1/02 (2006.01)**
[25] EN
[54] **DIGITAL POWER SUPPLY WITH WIRELESS MONITORING AND CONTROL**
[54] **ALIMENTATION NUMERIQUE DOTEES DE SURVEILLANCE ET CONTROLE SANS FIL**
[72] KNAPPENBERGER, ERIC, US
[72] ZULETA, JULIO C., US
[72] LERCH, MATTHEW, US
[72] EMMERICH, JEFFREY C., US
[71] WEBER-STEPHEN PRODUCTS LLC, US
[22] 2018-04-09
[41] 2018-11-05
[62] 3,000,542
[30] US (15/493,696) 2017-05-05

[21] **3,129,679**
[13] A1

[51] **Int.Cl. A47L 11/284 (2006.01) A47L 11/03 (2006.01) A47L 11/12 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **AUTONOMOUS SURFACE CLEANING ROBOT**
[54] **ROBOT AUTONOME DE NETTOYAGE DE SURFACE**
[72] DOOLEY, MICHAEL J., US
[72] ROMANOV, NIKOLAI, US
[72] CASE, JAMES PHILLIP, US
[71] IROBOT CORPORATION, US
[22] 2014-10-24
[41] 2015-05-21
[62] 2,952,082
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[21] **3,129,704**
[13] A1

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[25] EN
[54] **AN ENEMA DEVICE AND A METHOD OF REFILLING SAID DEVICE WITH AN ENEMA**
[54] **DISPOSITIF DE LAVEMENT (ENEMA) ET PROCEDE DE REMPLISSAGE DUDIT DISPOSITIF AVEC UN LAVEMENT**
[72] HAGEN, THIT ROSE, DK
[72] DUQUE, ANA LATORRE, DK
[71] MBH-INTERNATIONAL A/S, DK
[22] 2018-06-28
[41] 2019-01-03
[62] 3,067,867
[30] DK (PA 2017 70531) 2017-06-30

[21] **3,129,707**
[13] A1

[51] **Int.Cl. A61D 7/04 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **INHALER**
[54] **INHALATEUR**
[72] RAHMEL, MARCUS RAINER, DE
[72] ENDERT, GUIDO, DE
[72] WERGEN, HORST, DE
[71] BOEHRINGER INGELHEIM VETMEDICA GMBH, DE
[22] 2014-08-19
[41] 2015-02-26
[62] 2,913,817
[30] EP (13004114.8) 2013-08-20

[21] **3,129,729**
[13] A1

[25] EN
[54] **DOSAGE REGIMEN OF AN S1P RECEPTOR MODULATOR**
[54] **SCHEMA POSOLOGIQUE D'UN MODULATEUR DES RECEPTEURS DE S1P**
[72] BOULTON, CRAIG, GB
[72] BURTIN, PASCALE, CH
[72] DAVID, OLIVIER, CH
[72] DE VERA, ANA, CH
[72] DUMORTIER, THOMAS, CH
[72] HUNT, IRENE, CH
[72] SCHMOUDER, ROBERT, US
[71] NOVARTIS AG, CH
[22] 2010-09-20
[41] 2011-04-07
[62] 2,773,330
[30] US (61/246,706) 2009-09-29
[30] US (61/258,329) 2009-11-05
[30] US (61/307,992) 2010-02-25
[30] US (61/352,029) 2010-06-07

[21] **3,129,734**
[13] A1

[51] **Int.Cl. B23B 41/00 (2006.01) B23B 47/28 (2006.01) B60S 5/00 (2006.01)**
[25] EN
[54] **AXLE BORING MACHINE, MOUNTING ASSEMBLIES AND AXLE REPAIR METHODS**
[54] **PERCEUSE D'ESSIEU, ENSEMBLES D'INSTALLATION ET PROCEDES DE REPARATION DES ESSIEUX**
[72] EBERT, JAMES L., US
[71] EBERT, JAMES L., US
[22] 2015-01-02
[41] 2015-07-13
[62] 2,876,097
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[21] **3,129,741**
[13] A1

[25] EN
[54] **COMPOUNDS AND METHODS OF TREATING INFECTIONS**
[54] **COMPOSES ET METHODES DE TRAITEMENT D'INFECTIONS**
[72] PAGE, STEPHEN, AU
[72] GARG, SANJAY, AU
[72] KEENAN, MARTINE, AU
[72] MCCLUSKEY, ADAM, AU
[72] STEVENS, ANDREW, AU
[71] NEOCULI PTY LTD, AU
[22] 2014-05-01
[41] 2014-11-06
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[30] AU (2013901516) 2013-05-01

[21] **3,129,771**
[13] A1

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/02 (2006.01)**
[25] EN
[54] **STIMULATION DEVICE ADAPTER**
[54] **ADAPTATEUR DE DISPOSITIF DE STIMULATION**
[72] SAKAI, JONATHAN, US
[72] STROTHER, ROBERT B., US
[72] MRVA, JOSEPH J., US
[72] THROPE, GEOFFREY B., US
[71] CHECKPOINT SURGICAL, LLC, US
[22] 2013-09-05
[41] 2014-06-12
[62] 2,924,050

[21] **3,129,784**
[13] A1

[51] **Int.Cl. A61B 34/10 (2016.01) A61B 5/103 (2006.01) A61B 8/08 (2006.01) A61B 8/14 (2006.01) G06T 17/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR THREE DIMENSIONAL RECONSTRUCTION OF A JOINT USING ULTRASOUND**
[54] **PROCEDE ET APPAREIL POUR RECONSTRUCTION TRIDIMENSIONNELLE D'UNE ARTICULATION EN UTILISANT L'ECHOGRAPHIE**
[72] MAHFOUZ, MOHAMED R., US
[71] JOINTVUE, LLC, US
[22] 2011-08-02
[41] 2012-02-09
[62] 2,807,288
[30] US (61/369,848) 2010-08-02
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[21] **3,129,790**
[13] A1

[51] **Int.Cl. A61K 8/9706 (2017.01) A61K 8/73 (2006.01) A61P 19/00 (2006.01)**
[25] EN
[54] **SEAWEED-DERIVED COSMETIC COMPOSITIONS**
[54] **COMPOSITIONS COSMETIQUES DERIVEES DES HERBES MARINES**
[72] ATHWAL, GINA, CA
[71] SKINERGISTICS CLINICAL SKIN SOLUTIONS INC., CA
[22] 2010-04-22
[41] 2011-10-22
[62] 2,701,378

[21] **3,129,795**
[13] A1

[51] **Int.Cl. G01N 29/265 (2006.01)**
[25] EN
[54] **ULTRASOUND MATRIX INSPECTION**
[54] **CONTROLE PAR MATRICE A ULTRASONS**
[72] TEN GROTENHUIS, RAYMOND, CA
[72] HONG, ANDREW, CA
[72] CHEN, ZHENXIANG, CA
[72] MADILL, MATT, CA
[72] SHOKRALLA, SHADDY, CA
[72] WONG, CHENG CHUEN BENEDICT, CA
[72] PRESTON, SCOTT, CA
[72] SAKUTA, ALEXANDER, CA
[71] ONTARIO POWER GENERATION INC., CA
[22] 2012-09-26
[41] 2013-04-04
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[30] US (61/539,208) 2011-09-26
[30] US (61/546,217) 2011-10-12

[21] **3,129,804**
[13] A1

[25] EN
[54] **METHODS AND APPARATUS FOR A DISTRIBUTED DATABASE WITHIN A NETWORK**
[54] **PROCEDES ET APPAREIL POUR UNE BASE DE DONNEES DISTRIBUEE DANS UN RESEAU**
[72] BAIRD, LEEMON C., III, US
[71] SWIRLDS, INC., US
[22] 2016-08-26
[41] 2017-03-09
[62] 3,027,398
[30] US (62/211,411) 2015-08-28
[30] US (14/988,873) 2016-01-06
[30] US (15/153,011) 2016-05-12
[30] US (62/344,682) 2016-06-02
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[21] **3,129,805**
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01) H05B 3/34 (2006.01)**
[25] EN
[54] **CARTRIDGE FOR AN AEROSOL-GENERATING SYSTEM**
[54] **CARTOUCHE POUR UN SYSTEME DE GENERATION D'AEROSOL**
[72] MALGAT, ALEXANDRE, CH
[72] BRIFCANI, NOORI MOYAD, CH
[72] BATISTA, RUI, CH
[72] MIRONOV, OLEG, CH
[71] PHILIP MORRIS PRODUCTS S.A., CH
[22] 2014-12-15
[41] 2015-08-13
[62] 2,936,273
[30] EP (14154554.1) 2014-02-10
[30] EP (14154553.3) 2014-02-10
[30] EP (14154552.5) 2014-02-10

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[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06Q 10/08 (2012.01) G06Q 30/06 (2012.01) G16H 10/60 (2018.01) G07F 17/32 (2006.01)**

[25] EN

[54] **CUSTOMIZED VIEW OF RESTRICTED INFORMATION RECORDED INTO A BLOCKCHAIN**

[54] **VUE PERSONNALISEE D'INFORMATIONS RESTREINTES ENREGISTREES DANS UNE CHAINE DE BLOCS**

[72] SIMONS, JORDAN, US

[71] AMERICORP INVESTMENTS LLC, US

[22] 2019-03-06

[41] 2019-09-12

[62] 3,092,940

[30] US (62/639,393) 2018-03-06

[30] US (62/701,947) 2018-07-23

[21] **3,129,855**
[13] A1

[25] EN

[54] **TRIP TERMINATION DETERMINATION FOR ON-DEMAND TRANSPORT**

[54] **DETERMINATION DE FIN DE VOYAGE POUR TRANSPORT A LA DEMANDE**

[72] BRINIG, KEVIN, US

[72] IOFFE, MAKSIM, US

[72] LAYTON, BRANDON, US

[72] SUMERS, THEODORE, US

[72] KADOUS, MOHAMMED WALEED, US

[71] UBER TECHNOLOGIES INC., US

[22] 2017-06-14

[41] 2017-12-21

[62] 3,027,508

[30] US (15/182,217) 2016-06-14

[21] **3,129,892**
[13] A1

[25] EN

[54] **REDUCING SYSTEMIC REGULATORY T CELL LEVELS OR ACTIVITY FOR TREATMENT OF DISEASE AND INJURY OF THE CNS**

[54] **REDUCTION DES NIVEAUX OU DE L'ACTIVITE SYSTEMIQUES DES LYMPHOCYTES T REGULATEURS EN VUE DU TRAITEMENT DE MALADIES ET DE LESIONS TOUCHANT LE SNC**

[72] EISENBACH-SCHWARTZ, MICHAL, IL

[72] BARUCH, KUTI, IL

[72] ROSENZWEIG, NETA, IL

[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL

[22] 2015-03-12

[41] 2015-09-17

[62] 2,942,245

[30] US (61/951,783) 2014-03-12

[30] US (62/030,164) 2014-07-29

[21] **3,129,895**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/062 (2006.01) A61B 17/17 (2006.01) A61B 17/56 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **SOFT TISSUE REPAIR INSTRUMENTS AND TECHNIQUES**

[54] **INSTRUMENTS ET TECHNIQUES DE REPARATION DE TISSU MOU**

[72] BRANTHOVER, LEWIS PEARCE, US

[72] KORMAN, ZACHARY, US

[71] WRIGHT MEDICAL TECHNOLOGY, INC., US

[22] 2017-06-30

[41] 2019-01-03

[62] 3,057,602

[21] **3,129,920**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/38 (2006.01) A61M 39/12 (2006.01)**

[25] EN

[54] **INFUSION RESERVOIR WITH PUSH-ON CONNECTOR FEATURES AND/OR ATTACHMENTS THEREFOR**

[54]

[72] HWANG, CHARLES, US

[72] SEARLE, GARY, US

[71] BECTON, DICKINSON AND COMPANY, US

[22] 2011-07-27

[41] 2012-01-31

[62] 3,030,073

[30] US (61/369,706) 2010-07-31

[30] US (13/190,400) 2011-07-25

[21] **3,129,936**
[13] A1

[25] EN

[54] **METHOD FOR PREPARING 1-(4-(4-(3,4-DICHLORO-2-FLUOROPHENYLAMINO)-7-METHOXYQUINAZOLIN-6-YLOXY)PIPERIDIN-1-YL)PROP-2-EN-1-ONE**

[54] **PROCEDE DE PREPARATION DE 1-(4-(4-(3,4-DICHLORO-2-FLUOROPHENYLAMINO)-7-METHOXYQUINAZOLIN-6-YLOXY)PIPERIDIN-1-YL)PROP-2-EN-1-ONE**

[72] BANG, KEUK CHAN, KR

[72] JUNG, JAE HYUK, KR

[72] MOON, YOUNG HO, KR

[71] HANMI PHARMACEUTICAL CO., LTD., KR

[22] 2014-01-27

[41] 2014-07-31

[62] 2,898,433

[30] KR (10-2013-0009282) 2013-01-28

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[21] **3,129,940**
[13] A1

[51] **Int.Cl. B82B 3/00 (2006.01) B82Y 15/00 (2011.01) B82Y 40/00 (2011.01)**
[25] EN
[54] **BOOTSTRAPPING AND SYNTHESIS OF MECHANOSYNTHESIS TIPS**
[54] **AMORCAGE ET SYNTHESE DE POINTES DE MECANOSYNTHESE**
[72] FREITAS, JR., ROBERT A., US
[72] MERKLE, RALPH C., US
[71] CBN NANO TECHNOLOGIES INC., CA
[22] 2013-02-28
[41] 2014-08-28
[62] 3,078,356

[21] **3,129,946**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR EMPLOYING THE USE OF NEURAL NETWORKS FOR THE PURPOSE OF REAL-TIME BUSINESS INTELLIGENCE AND AUTOMATION CONTROL**
[54] **SYSTEME ET METHODE D'UTILISATION DE RESEAUX NEURONAUX POUR LES BESOINS DU RENSEIGNEMENT D'ENTREPRISE EN TEMPS REEL ET DE L'AUTOMATISATION**
[72] MCGRATH, CHRISTIE PATRICK, US
[72] MOSS, SIMON BYFORD, US
[72] ELKINS, ELIZABETH WINTERS, US
[72] FOUNTAIN, THOMAS C., US
[72] CURBELO, RAUL HUGO, US
[71] UST GLOBAL (SINGAPORE) PTE. LIMITED, SG
[22] 2010-08-27
[41] 2011-03-03
[62] 2,784,950
[30] US (61/237,922) 2009-08-28

[21] **3,129,996**
[13] A1

[25] EN
[54] **COMPOSITIONS AND METHODS FOR LOWERING TRIGLYCERIDES WITHOUT RAISING LDL-C LEVELS IN A SUBJECT ON CONCOMITANT STATIN THERAPY**
[54] **COMPOSITIONS ET PROCEDES POUR ABAISSER LES TRIGLYCERIDES SANS ELEVER LES TAUX DE LDL-C CHEZ UN SUJET SOUMIS A UNE THERAPIE CONCOMITANTE AUX STATINES**
[72] OSTERLOH, IAN, US
[72] WICKER, PIERRE, US
[72] BRAECKMAN, RENE, US
[72] SONI, PARESH, US
[72] MANKU, MEHAR, US
[71] AMARIN PHARMACEUTICALS IRELAND LIMITED, IE
[22] 2010-06-15
[41] 2010-12-23
[62] 3,026,006
[30] US (61/187132) 2009-06-15

[21] **3,129,998**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01) G06F 16/95 (2019.01)**
[25] EN
[54] **DEVICES, METHODS, AND COMPUTER-READABLE MEDIA FOR REDEMPTION OF MERCHANT OFFERS**
[54] **DISPOSITIFS, PROCEDES ET SUPPORTS LISIBLES PAR ORDINATEUR POUR LE REMBOURSEMENT D'OFFRES DE MARCHANDS**
[72] FAITH, JOHN NEWMAN, US
[72] BATH, JAGJIT SINGH, US
[72] ZILKHA, EITHAN, US
[72] SAVAGE, CAMERON KENT, US
[72] REESE, DAVID JOHN, US
[72] TRIM, JAMES DAMON, US
[71] RETAILMENOT, INC., US
[22] 2013-06-11
[41] 2013-12-19
[62] 2,876,004
[30] US (61/658,404) 2012-06-11
[30] US (61/658,387) 2012-06-11
[30] US (61/658,408) 2012-06-12
[30] US (61/665,740) 2012-06-28
[30] US (61/707,527) 2012-09-28
[30] US (13/840,237) 2013-03-15

[21] **3,130,003**
[13] A1

[25] EN
[54] **2-BENZOYLAMINO BENZAMIDE DERIVATIVES AS BCL-3 INHIBITORS**
[54]
[72] WESTWELL, ANDREW DAVID, GB
[72] BRANCALE, ANDREA, GB
[72] CLARKSON, RICHARD WILLIAM ERNEST, GB
[72] SOUKUPOVA, JITKA, GB
[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, GB
[22] 2014-07-31
[41] 2015-02-05
[62] 2,919,976
[30] GB (1313664.3) 2013-07-31

[21] **3,130,005**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01)**
[25] EN
[54] **MOBILE DEVICE DISINFECTION**
[54] **DESINFECTION DE DISPOSITIF MOBILE**
[72] BAARMAN, DAVID W., US
[71] UV PARTNERS, INC., US
[22] 2019-06-10
[41] 2019-12-19
[62] 3,100,921
[30] US (62/683,933) 2018-06-12

[21] **3,130,059**
[13] A1

[51] **Int.Cl. A61J 1/05 (2006.01) A61B 5/15 (2006.01) A61B 5/153 (2006.01) A61B 5/154 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR BODILY FLUID SAMPLE COLLECTION**
[54]
[72] HOLMES, ELIZABETH, US
[72] CHEN, MICHAEL, US
[72] KO, PEY-JIUN, US
[72] BURD, TAMMY, US
[72] LATH, ADRIT, US
[72] MCHALE, PATRICIA, US
[71] THERANOS IP COMPANY, LLC, US
[22] 2013-09-06
[41] 2014-03-13
[62] 2,881,028
[30] US (61/697,797) 2012-09-06

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[13] A1

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[54] **MACROLIDES AND METHODS OF THEIR PREPARATION AND USE**
[54]
[72] MYERS, ANDREW G., US
[72] SEIPLE, IAN BASS, US
[72] ZHANG, ZIYANG, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[22] 2014-04-04
[41] 2014-10-09
[62] 2,908,575
[30] US (61/808,441) 2013-04-04
[30] US (61/832,639) 2013-06-07
[30] US (61/946,604) 2014-02-28

[21] **3,130,067**
[13] A1

[25] EN
[54] **PRE-TREATMENT OF OIL SANDS FINE TAILINGS BY DEBRIS REMOVAL**
[54]
[72] BUGG, TREVOR, CA
[72] KOMO, KERRY, CA
[72] SRINIVASA, SUNDEEP, CA
[72] ADAMS, BRYAN, CA
[72] PRATHAP, NAVEEN, CA
[72] BARAJAS, HORACIO, CA
[72] NADEMLEJNSKY, PETR, CA
[72] SMITH, MICHEL, CA
[72] BELLAND, NOEL, CA
[71] SUNCOR ENERGY INC., CA
[22] 2019-05-17
[41] 2019-11-17
[62] 3,043,713
[30] CA (3.005.217) 2018-05-17

[21] **3,130,077**
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/151 (2006.01) A61J 1/05 (2006.01)**
[25] EN
[54] **BLOOD SAMPLE MANAGEMENT USING OPEN CELL FOAM**
[54]
[72] IVOSEVIC, MILAN, US
[72] WILKINSON, BRADLEY M., US
[72] NEWBY, MARK C., US
[72] BOKKA SRINIVASA RAO, KISHORE K., US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2015-09-22
[41] 2016-04-21
[62] 3,044,748
[30] US (62/063,536) 2014-10-14
[30] US (62/207,618) 2015-08-20

[21] **3,130,176**
[13] A1

[25] EN
[54] **DEVICES, METHODS, AND KITS FOR MULTIPLEXING A FLUID SAMPLE VIA FLUID SAMPLE REUSE**
[54] **DISPOSITIFS, PROCEDES ET TROUSSES POUR LE MULTIPLEXAGE D'UN ECHANTILLON DE FLUIDE PAR REUTILISATION D'ECHANTILLON DE FLUIDE**
[72] LEDDEN, DAVID, US
[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[22] 2017-06-06
[41] 2017-12-21
[62] 3,027,914
[30] US (62/351,530) 2016-06-17

[21] **3,130,199**
[13] A1

[51] **Int.Cl. E21B 47/01 (2012.01) E21B 47/017 (2012.01) E21B 17/10 (2006.01) E21B 17/16 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DOWNHOLE PROBES**
[54]
[72] LIU, JILI (JERRY), CA
[72] DERKACZ, PATRICK R., CA
[72] LOGAN, AARON W., CA
[72] LOGAN, JUSTIN C., CA
[72] SWITZER, DAVID A., CA
[71] EVOLUTION ENGINEERING INC., CA
[22] 2012-12-07
[41] 2014-06-12
[62] 2,893,467

[21] **3,131,225**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/40 (2006.01)**
[25] EN
[54] **REMOTE STEAM GENERATION AND WATER-HYDROCARBON SEPARATION IN HYDROCARBON RECOVERY OPERATIONS**
[54] **GENERATION DE VAPEUR A DISTANCE ET SEPARATION EAU-HYDROCARBURES DANS LESOPERATIONS DE RECUPERATION D'HYDROCARBURES**
[72] DONALD, ANDREW, CA
[72] PUGSLEY, TODD STEWART, CA
[72] BUNIO, GARY L., CA
[72] GATES, IAN DONALD, CA
[71] SUNCOR ENERGY INC., CA
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1075685 B.C. LTD.	2,993,863	BELL HELICOPTER TEXTRON INC.	2,963,402	CONOCOPHILLIPS COMPANY	2,920,561
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YAMAUCHI, KAZUYA	3,096,936
YANG, SANMIN	2,904,598
YARA INTERNATIONAL ASA	3,061,083
YEN, ROSE	2,867,760
YETISIR, METIN	2,876,521
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ZHANG, YI	2,904,598
ZHANG, YI	2,994,977
ZHANG, YI	3,024,718
ZHANG, YI	3,037,389
ZHAOXING, YU	3,085,001
ZHOU, HANG	3,082,668
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INNOVATIONS INC.	3,076,403	COOPER, NATHANAEL	3,105,298	GREBENISAN, DAN	3,077,006
AGGARWAL, RAKESH	3,076,640	CORMIER, ERIC JOSEPH	3,113,020	GROSS, ANDREW	3,076,644
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APOTEX INC.	3,112,122	DOYON, FRANCOIS	3,111,919	HERAEUS MEDICAL GMBH	3,107,860
ARCADIA POWER INC.	3,112,756	DUFFY, WILLIAM		HERAEUS MEDICAL GMBH	3,107,869
ARGYROS, AARON	3,112,754	CHRISTOPHER	3,076,978	HERSH, NANCY	3,112,756
ARRIS ENTERPRISES LLC	3,113,020	DUNJIC, MILOS	3,076,736	HICKS, HEATH	3,110,675
ASTERBADI, DALIA	3,076,693	DURASYSTEMS BARRIERS		HOME DEPOT	
ATKINS NUCLEAR SECURED		INC.	3,076,978	INTERNATIONAL, INC.	3,111,421
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CORPORATION	3,076,722	AKTIENGESELLSCHAFT	3,109,019	HORN, MICHAEL	3,112,140
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BOXALL, BENJAMIN	3,077,051	FRIESEN, JOSEPH JAKE	3,111,533	KANG, YONGFENG	3,103,967
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LUCAS, SIMON	3,112,551	ORTHOSOFT ULC	3,114,962	SALAZAR, COSME	3,097,827
MA, XUSHENG	3,119,389	ORTHOSOFT ULC	3,114,965	SAMAAN, NADER	3,105,623
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CORPORATION	3,131,496	ORTIZ GARCIA, SERGIO	3,130,858	PEPTIDREAM INC.	3,130,694
NIPPON STEEL		OSAGAWA, KENTA	3,131,078	PERIS, HUGO	3,131,378
CORPORATION	3,131,500	OSAKA UNIVERSITY	3,131,366	PERRIMAN, ADAM WILLIS	3,131,161
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CORPORATION	3,131,540	OSTINO, LEANDRE	3,130,842	PETROLIAM NASIONAL	
NISSHINBO HOLDINGS INC.	3,130,734	OTSUKA PHARMACEUTICAL		BERHAD	3,131,092
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J.	3,130,947	PACK, JERRY	3,130,632	PHILLIPS, CHRISTOPHER	3,131,156
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KATZE, ALAN B., JR.	3,129,540	MILESKE, WILLIAM J.	3,129,536	SACOLICK, LAURA	3,129,543
KATZE, ALAN B., JR.	3,129,543	MILESKE, WILLIAM J.	3,129,540	SACOLICK, LAURA	3,129,547
KATZE, ALAN B., JR.	3,129,547	MILESKE, WILLIAM J.	3,129,543	SACOLICK, LAURA	3,129,551
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