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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.

L'Office de la propriété intellectuelle de Canada ne garantit pas l'exactitude de la présente publication et ne se rend responsable d'aucune erreur ou omission ou de leurs conséquences.

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Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

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

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

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

Dates

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

Chiffres de code

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

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

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

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

2. Country Code

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

2. Code des pays

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

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

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

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

6. Licensing of Patents

Voluntary Licences

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

Compulsory Licences

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

7. Patents Available for Licence or Sale

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

8. List of Patents Available for Licence or Sale

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

None

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Octroi de licences en vertu des brevets

Licences librement accordées

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

Licences obligatoires

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

7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

9. Applications Open to Public Inspection

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

10. Language of Published Documents

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

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

Notices

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

4. Late payment fee

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

Preliminary Examination

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

6. Preliminary examination fee (Rule 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).

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

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

4. Taxe pour paiement tardif

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

Examen préliminaire

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

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

* 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. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

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

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

14. Correspondence Procedures

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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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

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accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

Copyright

:

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

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

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

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

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

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

Droits d'auteur

Notices

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

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

Industrial Designs

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

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

Integrated Circuit Topographies

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

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

2.3 Electronic medium

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

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

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

Dessins industriels

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

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

Topographies de circuits intégrés

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

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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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

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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 March 7, 2023 contains applications open to public inspection from February 19, 2023 to February 25, 2023.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 7 mars 2023 contient les demandes disponibles au public pour consultation pour la période du 19 février 2023 au 25 février 2023.

Notices

16. Dedication to the Public

The Commissioner of Patents
Gatineau, Quebec, Canada

Commissioner.

Re: Canadian Patent **No.** 2913464
Issued: 2018-06-05
Present Owner: GAMING PARTNERS INTERNATIONAL

Title: **CHIP WITH INSERT INCLUDING AN ELECTRONIC MICROCHIP**

Subject to the terms of this document, GAMING PARTNERS INTERNATIONAL, as the owner of Canadian Patent No. 2,913,464, entitled "CHIP WITH INSERT INCLUDING AN ELECTRONIC MICROCHIP" (inventor Chapet, Pierre; Charlier, Gerard) hereby irrevocably dedicates to the public all rights that it may hold in and to Canadian Patent No. 2,913,464 for the entirety of the term of the Patent.

The present dedication of the Canadian Patent No. 2,913,464 is made without any prejudice to the rights of GAMING PARTNERS INTERNATIONAL in and to any other patent or pending patent applications.

The present dedication shall apply to all subsequent owners of Canadian Patent No. 2,913,464 and to all persons who now or in the future may hold any rights under Canadian Patent No. 2,913,464.

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

SIGNED at Las Vegas, Nevada, United States of America
this 9th day of September 2022

[signature]

Name: Naoya Takine
Title: President

16. Cession au Domaine Public

Le Commissaire des brevets
Gatineau (Québec) Canada

Commissaire.

Objet : Brevet canadien **no:** 2913464
Delivré : 2018-06-05
Titulaire actuel : GAMING PARTNERS INTERNATIONAL

Titre : **PUCE DOTEE D'UNE INSERTION RENFERMANT UNE MICROPUCE ELECTRONIQUE**

Par la présente et sous réserve des dispositions du présent document, GAMING PARTNERS INTERNATIONAL, à titre de propriétaire du brevet canadien no 2,913,464, intitulé «PUCE DOTEE D'UNE INSERTION RENFERMANT UNE MICROPUCE ELECTRONIQUE» (inventeur Chapet, Pierre; Charlier, Gerard) cède au domaine public, de façon irrévocable, tous les droits qu'il pourrait détenir sur le brevet canadien no 2,913,464 pour toute la durée du brevet.

La présente cession du brevet canadien no 2,913,464 se fait sans préjudice des droits GAMING PARTNERS INTERNATIONAL sur l'ensemble des brevets et des demandes de brevet en instance.

La présente cession s'applique à tous les titulaires subséquents du brevet canadien no 2,913,464 et à toutes les personnes qui détiennent à l'heure actuelle, ou qui pourraient détenir dans l'avenir, des droits sur le brevet canadien no 2,913,464.

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

SIGNÉ à Las Vegas, Nevada, aux États-Unis d'Amérique ce 9^e
jour du mois de septembre 2022

[signature]

Nom : Naoya Takine
Titre : Présidente

Canadian Patents Issued

March 7, 2023

Brevets canadiens délivrés

7 mars 2023

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[51] **Int.Cl. C12N 15/63 (2006.01) A61K
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[25] EN
[54] **RECOMBINANT DNA
MOLECULES AND THEIR
METHOD OF PRODUCTION**
[54] **MOLECULES D'ADN
RECOMBINANT ET PROCEDE
POUR LEUR PRODUCTION**
[72] MURRAY, KENNETH, DE
[72] SCHALLER, HEINZ ERNST, DE
[73] BIOGEN MA INC., US
[86] (342497)
[87] (342497)
[21] **342,497**
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[11] **2,601,022**
[13] C
[51] **Int.Cl. A61K 39/145 (2006.01)**
[25] EN
[54] **USE OF AN INFLUENZA VIRUS
AN OIL-IN-WATER EMULSION
ADJUVANT TO INDUCE CD4 T-
CELL AND/OR IMPROVED B-
MEMORY CELL RESPONSE**
[54] **UTILISATION D'UN VIRUS DE LA
GRIPPE ET D'UN ADJUVANT DE
TYPE EMULSION HUILE DANS
L'EAU POUR INDIURE UNE
CELLULE T CD-4 ET/OU
AMELIORER LA REPOSE DE LA
CELLULE A MEMOIRE B**
[72] HANON, EMMANUEL JULES, BE
[72] STEPHENNE, JEAN, BE
[73] GLAXOSMITHKLINE
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[86] 2006-03-21 (PCT/EP2006/002836)
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[11] **2,616,277**
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[51] **Int.Cl. C07K 16/30 (2006.01) C12Q
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G01N 33/574 (2006.01) G01N 33/577
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[25] EN
[54] **URINE MARKERS FOR
DETECTION OF BLADDER
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PERMETTANT DE DETECTER UN
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[72] GUILFORD, PARRY JOHN, NZ
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[72] POLLOCK, ROBERT, NZ
[73] PACIFIC EDGE LIMITED, NZ
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[87] (WO2006/012522)
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[51] **Int.Cl. F21V 29/15 (2015.01) E04B
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[25] EN
[54] **RECESSED LIGHTING
ENCLOSURE AND INSULATION
BARRIER**
[54] **APPAREIL D'ECLAIRAGE
ENCASTRE ET BARRIERE
ISOLANTE**
[72] HANACEK, DAVID STEVEN, US
[73] HANACEK, DAVID STEVEN, US
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[51] **Int.Cl. C12N 15/90 (2006.01) C12N 9/22 (2006.01)**
[25] EN
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[54] **CNS DELIVERY OF THERAPEUTIC AGENTS**
[54] **ADMINISTRATION AU SNC D'AGENTS THERAPEUTIQUES**
[72] CALIAS, PERICLES, US
[72] PAN, JING, US
[72] POWELL, JAN, US
[72] CHARNAS, LAWRENCE, US
[72] MCCAULEY, THOMAS, US
[72] WRIGHT, TERESA LEAH, US
[72] PFEIFER, RICHARD, US
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[25] EN
[54] **BIOMARKERS FOR DIAGNOSIS OF STROKE AND ITS CAUSES**
[54] **BIOMARQUEURS UTILISES POUR DIAGNOSTIQUER UN ACCIDENT VASCULAIRE CEREBRAL ET SES CAUSES**
[72] SHARP, FRANK, US
[72] STAMOVA, BORYANA, US
[72] JICKLING, GLEN C., US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
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[11] **2,804,828**
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[54] **LIVE BROADCASTING OF DYNAMICALLY GENERATED CONTENT**
[54] **DIFFUSION EN DIRECT D'UN CONTENU GENERE DYNAMIQUEMENT**
[72] MASSICOTTE, LOUIS, CA
[72] MONTPLAISIR, JEAN-FRANCOIS, CA
[73] LES CONSULTANTS NET CREATION INC., CA
[86] (2804828)
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[54] **SYSTEMS AND METHODS FOR CONTROLLING THE COLLECTION OF VEHICLE USE DATA USING A MOBILE DEVICE**
[54] **SYSTEMES ET PROCEDES POUR CONTROLER LA COLLECTE DE DONNEES SUR L'UTILISATION D'UN VEHICULE AU MOYEN D'UN APPAREIL MOBILE**
[72] BOWNE, BENJAMIN, US
[72] BAKER, NICHOLAS R., US
[72] CHRISTOPULOS, NICK U., US
[72] WILKERSON, BRYAN T., US
[73] STATE FARM INSURANCE, US
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[25] EN
[54] **COMBINED USE OF FC GAMMA RIIB (CD32B) AND CD20 SPECIFIC ANTIBODIES**
[54] **UTILISATION COMBINEE DE FC GAMMA RIIB (CD32B) ET D'ANTICORPS SPECIFIQUES CD20**
[72] CRAGG, MARK, GB
[72] GLENNIE, MARTIN, GB
[72] ROGHANIAN, ALI, GB
[72] BEERS, STEPHEN, GB
[72] JOHNSON, PETER, GB
[72] LIM, SEAN, GB
[72] FRENDEUS, BJOERN, SE
[72] TEIGE, INGRID, SE
[73] UNIVERSITY OF SOUTHAMPTON, GB
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7 mars 2023**

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[25] EN

[54] **GENERATION OF NEURAL STEM CELLS FROM HUMAN TROPHOBLAST STEM CELLS**

[54] **GENERATION DE CELLULES SOUCHES NEURALES A PARTIR DE CELLULES SOUCHES TROPHOBLASTIQUES HUMAINES**

[72] LEE, JAU-NAN, TW

[72] LEE, TONY TUNG-YING, US

[72] LEE, YUTA, TW

[72] TSAI, EING-MEI, TW

[73] ACCELERATED BIOSCIENCES CORP., US

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[25] EN

[54] **AMINO ACID SEQUENCES DIRECTED AGAINST IL-17A, IL-17F AND/OR IL17-A/F AND POLYPEPTIDES COMPRISING THE SAME**

[54] **SEQUENCES D'ACIDES AMINES DIRIGEES CONTRE IL-17A, IL-17F ET/OU IL17-A/F ET POLYPEPTIDES COMPRENANT CES SEQUENCES**

[72] ROMMELAERE, HEIDI, BE

[72] KOLKMAN, JOOST ALEXANDER, BE

[72] SAUNDERS, MICHAEL JOHN SCOTT, BE

[72] UNION, ANN, BE

[72] CHVATCHKO, YOLANDE, CH

[72] PROUDFOOT, AMANDA E.I., FR

[72] VICARI, ALAIN, FR

[72] BRUNIQUEL, DENIS, FR

[72] CHEVALET, LAURENT, FR

[72] LEGER, OLIVIER, FR

[73] MERCK PATENT GMBH, DE

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[25] EN

[54] **BILIRUBIN OXIDASE FROM MAGNAPORTHE ORYZAE AND APPLICATIONS THEREOF**

[54] **BILIRUBINE OXYDASE PROVENANT DE MAGNAPORTHE ORYZAE ET SES APPLICATIONS**

[72] MANO, NICOLAS, FR

[72] DURAND, FABIEN, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2013-11-19

[86] 2012-05-22 (PCT/IB2012/052570)

[87] (WO2012/160517)

[30] FR (11 54526) 2011-05-24

[11] **2,836,805**
[13] C

[51] **Int.Cl. A61K 39/02 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **BOVINE VACCINES AND METHODS**

[54] **VACCINS BOVINS ET PROCEDES**

[72] SPRINGER, ERIC, US

[73] ELANCO TIERGESUNDHEIT AG, CH

[85] 2013-11-19

[86] 2012-06-08 (PCT/US2012/041443)

[87] (WO2012/170753)

[30] US (61/495,591) 2011-06-10

[11] **2,836,966**
[13] C

[51] **Int.Cl. A01N 65/08 (2009.01) A01N 25/24 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **METHOD AND COMPOSITION FOR CONTROLLING FUNGAL PHYTOPATHOGENS WITH A PREPARATION OF GALLA CHINENSIS**

[54] **METHODE ET COMPOSITION POUR CONTROLER LES PHYTOPATHOGENES FONGIQUES AU MOYEN D'UNE PREPARATION DE GALLA CHINENSIS**

[72] VOGELGSANG, SUSANNE, DE

[72] FORRER, HANS-RUDOLF, CH

[72] KREBS, HEINZ, CH

[73] AGROSCOPE, INSTITUT FUR NACHHALTIGKEITSWISSENSCHAFTEN, CH

[86] (2836966)

[87] (2836966)

[22] 2013-12-16

[30] EP (12 198 782.0) 2012-12-20

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[11] **2,838,013**
[13] C

[51] **Int.Cl. C07K 14/21 (2006.01) A61K 38/16 (2006.01)**
[25] EN
[54] **PSEUDOMONAS EXOTOXIN A WITH LESS IMMUNOGENIC T CELL AND/OR B CELL EPITOPES**
[54] **EXOTOXINE DE PSEUDOMONAS AYANT MOINS D'EPITOPES IMMUNOGENES DE LYMPHOCYTES T ET/OU DE LYMPHOCYTES B**
[72] PASTAN, IRA H., US
[72] MAZOR, RONIT, US
[72] ONDA, MASANORI, US
[72] VASSALL, AARON, US
[72] BEERS, RICHARD, US
[72] EBERLE, JAIME, US
[72] LIU, WENHAI, US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2013-12-02
[86] 2012-06-07 (PCT/US2012/041234)
[87] (WO2012/170617)
[30] US (61/495,085) 2011-06-09
[30] US (61/535,668) 2011-09-16

[11] **2,838,046**
[13] C

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 38/20 (2006.01) A61K 39/00 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **INDUCTION OF IL-12 USING IMMUNOTHERAPY**
[54] **INDUCTION D'IL-12 PAR IMMUNOTHERAPIE**
[72] HAR-NOY, MICHAEL, IL
[73] IMMUNOVATIVE THERAPIES, LTD., IL
[85] 2013-12-02
[86] 2012-05-02 (PCT/US2012/036123)
[87] (WO2012/151279)
[30] US (61/482,009) 2011-05-03
[30] US (61/528,484) 2011-08-29
[30] US (61/564,551) 2011-11-29
[30] US (61/582,881) 2012-01-04

[11] **2,845,146**
[13] C

[51] **Int.Cl. F23R 3/56 (2006.01)**
[25] EN
[54] **COMBUSTOR FOR GAS TURBINE ENGINE**
[54] **CHAMBRE DE COMBUSTION POUR TURBINE A GAZ**
[72] PROCIW, LEV ALEXANDER, US
[72] ZABETI, PARHAM, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2845146)
[87] (2845146)
[22] 2014-03-06
[30] US (13/795,089) 2013-03-12

[11] **2,852,981**
[13] C

[51] **Int.Cl. G01T 1/161 (2006.01) G01T 1/163 (2006.01) G01T 1/202 (2006.01) G01T 7/00 (2006.01) G01T 7/12 (2006.01)**
[25] EN
[54] **PORTABLE DETECTION APPARATUS AND METHOD**
[54] **APPAREIL DE DETECTION PORTATIF ET PROCEDE**
[72] DAI, XIONGXIN, CA
[72] LI, LIQIAN, CA
[72] JONKMANS, GUY, CA
[72] HO, AARON, CA
[73] ATOMIC ENERGY OF CANADA LIMITED / ENERGIE ATOMIQUE DU CANADA LIMITEE, CA
[85] 2014-04-22
[86] 2012-10-26 (PCT/CA2012/050764)
[87] (WO2013/067637)
[30] US (61/552,199) 2011-10-27

[11] **2,854,125**
[13] C

[51] **Int.Cl. G01N 33/483 (2006.01)**
[25] EN
[54] **ORIENTATION INDEPENDENT METER**
[54] **DISPOSITIF DE MESURE INDEPENDANT DE L'ORIENTATION**
[72] RODGERS, JAMES IAIN, GB
[72] RITCHIE, LAWRENCE, GB
[72] ZVIKHACHEVSKAYA, ANNA, GB
[72] NELSON, JONATHAN, GB
[72] MORALES, CARLOS, US
[73] LIFESCAN IP HOLDINGS, LLC, US
[86] (2854125)
[87] (2854125)
[22] 2014-06-11
[30] US (13/921,610) 2013-06-19

[11] **2,855,252**
[13] C

[51] **Int.Cl. A61K 39/145 (2006.01) A61P 31/16 (2006.01) C12N 7/04 (2006.01)**
[25] EN
[54] **INFLUENZA VIRUS-LIKE PARTICLES (VLPs) COMPRISING HEMAGGLUTININ PRODUCED IN NICOTIANA TABACUM**
[54] **PARTICULES PSEUDO-VIRALES (PPV) DE LA GRIPPE CONTENANT DE L'HEMAGGLUTININE PRODUITE PAR NICOTIANA TABACUM**
[72] CABRERA, ROSA, CH
[72] OISHI, KAREN, CH
[72] PEREZ, LAURENT, CH
[72] TALAMO, FABIO, CH
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2014-05-08
[86] 2012-11-12 (PCT/EP2012/072417)
[87] (WO2013/068593)
[30] EP (11188872.3) 2011-11-11

[11] **2,862,139**
[13] C

[51] **Int.Cl. G02B 1/11 (2015.01) G02B 1/12 (2006.01)**
[25] FR
[54] **ARTICLE COATED WITH AN INTERFERENCE COATING HAVING PROPERTIES THAT ARE STABLE OVER TIME**
[54] **ARTICLE REVETU D'UN REVETEMENT INTERFERENTIEL AYANT DES PROPRIETES STABLES DANS LE TEMPS**
[72] MARTINU, LUDVIK, CA
[72] SAPIEHA, JOLANTA, CA
[72] ZABEIDA, OLEG, CA
[72] CHIAROTTO, SEBASTIEN, FR
[72] SCHERER, KARIN, FR
[73] CORPORATION DE L'ECOLE POLYTECHNIQUE DE MONTREAL, CA
[73] ESSILOR INTERNATIONAL, FR
[85] 2014-06-27
[86] 2012-12-27 (PCT/FR2012/053092)
[87] (WO2013/098531)
[30] FR (1162492) 2011-12-28

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[11] **2,866,628**
[13] C

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[25] EN
[54] **NUCLEOTIDE SEQUENCES ENCODING FASCIATED EAR3 (FEA3) AND METHODS OF USE THEREOF**
[54] **SEQUENCES NUCLEOTIDIQUES CODANT POUR EAR3 EN FAISCEAU (FEA3) ET DES PROCEDES D'UTILISATION DE CELLES-CI**
[72] ALLEN, STEPHEN M., US
[72] JACKSON, DAVID PETER, US
[72] JE, BYOUNG IL, US
[72] KOMATSU, MAI, US
[72] LEE, YOUNG KOUNG, US
[72] SAKAI, HAJIME, US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
[73] COLD SPRING HARBOR LABORATORY, US
[85] 2014-09-05
[86] 2013-03-13 (PCT/US2013/030672)
[87] (WO2013/138408)
[30] US (61/610,645) 2012-03-14
[30] US (61/751,326) 2013-01-11

[11] **2,870,786**
[13] C

- [51] **Int.Cl. G09B 19/00 (2006.01)**
[25] EN
[54] **GOLF FACILITY**
[54] **INSTALLATION DE GOLF**
[72] JOLLIFFE, DAVID VICTOR, GB
[72] JOLLIFFE, STEVEN PAUL, GB
[73] WORLD GOLF SYSTEMS LIMITED, GB
[85] 2014-10-17
[86] 2013-04-18 (PCT/GB2013/050979)
[87] (WO2013/156778)
[30] GB (1206827.6) 2012-04-18

[11] **2,874,353**
[13] C

- [51] **Int.Cl. B29C 65/48 (2006.01) E04F 15/10 (2006.01)**
[25] EN
[54] **BONDING PLASTIC FLOOR PIECES TOGETHER**
[54] **COLLAGE DE MORCEAUX DE PLANCHER EN PLASTIQUE ENSEMBLE**
[72] LEE, JEREMY R., US
[73] OSCODA PLASTICS, INC., US
[86] (2874353)
[87] (2874353)
[22] 2014-12-12
[30] US (61/915,131) 2013-12-12

[11] **2,875,269**
[13] C

- [51] **Int.Cl. B61H 13/20 (2006.01) B61H 13/02 (2006.01)**
[25] FR
[54] **RAIL BRAKING SYSTEM AND BRAKING METHOD FOR A RAIL VEHICLE INCLUDING SUCH A SYSTEM**
[54] **SYSTEME DE FREINAGE FERROVIAIRE ET PROCEDE DE FREINAGE D'UN VEHICULE FERROVIAIRE COMPORTANT UN TEL SYSTEME**
[72] GERBER-PAPIN, DENIS, FR
[72] BEAUVOIS, DAMIEN, FR
[72] GONCALVES, CLAUDINO, FR
[73] FAIVELEY TRANSPORT AMIENS, FR
[86] (2875269)
[87] (2875269)
[22] 2014-12-16

[11] **2,877,780**
[13] C

- [51] **Int.Cl. B65D 55/02 (2006.01) B60R 7/04 (2006.01)**
[25] EN
[54] **SECURITY ASSEMBLY FOR USE WITH A SECURITY CONSOLE**
[54] **MECANISME DE SECURITE POUR CONSOLE DE SECURITE**
[72] PANCEL, PETER MICHAEL, CA
[73] BINS4 SHREDDING INC., CA
[86] (2877780)
[87] (2877780)
[22] 2015-01-14
[30] US (14/173,879) 2014-02-06

[11] **2,879,976**
[13] C

- [51] **Int.Cl. A61K 9/08 (2006.01) A61K 38/26 (2006.01) A61K 38/28 (2006.01)**
[25] EN
[54] **A LIQUID FORMULATION OF LONG-ACTING INSULIN CONJUGATE**
[54] **FORMULATION LIQUIDE A BASE D'UN CONJUGUE D'INSULINE A ACTION PROLONGEE**
[72] LIM, HYUNG KYU, KR
[72] KIM, HYUN UK, KR
[72] HONG, SUNG HEE, KR
[72] KIM, MIN YOUNG, KR
[72] BAE, SUNG MIN, KR
[72] KWON, SE CHANG, KR
[73] HANMI PHARM. CO., LTD., KR
[85] 2015-01-23
[86] 2013-07-25 (PCT/KR2013/006673)
[87] (WO2014/017847)
[30] KR (10-2012-0081477) 2012-07-25

[11] **2,881,784**
[13] C

- [51] **Int.Cl. G21C 3/328 (2006.01) G21C 1/20 (2006.01) G21C 15/06 (2006.01)**
[25] EN
[54] **FUEL CHANNEL ASSEMBLY AND FUEL BUNDLE FOR A NUCLEAR REACTOR**
[54] **ENSEMBLE CANAL DE COMBUSTIBLE ET GRAPPE DE COMBUSTIBLE POUR REACTEUR NUCLEAIRE**
[72] BROMLEY, BLAIR, CA
[72] NAVA-DOMINGUEZ, ARMANDO, CA
[72] PENCER, JEREMY, CA
[73] ATOMIC ENERGY OF CANADA LIMITED/ENERGIE ATOMIQUE DU CANADA LIMITEE, CA
[85] 2015-02-11
[86] 2013-06-13 (PCT/CA2013/050447)
[87] (WO2013/185230)
[30] US (61/659,219) 2012-06-13
[30] US (61/659,229) 2012-06-13
[30] US (61/731,853) 2012-11-30

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[11] **2,883,821**
[13] C

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 39/395 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **IL-18 BINDING MOLECULES**

[54] **MOLECULES DE LIAISON A L'IL-18**

[72] BARDROFF, MICHAEL OTTO, CH

[72] BRANNETTI, BARBARA, CH

[72] CAMPBELL, EMMA MICHELLE, GB

[72] DIEFENBACH-STREIBER, BEATE, DE

[72] EBERTH, ADINA, DE

[72] KUNZ, CHRISTIAN CARSTEN SILVESTER, DE

[72] MARSHALL, SYLWIA, GB

[72] RONDEAU, JEAN-MICHEL RENE, CH

[72] SCHLAEPI, JEAN-MARC ALFRED, CH

[72] VAN HEEKE, GINO ANSELMUS, GB

[73] NOVARTIS AG, CH

[85] 2015-03-04

[86] 2013-09-05 (PCT/IB2013/058317)

[87] (WO2014/037899)

[30] US (61/697,981) 2012-09-07

[11] **2,883,896**
[13] C

[51] **Int.Cl. A61K 9/22 (2006.01) A61K 31/00 (2006.01) A61K 31/55 (2006.01) A61K 47/30 (2006.01) A61P 27/16 (2006.01)**

[25] EN

[54] **TREATING HEARING LOSS**

[54] **TRAITEMENT DE LA PERTE AUDITIVE**

[72] EDGE, ALBERT, US

[72] OKANO, HIDEYUKI, JP

[72] FUJIOKA, MASATO, JP

[72] MIZUTARI, KUNIO, JP

[73] MASSACHUSETTS EYE & EAR INFIRMARY, US

[85] 2015-03-04

[86] 2013-09-06 (PCT/US2013/058446)

[87] (WO2014/039781)

[30] US (61/698,475) 2012-09-07

[11] **2,885,014**
[13] C

[51] **Int.Cl. G01C 19/5776 (2012.01) H03L 7/16 (2006.01)**

[25] EN

[54] **MICROELECTROMECHANICAL RATE SENSOR**

[54] **CAPTEUR DE VITESSE MICROELECTROMECHANIQUE**

[72] MCCALL, HIRAM, US

[73] ROSEMOUNT AEROSPACE, INC., US

[86] (2885014)

[87] (2885014)

[22] 2015-03-12

[30] US (14/256,329) 2014-04-18

[11] **2,886,027**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) A61K 35/545 (2015.01) A61K 35/42 (2015.01) A61P 11/00 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **DIFFERENTIATION OF HUMAN IPS CELLS TO HUMAN ALVEOLAR TYPE II VIA DEFINITIVE ENDODERM**

[54] **DIFFERENTIATION DE CELLULES IPS HUMAINES EN CELLULES ALVEOLAIRES HUMAINES DE TYPE II PAR L'INTERMEDIAIRE D'UN ENDODERME DEFINITIF**

[72] NIKLASON, LAURA E., US

[72] GHAEDI, MAHBOOBE, US

[73] YALE UNIVERSITY, US

[85] 2015-03-23

[86] 2013-09-25 (PCT/US2013/061687)

[87] (WO2014/052458)

[30] US (61/705,427) 2012-09-25

[11] **2,887,355**
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01) C12N 9/50 (2006.01)**

[25] EN

[54] **PROTEOLYTIC INACTIVATION OF SELECT PROTEINS IN BACTERIAL EXTRACTS FOR IMPROVED EXPRESSION**

[54] **INACTIVATION PROTEOLYTIQUE DE PROTEINES SELECTIONNEES DANS DES EXTRAITS BACTERIENS DESTINES A UNE EXPRESSION AMELIOREE**

[72] THANOS, CHRISTOPHER D., US

[72] MURRAY, CHRISTOPHER J., US

[72] YANG, JUNHAO, US

[72] STEPHENSON, HEATHER, US

[73] SUTRO BIOPHARMA, INC., US

[85] 2015-04-02

[86] 2013-10-08 (PCT/US2013/063804)

[87] (WO2014/058830)

[30] US (61/713,245) 2012-10-12

[11] **2,887,827**
[13] C

[51] **Int.Cl. E04D 15/00 (2006.01)**

[25] EN

[54] **ROOFING PULL-TEST FRAME ASSEMBLY**

[54] **DISPOSITIF DE CADRE DE TEST D'ELASTICITE POUR TOITURE**

[72] GERE, KEITH ALLAN, US

[73] DURO-LAST, INC., US

[86] (2887827)

[87] (2887827)

[22] 2015-04-10

[30] US (61/978,396) 2014-04-11

[30] US (14/682,706) 2015-04-09

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[11] **2,887,891**
[13] C

[51] **Int.Cl. C07K 14/33 (2006.01) C12N 1/20 (2006.01) C12N 1/21 (2006.01) C12N 15/31 (2006.01) C12N 15/74 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS RELATING TO A MUTANT CLOSTRIDIUM DIFFICILE TOXIN**

[54] **COMPOSITIONS ET METHODES RELATIVES A UNE TOXINE MUTANTE DE CLOSTRIDIUM DIFFICILE**

[72] JANSEN, KATHRIN UTE, US

[72] ANDERSON, ANNALIESA SYBIL, US

[72] DONALD, ROBERT G. K., US

[72] FLINT, MICHAEL JAMES, US

[72] KALYAN, NARENDER KUMAR, US

[72] LOTVIN, JASON ARNOLD, US

[72] SIDHU, MANINDER K., US

[72] MORAN, JUSTIN KEITH, US

[72] RUPPEN, MARK EDWARD, US

[72] SUN, WEIQIANG, US

[73] PFIZER INC., US

[85] 2015-04-09

[86] 2013-10-07 (PCT/IB2013/059183)

[87] (WO2014/060898)

[30] US (61/716,605) 2012-10-21

[11] **2,888,197**
[13] C

[51] **Int.Cl. C12N 1/19 (2006.01) C07C 27/00 (2006.01) C07C 31/18 (2006.01) C12N 1/00 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/60 (2006.01) C12P 7/04 (2006.01) C12P 7/40 (2006.01)**

[25] EN

[54] **MICROORGANISMS AND METHODS FOR PRODUCTION OF SPECIFIC LENGTH FATTY ALCOHOLS AND RELATED COMPOUNDS**

[54] **MICRO-ORGANISMES ET PROCEDES DE PRODUCTION D'ALCOOLS GRAS DE LONGUEUR SPECIFIQUE ET COMPOSES ASSOCIES**

[72] OSTERHOUT, ROBIN E., US

[72] BURGARD, ANTHONY P., US

[73] GENOMATICA, INC., US

[85] 2015-04-14

[86] 2013-10-14 (PCT/US2013/064827)

[87] (WO2014/062564)

[30] US (61/714,144) 2012-10-15

[11] **2,888,492**
[13] C

[51] **Int.Cl. G07C 5/08 (2006.01) G06Q 40/08 (2012.01)**

[25] EN

[54] **DRIVING EVENT CLASSIFICATION SYSTEM**

[54] **SYSTEME DE CLASSIFICATION D'EVENEMENTS DE CONDUITE**

[72] BASIR, OTMAN A., CA

[72] MINERS, WILLIAM BEN, CA

[72] JAMALI, SEYED HAMIDREZA, CA

[73] APPY RISK TECHNOLOGIES LIMITED, GB

[85] 2015-04-16

[86] 2013-10-16 (PCT/US2013/065257)

[87] (WO2014/062812)

[30] US (61/714,287) 2012-10-16

[11] **2,890,246**
[13] C

[51] **Int.Cl. C23F 1/12 (2006.01) B01J 3/06 (2006.01) C23F 1/08 (2006.01) E21B 10/567 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR VAPOR PRESSURE LEACHING POLYCRYSTALLINE DIAMOND CUTTER ELEMENTS**

[54] **SYSTEMES ET PROCEDES DE LIXIVIATION SOUS PRESSION DE VAPEUR D'ELEMENTS DE DECOUPE EN DIAMANT POLYCRISTALLIN**

[72] ZHAN, GUODONG, US

[72] ROTHROCK, WALTER R., US

[72] DHALL, PARUL WALIA, US

[72] NIXON, MICHAEL S., US

[72] MATTHIAS, TERRY R., GB

[73] NATIONAL OILWELL VARCO, L.P., US

[85] 2015-04-29

[86] 2013-11-06 (PCT/US2013/068690)

[87] (WO2014/074579)

[30] US (61/723,529) 2012-11-07

[11] **2,891,627**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING A DISEASE ASSOCIATED WITH SOLUBLE, OLIGOMERIC SPECIES OF AMYLOID BETA 1-42**

[54] **PROCEDE DE TRAITEMENT D'UNE MALADIE ASSOCIEE A UNE ESPECE OLIGOMERE SOLUBLE D'AMYLOIDE BETA 1-42**

[72] GOURE, WILLIAM F., US

[72] HEFTI, FRANZ F., US

[72] GASPAR, RENEE C., US

[72] SHUGHRUE, PAUL J., US

[72] WANG, FUBAO, US

[72] WANG, WEIRONG, US

[72] ZHANG, NINGYAN, US

[72] ZHAO, WEI-QIN, US

[72] XU, MIN, US

[72] MCCAMPBELL, ALEXANDER, US

[73] ACUMEN PHARMACEUTICALS, INC., US

[73] MERCK SHARP & DOHME CORP., US

[85] 2015-05-13

[86] 2013-12-04 (PCT/US2013/072991)

[87] (WO2014/089149)

[30] US (13/693,362) 2012-12-04

[11] **2,891,911**
[13] C

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 48/00 (2006.01)**

[25] EN

[54] **IMPROVED NUCLEIC ACID LIPID PARTICLE FORMULATIONS**

[54] **FORMULATIONS DE PARTICULES LIPIDIQUES D'ACIDE NUCLEIQUE AMELIOREES**

[72] AKINC, AKIN, US

[72] MAIER, MARTIN, US

[72] KUMAR, VARUN, US

[73] ALNYLAM PHARMACEUTICALS, INC., US

[85] 2015-05-19

[86] 2013-12-04 (PCT/US2013/073181)

[87] (WO2014/089239)

[30] US (61/734,736) 2012-12-07

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[11] **2,892,293**
[13] C

[51] **Int.Cl. E21B 17/10 (2006.01) E21B 33/04 (2006.01)**
[25] EN
[54] **WEAR SLEEVE, AND METHOD OF USE, FOR A TUBING HANGER IN A PRODUCTION WELLHEAD ASSEMBLY**
[54] **MANCHON D'USURE ET METHODE D'UTILISATION DESTINES A UN SUPPORT DE TUBAGE DANS UN APPAREILLAGE DE TETE DE Puits DE PRODUCTION**
[72] COLENUTT, CHRISTOPHER L., CA
[73] COLENUTT CONTRACTING SERVICES LTD., CA
[86] (2892293)
[87] (2892293)
[22] 2015-05-20

[11] **2,893,496**
[13] C

[51] **Int.Cl. G05D 23/19 (2006.01) H02J 3/00 (2006.01) H03K 17/13 (2006.01)**
[25] EN
[54] **BYPASS SWITCH FOR IN-LINE POWER STEAL**
[54] **COMMUTATEUR DE DERIVATION POUR DETOURNEMENT D'ENERGIE EN LIGNE**
[72] TOUSIGNANT, DANIEL, US
[72] PLOUFFE, MARTIN, US
[73] ADEMCO INC., US
[86] (2893496)
[87] (2893496)
[22] 2015-05-28
[30] US (14/309,553) 2014-06-19

[11] **2,894,264**
[13] C

[51] **Int.Cl. A01N 43/653 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING A TRIAZOLE COMPOUND**
[54] **COMPOSITIONS COMPRENANT UN COMPOSE TRIAZOLE**
[72] LOHMANN, JAN KLAAS, DE
[72] HADEN, EGON, DE
[72] STROBEL, DIETER, DE
[72] STRATHMANN, SIEGFRIED, DE
[72] SEMAR, MARTIN, DE
[72] MENGES, FREDERIK, DE
[72] BOUDET, NADEGE, DE
[73] BASF AGRO B.V., NL
[85] 2015-06-08
[86] 2013-12-18 (PCT/EP2013/077081)
[87] (WO2014/095994)
[30] US (61/739814) 2012-12-20
[30] EP (12198698.8) 2012-12-20
[30] EP (13174975.6) 2013-07-03

[11] **2,896,755**
[13] C

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/28 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING SECURE DATA TRANSMISSION BETWEEN NETWORKED COMPUTING SYSTEMS**
[54] **SYSTEMES ET METHODES DE PRODUCTION DE TRANSMISSION DE DONNEES SECURISEE ENTRE SYSTEMES INFORMATIQUES EN RESEAU**
[72] HALDENBY, PERRY, CA
[72] LEE, JOHN JONG SUK, CA
[72] CHAN, PAUL MON-WAH, CA
[72] LIN, JENNY, CA
[72] CUMMINS, MICHAEL D., CA
[72] VAN HEERDEN, LAUREN, US
[72] SIVASHANMUGAM, PRABAHARAN, US
[72] DEL VECCHIO, ORIN, CA
[72] NADARAJAH, GUNALAN, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2896755)
[87] (2896755)
[22] 2015-07-10
[30] US (62/023,770) 2014-07-11

[11] **2,896,928**
[13] C

[51] **Int.Cl. H01L 23/36 (2006.01) H01L 23/373 (2006.01)**
[25] EN
[54] **ELECTRONIC DEVICE ASSEMBLY**
[54] **MECANISME DE DISPOSITIF ELECTRONIQUE**
[72] CHAUHAN, SHAKTI SINGH, US
[72] JOHNSON, JAMES NEIL, US
[72] HODEN, BRIAN PATRICK, US
[72] KIRK, GRAHAM CHARLES, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2896928)
[87] (2896928)
[22] 2015-07-02
[30] US (62/025,231) 2014-07-16
[30] US (14/676,241) 2015-04-01

[11] **2,898,290**
[13] C

[51] **Int.Cl. H04L 12/66 (2006.01) H04L 49/351 (2022.01) H04L 61/2514 (2022.01) H04L 61/2517 (2022.01)**
[25] EN
[54] **ROUTER FOR PERFORMING NAT/PAT TRANSLATIONS**
[54] **ROUTEUR POUR EFFECTUER LES TRADUCTIONS DE TYPE NAT/PAT**
[72] LOVELESS, JACOB, US
[73] CFPH, LLC, US
[85] 2015-07-15
[86] 2014-01-16 (PCT/US2014/011845)
[87] (WO2014/113566)
[30] US (61/753,250) 2013-01-16
[30] US (13/832,409) 2013-03-15

[11] **2,898,472**
[13] C

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) A61K 49/10 (2006.01) A61K 51/10 (2006.01) C07K 16/18 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **CHIMERIC AND HUMANIZED ANTI-HISTONE ANTIBODIES**
[54] **ANTICORPS ANTI-HISTONES CHIMERES ET HUMANISES**
[72] CHANG, CHIEN-HSING, US
[72] GOLDENBERG, DAVID M., US
[72] HANSEN, HANS J., US
[73] IMMUNOMEDICS, INC., US
[85] 2015-07-16
[86] 2014-02-14 (PCT/US2014/016402)
[87] (WO2014/127200)
[30] US (61/765,150) 2013-02-15

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[11] **2,898,609**
[13] C

[51] **Int.Cl. H04W 12/00 (2021.01) H04W 4/38 (2018.01) H04W 4/50 (2018.01) H04W 76/14 (2018.01) H04W 12/033 (2021.01) H04W 12/0431 (2021.01) H04W 12/069 (2021.01)**

[25] EN

[54] **CRYPTOGRAPHIC PROTOCOL FOR PORTABLE DEVICES**

[54] **PROTOCOLE CRYPTOGRAPHIQUE POUR DISPOSITIFS PORTABLES**

[72] VAHLIS, EVGENE, CA

[72] MARTIN, KARL, CA

[73] NYMI INC., CA

[86] (2898609)

[87] (2898609)

[22] 2015-07-28

[30] US (14/461,881) 2014-08-18

[11] **2,898,866**
[13] C

[51] **Int.Cl. C07D 213/75 (2006.01) C07D 401/12 (2006.01) A61K 31/44 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **PYRIDONE AMIDES AS MODULATORS OF SODIUM CHANNELS**

[54] **PYRIDONE AMIDES COMME MODULATEURS DES CANAUX SODIQUES**

[72] HADIDA-RUAH, SARA SABINA, US

[72] ANDERSON, COREY, US

[72] ARUMUGAM, VIJAYALAKSMI, US

[72] ASGIAN, IULIANA LUCI, US

[72] BEAR, BRIAN RICHARD, US

[72] TERMIN, ANDREAS P., US

[72] JOHNSON, JAMES PHILIP, JR., CA

[73] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2015-07-21

[86] 2014-01-29 (PCT/US2014/013652)

[87] (WO2014/120808)

[30] US (61/759,059) 2013-01-31

[11] **2,899,198**
[13] C

[51] **Int.Cl. G06F 21/00 (2013.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR AUTOMATICALLY MANAGING SECRETS IN MULTIPLE DATA SECURITY JURISDICTION ZONES**

[54] **PROCEDE ET SYSTEME PERMETTANT DE GERER AUTOMATIQUEMENT DES SECRETS DANS PLUSIEURS ZONES DE JURIDICTION DE SECURITE DE DONNEES**

[72] CABRERA, LUIS FELIPE, US

[72] LIETZ, M. SHANNON, US

[73] INTUIT INC., US

[85] 2015-07-23

[86] 2014-10-23 (PCT/US2014/062030)

[87] (WO2015/069470)

[30] US (14/073,110) 2013-11-06

[11] **2,899,786**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) C12N 5/0784 (2010.01)**

[25] EN

[54] **INDUCED DENDRITIC CELLS AND USES THEREOF**

[54] **CELLULES DENDRITIQUES INDUITES ET LEURS UTILISATIONS**

[72] STRIPECKE, RENATA, DE

[72] SALGUERO-LOPEZ, GUSTAVO, DE

[72] DAENTHANASANMAK, ANUSARA, DE

[72] GANSER, ARNOLD, DE

[73] MEDIZINISCHE HOCHSCHULE HANNOVER, DE

[85] 2015-07-30

[86] 2014-01-24 (PCT/EP2014/051422)

[87] (WO2014/122035)

[30] EP (PCT/EP2013/052485) 2013-02-07

[11] **2,899,838**
[13] C

[51] **Int.Cl. C12N 1/19 (2006.01) C12N 15/13 (2006.01) C12N 15/81 (2006.01)**

[25] EN

[54] **RECOMBINANT YEAST TRANSFORMANT AND PROCESS FOR PREPARING IMMUNOGLOBULIN FC FRAGMENT EMPLOYING THE SAME**

[54] **TRANSFORME DE LEVURE RECOMBINEE ET PROCEDE DE PREPARATION DE FRAGMENT FC D'IMMUNOGLOBULINE FAISANT APPEL A CELUI-CI**

[72] KIM, JIN-SUN, KR

[72] HUH, YONG HO, KR

[72] OH, EUH LIM, KR

[72] KIM, MIN YOUNG, KR

[72] JUNG, SUNG YOUB, KR

[72] KWON, SE CHANG, KR

[73] HANMI PHARM. CO., LTD., KR

[85] 2015-07-30

[86] 2014-02-03 (PCT/KR2014/000901)

[87] (WO2014/119956)

[30] KR (10-2013-0011471) 2013-01-31

[11] **2,899,955**
[13] C

[51] **Int.Cl. G01N 15/08 (2006.01) G16C 60/00 (2019.01) G01N 33/24 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IMPROVING DIRECT NUMERICAL SIMULATION OF MATERIAL PROPERTIES FROM ROCK SAMPLES AND DETERMINING UNCERTAINTY IN THE MATERIAL PROPERTIES**

[54] **SYSTEMES ET PROCEDES POUR AMELIORER LA SIMULATION NUMERIQUE DIRECTE DE PROPRIETES MATERIELLES A PARTIR D'ECHANTILLONS DE ROCHE ET DETERMINER UNE INCERTITUDE DANS LES PROPRIETES MATERIELLES**

[72] FREDRICH, JOANNE, US

[72] LIU, ELIZABETH, US

[72] LOUIS, LAURENT, US

[72] NI, DIANNE, US

[73] BP CORPORATION NORTH AMERICA INC., US

[85] 2015-07-30

[86] 2014-03-12 (PCT/US2014/024527)

[87] (WO2014/150916)

[30] US (13/836,483) 2013-03-15

[30] US (14/063,742) 2013-10-25

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[11] **2,900,058**
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01)**
[25] EN
[54] **ADJUSTABLE ORTHOTIC FOOT BRACE AND METHOD FOR OBTAINING A FOOT BRACE MEASUREMENT**
[54] **SUPPORT DE PIED ORTHOPEDIQUE AJUSTABLE ET METHODE D'OBTENTION D'UNE MESURE DE SUPPORT DE PIED**
[72] SAVARD, STEPHANE, CA
[73] ORTHESES TURBOMED INC. / TURBOMED ORTHOTICS INC., CA
[86] (2900058)
[87] (2900058)
[22] 2015-08-07

[11] **2,901,369**
[13] C

[51] **Int.Cl. C12N 15/10 (2006.01) C12N 1/06 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR NUCLEIC ACID EXTRACTION**
[54] **COMPOSITIONS ET METHODES D'EXTRACTION D'ACIDES NUCLEIQUES**
[72] GUNDLING, GERARD J., US
[73] ABBOTT MOLECULAR INC., US
[85] 2015-08-13
[86] 2014-03-14 (PCT/US2014/028472)
[87] (WO2014/144174)
[30] US (61/799,768) 2013-03-15

[11] **2,901,501**
[13] C

[51] **Int.Cl. C12N 7/01 (2006.01) C12N 15/113 (2010.01) A61K 35/76 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/145 (2006.01) C07K 14/47 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/47 (2006.01) C12N 15/62 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **VACCINE COMPOSITION**
[54] **COMPOSITION DE VACCIN**
[72] STOJDL, DAVID F., CA
[72] BELL, JOHN CAMERON, CA
[72] LICHTY, BRIAN, CA
[72] POL, JONATHAN, FR
[73] TURNSTONE LIMITED PARTNERSHIP, CA
[85] 2015-08-17
[86] 2014-02-20 (PCT/CA2014/050118)
[87] (WO2014/127478)
[30] US (61/767,776) 2013-02-21

[11] **2,901,931**
[13] C

[51] **Int.Cl. A61K 35/44 (2015.01) C12N 5/0797 (2010.01) A61P 27/02 (2006.01)**
[25] EN
[54] **ABC5(+) STEM CELLS FOR TREATING OCULAR DISEASE**
[54] **CELLULES SOUCHES ABC5(+) UTILISABLES A DES FINS DE TRAITEMENT D'UNE AFFECTION OCULAIRE**
[72] FRANK, MARKUS H., US
[72] FRANK, NATASHA Y., US
[72] KSANDER, BRUCE, US
[72] KOLOVOU, PARASKEVI EVI, US
[73] CHILDREN'S MEDICAL CENTER CORPORATION, US
[73] SCHEPENS EYE RESEARCH INSTITUTE, US
[73] THE UNITED STATES OF AMERICA AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[85] 2015-08-19
[86] 2014-02-19 (PCT/US2014/017076)
[87] (WO2014/130518)
[30] US (61/766,424) 2013-02-19

[11] **2,901,993**
[13] C

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF PYRAZOLOPYRIMIDINE DERIVATIVES FOR THE TREATMENT OF PI3K.DELTA. RELATED DISORDERS**
[54] **UTILISATION DE DERIVES DE PYRAZOLOPYRIMIDINE DANS LE TRAITEMENT DE TROUBLES LIES A LA PI3K.DELTA.**
[72] LI, YUN-LONG, US
[72] YAO, WENQING, US
[72] COMBS, ANDREW P., US
[72] YUE, EDDY W., US
[72] MEI, SONG, US
[72] ZHU, WENYU, US
[72] GLENN, JOSEPH, US
[72] MADUSKUIE, THOMAS P., JR., US
[72] SPARKS, RICHARD B., US
[72] DOUTY, BRENT, US
[72] HE, CHUNHONG, US
[73] INCYTE HOLDINGS CORPORATION, US
[85] 2015-08-20
[86] 2014-02-28 (PCT/US2014/019372)
[87] (WO2014/134426)
[30] US (61/771,480) 2013-03-01

[11] **2,902,093**
[13] C

[51] **Int.Cl. G06F 21/32 (2013.01) H04N 5/30 (2006.01)**
[25] EN
[54] **FACIAL RECOGNITION AUTHENTICATION SYSTEM INCLUDING PATH PARAMETERS**
[54] **PROCEDE D'AUTHENTIFICATION DE RECONNAISSANCE FACIALE COMPRENANT DES PARAMETRES DE CHEMIN**
[72] TUSSY, KEVIN ALAN, US
[73] TUSSY, KEVIN ALAN, US
[86] (2902093)
[87] (2902093)
[22] 2015-08-27
[30] US (62/043224) 2014-08-28
[30] US (62/054847) 2014-09-24
[30] US (62/064415) 2014-10-15
[30] US (62/085963) 2014-12-01
[30] US (62/101317) 2015-01-08
[30] US (62/139558) 2015-03-27
[30] US (62/188584) 2015-07-03

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[11] **2,902,128**
[13] C

[51] **Int.Cl. H04L 12/16 (2006.01) G06Q 50/10 (2012.01) H04W 12/60 (2021.01) G06F 15/00 (2006.01)**

[25] EN

[54] **SYSTEM ARCHITECTURE FOR CLOUD-PLATFORM INFRASTRUCTURE LAYOUTS**

[54] **ARCHITECTURE DE SYSTEME DESTINEE AUX DISPOSITIONS D'INFRASTRUCTURE DE PLATEFORME NUAGIQUE**

[72] TUNG, TERESA SHEAUSAN, US

[72] GOMADAM, KARTHIK, US

[72] XIE, QING, US

[73] ACCENTURE GLOBAL SERVICES LIMITED, IE

[86] (2902128)

[87] (2902128)

[22] 2015-08-31

[30] US (62/046,150) 2014-09-04

[30] US (14/725,013) 2015-05-29

[30] US (14/817,582) 2015-08-04

[30] US (14/837,165) 2015-08-27

[11] **2,902,592**
[13] C

[51] **Int.Cl. A61B 5/055 (2006.01) A61B 6/00 (2006.01) A61B 8/00 (2006.01) A61B 17/34 (2006.01) A61M 39/02 (2006.01) G01R 33/36 (2006.01)**

[25] EN

[54] **INSERT IMAGING DEVICE FOR SURGICAL PROCEDURES**

[54] **DISPOSITIFS D'IMAGERIE INSERABLES POUR PROCEDURES CHIRURGICALES**

[72] PIRON, CAMERON, CA

[72] WOOD, MICHAEL, CA

[72] YUWARAJ, MURUGATHAS, CA

[72] PANTHER, ALEX, CA

[72] SHANMUGARATNAM, NISHANTHAN, CA

[72] LAU, WILLIAM, CA

[72] THOMAS, MONROE M., CA

[72] SELA, GAL, CA

[72] RICHMOND, JOSHUA, CA

[72] HODGES, WES, CA

[72] ALEXANDER, SIMON, CA

[72] GALLOP, DAVID, CA

[73] SYNAPTIVE MEDICAL INC., CA

[85] 2015-08-26

[86] 2014-03-14 (PCT/CA2014/000254)

[87] (WO2014/138923)

[30] US (61/801,746) 2013-03-15

[30] US (61/801,143) 2013-03-15

[30] US (61/800,787) 2013-03-15

[30] US (61/800,911) 2013-03-15

[30] US (61/800,155) 2013-03-15

[30] US (61/818,255) 2013-05-01

[30] US (61/818,325) 2013-05-01

[30] US (61/924,993) 2014-01-08

[11] **2,902,776**
[13] C

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

[25] EN

[54] **WOUND TREATMENT APPARATUS AND USE THEREOF**

[54] **APPAREIL DE TRAITEMENT DES PLAIES ET SON UTILISATION**

[72] DUNN, RAYMOND M., US

[72] HARTWELL, EDWARD YERBURY, GB

[72] HICKS, JOHN KENNETH, GB

[72] HUDDLESTON, ELIZABETH MARY, GB

[72] SAXBY, CARL, GB

[73] SMITH & NEPHEW INC., US

[73] UNIVERSITY OF MASSACHUSETTS, US

[85] 2015-08-26

[86] 2014-03-12 (PCT/US2014/025059)

[87] (WO2014/165275)

[30] US (61/780,660) 2013-03-13

[30] US (61/891,857) 2013-10-16

[11] **2,903,624**
[13] C

[51] **Int.Cl. A01N 37/50 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01N 47/30 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **USE OF ACYLSULFONAMIDES FOR IMPROVING PLANT YIELD**

[54] **UTILISATION D'ACYLSULFONAMIDES POUR AMELIORER LE RENDEMENT DE PLANTES**

[72] BICKERS, UDO, DE

[72] LEHR, STEFAN, FR

[72] TRABOLD, KLAUS, DE

[72] SCHMIDT, MATHIAS, DE

[72] HILLS, MARTIN JEFFREY, DE

[72] RUIZ-SANTAELLA MORENO, JUAN PEDRO, DE

[72] HACKER, ERWIN, DE

[73] BAYER CROPSCIENCE AKTIENGESELLSCHAFT, DE

[85] 2015-09-02

[86] 2014-02-28 (PCT/EP2014/053996)

[87] (WO2014/135468)

[30] EP (13157805.6) 2013-03-05

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[11] **2,904,653**
[13] C

[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01) A61F 5/01 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TREATING OR SUPPORTING HUMAN JOINTS OR A PORTION OF THE HUMAN BODY**
[54] **SYSTEMES ET METHODES DE TRAITEMENT OU DE SOUTIEN D'ARTICULATIONS HUMAINES OU D'UNE PARTIE DU CORPS HUMAIN**
[72] COLEMAN, STRUAN, US
[72] DOMENICO, CALVIN, US
[72] GIESWEIN, EDISON, US
[73] CYMEDICA, INC., US
[85] 2015-09-08
[86] 2014-03-14 (PCT/US2014/028698)
[87] (WO2014/153017)
[30] US (61/784,927) 2013-03-14
[30] US (14/021,387) 2013-09-09

[11] **2,904,694**
[13] C

[51] **Int.Cl. F01D 5/18 (2006.01)**
[25] EN
[54] **HIGH PRESSURE TURBINE BLADE COOLING HOLE DISTRIBUTION**
[54] **DISTRIBUTION DE TROUS DE REFROIDISSEMENT D'AUBE DE TURBINE HAUTE PRESSION**
[72] PAPPLE, MICHAEL, CA
[72] LECUYER, DANIEL, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2904694)
[87] (2904694)
[22] 2015-09-16
[30] US (14/494,837) 2014-09-24

[11] **2,905,180**
[13] C

[51] **Int.Cl. C12P 21/02 (2006.01) C12N 1/19 (2006.01) C12N 15/00 (2006.01) C12N 15/67 (2006.01) C12N 15/79 (2006.01) C12P 21/00 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **TEMPERATURE SHIFT FOR HIGH YIELD EXPRESSION OF POLYPEPTIDES IN YEAST AND OTHER TRANSFORMED CELLS**
[54] **CHANGEMENT DE TEMPERATURE POUR AUGMENTER LE RENDEMENT DE L'EXPRESSION DE POLYPEPTIDES DANS LA LEVURE ET D'AUTRES CELLULES TRANSFORMEES**
[72] LESNICKI, GARY, US
[72] MCNEILL, PATRICIA DIANNE, US
[72] HARTNER, FRANZ, AT
[72] YOUNG, MARK, US
[73] H. LUNDBECK A/S, DK
[85] 2015-09-09
[86] 2014-03-17 (PCT/US2014/030453)
[87] (WO2014/145650)
[30] US (61/791,471) 2013-03-15
[30] US (61/790,613) 2013-03-15

[11] **2,905,289**
[13] C

[51] **Int.Cl. C12N 15/11 (2006.01) C12Q 1/6809 (2018.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 1/19 (2006.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/00 (2006.01) C12N 15/09 (2006.01) C12N 15/82 (2006.01) C12N 15/90 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS FOR THE IDENTIFICATION OF VARIANT RECOGNITION SITES FOR RARE-CUTTING ENGINEERED DOUBLE-STRAND-BREAK-INDUCING AGENTS AND COMPOSITIONS AND USES THEREOF**
[54] **PROCEDES D'IDENTIFICATION DE SITES DE RECONNAISSANCE DE VARIANT POUR AGENTS D'INDUCTION DE CASSURE DOUBLE BRIN A COUPURE RARE, GENETIQUEMENT MODIFIES, LEURS COMPOSITIONS ET LEURS UTILISATIONS**
[72] DESCHAMPS, STEPHANE, US
[72] ENGLISH, JAMES, US
[72] LI, ZHONGSEN, US
[72] LLACA, VICTOR, US
[72] YOUNG, JOSHUA K., US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[73] E. I. DU PONT DE NEMOURS AND COMPANY, US
[85] 2015-09-10
[86] 2014-03-10 (PCT/US2014/022500)
[87] (WO2014/164466)
[30] US (61/777,238) 2013-03-12

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[11] **2,905,536**
[13] C

[51] **Int.Cl. C25D 7/00 (2006.01) B33Y 10/00 (2015.01) C25D 3/00 (2006.01) C25D 5/50 (2006.01) C25D 5/56 (2006.01) C23C 18/16 (2006.01)**

[25] EN

[54] **ELECTRODEPOSITED COMPOSITIONS AND NANOLAMINATED ALLOYS FOR ARTICLES PREPARED BY ADDITIVE MANUFACTURING PROCESSES**

[54] **COMPOSITIONS ELECTRODEPOSEES ET ALLIAGES NANOSTRATIFIÉS POUR DES ARTICLES PRÉPARÉS PAR DES PROCÉDES DE FABRICATION ADDITIVE**

[72] WHITAKER, JOHN D., US

[72] LOMASNEY, CHRISTINA A., US

[72] CALDWELL, RICHARD J., US

[72] KRUPPS, WILLIAM, US

[72] UNGER, JESSE, US

[73] MODUMETAL, INC., US

[85] 2015-09-10

[86] 2014-03-17 (PCT/US2014/030592)

[87] (WO2014/145771)

[30] US (61/798,559) 2013-03-15

[11] **2,905,828**
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/844 (2013.01) A61F 2/95 (2013.01)**

[25] EN

[54] **ARTICULATED COMMISSURE VALVE STENTS AND METHODS**

[54] **EXTENSEURS DE VALVE DE COMMISSURE ARTICULES ET PROCÉDES**

[72] WHITE, JENNIFER K., US

[73] EDWARDS LIFESCIENCES CARDIAQ LLC, US

[85] 2015-09-11

[86] 2014-03-11 (PCT/US2014/023788)

[87] (WO2014/164916)

[30] US (61/780,670) 2013-03-13

[11] **2,907,023**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) C40B 30/00 (2006.01) C40B 30/06 (2006.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **BRUCCELLOSIS, Q-FEVER, AND LYME DISEASE BIOMARKERS AND USES THEREOF**

[54] **BIOMARQUEURS DE LA BRUCELLOSE, DE LA FIEVRE Q ET DE LA MALADIE DE LYME ET LEURS UTILISATIONS**

[72] PARAMITHIOTIS, EUSTACHE, CA

[72] CROTEAU, PASCAL, CA

[73] CAPRION PROTEOMICS INC., CA

[85] 2015-09-15

[86] 2014-03-21 (PCT/IB2014/000996)

[87] (WO2014/147484)

[30] US (61/803,857) 2013-03-21

[11] **2,907,291**
[13] C

[51] **Int.Cl. E04D 13/076 (2006.01)**

[25] EN

[54] **GUTTER DEBRIS BARRIER SYSTEM**

[54] **MECANISME DE BARRIERE ANTI DEBRIS POUR GOUTTIERE**

[72] BREYER, SCOTT, US

[72] CATHERMAN, DAVID, US

[73] ALL WEATHER ARMOUR, LLC, US

[86] (2907291)

[87] (2907291)

[22] 2015-10-09

[30] US (62/061,887) 2014-10-09

[11] **2,907,915**
[13] C

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 9/00 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **IMMUNOMODULATORY NANOPARTICLE COMPOSITIONS COMPRISING A PLURALITY OF NANOPARTICLES COMPRISING BIODEGRADABLE OR BIOCOMPATIBLE POLYMERS AND HYDROPHILIC AND HYDROPHOBIC CELLULAR COMPONENTS**

[54] **COMPOSITIONS DE NANOPARTICULES IMMUNOMODULAIRES COMPRENANT PLUSIEURS NANOPARTICULES COMPOSEES DE POLYMERES BIODEGRADABLES OU BIOCOMPATIBLES ET DE COMPOSANTS CELLULAIRES HYDROPHILES ET HYDROPHOBES**

[72] SOSIN, HOWARD, US

[72] CAPLAN, MICHAEL, US

[73] N-FOLD LLC, US

[85] 2015-09-23

[86] 2014-04-03 (PCT/US2014/032838)

[87] (WO2014/165679)

[30] US (61/808,118) 2013-04-03

[11] **2,908,011**
[13] C

[51] **Int.Cl. H04B 1/18 (2006.01) H04B 7/185 (2006.01)**

[25] EN

[54] **A SYSTEM FOR VERIFYING PHYSICAL PROXIMITY BETWEEN MEDIA CONTENT RECEIVERS**

[54] **UN SYSTEME PERMETTANT DE VERIFIER LA PROXIMITE PHYSIQUE ENTRE DES RECEPTEURS DE CONTENU MEDIA**

[72] DEPREZ, OLIVIER, FR

[73] SMARTTV S.A., CH

[86] (2908011)

[87] (2908011)

[22] 2015-10-06

[30] EP (14191164.4) 2014-10-30

[30] EP (15171421.9) 2015-06-10

**Canadian Patents Issued
March 7, 2023**

[11] **2,908,152**
[13] C

[51] **Int.Cl. B81B 7/00 (2006.01) B01D 35/02 (2006.01) B01D 61/00 (2006.01) B81B 3/00 (2006.01) B81B 5/00 (2006.01)**

[25] EN

[54] **PERISTALTIC PUMP MICROFLUIDIC SEPARATOR**

[54] **SEPARATEUR MICROFLUIDIQUE DE POMPE PERISTALTIQUE**

[72] LI, KEBIN, CA

[72] VERES, TEODOR, CA

[72] DIDAR, TOHID FATANAT, CA

[72] TABRIZIAN, MARYAM, CA

[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[73] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA

[85] 2015-09-25

[86] 2014-03-27 (PCT/IB2014/060234)

[87] (WO2014/155343)

[30] US (61/806,127) 2013-03-28

[11] **2,909,112**
[13] C

[51] **Int.Cl. B23B 35/00 (2006.01) A47J 36/00 (2006.01) G01K 1/14 (2021.01)**

[25] FR

[54] **PROCESS FOR DRILLING A RECEPTION TUNNEL FOR A SENSOR IN A COOKING CONTAINER AND CONTAINER FROM SUCH A PROCESS**

[54] **PROCEDE POUR LE PERCAGE D'UN TUNNEL DE RECEPTION D'UN CAPTEUR DANS UN RECIPIENT DE CUISSON ET RECIPIENT ISSU D'UN TEL PROCEDE**

[72] LINGLIN, BENOIT, FR

[72] PERREAL, SYLVAIN, FR

[72] CHARVIN, STEPHANE, FR

[73] SEB S.A., FR

[86] (2909112)

[87] (2909112)

[22] 2015-10-15

[30] FR (1460585) 2014-11-03

[11] **2,909,392**
[13] C

[51] **Int.Cl. G06Q 20/24 (2012.01)**

[25] EN

[54] **APPLYING FOR A CREDIT CARD ACCOUNT ON A MOBILE DEVICE**

[54] **DEMANDE D'OUVERTURE DE COMPTE DE CARTE DE CREDIT SUR UN APPAREIL MOBILE**

[72] WALZ, JAMES, US

[72] LOWE, KAREN, US

[72] NACK, DAVID, US

[73] COMENITY CANADA L.P., CA

[86] (2909392)

[87] (2909392)

[22] 2015-10-19

[30] US (14/556842) 2014-12-01

[30] US (14/556915) 2014-12-01

[11] **2,909,516**
[13] C

[51] **Int.Cl. C12P 21/02 (2006.01)**

[25] EN

[54] **EXPRESSION OF BIOLOGICALLY ACTIVE PROTEINS IN A BACTERIAL CELL-FREE SYNTHESIS SYSTEM USING CELL EXTRACTS WITH ELEVATED LEVELS OF EXOGENOUS CHAPERONES**

[54] **EXPRESSION DE PROTEINES BIOLOGIQUEMENT ACTIVES DANS UN SYSTEME DE SYNTHESE LIBRE DE CELLULES BACTERIENNES A L'AIDE D'EXTRAITS DE CELLULES PRES ENTANT DES NIVEAUX ELEVES D'EXPRESSION DE PROTEINES CHAPERON**

[72] YAM, ALICE, US

[72] GROFF, DAN, US

[72] RIVERS, PATRICK, US

[72] THANOS, CHRISTOPHER D., US

[73] SUTRO BIOPHARMA, INC., US

[85] 2015-10-14

[86] 2014-04-18 (PCT/US2014/034643)

[87] (WO2014/172631)

[30] US (61/813,914) 2013-04-19

[30] US (61/937,069) 2014-02-07

[11] **2,909,818**
[13] C

[51] **Int.Cl. B65D 51/22 (2006.01) A61F 9/00 (2006.01)**

[25] EN

[54] **CONTAINER RECIPIENT**

[72] SPALLEK, MICHAEL, DE

[72] GESER, JOHANNES, DE

[73] KOCHER-PLASTIK MASCHINENBAU GMBH, DE

[85] 2015-10-19

[86] 2014-02-15 (PCT/EP2014/000421)

[87] (WO2014/169979)

[30] DE (10 2013 007 063.5) 2013-04-19

[11] **2,909,766**
[13] C

[51] **Int.Cl. G08B 13/14 (2006.01) G07F 7/08 (2006.01)**

[25] EN

[54] **METHOD FOR DETECTING A RISK OF REPLACEMENT OF A TERMINAL, CORRESPONDING DEVICE, PROGRAM AND RECORDING MEDIUM**

[54] **METHODE DE DETECTION D'UN RISQUE DE REMPLACEMENT D'UN TERMINAL, DISPOSITIF CORRESPONDANT, PROGRAMME ET SUPPORT D'ENREGISTREMENT**

[72] SIRAI, YOUSSEF, FR

[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR

[86] (2909766)

[87] (2909766)

[22] 2015-10-21

[30] FR (1461282) 2014-11-21

[11] **2,909,818**
[13] C

[51] **Int.Cl. B65D 51/22 (2006.01) A61F 9/00 (2006.01)**

[25] EN

[54] **CONTAINER RECIPIENT**

[72] SPALLEK, MICHAEL, DE

[72] GESER, JOHANNES, DE

[73] KOCHER-PLASTIK MASCHINENBAU GMBH, DE

[85] 2015-10-19

[86] 2014-02-15 (PCT/EP2014/000421)

[87] (WO2014/169979)

[30] DE (10 2013 007 063.5) 2013-04-19

[11] **2,910,643**
[13] C

[51] **Int.Cl. G07F 7/08 (2006.01)**

[25] EN

[54] **PAYMENT TERMINAL TERMINAL DE PAIEMENT**

[72] BERTHIAUD, OLIVIER, FR

[72] ANDRE, JEROME, FR

[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR

[86] (2910643)

[87] (2910643)

[22] 2015-10-28

[30] FR (1460592) 2014-11-03

**Brevets canadiens délivrés
7 mars 2023**

[11] **2,910,658**
[13] C

- [51] **Int.Cl. H05K 5/00 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **TERMINAL CASING EQUIPPED WITH A REMOVABLE HATCH HAVING A CURVILINEAR PROFILE**
[54] **LOGEMENT DE TERMINAL EQUIPE D'UNE TRAPPE AMOVIBLE AYANT UN PROFIL CURVILINEAIRE**
[72] BONNET, ERIC, FR
[72] YERNAUX, OLIVIER, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[86] (2910658)
[87] (2910658)
[22] 2015-10-28
[30] FR (1460553) 2014-11-03

[11] **2,911,107**
[13] C

- [51] **Int.Cl. E21B 47/026 (2006.01) E21B 49/00 (2012.01) E21B 49/00 (2006.01)**
[25] EN
[54] **LOCAL LAYER GEOMETRY ENGINE WITH WORK ZONE GENERATED FROM BUFFER DEFINED RELATIVE TO A WELLBORE TRAJECTORY**
[54] **MOTEUR A GEOMETRIE PAR COUCHE LOCALE DOTE D'UNE ZONE DE TRAVAIL PRODUITE PAR UN TAMPON DEFINI PAR RAPPORT A UNE TRAJECTOIRE DE Puits DE FORAGE**
[72] ABADIE, JOAN, FR
[72] CHASSARD, ADRIEN, FR
[72] SALEHI, MOHAMMAD TAGHI, FR
[72] ASIF, SHAHZAD A., US
[72] MORRISS, CHRISTOPHER E., US
[72] ITO, KOJI, US
[72] MAGGS, DAVID, GB
[73] SCHLUMBERGER CANADA LIMITED, CA
[86] (2911107)
[87] (2911107)
[22] 2015-11-04
[30] US (62/076,219) 2014-11-06

[11] **2,911,482**
[13] C

- [51] **Int.Cl. B05B 13/02 (2006.01) B05B 13/04 (2006.01) A61M 25/10 (2013.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR COATING MEDICAL DEVICES**
[54] **APPAREIL ET PROCEDES DE REVETEMENT DE DISPOSITIFS MEDICAUX**
[72] CHAPPA, RALPH A., US
[72] BACH, ANDREW G., US
[72] MACGREGOR, MARK, US
[73] SURMODICS, INC., US
[85] 2015-11-04
[86] 2014-05-07 (PCT/US2014/037179)
[87] (WO2014/182833)
[30] US (61/820,223) 2013-05-07
[30] US (61/829,375) 2013-05-31
[30] US (13/906,599) 2013-05-31
[30] US (61/875,524) 2013-09-09

[11] **2,913,018**
[13] C

- [51] **Int.Cl. B64G 1/22 (2006.01)**
[25] EN
[54] **RETRACTABLE DEPLOYABLE STRUCTURE USING A TAPE SPRING**
[54] **STRUCTURE DEPLOYABLE RETRACTABLE EMPLOYANT UN RESSORT A RUBAN**
[72] BAUDASSE, YANNICK, FR
[72] VEZAIN, STEPHANE, FR
[72] STANEK, DIDIER, FR
[72] GUINOT, FRANCOIS, FR
[73] THALES, FR
[86] (2913018)
[87] (2913018)
[22] 2015-11-20
[30] FR (1402620) 2014-11-21

[11] **2,913,385**
[13] C

- [51] **Int.Cl. H05K 5/03 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **FLAP FOR PAYMENT DEVICE COMPRISING A PAYMENT TERMINAL AND A HOUSING FOR HOLDING A COMMUNICATION TERMINAL**
[54] **RABAT POUR DISPOSITIF DE PAIEMENT COMPORTANT UN TERMINAL DE PAIEMENT ET UN LOGEMENT SERVANT A TENIR UN TERMINAL DE COMMUNICATION**
[72] BARNERON, SYLVAIN, FR
[72] FROMENT, MARION, FR
[72] DEDIEU, PHILIPPE, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[86] (2913385)
[87] (2913385)
[22] 2015-11-25
[30] FR (1461744) 2014-12-01

[11] **2,913,455**
[13] C

- [51] **Int.Cl. H01B 7/24 (2006.01)**
[25] EN
[54] **CABLE STRAIN RELIEF DISPOSITIF DE REDUCTION DE CONTRAINTE D'UN CABLE**
[72] ROGERS, AARON STANLEY, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2913455)
[87] (2913455)
[22] 2015-11-25
[30] US (14/626,587) 2015-02-19

[11] **2,913,975**
[13] C

- [51] **Int.Cl. B27B 5/29 (2006.01)**
[25] EN
[54] **MITER SAW SCIE A ONGLET**
[72] DUTTERER, DAVID, US
[72] HART, MICHAEL, US
[73] TECHTRONIC POWER TOOLS TECHNOLOGY LIMITED, VG
[86] (2913975)
[87] (2913975)
[22] 2015-12-03
[30] US (14/596,614) 2015-01-14

**Canadian Patents Issued
March 7, 2023**

[11] **2,914,025**
[13] C

[51] **Int.Cl. A61K 31/047 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF DIANHYDROGALACTITOL AND ANALOGS AND DERIVATIVES THEREOF TO TREAT RECURRENT MALIGNANT GLIOMA OR PROGRESSIVE SECONDARY BRAIN TUMOR**
[54] **UTILISATION DE DIANHYDROGALACTICOL ET D'ANALOGUES ET DE DERIVES DE CELUI-CI POUR TRAITER UN GLIOME MALIN RECURRENT OU UNE TUMEUR CEREBRALE SECONDAIRE PROGRESSIVE**
[72] BROWN, DENNIS M., US
[72] SHIH, KENT C., US
[72] SCHWARTZ, RICHARD, US
[72] KANEKAL, SARETH, US
[72] BURRIS, HOWARD A., III, US
[72] GARNER, WILLIAM, US
[72] STEINO, ANNE, CA
[72] BACHA, JEFFREY, CA
[73] DEL MAR PHARMACEUTICALS (BC), LTD., CA
[85] 2015-11-27
[86] 2014-06-02 (PCT/US2014/040461)
[87] (WO2014/194312)
[30] US (61/829,739) 2013-05-31

[11] **2,914,502**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01)**
[25] EN
[54] **WHEAT STEM RUST RESISTANCE GENE**
[54] **GENE DE RESISTANCE A LA ROUILLE DE LA TIGE DU BLE**
[72] LAGUDAH, EVANS, AU
[72] PERIYANNAN, SAMBASIVAM KUPPUSAMY, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2015-12-04
[86] 2014-06-06 (PCT/AU2014/000594)
[87] (WO2014/194371)
[30] AU (2013902049) 2013-06-06

[11] **2,916,521**
[13] C

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/04 (2006.01) A61P 25/28 (2006.01) A61P 37/06 (2006.01) C07K 16/46 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **ANTI-COMPLEMENT FACTOR C1Q ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-FACTEUR DU COMPLEMENT C1Q ET UTILISATIONS DE CEUX-CI**
[72] ROSENTHAL, ARNON, US
[72] LEVITEN, MICHAEL, US
[73] ANNEXON, INC., US
[85] 2015-12-21
[86] 2014-07-09 (PCT/US2014/046042)
[87] (WO2015/006504)
[30] US (61/844,369) 2013-07-09
[30] US (61/871,813) 2013-08-29

[11] **2,917,212**
[13] C

[51] **Int.Cl. H04N 5/93 (2006.01) H04N 21/431 (2011.01) H04N 19/70 (2014.01) H04N 19/85 (2014.01) G11B 20/10 (2006.01) G11B 27/00 (2006.01) G11B 27/10 (2006.01) H04N 5/92 (2006.01)**
[25] EN
[54] **REPRODUCTION DEVICE, REPRODUCTION METHOD, AND RECORDING MEDIUM**
[54] **APPAREIL DE REPRODUCTION, PROCEDE DE REPRODUCTION ET SUPPORT D'ENREGISTREMENT**
[72] YAMAMOTO, KAZUO, JP
[72] HAMADA, TOSHIYA, JP
[72] HATTORI, SHINOBU, JP
[72] TAKAHASHI, KUNIAKI, JP
[73] SONY CORPORATION, JP
[85] 2015-12-30
[86] 2014-07-02 (PCT/JP2014/067645)
[87] (WO2015/005189)
[30] JP (2013-146740) 2013-07-12

[11] **2,917,334**
[13] C

[51] **Int.Cl. B41F 17/00 (2006.01) B33Y 10/00 (2015.01) B33Y 40/00 (2020.01) B33Y 50/02 (2015.01)**
[25] EN
[54] **METHOD OF REDUCING AND OPTIMISING PRINTED SUPPORT STRUCTURES IN 3D PRINTING PROCESSES**
[54] **PROCEDE DE REDUCTION ET D'OPTIMISATION DE STRUCTURES DE SOUTIEN IMPRIMEES DANS LES PROCEDES D'IMPRESSION 3D**
[72] URBANIC, JILL, CA
[73] UNIVERSITY OF WINDSOR, CA
[86] (2917334)
[87] (2917334)
[22] 2016-01-12
[30] US (62/102627) 2015-01-13

[11] **2,918,596**
[13] C

[51] **Int.Cl. G06F 21/53 (2013.01) G06F 9/455 (2018.01)**
[25] EN
[54] **A SECURE SERVER ON A SYSTEM WITH VIRTUAL MACHINES**
[54] **SERVEUR SECURISE SUR UN SYSTEME AVEC DES MACHINES VIRTUELLES**
[72] IGNATCHENKO, SERGEY, LI
[72] IVANCHYKHIN, DMYTRO, LI
[73] OLOGN TECHNOLOGIES AG, LI
[85] 2016-01-18
[86] 2014-08-01 (PCT/IB2014/063637)
[87] (WO2015/015473)
[30] US (61/861,753) 2013-08-02

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7 mars 2023**

[11] **2,919,507**
[13] C

[51] **Int.Cl. G05D 7/06 (2006.01) F24F 11/72 (2018.01) F24F 13/06 (2006.01) F24F 13/10 (2006.01) G01F 7/00 (2006.01)**

[25] EN

[54] **FLUID CONTROL MEASURING DEVICE**

[54] **DISPOSITIF DE MESURE DE REGULATION DE FLUIDE**

[72] KARAMANOS, JOHN C., US
[72] LYNN, MICHAEL F., US
[72] WILLKE, HERBERT L., JR., US
[73] KARAMANOS, JOHN C., US
[73] LYNN, MICHAEL F., US
[73] WILLKE, HERBERT L., JR., US
[85] 2016-01-12
[86] 2014-07-14 (PCT/US2014/046554)
[87] (WO2015/006777)
[30] US (61/845,665) 2013-07-12
[30] US (61/872,576) 2013-08-30
[30] US (14/330,941) 2014-07-14

[11] **2,920,021**
[13] C

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **BI-SPECIFIC MONOVALENT FC DIABODIES THAT ARE CAPABLE OF BINDING CD32B AND CD79B AND USES THEREOF**

[54] **ANTICORPS DIMERIQUES MONOVALENTS BISPECIFIQUES A REGION FC CAPABLES DE SE LIER A CD32B ET A CD79B ET LEURS UTILISATIONS**

[72] JOHNSON, LESLIE S., US
[72] HUANG, LING, US
[72] SHAH, KALPANA, US
[72] BONVINI, EZIO, US
[72] MOORE, PAUL A., US
[72] CHEN, WEI, US
[73] MACROGENICS, INC., US
[85] 2016-01-29
[86] 2014-08-06 (PCT/US2014/049848)
[87] (WO2015/021089)
[30] US (61/864,217) 2013-08-09
[30] US (61/866,416) 2013-08-15
[30] US (61/869,519) 2013-08-23
[30] US (61/907,525) 2013-11-22

[11] **2,920,652**
[13] C

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHODS AND KITS FOR PREDICTING THE RISK OF HAVING A CARDIOVASCULAR DISEASE OR EVENT**

[54] **METHODES ET TROUSSES PERMETTANT DE PREDIRE LE RISQUE DE SURVENUE D'UN EVENEMENT OU D'UNE MALADIE CARDIOVASCULAIRE**

[72] DERIVE, MARC, FR
[72] GIBOT, SEBASTIEN, FR
[72] AIT-OUFELLA, HAFID, FR
[72] BOUFENZER, AMIR, FR
[72] SIMON, TABASOMME, FR
[72] DANCHIN, NICOLAS, FR
[73] INOTREM, FR
[73] APHP (ASSISTANCE PUBLIQUE-HOPITAUX DE PARIS), FR
[73] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[73] UNIVERSITE DE LORRAINE, FR
[73] SORBONNE UNIVERSITE, FR
[73] UNIVERSITE PARIS CITE, FR
[85] 2016-02-05
[86] 2014-08-08 (PCT/EP2014/067120)
[87] (WO2015/018936)
[30] US (61/863,987) 2013-08-09
[30] EP (14153519.5) 2014-01-31

[11] **2,921,529**
[13] C

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

[25] EN

[54] **BI-DIRECTIONAL CLUTCH WITH RETURN FEATURE**

[54] **EMBAYAGE BIDIRECTIONNEL A FONCTION DE RETOUR**

[72] LI, ZHI, CA
[73] ZMC METAL COATING INC., CA
[86] (2921529)
[87] (2921529)
[22] 2016-02-22
[30] US (62/155,776) 2015-05-01
[30] US (62/210,117) 2015-08-26

[11] **2,921,784**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) C12N 15/82 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **LR67 RUST RESISTANCE GENE WHICH CONFERS PLANT RESISTANCE TO A BIOTROPHIC FUNGAL PATHOGEN**

[54] **GENE DE RESISTANCE A LA ROUILLE LR67 QUI DONNE A UNE PLANTE UNE RESISTANCE CONTRE UN PATHOGENE FONGIQUE BIOTROPHE**

[72] LAGUDAH, EVANS, AU
[72] MOORE, JOHN WALLACE, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2016-02-19
[86] 2014-08-21 (PCT/AU2014/000837)
[87] (WO2015/024066)
[30] AU (2013903161) 2013-08-21

[11] **2,921,805**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/16 (2006.01) A61P 9/10 (2006.01) A61P 35/00 (2006.01) C07K 14/475 (2006.01) C07K 16/22 (2006.01)**

[25] EN

[54] **TGF-BETA RECEPTOR TYPE II VARIANTS AND USES THEREOF**

[54] **VARIANTS DE TYPE II DU RECEPTEUR DE TGF-BETA ET UTILISATIONS ASSOCIEES**

[72] KUMAR, RAVINDRA, US
[72] GRINBERG, ASYA, US
[72] SAKO, DIANNE S., US
[72] CASTONGUAY, ROSELYNE, US
[72] STEEVES, RITA, US
[73] ACCELERON PHARMA, INC., US
[85] 2016-02-18
[86] 2014-08-21 (PCT/US2014/052130)
[87] (WO2015/027082)
[30] US (61/868,713) 2013-08-22
[30] US (61/906,270) 2013-11-19
[30] US (61/906,849) 2013-11-20

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[11] **2,922,108**
[13] C

[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 17/10 (2006.01) G07C 3/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PREDICTIVE RELIABILITY MINING**
[54] **SYSTEMES ET METHODES DE PREDICTION DE LA FIABILITE DE L'EXTRACTION MINIERE**
[72] SINGH, KARAMJIT, IN
[72] SHROFF, GAUTAM, IN
[72] AGARWAL, PUNEET, IN
[73] TATA CONSULTANCY SERVICES LIMITED, IN
[86] (2922108)
[87] (2922108)
[22] 2016-02-29
[30] IN (3922/MUM/2015) 2015-10-15

[11] **2,922,247**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01)**
[25] EN
[54] **METHOD FOR PRODUCING ADULT LIVER PROGENITOR CELLS**
[54] **PROCEDE DE PRODUCTION DE CELLULES PROGENITRICES DE FOIE ADULTE**
[72] SOKAL, ETIENNE, BE
[72] SNYKERS, SARAH, BE
[72] BARAN, TUBA, BE
[72] GELLYNCK, KRIS, BE
[73] PROMETHERA THERAPEUTICS SA, BE
[85] 2016-02-23
[86] 2014-08-28 (PCT/EP2014/068317)
[87] (WO2015/028577)
[30] US (61/870,983) 2013-08-28

[11] **2,922,686**
[13] C

[51] **Int.Cl. A61G 99/00 (2006.01) H04W 84/18 (2009.01) A61M 15/00 (2006.01) G08B 21/24 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR ADHERENCE MONITORING AND DEVICES, SYSTEMS, AND METHODS FOR MONITORING USE OF CONSUMABLE DISPENSERS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR UN CONTROLE DU RESPECT, ET DISPOSITIFS, SYSTEMES ET PROCEDES POUR SURVEILLER L'UTILISATION DE DISTRIBUTEURS DE PRODUITS CONSOMMABLES**
[72] ENGELHARD, YECHIEL, US
[72] MAALOUF, MARK, US
[73] GECKO HEALTH INNOVATIONS, INC., US
[85] 2016-02-26
[86] 2014-08-27 (PCT/US2014/052896)
[87] (WO2015/031472)
[30] US (61/871,056) 2013-08-28
[30] US (61/871,001) 2013-08-28

[11] **2,923,193**
[13] C

[51] **Int.Cl. A01G 9/02 (2018.01) A01G 9/00 (2018.01) A01G 27/00 (2006.01) E04D 13/04 (2006.01)**
[25] EN
[54] **PERMANENT FOUR SEASON SELF-WATERING FLAT GREEN ROOF**
[54] **TOIT VERT PLAT AUTO-ARROSANT PERMANENT QUATRE SAISONS**
[72] GOOS, RICHARD H., CA
[73] GOOS, RICHARD H., CA
[86] (2923193)
[87] (2923193)
[22] 2016-03-09

[11] **2,923,228**
[13] C

[51] **Int.Cl. C40B 40/14 (2006.01) B32B 9/04 (2006.01) C08J 7/18 (2006.01)**
[25] EN
[54] **DETECTABLE ARRAY THAT CAN BIND AND DETECT MULTIPLE ANALYTES AND USE THEREOF IN DIAGNOSTIC METHODS**
[54] **RESEAU DETECTABLE PERMETTANT DE LIER ET DE DETECTER DE MULTIPLES ANALYTES ET LEUR UTILISATION DANS DES PROCEDES DE DIAGNOSTIC**
[72] PILOTO, ABDULIO, US
[72] CHEONG, IAN SHEN-YI, US
[73] ENTOPSIS, INC., US
[85] 2016-03-03
[86] 2014-09-22 (PCT/US2014/056822)
[87] (WO2015/047958)
[30] US (61/881,754) 2013-09-24

[11] **2,923,362**
[13] C

[51] **Int.Cl. A61K 39/29 (2006.01)**
[25] EN
[54] **DRY FORMULATIONS OF VACCINES THAT ARE ROOM TEMPERATURE STABLE**
[54] **FORMULATIONS SECHES DE VACCINS STABLES A TEMPERATURE AMBIANTE**
[72] QIAO, ZHISONG, US
[72] O'CONNELL, KEVIN, US
[73] INTERVET INTERNATIONAL B.V., NL
[85] 2016-03-04
[86] 2014-09-26 (PCT/EP2014/070608)
[87] (WO2015/044337)
[30] US (61/883,611) 2013-09-27

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[11] **2,923,574**
[13] C

- [51] **Int.Cl. C09D 11/38 (2014.01)**
[25] EN
[54] **INK FORMULATIONS AND FILM CONSTRUCTIONS THEREOF**
[54] **FORMULATIONS D'ENCRE ET CONSTRUCTIONS DE FILM ASSOCIEES**
[72] LANDA, BENZION, IL
[72] NAKHMANOVICH, GREGORY, IL
[72] GOLODETZ, GALIA, IL
[72] ABRAMOVICH, SAGI, IL
[73] LANDA CORPORATION LTD, IL
[85] 2016-03-07
[86] 2014-09-11 (PCT/IB2014/002395)
[87] (WO2015/036865)
[30] US (61/876,727) 2013-09-11
[30] GB (1401173.8) 2014-01-23

[11] **2,923,831**
[13] C

- [51] **Int.Cl. B01F 35/83 (2022.01) B01F 23/235 (2022.01)**
[25] EN
[54] **VALVULAR CONDUIT**
[54] **CONDUIT VALVULAIRE**
[72] OPHARDT, HEINER, CH
[72] JONES, ANDREW, CA
[72] SHI, ZHENCHUN (TONY), CA
[73] OP-HYGIENE IP GMBH, CH
[86] (2923831)
[87] (2923831)
[22] 2016-03-15

[11] **2,924,107**
[13] C

- [51] **Int.Cl. G01N 33/497 (2006.01) A61B 5/08 (2006.01) A61B 5/097 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ELUTING AND TESTING SUBSTANCE FROM EXHALED AEROSOL SAMPLE**
[54] **SYSTEME ET PROCEDE D'ELUTION ET D'ANALYSE D'UNE SUBSTANCE CONTENUE DANS UN ECHANTILLON DE TYPE AEROSOL EXHALE**
[72] BECK, OLOF, SE
[73] SENSABUES AB, SE
[85] 2016-03-11
[86] 2013-09-11 (PCT/EP2013/068860)
[87] (WO2014/041045)
[30] EP (12183840.3) 2012-09-11
[30] US (61/699,307) 2012-09-11

[11] **2,924,840**
[13] C

- [51] **Int.Cl. F02C 7/36 (2006.01)**
[25] EN
[54] **REDUCTION GEARBOX FOR A GAS TURBINE ENGINE**
[54] **BOITE DE REDUCTION DESTINEE A UNE TURBINE A GAZ**
[72] MITROVIC, LAZAR, CA
[72] MORGAN, KEITH, CA
[72] MILLS, DANNY, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2924840)
[87] (2924840)
[22] 2016-03-22
[30] US (14/670,551) 2015-03-27

[11] **2,924,922**
[13] C

- [51] **Int.Cl. F01D 25/18 (2006.01) F02C 7/06 (2006.01)**
[25] EN
[54] **FLUID DELIVERY SYSTEM FOR A GAS TURBINE ENGINE**
[54] **SYSTEME DE DISTRIBUTION DE LIQUIDE DESTINE A UNE TURBINE A GAZ**
[72] GEKHT, EUGENE, CA
[72] LEGARE, PIERRE-YVES, CA
[72] HASLAM-JONES, THOMAS FRANCIS, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2924922)
[87] (2924922)
[22] 2016-03-23
[30] US (14/670,848) 2015-03-27

[11] **2,924,926**
[13] C

- [51] **Int.Cl. H04W 48/10 (2009.01) H04W 56/00 (2009.01) H04W 12/03 (2021.01) H04W 12/041 (2021.01) H04W 12/0431 (2021.01)**
[25] EN
[54] **CRYPTOGRAPHIC PROTOCOL FOR PORTABLE DEVICES**
[54] **PROTOCOLE CRYPTOGRAPHIQUE DESTINE A DES APPAREILS PORTABLES**
[72] MARTIN, KARL, CA
[72] VAHLIS, EVGENE, CA
[73] NYMI INC., CA
[86] (2924926)
[87] (2924926)
[22] 2016-03-23
[30] US (14/675,489) 2015-03-31

[11] **2,925,393**
[13] C

- [51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/0783 (2010.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **TEM8 ANTIBODIES AND THEIR USE**
[54] **ANTICORPS TEM8 ET LEUR UTILISATION**
[72] DIMITROV, DIMITER, US
[72] ZHU, ZHONGYU, US
[72] ST. CROIX, BRAD, US
[72] ZUDAIRE, ENRIQUE, US
[72] SAHA, SAURABH, US
[72] ZHANG, XIAOYAN MICHELLE, US
[72] DECRESCENZO, GARY, US
[72] WELSCH, DEAN, US
[73] BIOMED VALLEY DISCOVERIES, INC., US
[85] 2016-03-23
[86] 2014-10-13 (PCT/US2014/060299)
[87] (WO2015/054691)
[30] US (61/889,958) 2013-10-11

[11] **2,925,717**
[13] C

- [51] **Int.Cl. H04L 43/062 (2022.01) H04L 43/0888 (2022.01) H04L 47/12 (2022.01) H04L 41/0213 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR TRIGGERING AUGMENTED DATA COLLECTION ON A NETWORK BASED ON TRAFFIC PATTERNS**
[54] **METHODE ET SYSTEME DE DECLENCHEMENT DE COLLECTE DE DONNEES AUGMENTEES SUR UN RESEAU EN FONCTION DE MOTIFS DE TRAFIC**
[72] VERES, GREG, CA
[72] LOOP, SANDRA, CA
[73] AUREA SOFTWARE FZ-LLC, AE
[86] (2925717)
[87] (2925717)
[22] 2016-03-31
[30] US (14/680,744) 2015-04-07

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[11] **2,927,077**
[13] C

[51] **Int.Cl. C12N 15/35 (2006.01) C07K 14/015 (2006.01) C12N 7/01 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **ANCESTRAL ADENO-ASSOCIATED VIRUS SEQUENCES AND USES THEREOF**

[54] **SEQUENCES DE VIRUS ASSOCIES AUX ADENOVIRUS ANCESTRAUX ET UTILISATIONS CONNEXES**

[72] VANDENBERGHE, LUK H., US

[72] ZINN, ERIC, US

[73] MASSACHUSETTS EYE & EAR INFIRMARY, US

[73] SCHEPENS EYE RESEARCH INSTITUTE, US

[85] 2016-04-11

[86] 2014-10-10 (PCT/US2014/060163)

[87] (WO2015/054653)

[30] US (61/889,827) 2013-10-11

[11] **2,928,160**
[13] C

[51] **Int.Cl. C23F 11/18 (2006.01) C23F 11/12 (2006.01)**

[25] EN

[54] **THE USE OF NIOBATE CONTAINING COMPOUNDS AS CORROSION INHIBITORS**

[54] **UTILISATION DE COMPOSES CONTENANT DU NIOBATE EN TANT QU'INHIBITEURS DE CORROSION**

[72] ZIM, DANILO, BR

[72] PASCHOALINO, MATHEUS PAES, BR

[73] ECOLAB USA INC., US

[85] 2016-04-20

[86] 2014-10-06 (PCT/US2014/059350)

[87] (WO2015/065657)

[30] US (14/065,968) 2013-10-29

[11] **2,928,376**
[13] C

[51] **Int.Cl. H05H 1/30 (2006.01) H05H 1/36 (2006.01)**

[25] EN

[54] **HYBRID GENERATORS AND METHODS OF USING THEM**

[54] **GENERATEURS HYBRIDES ET LEURS PROCEDES D'UTILISATION**

[72] CHEUNG, TAK SHUN, CA

[72] WONG, CHUI HA CINDY, CA

[73] PERKINELMER HEALTH SCIENCES, INC., US

[85] 2016-04-21

[86] 2014-10-22 (PCT/US2014/061682)

[87] (WO2015/061391)

[30] US (61/894,560) 2013-10-23

[11] **2,928,392**
[13] C

[51] **Int.Cl. G06Q 50/16 (2012.01)**

[25] EN

[54] **REAL PROPERTY INFORMATION MANAGEMENT, RETENTION AND TRANSFERAL SYSTEM AND METHODS FOR USING SAME**

[54] **SYSTEME DE GESTION, DE CONSERVATION ET DE TRANSFERT D'INFORMATIONS DE BIENS IMMOBILIERS ET SES PROCEDES D'UTILISATION**

[72] WOHLSTADTER, JACOB, US

[72] CHRISTIANSEN, BRADLEY, US

[72] LOVELL, CRAIG PHILIP, US

[72] OSGANIAN, MICHAEL, US

[72] VOCK, MICHAEL, US

[73] THERMODYNAMIC DESIGN, LLC, US

[86] (2928392)

[87] (2928392)

[22] 2008-06-06

[62] 2,691,280

[30] US (60/933,728) 2007-06-08

[11] **2,928,667**
[13] C

[51] **Int.Cl. G06F 21/30 (2013.01) G06F 3/041 (2006.01)**

[25] EN

[54] **DIRECTIONAL TOUCH UNLOCKING FOR ELECTRONIC DEVICES**

[54] **DEVERROUILLAGE TACTILE DIRECTIONNEL POUR DISPOSITIFS ELECTRONIQUES**

[72] KUSCHER, ALEXANDER FRIEDRICH, US

[72] WARR, ANDREW, US

[73] GOOGLE LLC, US

[85] 2016-04-22

[86] 2014-11-03 (PCT/US2014/063740)

[87] (WO2015/069599)

[30] US (14/072,738) 2013-11-05

[11] **2,928,885**
[13] C

[51] **Int.Cl. H04W 12/02 (2009.01) G06F 21/31 (2013.01) G06F 21/60 (2013.01) H04W 12/069 (2021.01) H04W 12/128 (2021.01) H04L 67/02 (2022.01) G06F 1/16 (2006.01) G06F 3/01 (2006.01) G06F 3/041 (2006.01)**

[25] EN

[54] **SECURE MOBILE USER INTERFACE AND MOBILE DEVICE CASE**

[54] **INTERFACE UTILISATEUR MOBILE SECURISEE ET BOITIER DE DISPOSITIF MOBILE**

[72] LANDROCK, PETER, GB

[72] BOND, MIKE, GB

[73] CRYPTOMATHIC LTD, GB

[85] 2016-04-27

[86] 2014-10-29 (PCT/GB2014/053209)

[87] (WO2015/063474)

[30] US (61/896,820) 2013-10-29

[30] GB (1407528.7) 2014-04-29

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[11] **2,929,025**
[13] C

[51] **Int.Cl. B64D 15/16 (2006.01) B32B 5/26 (2006.01) B32B 27/02 (2006.01) B32B 27/20 (2006.01) B64D 15/00 (2006.01) C09K 3/18 (2006.01)**

[25] EN
[54] **DEICER BOOTS HAVING DIFFERENT ELASTOMER FIBERS**
[54] **BOUDINS DE DEGLACAGE COMPORTANT DIFFERENTES FIBRES ELASTOMERES**

[72] HU, JIN, US
[73] GOODRICH CORPORATION, US
[86] (2929025)
[87] (2929025)
[22] 2016-05-04
[30] US (62/166,548) 2015-05-26

[11] **2,929,065**
[13] C

[51] **Int.Cl. G06F 30/15 (2020.01) G06F 30/20 (2020.01) B64F 5/00 (2017.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR DESIGNING AIRCRAFT**
[54] **PROCEDE ET SYSTEME DE CONCEPTION D'AVIONS**

[72] ECHTERMAYER, KARL, DE
[72] COENEN, WERNER, DE
[73] DEUTSCHE LUFTHANSA AG, DE
[85] 2016-04-28
[86] 2014-11-26 (PCT/EP2014/075661)
[87] (WO2015/078910)
[30] EP (13194503.2) 2013-11-26

[11] **2,929,196**
[13] C

[51] **Int.Cl. H02J 3/00 (2006.01) G01R 19/25 (2006.01)**

[25] EN
[54] **GRID FREQUENCY RESPONSE**
[54] **REPOSE EN FREQUENCE DE RESEAU ELECTRIQUE**

[72] HUOMO, HEIKKI, FI
[72] ALAKONTIOLA, JUKKA, FI
[73] REACTIVE TECHNOLOGIES LIMITED, GB
[85] 2016-04-29
[86] 2014-11-04 (PCT/EP2014/073694)
[87] (WO2015/067602)
[30] GB (1319624.1) 2013-11-06

[11] **2,929,393**
[13] C

[51] **Int.Cl. C07D 231/12 (2006.01) A01N 43/56 (2006.01) A01N 43/72 (2006.01) A01N 43/80 (2006.01) A01P 7/00 (2006.01) C07D 207/337 (2006.01) C07D 261/08 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01)**

[25] EN
[54] **SUBSTITUTED BENZAMIDES FOR THE TREATMENT OF ARTHROPODS**
[54] **BENZAMIDES SUBSTITUES POUR LUTTER CONTRE DES ARTHROPODES**

[72] HALLENBACH, WERNER, DE
[72] SCHWARZ, HANS-GEORG, DE
[72] ILG, KERSTIN, DE
[72] GORGENS, ULRICH, DE
[72] KOBBERLING, JOHANNES, DE
[72] TURBERG, ANDREAS, DE
[72] BOHNKE, NIELS, DE
[72] MAUE, MICHAEL, DE
[72] VELTEN, ROBERT, DE
[72] HARSCHNECK, TOBIAS, DE
[72] HAHN, JULIA JOHANNA, DE
[72] HORSTMANN, SEBASTIAN, DE
[73] BAYER ANIMAL HEALTH GMBH, DE
[85] 2016-05-02
[86] 2014-11-05 (PCT/EP2014/073795)
[87] (WO2015/067647)
[30] EP (13191610.8) 2013-11-05
[30] EP (14181149.7) 2014-08-15

[11] **2,929,702**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 1/05 (2006.01) A61B 5/055 (2006.01) A61B 5/06 (2006.01) A61B 17/34 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR NAVIGATION AND SIMULATION OF MINIMALLY INVASIVE THERAPY**
[54] **SYSTEMES ET PROCEDES DE NAVIGATION ET DE SIMULATION DE THERAPIE MINI-INVASIVE**

[72] PIRON, CAMERON, CA
[72] WOOD, MICHAEL, CA
[72] SELA, GAL, CA
[72] RICHMOND, JOSHUA, CA
[72] YUWARAJ, MURUGATHAS, CA
[72] THOMAS, MONROE M., CA
[72] HODGES, WES, CA
[72] ALEXANDER, SIMON, CA
[72] GALLOP, DAVID, CA
[72] PANTHER, ALEX, CA
[72] SHANMUGARATNAM, NISHANTHAN, CA
[72] LAU, WILLIAM, CA
[73] SYNAPTIVE MEDICAL INC., CA
[86] (2929702)
[87] (2929702)
[22] 2014-03-14
[62] 2,906,414
[30] US (61/801,746) 2013-03-15
[30] US (61/801,143) 2013-03-15
[30] US (61/800,155) 2013-03-15
[30] US (61/818,325) 2013-05-01
[30] US (61/818,255) 2013-05-01
[30] US (61/924,993) 2014-01-08

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[11] **2,929,971**
[13] C

[51] **Int.Cl. A61B 5/377 (2021.01) A61B 5/291 (2021.01) A61B 5/316 (2021.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **MONITORING BRAIN NEURAL POTENTIALS**

[54] **MONITORAGE DES POTENTIELS D'ACTION NEURONAUX DANS LE CERVEAU**

[72] PARKER, JOHN LOUIS, AU

[72] GMEL, GERRIT EDUARD, CH

[73] CLOSED LOOP MEDICAL PTY LTD, AU

[85] 2016-05-09

[86] 2014-11-14 (PCT/AU2014/001049)

[87] (WO2015/070281)

[30] AU (2013904434) 2013-11-15

[30] AU (2014901076) 2014-03-26

[30] AU (2014904271) 2014-10-24

[11] **2,930,010**
[13] C

[51] **Int.Cl. B65D 17/00 (2006.01)**

[25] EN

[54] **FULL APERTURE END**

[54] **EXTREMITE A PLEINE OUVERTURE**

[72] KITTLER, MICHAEL PATRICK, US

[72] CHANT, GARRY RICHARD, GB

[73] CROWN PACKAGING TECHNOLOGY, INC., US

[85] 2016-05-06

[86] 2014-11-07 (PCT/US2014/064607)

[87] (WO2015/070051)

[30] US (14/075,299) 2013-11-08

[11] **2,930,348**
[13] C

[51] **Int.Cl. A61K 31/733 (2006.01) A61K 31/702 (2006.01) A61K 31/736 (2006.01) A61K 36/48 (2006.01) A61P 1/04 (2006.01) A61P 1/12 (2006.01)**

[25] EN

[54] **NUTRITIONAL COMPOSITIONS FOR REDUCING INTESTINAL PATHOGENS**

[54] **COMPOSITIONS NUTRITIONNELLES POUR LA REDUCTION D'AGENTS PATHOGENES INTESTINAUX**

[72] KLOSTERBUER, ABBY, US

[72] ROUGHEAD, ZAMZAM KABIRY (FARIBA), US

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

[85] 2016-05-11

[86] 2014-12-19 (PCT/EP2014/078927)

[87] (WO2015/092056)

[30] US (61/918,853) 2013-12-20

[11] **2,930,445**
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01)**

[25] EN

[54] **LARGE LIQUIDITY SEEKING TRADING PLATFORM**

[54] **PLATEFORME D'ECHANGE EN QUETE DE LIQUIDITE IMPORTANTE**

[72] FARNSTROM, AMY JOY, US

[72] CRUTCHFIELD, STEVE G., US

[72] HYDE, JAMES, US

[73] NYSE GROUP, INC., US

[86] (2930445)

[87] (2930445)

[22] 2014-12-22

[62] 2,876,721

[30] US (61/922,731) 2013-12-31

[30] US (14/574,930) 2014-12-18

[11] **2,930,805**
[13] C

[51] **Int.Cl. G06F 9/30 (2018.01) G06F 21/54 (2013.01)**

[25] EN

[54] **INTERCEPTING AND SUPERVISING CALLS TO TRANSFORMED OPERATIONS AND OBJECTS**

[54] **INTERCEPTION ET SUPERVISION D'APPELS POUR DES OPERATIONS ET DES OBJETS TRANSFORMES**

[72] ZHOU, XIAOMING, US

[72] HOOVER, ROGER, US

[72] SHEKYAN, SERGEY, US

[72] CALL, JUSTIN, US

[73] SHAPE SECURITY, INC., US

[85] 2016-05-13

[86] 2015-01-20 (PCT/US2015/012072)

[87] (WO2015/109321)

[30] US (14/159,374) 2014-01-20

[11] **2,931,750**
[13] C

[51] **Int.Cl. H04L 41/50 (2022.01) G06F 21/53 (2013.01) G06F 9/455 (2018.01)**

[25] EN

[54] **CLOUD SERVICE CUSTOM EXECUTION ENVIRONMENT**

[54] **ENVIRONNEMENT D'EXECUTION PERSONNALISE DE SERVICES INFORMATIQUES EN NUAGE**

[72] KEITH, MICHAEL, CA

[72] KILGORE, WILLIAM BRUCE, US

[72] VAN DE LOO, KAJ, US

[73] ORACLE INTERNATIONAL CORPORATION, US

[85] 2016-05-26

[86] 2014-09-17 (PCT/US2014/056154)

[87] (WO2015/119659)

[30] US (61/937,316) 2014-02-07

[30] US (61/986,363) 2014-04-30

[30] US (14/489,172) 2014-09-17

**Brevets canadiens délivrés
7 mars 2023**

[11] **2,931,763**
[13] C

[51] **Int.Cl. A61L 9/03 (2006.01) A61L 9/14 (2006.01) B65D 83/16 (2006.01) H02J 7/36 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR DIFFUSING VOLATILE SUBSTANCES**

[54] **DISPOSITIF ET PROCÉDE POUR LA DIFFUSION DE SUBSTANCES VOLATILES**

[72] GARCIA FABREGA, RUBEN, ES
[72] LUQUE VERA, SERGIO, ES
[73] ZOBELE ESPANA, S.A., ES

[85] 2016-05-26
[86] 2014-10-29 (PCT/ES2014/070811)
[87] (WO2015/079084)
[30] ES (P201331728) 2013-11-27

[11] **2,932,063**
[13] C

[51] **Int.Cl. C07D 491/10 (2006.01) A61K 31/438 (2006.01) A61P 25/00 (2006.01) C07D 491/12 (2006.01) C07D 498/10 (2006.01)**

[25] EN

[54] **SPIRO-OXAZOLONES**

[54] **SPIRO-OXAZOLONES**

[72] RUNTZ-SCHMITT, VALERIE, FR
[72] SCHNIDER, PATRICK, CH
[72] DOLENTE, COSIMO, CH
[72] FASCHING, BERNHARD, CH
[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2016-05-30
[86] 2014-12-16 (PCT/EP2014/077858)
[87] (WO2015/091411)
[30] EP (13198604.4) 2013-12-19

[11] **2,932,574**
[13] C

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

[25] EN

[54] **RETENTIVE DEVICES AND SYSTEMS FOR IN-SITU RELEASE OF PHARMACEUTICAL ACTIVE AGENTS**

[54] **DISPOSITIFS ET SYSTEMES DE RETENTION POUR LA LIBERATION IN-SITU D'AGENTS PHARMACEUTIQUES ACTIFS**

[72] BETSER, NIR, IL
[72] ARTMANOV, VALERY, IL
[73] EPITOMEE MEDICAL LTD, IL

[85] 2016-06-02
[86] 2014-12-04 (PCT/IL2014/051063)
[87] (WO2015/083171)
[30] US (61/912,204) 2013-12-05

[11] **2,932,013**
[13] C

[51] **Int.Cl. A61B 1/07 (2006.01) A61B 18/22 (2006.01) G01N 21/01 (2006.01)**

[25] EN

[54] **FORWARD SCANNING-OPTICAL PROBES, CIRCULAR SCAN PATTERNS, OFFSET FIBERS**

[54] **SONDES OPTIQUES D'ANALYSE AVANT, SCHEMAS D'ANALYSE CIRCULAIRE, FIBRES DECALEES**

[72] PARTO, KAMBIZ, US
[72] WHEATLEY, BARRY L., US
[72] SCHMIDTLIN, EDOUARD, US
[72] HEEREN, TAMMO, US
[72] JOCHINSEN, MAURICIO, US
[72] YU, LINGFENG, US
[73] ALCON INC., US

[85] 2016-05-27
[86] 2014-12-05 (PCT/US2014/068912)
[87] (WO2015/094727)
[30] US (14/134,668) 2013-12-19

[11] **2,932,519**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTIBODIES AGAINST CANINE PD-1**

[54] **ANTICORPS DIRIGES CONTRE LA PD-1 CANINE**

[72] MORSEY, MOHAMAD, US
[72] ZHANG, YUANZHENG, US
[72] BARTELS-MOROZOV, DENISE, US
[72] ERSKINE, JASON, US
[72] TARPEY, IAN, GB
[73] INTERVET INTERNATIONAL B.V., NL

[85] 2016-06-02
[86] 2014-12-19 (PCT/EP2014/078655)
[87] (WO2015/091911)
[30] US (61/918,946) 2013-12-20
[30] US (61/918,847) 2013-12-20
[30] US (62/030,812) 2014-07-30

[11] **2,932,866**
[13] C

[51] **Int.Cl. C07C 219/06 (2006.01) C07D 219/06 (2006.01) C11D 1/62 (2006.01)**

[25] EN

[54] **POLYESTER POLYQUATERNARY AMMONIUM COMPOUND COLLECTORS FOR REVERSE FROTH FLOTATION OF SILICATES FROM NONSULFIDIC ORES**

[54] **COLLECTEURS DE COMPOSE POLYESTER POLYAMMONIUM QUATERNAIRE POUR LA FLOTTATION PAR MOUSSE INVERSE DES SILICATES DE MINERAIS NON SULFURES**

[72] SMOLKO-SCHVARZMAYR, NATALIJA, SE
[72] KLINGBERG, ANDERS, SE
[73] AKZO NOBEL CHEMICALS INTERNATIONAL B.V., NL

[85] 2016-06-06
[86] 2014-12-15 (PCT/EP2014/077669)
[87] (WO2015/091308)
[30] EP (13198074.0) 2013-12-18
[30] EP (13198086.4) 2013-12-18

**Canadian Patents Issued
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[11] **2,934,298**
[13] C

[51] **Int.Cl. G10L 13/08 (2013.01) G10L 13/10 (2013.01) G10L 13/02 (2013.01) G10L 19/02 (2013.01) G10L 19/06 (2013.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SYNTHESIS OF SPEECH FROM PROVIDED TEXT**

[54] **SYSTEME ET PROCEDE POUR LA SYNTHESE DE LA PAROLE A PARTIR DE TEXTE FOURNI**

[72] TAN, YINGYI, US

[72] GANAPATHIRAJU, ARAVIND, IN

[72] WYSS, FELIX IMMANUEL, US

[73] INTERACTIVE INTELLIGENCE GROUP, INC., US

[85] 2016-06-16

[86] 2015-01-14 (PCT/US2015/011348)

[87] (WO2015/108935)

[30] US (61/927,152) 2014-01-14

[11] **2,936,012**
[13] C

[51] **Int.Cl. C07D 311/58 (2006.01) A61K 31/353 (2006.01) A61P 35/00 (2006.01) C07D 311/16 (2006.01) C07D 407/04 (2006.01)**

[25] EN

[54] **FUNCTIONALISED BENZOPYRAN COMPOUNDS AND USE THEREOF**

[54] **COMPOSES DE BENZOPYRANE FONCTIONNALISES ET LEUR UTILISATION**

[72] HEATON, ANDREW, US

[72] BROWN, DAVID, AU

[72] KELLY, GRAHAM, AU

[73] KAZIA THERAPEUTICS LIMITED, AU

[85] 2016-07-06

[86] 2015-02-05 (PCT/AU2015/050040)

[87] (WO2015/117202)

[30] US (61/937,368) 2014-02-07

[30] US (61/987,323) 2014-05-01

[11] **2,936,711**
[13] C

[51] **Int.Cl. C07F 9/24 (2006.01)**

[25] EN

[54] **PREPARATION OF PURIFIED PHOSPHORODIAMIDITE**

[54] **PREPARATION DE PHOSPHORODIAMIDITE PURIFIE**

[72] GARY, WOODWARD, GB

[73] RHODIA OPERATIONS, FR

[85] 2016-07-13

[86] 2015-01-15 (PCT/EP2015/050669)

[87] (WO2015/107110)

[30] US (61/927,517) 2014-01-15

[11] **2,937,236**
[13] C

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **DISEASE THERAPY BY INDUCING IMMUNE RESPONSE TO TROP-2 EXPRESSING CELLS**

[54] **TRAITEMENT D'UNE MALADIE PAR INDUCTION D'UNE REPONSE IMMUNE A DES CELLULES EXPRIMANT LE TROP-2**

[72] CHANG, CHIEN-HSING, US

[72] GOLDENBERG, DAVID M., US

[72] ROSSI, EDMUND A., US

[72] ROSSI, DIANE, US

[73] IBC PHARMACEUTICALS, INC., US

[85] 2016-07-18

[86] 2015-01-20 (PCT/US2015/012010)

[87] (WO2015/126548)

[30] US (61/942,752) 2014-02-21

[30] US (62/049,826) 2014-09-12

[11] **2,937,715**
[13] C

[51] **Int.Cl. E21B 43/08 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN AND RELATING TO SCREENS**

[54] **PERFECTIONNEMENTS APORTES ET SE RAPPORTANT A DES CRIBLES**

[72] REID, STEPHEN, GB

[72] MCGEOCH, ANDREW, GB

[72] MANNING, MATTHEW, GB

[72] PURKIS, DANIEL GEORGE, GB

[73] WEATHERFORD U.K. LIMITED, GB

[85] 2016-07-22

[86] 2015-01-21 (PCT/GB2015/050133)

[87] (WO2015/110807)

[30] GB (1401066.4) 2014-01-22

[11] **2,938,217**
[13] C

[51] **Int.Cl. A61K 31/541 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 31/437 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS FOR THE TREATMENT OF INFLAMMATORY DISORDERS**

[54] **COMPOSITIONS PHARMACEUTIQUES DESTINEES AU TRAITEMENT DES TROUBLES INFLAMMATOIRES**

[72] DE WEER, MARC MAURICE GERMAIN, BE

[72] VRIELYNCK, SARA BERTHA CAMIEL, BE

[72] SABOURAULT, NICOLAS LUC, FR

[72] MOESCHWITZER, JAN PETER, DE

[73] GALAPAGOS NV, BE

[85] 2016-07-28

[86] 2015-02-04 (PCT/EP2015/052239)

[87] (WO2015/117980)

[30] GB (1402070.5) 2014-02-07

**Brevets canadiens délivrés
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[11] **2,938,311**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **DIHYDROPYRROLOPYRIDINE INHIBITORS OF ROR-GAMMA**

[54] **INHIBITEURS DE ROR-GAMMA A BASE DE DIHYDROPYRROLOPYRIDINE**

[72] CLAREMON, DAVID A., US

[72] DILLARD, LAWRENCE WAYNE, US

[72] DONG, CHENGGUO, US

[72] FAN, YI, US

[72] JIA, LANQI, US

[72] LIU, ZHIJIE, US

[72] LOTESTA, STEPHEN D., US

[72] MARCUS, ANDREW, US

[72] SINGH, SURESH B., US

[72] TICE, COLIN M., US

[72] YUAN, JING, US

[72] ZHAO, WEI, US

[72] ZHENG, YAJUN, US

[72] ZHUANG, LINGHANG, US

[73] VITAE PHARMACEUTICALS, LLC, US

[85] 2016-07-28

[86] 2015-01-30 (PCT/US2015/013699)

[87] (WO2015/116904)

[30] US (61/935,162) 2014-02-03

[30] US (61/970,637) 2014-03-26

[11] **2,938,354**
[13] C

[51] **Int.Cl. H04L 12/22 (2006.01) H04L 67/02 (2022.01) H04L 69/22 (2022.01)**

[25] EN

[54] **BI-DIRECTIONAL DATA SECURITY FOR SUPERVISOR CONTROL AND DATA ACQUISITION NETWORKS**

[54] **SECURITE BIDIRECTIONNELLE DE DONNEES POUR RESEAUX DE TELESURVEILLANCE ET D'ACQUISITION DE DONNEES**

[72] FISCHER, PETER, US

[72] FELDKAMP, ANDREW, US

[72] RODRIGUEZ, NELSON, US

[72] EDWARDS, JOSHUA, US

[73] SIERRA NEVADA CORPORATION, US

[85] 2016-07-28

[86] 2015-01-13 (PCT/US2015/011249)

[87] (WO2015/116379)

[30] US (14/168,283) 2014-01-30

[11] **2,938,532**
[13] C

[51] **Int.Cl. C05C 9/00 (2006.01) A01N 25/00 (2006.01) C05C 3/00 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING SOLID FERTILIZER**

[54] **PROCEDES PERMETTANT LE TRAITEMENT D'ENGRAIS SOLIDE**

[72] HAYES, PAUL, US

[73] AGXPLORE INTERNATIONAL, US

[85] 2016-08-02

[86] 2014-11-14 (PCT/US2014/065731)

[87] (WO2015/116301)

[30] US (61/935,299) 2014-02-03

[11] **2,938,818**
[13] C

[51] **Int.Cl. A61K 31/497 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING DIAMINO HETEROCYCLIC CARBOXAMIDE COMPOUND AS ACTIVE INGREDIENT**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN COMPOSE CARBOXAMIDE HETEROCYCLIQUE DIAMINE EN TANT QUE PRINCIPE ACTIF**

[72] EGUCHI, TOMOHIRO, JP

[72] MORI, MASAMICHI, JP

[72] YAMAKI, YOKO, JP

[73] ASTELLAS PHARMA INC., JP

[85] 2016-08-04

[86] 2015-02-03 (PCT/JP2015/053018)

[87] (WO2015/119122)

[30] JP (2014-019226) 2014-02-04

[11] **2,939,186**
[13] C

[51] **Int.Cl. A61K 31/5395 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **SALTS AND SOLID FORM OF A BTK INHIBITOR**

[54] **SELS ET FORME SOLIDE D'UN INHIBITEUR DE BTK**

[72] MASJEDIZADEH, MOHAMMAD REZA, US

[72] GOURLAY, STEVEN, US

[73] PRINCIPIA BIOPHARMA INC., US

[85] 2016-08-09

[86] 2015-02-20 (PCT/US2015/016963)

[87] (WO2015/127310)

[30] US (61/943,262) 2014-02-21

[30] US (61/946,480) 2014-02-28

[30] US (62/096,468) 2014-12-23

[11] **2,939,674**
[13] C

[51] **Int.Cl. C03B 5/225 (2006.01) C03C 3/06 (2006.01) C03C 4/02 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING RED GLASS VESSELS**

[54] **PROCEDE DE FABRICATION DE RECIPIENTS EN VERRE ROUGES**

[72] ZIMMERMANN, HARALD, DE

[72] AL HAMDAN, KHALED, DE

[73] SAINT-GOBAIN OBERLAND AG, DE

[85] 2016-08-15

[86] 2015-02-26 (PCT/EP2015/000456)

[87] (WO2015/144283)

[30] DE (10 2014 004 332.0) 2014-03-26

[11] **2,940,186**
[13] C

[51] **Int.Cl. G06K 19/077 (2006.01)**

[25] EN

[54] **CARD HAVING AN ELECTRONIC COMPONENT DISPOSED IN AN EMBOSING REGION AND CORRESPONDING METHOD OF MANUFACTURE**

[54] **CARTE COMPORTANT UN COMPOSANT ELECTRONIQUE PLACE DANS UNE REGION DE BOSSELAGE ET METHODE DE FABRICATION CONNEXE**

[72] PAVAGEAU, STEPHANE, FR

[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR

[86] (2940186)

[87] (2940186)

[22] 2016-08-26

[30] FR (1557984) 2015-08-27

**Canadian Patents Issued
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[11] **2,940,196**
[13] C

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **IMMUNOGENETIC RESTRICTION ON ELICITATION OF ANTIBODIES**
[54] **RESTRICTION IMMUNOGENETIQUE SUR L'ELICITATION DES ANTICORPS**
[72] MARASCO, WAYNE, US
[72] AVNIR, YUVAL, US
[73] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2016-08-18
[86] 2015-03-19 (PCT/US2015/021529)
[87] (WO2015/143194)
[30] US (61/955,678) 2014-03-19
[30] US (61/974,297) 2014-04-02

[11] **2,941,090**
[13] C

[51] **Int.Cl. A61K 6/889 (2020.01) A61K 6/15 (2020.01)**
[25] EN
[54] **MONOMER MIXTURE FOR THE PREPARATION OF DENTAL MATERIALS**
[54] **MELANGE DE MONOMERES POUR LA PREPARATION DE MATERIAUX DENTAIRES**
[72] MOSZNER, NORBERT, LI
[72] BURTSCHER, PETER, AT
[72] GIANASMIDIS, ALEXANDROS, CH
[73] IVOCLAR VIVADENT AG, LI
[85] 2016-08-29
[86] 2015-02-26 (PCT/EP2015/000449)
[87] (WO2015/139811)
[30] EP (14160841.4) 2014-03-20

[11] **2,941,535**
[13] C

[51] **Int.Cl. A61B 3/16 (2006.01) A61B 5/00 (2006.01) A61B 5/022 (2006.01) A61B 5/03 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING INTRACRANIAL PRESSURE**
[54] **PROCEDE ET SYSTEME POUR DETERMINER LA PRESSION INTRACRANIENNE**
[72] YU, DAO-YI, AU
[72] MORGAN, WILLIAM, AU
[73] LIONS EYE INSTITUTE LIMITED, AU
[85] 2016-09-02
[86] 2015-03-06 (PCT/AU2015/000127)
[87] (WO2015/131236)
[30] AU (2014900767) 2014-03-07

[11] **2,940,237**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01)**
[25] EN
[54] **ANTIMITOTIC AMIDES FOR THE TREATMENT OF CANCER AND PROLIFERATIVE DISORDERS**
[54] **AMIDES ANTIMITOTIQUES DESTINES AU TRAITEMENT DU CANCER ET DE TROUBLES PROLIFERATIFS**
[72] SIDDIQUI-JAIN, ADAM, US
[73] FROST BIOLOGIC, INC., US
[85] 2016-08-19
[86] 2015-02-20 (PCT/US2015/016928)
[87] (WO2015/127284)
[30] US (61/942,956) 2014-02-21

[11] **2,941,493**
[13] C

[51] **Int.Cl. G08B 13/196 (2006.01)**
[25] EN
[54] **INTRUSION DETECTION WITH DIRECTIONAL SENSING**
[54] **DETECTION D'INTRUSION AU MOYEN D'UNE DETECTION DIRECTIONNELLE**
[72] NAYLOR, MATTHEW, AU
[72] TILKIN, JORG, BE
[72] MAELBRANCKE, GERDY, BE
[72] CORNEZ, PHILIPPE, BE
[72] DE LELLIS, DOMENICO, BE
[72] ROELS, LUC, BE
[72] PIGNATTA, PHILIPPE, BE
[72] BAS, ALI, BE
[72] PALFI, ENIKO, BE
[73] VSK ELECTRONICS NV, BE
[85] 2016-09-02
[86] 2015-03-03 (PCT/EP2015/054445)
[87] (WO2015/132271)
[30] US (61/947,335) 2014-03-03
[30] AU (2014901121) 2014-03-28

[11] **2,941,658**
[13] C

[51] **Int.Cl. H04W 8/12 (2009.01) H04W 8/04 (2009.01) H04W 8/06 (2009.01) H04W 84/04 (2009.01) H04W 4/30 (2018.01) H04W 76/14 (2018.01)**
[25] EN
[54] **CELL TOWER FUNCTIONALITY WITH SATELLITE ACCESS TO ALLOW A CELL DEVICE TO ROAM ON A SATELLITE NETWORK**
[54] **FONCTIONNALITE DE TOUR DE TELEPHONIE CELLULAIRE DOTEES D'UN ACCES SATELLITE AFIN DE PERMETTRE A UN DISPOSITIF CELLULAIRE DE SE DEPLACER SUR UN RESEAU SATELLITE**
[72] CROWLEY, JOSEPH, US
[72] BLANCHARD, ERIC, US
[72] MONTE, PAUL A., US
[72] AMRAN, PRIHAMDHANI, US
[73] GLOBALSTAR, INC., US
[85] 2016-09-02
[86] 2015-03-06 (PCT/US2015/019182)
[87] (WO2015/134875)
[30] US (61/949,588) 2014-03-07

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[11] **2,941,807**
[13] C

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/497 (2006.01) A61P 11/00 (2006.01) C07D 241/28 (2006.01)**

[25] EN

[54] **3,4-DIAMINO-6-CHLORPYRAZINE-2-CARBOXAMIDE DERIVATIVES FOR THE TREATMENT OF ENAC MEDIATED DISEASES**

[54] **DERIVES DE 3,4-DIAMINO-6-CHLORPYRAZINE-2-CARBOXAMIDE POUR LE TRAITEMENT DE MALADIES ASSOCIEES A BETA-ENAC**

[72] BERGLUND, SUSANNE
ELISABETH, SE

[72] CONNOLLY, STEPHEN, GB

[72] HEMMERLING, MARTIN, SE

[72] HOSSAIN, NAFIZAL, SE

[72] KRISTOFFERSSON, ANNA, GB

[72] LUNDKVIST, JOHAN RUNE
MICHAEL, GB

[72] NIKITIDIS, GRIGORIOS, SE

[72] RIPA, LENA ELISABETH, SE

[72] SHAMOVSKY, IGOR, SE

[73] ASTRAZENECA AB, SE

[85] 2016-09-07

[86] 2015-03-17 (PCT/GB2015/050765)

[87] (WO2015/140527)

[30] US (61/954,674) 2014-03-18

[11] **2,941,969**
[13] C

[51] **Int.Cl. E05B 65/52 (2006.01) E02D 29/14 (2006.01) H02G 3/08 (2006.01)**

[25] EN

[54] **ANTI-THEFT UTILITY ENCLOSURE**

[54] **COFFRET POUR MATERIEL TECHNIQUE ANTI-VOL**

[72] TIPTON, WILEY RICK, US

[72] POLK, JOHN THOMAS, US

[72] ISAACSON, GREG GLENN, US

[72] FISHER, MICHAEL EDWARD, US

[72] TRAMM, PAUL STEVEN, US

[73] HUBBELL INCORPORATED, US

[85] 2016-09-07

[86] 2015-03-12 (PCT/US2015/020219)

[87] (WO2015/138749)

[30] US (61/952,558) 2014-03-13

[30] US (62/044,800) 2014-09-02

[30] US (14/645,676) 2015-03-12

[11] **2,942,018**
[13] C

[51] **Int.Cl. A61L 2/28 (2006.01) A61L 2/04 (2006.01) A61L 2/07 (2006.01) G01N 21/61 (2006.01) G01N 29/024 (2006.01)**

[25] EN

[54] **STERILIZATION CONTAINER WITH BATTERY POWERED SENSOR MODULE FOR MONITORING THE ENVIRONMENT IN THE CONTAINER**

[54] **RECIPIENT DE STERILISATION EQUIPE D'UN MODULE DE CAPTEUR ALIMENTE PAR UNE BATTERIE PERMETTANT DE SURVEILLER LE MILIEU PRESENT DANS LE RECIPIENT**

[72] CHILDERS, ROBERT WARREN, US

[72] HENNIGES, BRUCE, US

[72] HASSLER, WILLIAM L., US

[72] BLANDINO, TOM, US

[72] JENG, DAVID, US

[72] MORRIS, RICHARD FRANKLIN, US

[73] STRYKER CORPORATION, US

[85] 2016-09-08

[86] 2015-03-10 (PCT/US2015/019724)

[87] (WO2015/138461)

[30] US (61/951,178) 2014-03-11

[11] **2,942,213**
[13] C

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **INTRAOCULAR LENS THAT IMPROVES OVERALL VISION WHERE THERE IS A LOCAL LOSS OF RETINAL FUNCTION**

[54] **LENTILLE INTRA-OCULAIRE AMELIORANT LA VISION GLOBALE EN CAS DE PERTE LOCALISEE DE LA FONCTION RETINIENNE**

[72] ROSEN, ROBERT, NL

[72] WEEBER, HENDRIK A., NL

[72] CANOVAS VIDAL, CARMEN, NL

[72] VAN DER MOOREN, MARRIE, NL

[72] SELLITRI, DORA, NL

[73] AMO GRONINGEN B.V., NL

[85] 2016-09-09

[86] 2015-03-10 (PCT/IB2015/001244)

[87] (WO2015/150925)

[30] US (61/950,757) 2014-03-10

[30] US (61/987,647) 2014-05-02

[11] **2,942,459**
[13] C

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 35/17 (2015.01) A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 7/06 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12Q 1/02 (2006.01)**

[25] EN

[54] **CLAUDIN-6-SPECIFIC IMMUNORECEPTORS AND T CELL EPITOPES**

[54] **IMMUNORECEPTEURS ET EPITOPES DE LYMPHOCYTES T SPECIFIQUES DE LA CLAUDINE-6**

[72] SAHIN, UGUR, DE

[72] TURECI, OZLEM, DE

[72] SIMON, PETRA, DE

[72] OMOKOKO, TANA, DE

[72] HOFF, HOLGER, DE

[72] VOSS, RALF-HOLGER, DE

[72] BREITKREUZ, ANDREA, DE

[72] HOBOHM, KATHLEEN, DE

[72] MROZ, KAROLINA ANNA, DE

[73] BIONTECH CELL & GENE THERAPIES GMBH, DE

[73] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZEN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE

[73] GANYMED PHARMACEUTICALS AG, DE

[85] 2016-09-12

[86] 2015-03-30 (PCT/EP2015/056899)

[87] (WO2015/150327)

[30] EP (PCT/EP2014/000868) 2014-04-01

[30] EP (PCT/EP2014/072864) 2014-10-24

[11] **2,942,489**
[13] C

[51] **Int.Cl. B23D 61/02 (2006.01) B23D 65/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS OF PRODUCING A PLANAR MEMBER FROM SECTIONS**

[54] **APPAREIL ET PROCEDES DE PRODUCTION D'UN ELEMENT PLAN A PARTIR DE SECTIONS**

[72] BARATTA, ANTHONY, US

[73] BARON INVESTMENTS LLC, US

[85] 2016-09-12

[86] 2015-03-10 (PCT/US2015/019787)

[87] (WO2015/138509)

[30] US (61/951,519) 2014-03-11

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[11] **2,942,692**
[13] C

[51] **Int.Cl. B65D 65/40 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **PACKAGING FILM**
[54] **FEUILLE D'EMBALLAGE**
[72] SEBALD, INGRID, DE
[72] SCHMIDT, WERNER, DE
[72] GRIMM, FELIX, DE
[73] LOPAREX GERMANY GMBH & CO. KG, DE
[85] 2016-09-14
[86] 2015-03-19 (PCT/EP2015/000610)
[87] (WO2015/139843)
[30] DE (10 2014 004 042.9) 2014-03-21
[30] DE (10 2014 010 691.8) 2014-03-21
[30] DE (10 2014 010 986.0) 2014-07-29

[11] **2,943,225**
[13] C

[51] **Int.Cl. C08F 212/32 (2006.01) C08L 23/08 (2006.01) C08L 33/08 (2006.01) C08L 101/04 (2006.01)**
[25] EN
[54] **TRI-SUBSTITUTED AROMATIC-CONTAINING MONOMERS, COPOLYMERS AND METHODS FOR USE**
[54] **MONOMERES TRISUBSTITUES CONTENANT DES AROMATIQUES, COPOLYMERES ET PROCEDES D'UTILISATION ASSOCIES**
[72] ANDERSON, EUGENE J., US
[72] PAKENHAM, DEREK, US
[72] MARTINEZ-CASTRO, NEMESHIO, US
[72] RUIZ, JOSE P., US
[72] RHODES, MICHAEL, US
[73] RHODIA OPERATIONS, FR
[85] 2016-09-19
[86] 2015-03-18 (PCT/US2015/021276)
[87] (WO2015/143049)
[30] US (61/954,852) 2014-03-18
[30] US (61/954,857) 2014-03-18

[11] **2,943,419**
[13] C

[51] **Int.Cl. H01M 10/44 (2006.01) H01M 4/134 (2010.01) H01M 10/052 (2010.01)**
[25] FR
[54] **METHOD FOR THE ELECTROCHEMICAL CHARGING/DISCHARGING OF A LITHIUM-SULPHUR (LI-S) BATTERY AND DEVICE USING SAID METHOD**
[54] **PROCEDE DE CHARGE / DECHARGE ELECTROCHIMIQUE D'UNE BATTERIE LITHIUM-SOUFRE (LI-S) ET DISPOSITIF DE MISE EN OEUVRE DUDIT PROCEDE**
[72] CHO, MYUNGHUN, CA
[72] GUERFI, ABDELBAST, CA
[72] KIM, CHISU, CA
[72] ZAGHIB, KARIM, CA
[73] HYDRO-QUEBEC, CA
[85] 2016-09-21
[86] 2015-04-14 (PCT/CA2015/050306)
[87] (WO2015/157859)
[30] US (61/979,823) 2014-04-15

[11] **2,943,598**
[13] C

[51] **Int.Cl. A61K 31/397 (2006.01) A61P 21/00 (2006.01) A61P 25/28 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **S1P MODULATOR IMMEDIATE RELEASE DOSAGE REGIMEN**
[54] **REGIME POSOLOGIQUE DE MODULATEUR S1P A LIBERATION IMMEDIATE**
[72] LEGANGNEUX, ERIC, CH
[72] WALLSTROEM, ERIK, CH
[72] BOUILLOT, PHILIPPE MICHAEL RENE, CH
[72] REYNAUD, EMERIC, CH
[72] DAHLKE, FRANK, CH
[73] NOVARTIS AG, CH
[85] 2016-09-22
[86] 2015-04-08 (PCT/IB2015/052550)
[87] (WO2015/155709)
[30] US (61/977,816) 2014-04-10

[11] **2,945,280**
[13] C

[51] **Int.Cl. H04S 3/00 (2006.01) H04S 5/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RENDERING SOUND SIGNAL, AND COMPUTER-READABLE RECORDING MEDIUM**
[54] **PROCEDE ET APPAREIL PERMETTANT DE REPRESENTER UN SIGNAL SONORE, ET SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR**
[72] CHON, SANG-BAE, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[85] 2016-10-07
[86] 2015-04-13 (PCT/KR2015/003680)
[87] (WO2015/156654)
[30] US (61/978,279) 2014-04-11

[11] **2,945,494**
[13] C

[51] **Int.Cl. F16B 35/04 (2006.01) F16B 25/00 (2006.01) F16B 35/06 (2006.01) E04D 3/36 (2006.01) F16B 43/00 (2006.01)**
[25] EN
[54] **METAL TO METAL FASTENER**
[54] **ELEMENT DE FIXATION METAL SUR METAL**
[72] TAPATA, NEELIMA, US
[73] SIMPSON STRONG-TIE COMPANY, INC., US
[85] 2016-10-11
[86] 2015-04-08 (PCT/US2015/024872)
[87] (WO2015/157387)
[30] US (14/249,943) 2014-04-10

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7 mars 2023**

[11] **2,945,600**
[13] C

[51] **Int.Cl. A61M 25/06 (2006.01) A61M 5/00 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **MULTI-USE BLOOD CONTROL SAFETY CATHETER ASSEMBLY**
[54] **ENSEMBLE DE CATHETER DE SECURITE POUR COMMANDE DE SANG MULTI-USAGE**
[72] HARDING, WESTON, US
[72] BURKHOLZ, JON, US
[72] LIU, HUIBIN, US
[72] CLUFF, KEN, US
[72] TRAINER, LAWRENCE, US
[72] BORNHOFT, STEPHEN, US
[72] MA, YIPING, US
[72] WHITAKER, WESTON, US
[72] SONDEREGGER, RALPH, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2016-10-12
[86] 2015-04-17 (PCT/US2015/026534)
[87] (WO2015/161294)
[30] US (61/981,223) 2014-04-18
[30] US (61/981,312) 2014-04-18
[30] US (62/077,760) 2014-11-10

[11] **2,946,334**
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) A23K 10/30 (2016.01) A23D 9/00 (2006.01) C12N 5/04 (2006.01) C12N 9/10 (2006.01) C12N 15/54 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS HAVING INCREASED TOLERANCE TO HERBICIDES**
[54] **PLANTES PRESENTANT UNE TOLERANCE ACCRUE AUX HERBICIDES**
[72] TRESCH, STEFAN, DE
[72] SCHACHTSCHABEL, DOREEN, DE
[72] SISAY, MIHIRET TEKESTE, DE
[72] LERCHL, JENS, DE
[72] MAJOR, JULIA, DE
[72] VOGT, FLORIAN, DE
[72] CALO, FREDERICK, DE
[72] PAULIK, JILL MARIE, US
[73] BASF SE, DE
[85] 2016-10-19
[86] 2015-04-22 (PCT/EP2015/058633)
[87] (WO2015/162143)
[30] US (61/982,893) 2014-04-23
[30] US (61/982,895) 2014-04-23
[30] US (61/982,894) 2014-04-23
[30] US (61/982,897) 2014-04-23
[30] US (61/982,896) 2014-04-23
[30] US (61/982,903) 2014-04-23
[30] US (61/982,898) 2014-04-23
[30] US (61/982,899) 2014-04-23
[30] US (61/982,901) 2014-04-23
[30] US (61/982,904) 2014-04-23
[30] US (61/982,900) 2014-04-23

[11] **2,946,351**
[13] C

[51] **Int.Cl. A23G 9/28 (2006.01) A23G 9/08 (2006.01) A23G 9/12 (2006.01) A23G 9/22 (2006.01)**
[25] EN
[54] **HELICAL MOVEMENT DEVICE**
[54] **DISPOSITIF GENERATEUR DE MOUVEMENT HELICOIDAL**
[72] BARNIOL GUTIERREZ, ALINA MARIA, FR
[72] BACCUS, DOMINIQUE, FR
[72] ESPERSEN, LARS LYKKE, FR
[72] KOWALSKI, THIERRY, FR
[72] KOPEREK, RAFAL, FR
[72] GOURMAUD, ADRIEN, FR
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2016-10-19
[86] 2015-05-13 (PCT/EP2015/060538)
[87] (WO2015/177008)
[30] EP (14169522.1) 2014-05-22

[11] **2,946,494**
[13] C

[51] **Int.Cl. D21H 17/70 (2006.01) C08K 9/02 (2006.01) D21H 13/12 (2006.01) D21H 17/33 (2006.01) D21H 17/67 (2006.01)**
[25] EN
[54] **A METHOD OF MAKING A THERMOPLASTIC FIBER COMPOSITE MATERIAL AND WEB**
[54] **PROCEDE DE FABRICATION DE BANDE ET DE MATERIAU COMPOSITE DE FIBRE THERMOPLASTIQUE**
[72] BACKFOLK, KAJ, FI
[73] STORA ENSO OYJ, FI
[85] 2016-10-20
[86] 2015-05-06 (PCT/IB2015/053297)
[87] (WO2015/170262)
[30] SE (1400228-1) 2014-05-08

[11] **2,946,867**
[13] C

[51] **Int.Cl. C07H 19/06 (2006.01) A61K 31/7068 (2006.01) A61K 31/7076 (2006.01) A61P 31/12 (2006.01) A61P 31/16 (2006.01) A61P 35/00 (2006.01) C07H 19/16 (2006.01)**
[25] EN
[54] **2'-DISUBSTITUTED NUCLEOSIDE ANALOGS FOR TREATMENT OF THE FLAVIVIRIDAE FAMILY OF VIRUSES AND CANCER**
[54] **ANALOGUES DE NUCLEOSIDES DISUBSTITUES EN 2' POUR LE TRAITEMENT DES VIRUS DE LA FAMILLE DES FLAVIVIRIDAE ET DU CANCER**
[72] COATS, STEVEN J., US
[72] ZHOU, SHAOMAN, US
[72] AMBLARD, FRANCK, US
[72] SCHINAZI, RAYMOND F., US
[72] KHALIL, AHMED, US
[73] COCRYSTAL PHARMA, INC., US
[73] EMORY UNIVERSITY, US
[85] 2016-10-24
[86] 2015-04-24 (PCT/US2015/027630)
[87] (WO2015/164812)
[30] US (61/984,036) 2014-04-24

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[11] **2,946,893**
[13] C

[51] **Int.Cl. B05C 17/02 (2006.01)**
[25] EN
[54] **PAINT ROLLER SKIN CLEANER**
[54] **DISPOSITIF DE NETTOYAGE DE**
SURFACE EXTERNE DE
MANCHON DE ROULEAU A
PEINDRE

[72] EGAN, PATRICK L., US
[73] PAMRICK ENTERPRISES, LLC, US
[85] 2016-10-24
[86] 2015-05-08 (PCT/US2015/029862)
[87] (WO2015/172005)
[30] US (14/272,887) 2014-05-08

[11] **2,947,573**
[13] C

[51] **Int.Cl. A61M 16/06 (2006.01)**
[25] EN
[54] **CUSTOMIZABLE RESPIRATORY**
MASK
[54] **MASQUE RESPIRATOIRE**
PERSONNALISABLE

[72] SCHEIRLINCK, ERIK ROBERTUS,
NZ
[72] SMITH, DANIEL JOHN, NZ
[73] FISHER & PAYKEL HEALTHCARE
LIMITED, NZ
[85] 2016-10-31
[86] 2015-05-08 (PCT/NZ2015/050051)
[87] (WO2015/170997)
[30] US (61/991,373) 2014-05-09
[30] US (62/117,370) 2015-02-17

[11] **2,947,716**
[13] C

[51] **Int.Cl. C08L 67/02 (2006.01) B32B**
27/36 (2006.01)
[25] EN
[54] **TRANSESTERIFIED FURAN**
BASED POLYESTERS AND
ARTICLES MADE THEREFROM
[54] **POLYESTERS A BASE DE**
FURANE TRANSESTERIFIE ET
ARTICLES COMPOSES DE CES
DERNIERS

[72] BRUN, YEFIM, US
[72] CASTAGNA, ALICIA MARIE, US
[72] LIAO, KEN-HSUAN, US
[72] NEDERBERG, FREDRIK, SE
[72] FORRESTER MCCORD,
ELIZABETH, US
[72] RASMUSSEN, CHRISTOPHER
JOHN, US
[73] E. I. DU PONT DE NEMOURS AND
COMPANY, US
[85] 2016-11-01
[86] 2015-05-01 (PCT/US2015/028807)
[87] (WO2015/168563)
[30] US (61/987,031) 2014-05-01

[11] **2,947,979**
[13] C

[51] **Int.Cl. D04B 1/16 (2006.01)**
[25] EN
[54] **FLAME RESISTANT FABRIC**
HAVING WOOL BLENDS
[54] **TEXTILE RESISTANT A LA**
FLAMME COMPORTANT DES
MELANGES DE LAINES

[72] STANHOPE, MICHAEL T., US
[72] DUNN, CHARLES S., US
[73] SOUTHERN MILLS, INC., US
[85] 2016-11-03
[86] 2015-05-08 (PCT/US2015/029839)
[87] (WO2015/171990)
[30] US (61/990,430) 2014-05-08

[11] **2,948,408**
[13] C

[51] **Int.Cl. G07C 15/00 (2006.01) B82Y**
10/00 (2011.01)
[25] EN
[54] **METHOD FOR GENERATING**
RANDOM NUMBERS AND
ASSOCIATED RANDOM NUMBER
GENERATOR
[54] **PROCEDE DE GENERATION DE**
NOMBRES ALEATOIRES ET
GENERATEUR DE NOMBRES
ALEATOIRES ASSOCIE

[72] REULET, BERTRAND, CA
[73] QUANTUM NUMBERS CORP., CA
[85] 2016-11-08
[86] 2015-05-08 (PCT/CA2015/050408)
[87] (WO2015/168798)
[30] US (61/990,751) 2014-05-09

[11] **2,948,578**
[13] C

[51] **Int.Cl. B26D 1/547 (2006.01) B26B**
27/00 (2006.01) B26D 5/08 (2006.01)
[25] EN
[54] **GLAZING PANEL REMOVAL**
[54] **RETRAIT DE PANNEAU DE**
VITRAGE

[72] FINCK, WILLIAM, GB
[73] BELRON INTERNATIONAL
LIMITED, GB
[85] 2016-11-09
[86] 2015-05-20 (PCT/EP2015/061093)
[87] (WO2015/177201)
[30] GB (1408938.7) 2014-05-20

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[11] **2,949,081**
[13] C

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 37/06 (2006.01) C07K 14/54 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING AUTOIMMUNE AND INFLAMMATORY CONDITIONS**

[54] **METHODS ET COMPOSITIONS DE TRAITEMENT DE MALADIES AUTO-IMMUNES ET INFLAMMATOIRES**

[72] OH, SANGKON, US

[72] ZURAWSKI, SANDRA, US

[72] JOO, HYEMEE, US

[72] ZURAWSKI, GERARD, US

[73] BAYLOR RESEARCH INSTITUTE, US

[85] 2016-11-14

[86] 2015-05-15 (PCT/US2015/031117)

[87] (WO2015/175957)

[30] US (61/994,239) 2014-05-16

[30] US (62/014,504) 2014-06-19

[11] **2,949,513**
[13] C

[51] **Int.Cl. A47C 19/02 (2006.01) F16B 12/54 (2006.01)**

[25] EN

[54] **THREE DIMENSIONAL CONNECTION SYSTEM FOR BED FRAME**

[54] **SYSTEME DE RACCORDEMENT EN TROIS DIMENSIONS POUR CADRE DE LIT**

[72] POLEVOY, RICHARD S., US

[72] CARLSON, PAUL ERIC, US

[72] KONIECZNY, MICHAEL W., US

[72] NAAS, ROBERT L., US

[73] FINGER LAKES INTELLECTUAL PROPERTY, LLC, US

[85] 2016-11-17

[86] 2015-05-19 (PCT/US2015/031498)

[87] (WO2015/179350)

[30] US (62/000,754) 2014-05-20

[11] **2,949,704**
[13] C

[51] **Int.Cl. H04N 21/2668 (2011.01) H04N 21/41 (2011.01) H04N 21/436 (2011.01)**

[25] EN

[54] **TARGETED ADVERTISING BASED ON USER PRODUCT INFORMATION**

[54] **PUBLICITE CIBLEE BASEE SUR DES INFORMATIONS RELATIVES A UN PRODUIT D'UTILISATEUR**

[72] HENSGEN, DEBRA, US

[72] BURCKARD, ANTOINE, US

[73] OPENTV, INC., US

[85] 2016-11-18

[86] 2015-05-21 (PCT/US2015/032056)

[87] (WO2015/179699)

[30] US (14/285,429) 2014-05-22

[11] **2,949,725**
[13] C

[51] **Int.Cl. C07K 16/46 (2006.01) C40B 30/04 (2006.01) G01N 33/53 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **NEW BISPECIFIC FORMAT SUITABLE FOR USE IN HIGH-THROUGH-PUT SCREENING**

[54] **NOUVEAU FORMAT BISPECIFIQUE ADAPTE POUR ETRE UTILISE DANS LE CRIBLAGE A HAUT DEBIT**

[72] FINNEY, HELENE MARGARET, GB

[72] RAPECKI, STEPHEN EDWARD, GB

[72] WRIGHT, MICHAEL JOHN, GB

[73] UCB BIOPHARMA SRL, BE

[85] 2016-11-21

[86] 2015-05-28 (PCT/EP2015/061819)

[87] (WO2015/181282)

[30] GB (1409558.2) 2014-05-29

[11] **2,949,921**
[13] C

[51] **Int.Cl. B67D 1/14 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSING ASSEMBLY WITH FLEXIBLE VALVE**

[54] **ENSEMBLE DE DISTRIBUTION DE BOISSON AYANT UNE VALVE SOUPLE**

[72] RASMUSSEN, JAN NORAGER, DK

[72] VESBORG, STEEN, DK

[73] CARLSBERG BREWERIES A/S, DK

[85] 2016-11-22

[86] 2015-05-22 (PCT/EP2015/061352)

[87] (WO2015/177328)

[30] EP (14169623.7) 2014-05-23

[11] **2,950,149**
[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61M 25/04 (2006.01)**

[25] EN

[54] **STRETCH VALVE BALLOON CATHETER AND METHODS FOR PRODUCING AND USING SAME**

[54] **CATHETER A BALLONNET A VANNE D'ETIREMENT ET SES PROCEDES DE PRODUCTION ET D'UTILISATION**

[72] PINCHUK, LEONARD, US

[72] KALSER, GARY A., US

[72] MAYBACK, GREGORY L., US

[72] LEONE, JAMES, US

[73] MAYSER, LLC, US

[85] 2016-11-23

[86] 2015-05-29 (PCT/US2015/033333)

[87] (WO2015/184357)

[30] US (14/292,112) 2014-05-30

[30] US (14/473,244) 2014-08-29

[11] **2,950,262**
[13] C

[51] **Int.Cl. B32B 5/26 (2006.01) A47K 7/00 (2006.01) A47L 13/17 (2006.01)**

[25] EN

[54] **FIBER SHEET**

[54] **FEUILLE DE FIBRES**

[72] YAMADA, KIKUO, JP

[73] LEC, INC, JP

[85] 2016-11-24

[86] 2015-06-01 (PCT/JP2015/065785)

[87] (WO2015/182784)

[30] JP (2014-112729) 2014-05-30

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[11] **2,950,564**
[13] C

[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/497 (2006.01) A61P 13/02 (2006.01) A61P 13/10 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **2-ACYLAMINOTHIAZOLE DERIVATIVE OR SALT THEREOF**

[54] **DERIVE DE 2-ACYLAMINOTHIAZOLE OU SEL DE CELUI-CI**

[72] TAKAHASHI, TAISUKE, JP
[72] KOIKE, TAKANORI, JP
[72] NEGORO, KENJI, JP
[72] TANAKA, HIROAKI, JP
[72] MAEDA, JUN, JP
[72] YOKOYAMA, KAZUHIRO, JP
[72] TAKAMATSU, HAJIME, JP
[73] ASAHI PHARMA CO., LTD., JP
[85] 2016-11-28
[86] 2015-06-05 (PCT/JP2015/066321)
[87] (WO2015/186821)
[30] JP (2014-118046) 2014-06-06

[11] **2,950,583**
[13] C

[51] **Int.Cl. B22F 1/10 (2022.01)**

[25] EN

[54] **A METAL POWDER COMPOSITION**

[54] **COMPOSITION DE POUDRE METALLIQUE**

[72] AHLIN, ASA, SE
[72] JOHANSSON, PETER, SE
[73] HOGANAS AB (PUBL), SE
[85] 2016-11-17
[86] 2015-05-21 (PCT/EP2015/061313)
[87] (WO2015/177300)
[30] GB (1409250.6) 2014-05-23

[11] **2,950,994**
[13] C

[51] **Int.Cl. H04L 41/0816 (2022.01) H04L 45/02 (2022.01) H04L 45/745 (2022.01) H04L 67/12 (2022.01) H04L 41/12 (2022.01) H04L 43/0817 (2022.01)**

[25] EN

[54] **METHOD AND NODE FOR MANAGING A NETWORK**

[54] **PROCEDE ET NOEUD POUR GERER UN RESEAU**

[72] BARON, JULIEN, FR
[73] SERCEL, FR
[85] 2016-12-01
[86] 2015-06-16 (PCT/EP2015/063487)
[87] (WO2015/193322)
[30] EP (14305927.7) 2014-06-17

[11] **2,951,794**
[13] C

[51] **Int.Cl. C07D 209/16 (2006.01) A61K 31/4045 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **POLYMORPHIC FORM OF N-[2-(6-FLUORO-1H-INDOL-3-YL)ETHYL]-3-(2,2,3,3-TETRAFLUOROPROPOXY)BENZYLAMINE HYDROCHLORIDE**

[54] **FORME POLYMORPHIQUE DE N-[2-(6-FLUORO-1H-INDOL-3-YL)ETHYL]-3-(2,2,3,3-TETRAFLUOROPROPOXY)BENZYLAMINE CHLORHYDRATE**

[72] ANDERSEN, KRISTINE BIRKLUND, DK
[72] ROCK, MICHAEL HAROLD, DK
[72] DE DIEGO, HEIDI LOPEZ, DK
[72] THERKELSEN, FRANS DENNIS, DK
[73] H. LUNDBECK A/S, DK
[85] 2016-12-09
[86] 2015-07-03 (PCT/EP2015/065176)
[87] (WO2016/001398)
[30] DK (PA 2014 00369) 2014-07-04

[11] **2,952,250**
[13] C

[51] **Int.Cl. C09K 11/61 (2006.01) H01L 33/50 (2010.01)**

[25] EN

[54] **COLOR STABLE RED-EMITTING PHOSPHORS**

[54] **PHOSPHORES EMETTANT DANS LE ROUGE DE COULEUR STABLE**

[72] SETLUR, ANANT ACHYUT, US
[72] MURPHY, JAMES EDWARD, US
[72] GARCIA, FLORENCIO, US
[72] CHOWDHURY, ASHFAQUL ISLAM, US
[72] SISTA, SRINIVAS PRASAD, US
[73] CURRENT LIGHTING SOLUTIONS, LLC, US
[85] 2016-12-06
[86] 2015-06-09 (PCT/US2015/034938)
[87] (WO2015/191607)
[30] US (14/302,823) 2014-06-12

[11] **2,952,460**
[13] C

[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/30 (2014.01) H04N 19/463 (2014.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SELECTIVELY SIGNALING DIFFERENT NUMBERS OF VIDEO SIGNAL INFORMATION SYNTAX STRUCTURES IN A PARAMETER SET**

[54] **SYSTEMES ET PROCEDES POUR SIGNALER DE FACON SELECTIVE DIFFERENTS NOMBRES DE STRUCTURES DE SYNTAXE D'INFORMATIONS DE SIGNAL VIDEO DANS UN ENSEMBLE DE PARAMETRES**

[72] WANG, YE-KUI, US
[72] HENDRY, FNU, US
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-12-14
[86] 2015-06-19 (PCT/US2015/036615)
[87] (WO2015/196035)
[30] US (62/015,285) 2014-06-20
[30] US (14/743,613) 2015-06-18

[11] **2,952,845**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/19 (2006.01) A61M 5/20 (2006.01) A61M 5/28 (2006.01)**

[25] EN

[54] **PRE-FILLED INJECTION DEVICE**

[54] **DISPOSITIF D'INJECTION PRE-REMPLI**

[72] OROFINO, ERNESTO, IT
[73] OROFINO PHARMACEUTICALS GROUP S.R.L., IT
[85] 2016-12-16
[86] 2015-06-17 (PCT/IB2015/054569)
[87] (WO2016/012878)
[30] IT (RM2014A000408) 2014-07-22

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[11] **2,952,959**
[13] C

[51] **Int.Cl. A61K 31/7068 (2006.01) A61K 31/7072 (2006.01) A61K 31/7076 (2006.01) A61K 31/708 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **USE OF NUCLEOSIDES AND NUCLEOTIDES TO TREAT FILOVIRIDAE VIRAL INFECTION**

[54] **UTILISATION DE NUCLEOSIDES ET DE NUCLEOTIDES POUR TRAITER UNE INFECTION DE FILOVIRUS**

[72] BLATT, LAWRENCE M., US
[72] BEIGELMAN, LEONID, US
[72] DYATKINA, NATALIA, US
[72] SYMONS, JULIAN ALEXANDER, US
[72] SMITH, DAVID BERNARD, US
[73] ALIOS BIOPHARMA, INC., US
[85] 2016-12-19
[86] 2015-06-22 (PCT/US2015/036958)
[87] (WO2015/200205)
[30] US (62/016,219) 2014-06-24
[30] US (62/034,629) 2014-08-07
[30] US (62/061,819) 2014-10-09

[11] **2,953,127**
[13] C

[51] **Int.Cl. B65D 8/00 (2006.01) B65D 77/24 (2006.01)**

[25] EN

[54] **PILLAR-SHAPED CONTAINER**

[54] **RECIPIENT EN FORME DE COLONNE**

[72] WIGGINS, ROBIN P., US
[72] KAHN, JOHANNA, US
[73] MJN U.S. HOLDINGS LLC, US
[85] 2016-12-20
[86] 2015-06-01 (PCT/US2015/033556)
[87] (WO2016/003569)
[30] US (14/321,050) 2014-07-01

[11] **2,953,435**
[13] C

[51] **Int.Cl. C07F 7/18 (2006.01) C08G 77/08 (2006.01) C09D 183/04 (2006.01) C09J 183/04 (2006.01)**

[25] EN

[54] **TITANIUM COMPLEXES AS VULCANIZATION CATALYSTS**

[54] **COMPLEXES DE TITANE EN TANT QUE CATALYSEURS DE VULCANISATION**

[72] HELPENSTEIN, KLAUS, DE
[72] KLEIN, JOHANN, DE
[72] GUTACKER, ANDREA, DE
[72] MEJIA, ESTEBAN, CO
[72] HILLBRANDT, STEVE, DE
[72] KRAGL, UDO, DE
[73] HENKEL AG & CO. KGAA, DE
[85] 2016-12-22
[86] 2015-06-26 (PCT/EP2015/064546)
[87] (WO2015/197829)
[30] DE (10 2014 212 291.0) 2014-06-26

[11] **2,953,454**
[13] C

[51] **Int.Cl. A61K 31/525 (2006.01) A61P 5/50 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING VITAMIN B2, VITAMIN D, AND ZINC FOR USE IN TREATMENT OR PREVENTION OF IMPAIRED GLUCOSE TOLERANCE**

[54] **COMPOSITION COMPRENANT DE LA VITAMINE B2, DE LA VITAMINE D ET DU ZINC A UTILISER DANS LE TRAITEMENT OU LA PREVENTION DE L'INTOLERANCE AU GLUCOSE**

[72] SILVA ZOLEZZI, IRMA, CH
[72] MACE, CATHERINE, CH
[72] MINEHIRA CASTELLI, KAORI, CH
[72] BAKER, PHILIP NEWTON, NZ
[72] GODFREY, KEITH MALCOLM, GB
[72] CHONG, YAP SENG, SG
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2016-12-22
[86] 2015-08-06 (PCT/EP2015/068185)
[87] (WO2016/020487)
[30] EP (14180396.5) 2014-08-08
[30] EP (14180401.3) 2014-08-08
[30] EP (15170906.0) 2015-06-05

[11] **2,953,797**
[13] C

[51] **Int.Cl. H04N 7/15 (2006.01) H04N 21/472 (2011.01) H04N 5/222 (2006.01) H04N 5/262 (2006.01)**

[25] EN

[54] **VIDEO CALL CENTER**

[54] **CENTRE D'APPEL VIDEO**

[72] WOLZIEN, THOMAS R., US
[73] VIDEO RIVER GROUP, LLC, US
[85] 2016-12-28
[86] 2015-06-29 (PCT/US2015/038387)
[87] (WO2016/003942)
[30] US (14/320,567) 2014-06-30

[11] **2,954,211**
[13] C

[51] **Int.Cl. G01L 1/24 (2006.01) E21B 47/007 (2012.01) F16L 55/00 (2006.01) F17C 13/02 (2006.01) F17D 5/00 (2006.01) G02B 5/18 (2006.01) G02B 6/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETECTING DYNAMIC STRAIN**

[54] **PROCEDE ET SYSTEME POUR DETECTER UNE CONTRAINTE DYNAMIQUE**

[72] HULL, JOHN, CA
[72] JALILIAN, SEYED EHSAN, CA
[73] HIFI ENGINEERING INC., CA
[85] 2017-01-04
[86] 2014-07-04 (PCT/CA2014/050645)
[87] (WO2016/000064)

[11] **2,954,526**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/70 (2006.01) A61K 31/513 (2006.01) A61K 31/522 (2006.01) A61K 31/567 (2006.01) A61K 31/675 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **VIRAL PROPHYLAXIS TREATMENT METHODS AND PRE-EXPOSURE PROPHYLAXIS KITS**

[54] **METHODES DE TRAITEMENT PROPHYLACTIQUE ANTIVIRAL ET NECESSAIRES DE PROPHYLAXIE AVANT EXPOSITION**

[72] CHECCONE, EMIDIO A., US
[72] RAMIREZ, CHRISTINA, US
[73] ELIAN LLC, US
[85] 2017-01-06
[86] 2015-07-07 (PCT/US2015/039421)
[87] (WO2016/007538)
[30] US (62/021,589) 2014-07-07

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[11] **2,954,529**
[13] C

[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/84 (2006.01) A61B 17/86 (2006.01)**

[25] EN

[54] **FLEXIBLE MAXILLO-MANDIBULAR FIXATION DEVICE**

[54] **DISPOSITIF FLEXIBLE POUR UNE FIXATION MAXILLO-MANDIBULAIRE**

[72] WOODBURN, WILLIAM N., SR., US
[72] GRIFFITH, WILLIAM, US
[72] BARBER, JESSICA REGAN, US
[72] PARRANTO, GREGORY, US
[73] DEPUY SYNTHES PRODUCTS, INC., US

[85] 2017-01-06
[86] 2015-07-06 (PCT/US2015/039207)
[87] (WO2016/007415)
[30] US (62/022,355) 2014-07-09
[30] US (14/326,901) 2014-07-09

[11] **2,954,784**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/395 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **ANTIPROLIFERATIVE COMPOUNDS AND METHODS OF USE THEREOF**

[54] **COMPOSES ANTIPROLIFERATIFS ET METHODES D'UTILISATION DESDITS COMPOSES**

[72] HANSEN, JOSHUA, US
[72] CORREA, MATTHEW DANIEL, US
[72] RAHEJA, RAJ, US
[72] LOPEZ-GIRONA, ANTONIA, US
[72] MAN, HON-WAH, US
[72] MULLER, GEORGE W., US
[72] KHALIL, EHAB M., US
[72] MACBETH, KYLE, US
[72] CATHERS, BRIAN E., US
[72] POURDEHNAD, MICHAEL, US
[73] CELGENE CORPORATION, US

[85] 2017-01-10
[86] 2015-07-10 (PCT/US2015/039926)
[87] (WO2016/007848)
[30] US (62/023,775) 2014-07-11

[11] **2,955,025**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A01H 5/00 (2018.01) C07K 14/415 (2006.01) C12N 5/10 (2006.01) C12N 9/16 (2006.01) C12N 15/29 (2006.01) C12N 15/55 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR INCREASING PLANT GROWTH AND YIELD USING RICE PROMOTERS**

[54] **COMPOSITIONS ET PROCEDES POUR ACCROITRE LA CROISSANCE ET LE RENDEMENT DES PLANTES A L'AIDE DE PROMOTEURS DU RIZ**

[72] BRUTNELL, THOMAS P., US
[72] BRYANT, DOUGLAS W., US
[72] MOCKLER, TODD CHRISTOPHER, US

[72] WANG, LIN, US

[73] BENSON HILL BIOSYSTEMS, INC., US

[85] 2017-01-12
[86] 2015-07-23 (PCT/US2015/041757)
[87] (WO2016/014809)
[30] US (62/029,068) 2014-07-25

[11] **2,955,087**
[13] C

[51] **Int.Cl. C40B 30/04 (2006.01) C12Q 1/6804 (2018.01) C12Q 1/6813 (2018.01) G01N 33/53 (2006.01)**

[25] EN

[54] **METHOD FOR IDENTIFYING HIGH-AFFINITY COMPLEXES OF TWO LIGANDS AND A RECEPTOR USING A SELF-ASSEMBLYING CHEMICAL LIBRARY OF LIGANDS**

[54] **METHODE DE DETERMINATION DES COMPLEXES A GRANDE AFFINITE DE DEUX LIGANDETS D'UN RECEPTEUR AU MOYEN D'UNE BIBLIOTHEQUE DES LIGANDS CHIMIQUES A AUTO-ASSEMBLAGE**

[72] REDDAVIDE, FRANCESCO, DE
[72] DE ANDRADE, HELENA, DE
[72] LIN, WEILIN, DE
[72] ZHANG, YIXIN, DE
[72] MELE, ELISA, IT
[73] DYNABIND GMBH, DE

[85] 2017-01-13
[86] 2015-07-10 (PCT/EP2015/065874)
[87] (WO2016/008822)
[30] DE (10 2014 213 783.7) 2014-07-16

[11] **2,955,253**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **SITE DIRECTED MUTAGENESIS OF TREM-1 ANTIBODIES FOR DECREASING VISCOSITY**

[54] **MUTAGENESE DIRIGEE D'ANTICORPS TREM-1 POUR REDUIRE LA VISCOSITE**

[72] HENRIKSEN, ANETTE, DK
[72] KJAERGAARD, KRISTIAN, DK
[72] WESTPHAL STENNICKE, VIBEKE, DK

[72] WIBERG, CHARLOTTE, DK

[73] NOVO NORDISK A/S, DE

[85] 2017-01-16
[86] 2015-07-17 (PCT/EP2015/066501)
[87] (WO2016/009086)
[30] EP (14177547.8) 2014-07-17
[30] EP (14194893.5) 2014-11-26

[11] **2,955,405**
[13] C

[51] **Int.Cl. A61F 2/66 (2006.01)**

[25] EN

[54] **A PROSTHESIS OR ORTHOSIS COMPRISING A HINGE JOINT SYSTEM.**

[54] **PROTHESE OU ORTHESE COMPRENANT UN SYSTEME DE JOINT DE CHARNIERE.**

[72] LEFEBER, DIRK, BE
[72] CHERELLE, PIERRE, BE
[73] VRIJE UNIVERSITEIT BRUSSEL, BE

[85] 2017-01-17
[86] 2015-07-08 (PCT/IB2015/055168)
[87] (WO2016/009308)
[30] US (62/026,202) 2014-07-18

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[11] **2,955,599**
[13] C

[51] **Int.Cl. C07C 211/63 (2006.01) C07C 53/02 (2006.01) C07C 209/60 (2006.01) C07C 215/40 (2006.01) C07C 217/28 (2006.01) C10L 1/222 (2006.01) C10L 10/04 (2006.01) C10M 129/26 (2006.01) C10M 133/04 (2006.01) C10M 141/06 (2006.01)**

[25] EN
[54] **QUATERNARY AMMONIUM COMPOUNDS AND THEIR USE AS FUEL OR LUBRICANT ADDITIVES**
[54] **COMPOSES D'AMMONIUM QUATERNAIRE ET LEUR UTILISATION EN TANT QU'ADDITIFS DE CARBURANT OU DE LUBRIFIANT**

[72] REID, JACQUELINE, GB
[72] COOK, STEPHEN LEONARD, GB
[73] INNOSPEC LIMITED, GB
[85] 2017-01-18
[86] 2015-07-28 (PCT/GB2015/052185)
[87] (WO2016/016641)
[30] GB (1413355.7) 2014-07-28

[11] **2,956,167**
[13] C

[51] **Int.Cl. G01C 15/00 (2006.01) E21F 17/18 (2006.01) G12B 9/08 (2006.01) H01R 13/73 (2006.01)**

[25] EN
[54] **ANCHORING SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES D'ANCRAGE**

[72] WASLEY, JASON, AU
[73] WASLEY, JASON, AU
[85] 2017-01-24
[86] 2015-07-23 (PCT/AU2015/050416)
[87] (WO2016/011508)
[30] AU (2014902896) 2014-07-25

[11] **2,956,228**
[13] C

[51] **Int.Cl. C01B 3/08 (2006.01) C01B 3/02 (2006.01) C01B 3/06 (2006.01) C01B 3/10 (2006.01) C01B 3/34 (2006.01) C01B 3/38 (2006.01) C01B 3/50 (2006.01)**

[25] EN
[54] **METHOD FOR PRODUCING HYDROGEN**
[54] **PROCEDE POUR LA PREPARATION D'HYDROGENE**

[72] NESTL, STEPHAN, AT
[72] HACKER, VIKTOR, AT
[72] VOITIC, GERNOT, AT
[73] ROUGE H2 ENGINEERING AG, AT
[85] 2017-01-25
[86] 2015-07-27 (PCT/AT2015/050177)
[87] (WO2016/011473)
[30] AT (A 50526/2014) 2014-07-25

[11] **2,956,504**
[13] C

[51] **Int.Cl. H01Q 1/32 (2006.01) H01Q 1/22 (2006.01) H01Q 1/52 (2006.01)**

[25] EN
[54] **VEHICLE ANTENNA DEVICE**
[54] **DISPOSITIF D'ANTENNE SUR VEHICULE**

[72] OHNO, SADA0, JP
[72] HAYAKAWA, KENJI, JP
[72] SONE, TAKAYUKI, JP
[73] YOKOWO CO., LTD., JP
[85] 2017-01-27
[86] 2015-06-05 (PCT/JP2015/066362)
[87] (WO2016/017278)
[30] JP (2014-153026) 2014-07-28

[11] **2,956,694**
[13] C

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

[25] EN
[54] **WOUND DRESSING ASSEMBLY**
[54] **ENSEMBLE DE PANSEMENT POUR PLAIE**

[72] CANEPPELE, LEONARDO, BR
[72] CONCEICAO, GUARACI NAKAMURA RODRIGUES, BR
[72] EKNOIAN, MICHAEL W., US
[72] MACEDO, CARLOS DA SILVA, JR., BR
[72] NARCIZO, ANDRE, BR
[72] ORIANI, PAULO CESAR DE GODOY, BR
[73] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2017-01-30
[86] 2015-07-23 (PCT/US2015/041678)
[87] (WO2016/018706)
[30] US (14/448,139) 2014-07-31

[11] **2,956,883**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6869 (2018.01)**

[25] EN
[54] **METHOD OF ESTIMATING THE AMOUNT OF A METHYLATED LOCUS IN A SAMPLE**
[54] **PROCEDE D'ESTIMATION DE LA QUANTITE D'UN LOCUS METHYLE DANS UN ECHANTILLON**

[72] DAHL, CARL OSCAR FREDRIK, SE
[72] ERICSSON, OLOF JOHN, SE
[72] BANER, JOHAN, SE
[73] VANADIS DIAGNOSTICS, SE
[85] 2017-01-31
[86] 2015-07-31 (PCT/IB2015/055799)
[87] (WO2016/024182)
[30] US (62/037,057) 2014-08-13

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[11] **2,957,517**
[13] C

[51] **Int.Cl. B61L 15/00 (2006.01) B61L 23/00 (2006.01)**
[25] EN
[54] **COMMUNICATION SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE COMMUNICATION**
[72] KLEMANSKI, RICHARD S., US
[72] HAAS, CARL L., US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[85] 2017-02-07
[86] 2015-02-06 (PCT/US2015/014798)
[87] (WO2016/076907)
[30] US (14/539,389) 2014-11-12

[11] **2,957,536**
[13] C

[51] **Int.Cl. C08G 18/66 (2006.01) C08G 18/32 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08J 5/12 (2006.01)**
[25] EN
[54] **MOISTURE VAPOR TRANSMISSION THERMOPLASTIC POLYURETHANE WITH HIGH HEAT RESISTANCE**
[54] **POLYURETHANE THERMOPLASTIQUE PERMEABLE A L'HUMIDITE AYANT UNE HAUTE RESISTANCE A LA CHALEUR**
[72] MAKAL, UMIT G., US
[73] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2017-02-07
[86] 2015-08-11 (PCT/US2015/044556)
[87] (WO2016/025423)
[30] US (62/035,544) 2014-08-11

[11] **2,957,725**
[13] C

[51] **Int.Cl. G01N 15/00 (2006.01) G01N 15/06 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR DETECTING PARTICLES**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE DETECTION DE PARTICULES**
[72] CLAYTON, ANTHONY CLINT, US
[72] WALLS, HOWARD JEROME, US
[72] NEWSOME, RANDALL J., US
[72] HOERTZ, PAUL G., US
[73] RESEARCH TRIANGLE INSTITUTE, US
[85] 2017-02-08
[86] 2015-08-20 (PCT/US2015/046076)
[87] (WO2016/028996)
[30] US (62/039,512) 2014-08-20
[30] US (62/039,519) 2014-08-20

[11] **2,957,904**
[13] C

[51] **Int.Cl. C02F 1/50 (2006.01) C02F 1/00 (2006.01) C02F 1/66 (2006.01) C02F 1/72 (2006.01)**
[25] EN
[54] **COMPOSITION FOR WATER TREATMENT AND METHODS OF MANUFACTURE**
[54] **COMPOSITION DE TRAITEMENT D'EAU ET METHODES DE FABRICATION**
[72] GRAVES, JAN D., US
[72] GRAVES, GREGORY D., US
[73] GRAVES, JAN D., US
[73] GRAVES, GREGORY D., US
[86] (2957904)
[87] (2957904)
[22] 2017-02-14
[30] US (15/429,554) 2017-02-10

[11] **2,958,199**
[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **ELECTROMYOGRAPHIC LEAD POSITIONING AND STIMULATION TITRATION IN A NERVE STIMULATION SYSTEM FOR TREATMENT OF OVERACTIVE BLADDER**
[54] **POSITIONNEMENT D'UNE DERIVATION ELECTROMYOGRAPHIQUE ET TITRAGE DE LA STIMULATION DANS UN SYSTEME DE STIMULATION NERVEUSE POUR LE TRAITEMENT DE LA VESSIE HYPERACTIVE**
[72] SCHROEDER, DENNIS, US
[72] GUANGQIANG, JIANG, US
[72] WOOCK, JOHN, US
[72] SCHMID, ERIC, US
[73] AXONICS, INC., US
[85] 2017-02-14
[86] 2015-08-14 (PCT/US2015/045408)
[87] (WO2016/025913)
[30] US (62/038,131) 2014-08-15
[30] US (62/041,611) 2014-08-25
[30] US (62/101,888) 2015-01-09

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[11] **2,959,347**
[13] C

[51] **Int.Cl. C07D 239/48 (2006.01) A61K 31/506 (2006.01) A61K 31/5383 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 471/04 (2006.01) C07D 498/04 (2006.01)**

[25] EN
[54] **ULK1 INHIBITORS AND METHODS USING SAME**
[54] **INHIBITEURS D'ULK1 ET METHODES D'UTILISATION**

[72] SHAW, REUBEN J., US
[72] EGAN, DANIEL F., US
[72] COSFORD, NICHOLAS, US
[72] TURK, BENJAMIN, US
[72] VAMOS, MITCHELL, US
[72] PANICKAR, DHANYA RAVEENDRA, US
[72] CHUN, MATTHEW, US
[72] SHEFFLER, DOUGLAS, US
[73] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
[73] YALE UNIVERSITY, US
[73] SANFORD BURNHAM PREBYS MEDICAL DISCOVERY INSTITUTE, US
[85] 2017-02-24
[86] 2015-08-25 (PCT/US2015/046777)
[87] (WO2016/033100)
[30] US (62/041,559) 2014-08-25
[30] US (62/184,212) 2015-06-24

[11] **2,959,415**
[13] C

[51] **Int.Cl. A61B 5/1459 (2006.01) A61B 5/00 (2006.01)**

[25] EN
[54] **SUBCUTANEOUS SENSOR INSERTER AND METHOD**
[54] **DISPOSITIF D'INSERTION DE CAPTEUR SOUS-CUTANE ET PROCEDE ASSOCIE**

[72] PETERSON, THOMAS H., US
[72] CIONEK, SCOTT P., US
[72] FLORINDI, ANTHONY, US
[72] HART, JULIAN I., US
[73] SANVITA MEDICAL CORPORATION, US
[85] 2017-02-24
[86] 2015-09-03 (PCT/US2015/048275)
[87] (WO2016/036924)
[30] US (62/045,096) 2014-09-03
[30] US (62/200,387) 2015-08-03
[30] US (14/843,623) 2015-09-02

[11] **2,959,445**
[13] C

[51] **Int.Cl. A47J 31/44 (2006.01) H04W 4/12 (2009.01) A47J 31/40 (2006.01) G08C 17/02 (2006.01) H04B 5/00 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED DISPENSING**
[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION AUTOMATISEE**

[72] MERALI, REHMAN, CA
[72] LEE, BRIAN, CA
[72] GIAMPUZZI, PAUL, CA
[72] HO, COLIN, CA
[72] MITRY, MINA, CA
[73] TBOT INC., CA
[85] 2017-02-27
[86] 2015-08-28 (PCT/CA2015/000478)
[87] (WO2016/029294)
[30] US (62/042,969) 2014-08-28

[11] **2,959,462**
[13] C

[51] **Int.Cl. F16C 33/60 (2006.01) F16C 21/00 (2006.01) F16C 17/02 (2006.01) F16C 19/10 (2006.01)**

[25] EN
[54] **BEARING ARRANGEMENT FOR A DEEP DRILLING DEVICE**
[54] **ENSEMBLE DE ROULEMENT POUR UN DISPOSITIF DE SONDAGE ET DE FORAGE**

[72] SCHARTING, STEFAN, DE
[73] SCHAEFFLER TECHNOLOGIES AG & CO. KG, DE
[85] 2017-02-24
[86] 2015-09-03 (PCT/DE2015/200451)
[87] (WO2016/058602)
[30] DE (10 2014 220 792.4) 2014-10-14

[11] **2,959,528**
[13] C

[51] **Int.Cl. G06F 9/44 (2018.01) G06F 8/34 (2018.01) G06F 8/40 (2018.01) G06F 9/46 (2006.01)**

[25] EN
[54] **SPECIFYING COMPONENTS IN GRAPH-BASED PROGRAMS**
[54] **DETERMINATION DE COMPOSANTES DANS LES PROGRAMMES A BASE DE TABLEAUX**

[72] STANFILL, CRAIG W., US
[72] WEISS, ADAM, US
[72] ROBERTS, ANDREW F., US
[72] KUKOLICH, STEPHEN A., US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2017-02-27
[86] 2015-09-02 (PCT/US2015/048094)
[87] (WO2016/036824)
[30] US (62/044,708) 2014-09-02
[30] US (62/164,175) 2015-05-20

[11] **2,959,533**
[13] C

[51] **Int.Cl. A61K 51/04 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01) C07F 7/10 (2006.01)**

[25] EN
[54] **PROBES FOR IMAGING HUNTINGTIN PROTEIN**
[54] **SONDES D'IMAGERIE DE LA PROTEINE HUNTINGTINE**

[72] DOMINGUEZ, CELIA, US
[72] WITYAK, JOHN, US
[72] BARD, JONATHAN, US
[72] KISELYOV, ALEX, US
[72] BROWN, CHRISTOPHER JOHN, GB
[72] PRIME, MICHAEL EDWARD, GB
[72] JOHNSON, PETER DAVID, GB
[72] CLARK-FREW, DANIEL, GB
[73] CHDI FOUNDATION, INC., US
[85] 2017-02-27
[86] 2015-08-28 (PCT/US2015/047401)
[87] (WO2016/033440)
[30] US (62/043,590) 2014-08-29

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[11] **2,959,565**
[13] C

[51] **Int.Cl. B60J 10/00 (2016.01)**
[25] EN
[54] **DOOR SEALING DEVICE, DOOR SEALING SYSTEM AND DOOR LEAF FOR A RAIL VEHICLE**
[54] **DISPOSITIF D'ETANCHEITE POUR PORTE, SYSTEME D'ETANCHEITE POUR PORTE ET BATTANT DE PORTE POUR VEHICULE FERROVIAIRE**
[72] HIRTENLEHNER, THOMAS, AT
[72] JETZINGER, PETER, AT
[73] KNORR-BREMSE GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, AT
[85] 2017-02-28
[86] 2015-09-01 (PCT/EP2015/069962)
[87] (WO2016/034589)
[30] DE (20 2014 104 110.9) 2014-09-02

[11] **2,959,658**
[13] C

[51] **Int.Cl. G02B 23/00 (2006.01) G02B 27/01 (2006.01) G02F 1/13357 (2006.01)**
[25] FR
[54] **LIGHT-EMITTING DIODE LIGHTING DEVICE COMPRISING A LIGHT GUIDE AND A LIGHT COMPATIBLE WITH THE USE OF NIGHT VISION BINOCULARS**
[54] **DISPOSITIF D'ECLAIRAGE A DIODES ELECTROLUMINESCENTES COMPORTANT UN GUIDE DE LUMIERE ET UN ECLAIRAGE COMPATIBLE DE L'UTILISATION DE JUMELLES DE VISION NOCTURNE**
[72] PETITDEMANGE, ARNAUD, FR
[72] PELLETIER, SEBASTIEN, FR
[72] LUX, JOHANNA, FR
[72] MOZER, LAURENT, FR
[73] THALES, FR
[85] 2017-02-28
[86] 2015-08-14 (PCT/EP2015/068786)
[87] (WO2016/030216)
[30] FR (1401927) 2014-08-29

[11] **2,960,039**
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 13/02 (2006.01) A61L 15/00 (2006.01)**
[25] EN
[54] **MEDICAL DRESSING**
[54] **PANSEMENT MEDICAL**
[72] FLACH, NICLAS, SE
[72] HAMBERG, KRISTINA, SE
[72] JOHANNISON, ULF, SE
[72] SODERSTROM, BENGT, SE
[73] MOLNLYCKE HEALTH CARE AB, SE
[85] 2017-03-02
[86] 2015-09-09 (PCT/EP2015/070650)
[87] (WO2016/038111)
[30] EP (14184436.5) 2014-09-11

[11] **2,960,217**
[13] C

[51] **Int.Cl. B01J 45/00 (2006.01) A61K 31/28 (2006.01) C07F 1/08 (2006.01) C07F 3/06 (2006.01) C07F 13/00 (2006.01) C07F 15/04 (2006.01) C07F 15/06 (2006.01)**
[25] EN
[54] **PURE CHELATION PROCESS**
[54] **PROCEDE DE CHELATION PUR**
[72] BARKER, CHARLES LOUIS ALBARTUS, US
[72] ZEGAR, SIEAD, US
[72] WACHHOLDER, KURT L., US
[73] C LAB PHARMA INTERNATIONAL, S.A., VG
[85] 2017-03-03
[86] 2015-09-08 (PCT/US2015/048914)
[87] (WO2016/037181)
[30] US (62/046,947) 2014-09-06

[11] **2,960,336**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/505 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOUNDS AS NIK INHIBITORS**
[54] **COMPOSES COMME INHIBITEURS DE NIK**
[72] HYND, GEORGE, GB
[72] TISSELLI, PATRIZIA, GB
[72] KULAGOWSKI, JANUSZ JOZEF, GB
[72] MACLEOD, CALUM, GB
[72] MANN, SAMUEL EDWARD, GB
[72] PRICE, STEPHEN COLIN, GB
[72] MONTANA, JOHN GARY, GB
[73] JANSSEN PHARMACEUTICA NV, BE
[85] 2017-03-06
[86] 2015-10-22 (PCT/EP2015/074437)
[87] (WO2016/062792)
[30] EP (14190068.8) 2014-10-23

[11] **2,960,388**
[13] C

[51] **Int.Cl. B65G 47/02 (2006.01) B65D 19/44 (2006.01) B65D 21/02 (2006.01)**
[25] EN
[54] **CRADLE FOR PROPPANT CONTAINER HAVING TAPERED BOX GUIDES**
[54] **ARCEAU POUR CONTENANT D'AGENT DE SOUTENEMENT PRESENTANT DES GUIDES DE BOITIER EFFILES**
[72] OREN, JOSHUA, US
[72] OREN, JOHN, US
[73] OREN TECHNOLOGIES, LLC, US
[85] 2017-03-06
[86] 2015-09-09 (PCT/US2015/049074)
[87] (WO2016/044012)
[30] US (62/050,493) 2014-09-15
[30] US (62/114,614) 2015-02-11
[30] US (14/676,039) 2015-04-01
[30] US (14/848,447) 2015-09-09

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[11] **2,960,567**
[13] C

[51] **Int.Cl. C07D 519/00 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **THIENOPYRIMIDINE DERIVATIVES AS NIK INHIBITORS**

[54] **DERIVES DE THIENOPYRIMIDINE COMME INHIBITEURS DE NIK**

[72] HYND, GEORGE, GB
[72] TISELLI, PATRIZIA, GB
[72] MACLEOD, CALUM, GB
[72] MANN, SAMUEL EDWARD, GB
[72] MONTANA, JOHN GARY, GB
[72] PRICE, STEPHEN COLIN, GB
[73] JANSSEN PHARMACEUTICA NV, BE

[85] 2017-03-08
[86] 2015-10-22 (PCT/EP2015/074430)
[87] (WO2016/062789)
[30] EP (14190077.9) 2014-10-23

[11] **2,960,574**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PYRAZOLOPYRIMIDINE DERIVATIVES AS NIK INHIBITORS**

[54] **DERIVES DE PYRAZOLOPYRIMIDINE COMME INHIBITEURS DE NIK**

[72] HYND, GEORGE, GB
[72] TISELLI, PATRIZIA, GB
[72] MACLEOD, CALUM, GB
[72] MANN, SAMUEL EDWARD, GB
[72] PANCHAL, TERRY AARON, GB
[72] MONTANA, JOHN GARY, GB
[72] PRICE, STEPHEN COLIN, GB
[73] JANSSEN PHARMACEUTICA NV, BE

[85] 2017-03-08
[86] 2015-10-22 (PCT/EP2015/074431)
[87] (WO2016/062790)
[30] EP (14190073.8) 2014-10-23

[11] **2,960,778**
[13] C

[51] **Int.Cl. A61K 38/10 (2006.01) C07K 7/08 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **MACROCYCLIC INHIBITORS OF THE PD-1/PD-L1 AND CD80(B7-1)/PD-L1 PROTEIN/PROTEIN INTERACTIONS**

[54] **INHIBITEURS MACROCYCLIQUES DES INTERACTIONS PROTEINE/PROTEINE PD-1/PD-L1 ET CD80(B7-1)/PD-L1**

[72] MILLER, MICHAEL MATTHEW, US
[72] MAPELLI, CLAUDIO, US
[72] ALLEN, MARTIN PATRICK, US
[72] BOWSHER, MICHAEL S., US
[72] GILLIS, ERIC P., US
[72] LANGLEY, DAVID R., US
[72] MULL, ERIC, US
[72] POIRIER, MAUDE A., US
[72] SANGHVI, NISHITH, US
[72] SUN, LI-QIANG, US
[72] TENNEY, DANIEL J., US
[72] YEUNG, KAP-SUN, US
[72] ZHU, JULIANG, US
[72] GILLMAN, KEVIN W., US
[72] ZHAO, QIAN, US
[72] GRANT-YOUNG, KATHARINE A., US

[72] SCOLA, PAUL MICHAEL, US
[72] CORNELIUS, LYNDON A.M., US
[73] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2017-03-09
[86] 2014-09-11 (PCT/US2014/055093)
[87] (WO2016/039749)

[11] **2,960,916**
[13] C

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/439 (2006.01) A61P 11/00 (2006.01) C07D 491/10 (2006.01)**

[25] EN

[54] **SPIROCYCLIC INHIBITORS OF CATHEPSIN C**

[54] **INHIBITEURS SPIROCYCLIQUES DE LA CATHEPSINE C**

[72] VINTONYAK, VIKTOR, DE
[72] GRAUERT, MATTHIAS, DE
[72] GRUNDL, MARC, DE
[72] PAUTSCH, ALEXANDER, DE
[73] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE

[85] 2017-03-10
[86] 2015-09-08 (PCT/EP2015/070449)
[87] (WO2016/038007)
[30] EP (14184613.9) 2014-09-12

[11] **2,961,274**
[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01) G06F 21/55 (2013.01)**

[25] EN

[54] **METHOD OF AUTO-DETECTION OF AN ATTEMPTED PIRACY OF AN ELECTRONIC PAYMENT CARD, CORRESPONDING CARD, TERMINAL AND PROGRAM**

[54] **PROCEDE D'AUTO-DETECTION D'UNE TENTATIVE DE PIRATAGE D'UNE CARTE ELECTRONIQUE DE PAIEMENT, CARTE, TERMINAL ET PROGRAMME**

[72] NACCACHE, DAVID, FR
[72] MAYER, LAURENT, FR
[73] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR

[85] 2017-03-14
[86] 2015-09-24 (PCT/EP2015/071955)
[87] (WO2016/046307)
[30] FR (1459134) 2014-09-26

[11] **2,961,356**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/422 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4985 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUNDS AND THEIR USES IN MODULATING BROMODOMAIN AND FOR TREATING DISEASES OR CONDITIONS RELEVANT THERETO**

[54] **COMPOSES HETEROCYCLIQUES ET UTILISATIONS DANS LA MODULATION DU BROMODOMAINE ET LE TRAITEMENT DES MALADIES OU CONDITIONS CONNEXES**

[72] SHI, SONGYUAN, US
[72] SPEVAK, WAYNE, US
[72] ZHANG, JIAZHONG, US
[73] PLEXXIKON INC., US

[85] 2017-03-14
[86] 2015-09-10 (PCT/US2015/049522)
[87] (WO2016/044067)
[30] US (62/050,723) 2014-09-15

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[11] **2,961,700**
[13] C

[51] **Int.Cl. A61K 38/12 (2006.01) A61K 9/08 (2006.01) A61K 9/72 (2006.01) A61P 11/00 (2006.01) A61P 31/04 (2006.01)**

[25] EN
[54] **AQUEOUS SOLUTION OF COLISTIMETHATE SODIUM**
[54] **SOLUTION AQUEUSE DE COLISTIMETHATE SODIQUE**

[72] BENCIC, NENAD, HR
[73] XELLIA PHARMACEUTICALS APS, DK
[85] 2017-03-17
[86] 2015-10-01 (PCT/EP2015/072728)
[87] (WO2016/050928)
[30] US (62/059,711) 2014-10-03

[11] **2,961,731**
[13] C

[51] **Int.Cl. B67D 7/62 (2010.01) A47K 5/12 (2006.01) B05B 11/02 (2006.01) F04B 43/04 (2006.01) F04B 43/09 (2006.01)**

[25] EN
[54] **DISPENSER PUMP USING ELECTRICALLY ACTIVATED MATERIAL**
[54] **POMPE DE DISTRIBUTION UTILISANT UN MATERIAU A ACTIVATION ELECTRIQUE**

[72] CIAVARELLA, NICK ERMANN, US
[72] PROPER, SCOTT THEODORE, US
[72] YORK, ALEXANDER, US
[72] DUNN, JASON THOMAS, US
[73] GOJO INDUSTRIES, INC., US
[85] 2017-03-17
[86] 2015-03-19 (PCT/US2015/021425)
[87] (WO2016/043809)
[30] US (14/489,850) 2014-09-18

[11] **2,961,740**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/497 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN
[54] **N-PYRIDINYL ACETAMIDE DERIVATIVES AS WNT SIGNALLING PATHWAY INHIBITORS**
[54] **DERIVES N-PYRIDINYL ACETAMIDE COMME INHIBITEURS DE LA OIE DE SIGNALISATION WNT**

[72] BHAMRA, INDER, GB
[72] MATHIESON, MICHAEL, GB
[72] DONOGHUE, CRAIG, GB
[72] TESTAR, RICHARD, GB
[73] REDX PHARMA PLC, GB
[85] 2017-03-17
[86] 2015-10-08 (PCT/GB2015/052943)
[87] (WO2016/055790)
[30] GB (1417832.1) 2014-10-08
[30] GB (1512279.9) 2015-07-14

[11] **2,961,996**
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/134 (2006.01)**

[25] EN
[54] **DISINTEGRATABLE PLUG**
[54] **BOUCHON DESINTEGRABLE**

[72] OAG, JAMIE, GB
[72] YOUNGER, RAE, GB
[73] SPEX CORPORATE HOLDINGS LIMITED, GB
[85] 2017-03-21
[86] 2015-09-22 (PCT/GB2015/052738)
[87] (WO2016/046533)
[30] GB (1416720.9) 2014-09-22

[11] **2,962,808**
[13] C

[51] **Int.Cl. C08G 18/66 (2006.01) C08G 18/32 (2006.01) C08G 18/48 (2006.01) C08G 18/73 (2006.01) C08G 18/75 (2006.01) C08L 75/08 (2006.01)**

[25] EN
[54] **NON-SOFTENING RESILIENT THERMOPLASTIC POLYURETHANES**
[54] **POLYURETHANES THERMOPLASTIQUES RESILIENTS NON RAMOLLISSANTS**

[72] COZZENS, DAVID, US
[72] KULKARNI, PALLAVI, US
[72] WALDER, ANTHONY J., US
[73] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2017-03-27
[86] 2015-10-01 (PCT/US2015/053406)
[87] (WO2016/054320)
[30] US (62/058,223) 2014-10-01

[11] **2,962,829**
[13] C

[51] **Int.Cl. F25B 31/00 (2006.01) F25B 9/00 (2006.01) F25B 49/02 (2006.01)**

[25] EN
[54] **A METHOD FOR OPERATING A VAPOUR COMPRESSION SYSTEM WITH A RECEIVER**
[54] **PROCEDE D'EXPLOITATION D'UN SYSTEME DE COMPRESSION DE VAPEUR AVEC UN RECEPTEUR**

[72] FREDSLUND, KRISTIAN, DK
[72] SCHMIDT, FREDE, DK
[72] MADSEN, KENNETH BANK, DK
[72] PRINS, JAN, DK
[73] DANFOSS A/S, DK
[85] 2017-03-28
[86] 2015-10-07 (PCT/EP2015/073155)
[87] (WO2016/078824)
[30] EP (14193783.9) 2014-11-19

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[11] **2,963,358**
[13] C

[51] **Int.Cl. A61K 31/20 (2006.01) A61K 31/192 (2006.01) A61P 19/10 (2006.01) C07C 59/84 (2006.01) C07C 59/86 (2006.01) C07C 59/90 (2006.01)**

[25] EN

[54] **PHENYLKETONE CARBOXYLATE COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF OSTEOPOROSIS**

[54] **COMPOSES CARBOXYLATE DE PHENYLKETONE ET COMPOSITIONS PHARMACEUTIQUES DE PREVENTION ET DE TRAITEMENT DE L'OSTEOPOROSE**

[72] GAGNON, LYNE, CA
[72] GROUX, BRIGITTE, CA
[73] LIMINAL R&D BIOSCIENCES INC., CA

[85] 2017-04-05
[86] 2015-10-08 (PCT/CA2015/000530)
[87] (WO2016/054725)
[30] US (62/062,660) 2014-10-10

[11] **2,963,589**
[13] C

[51] **Int.Cl. G07B 15/06 (2011.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR TRUSTED RECORDING IN A ROAD TOLL SYSTEM**

[54] **PROCEDE ET APPAREIL D'ENREGISTREMENT DE CONFIANCE DANS UN SYSTEME DE PEAGE ROUTIER**

[72] TIJINK, JASJA, AT
[72] JANUSSON, ULRIK, SE
[73] KAPSCH TRAFFICOM AG, AT

[85] 2017-04-04
[86] 2015-09-09 (PCT/EP2015/070541)
[87] (WO2016/078789)
[30] EP (14193479.4) 2014-11-17

[11] **2,963,768**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01K 67/00 (2006.01) A01K 67/02 (2006.01)**

[25] EN

[54] **IMPROVED MOLECULAR BREEDING METHODS**

[54] **PROCEDES AMELIORES DE SELECTION MOLECULAIRE**

[72] COOPER, MARK, US
[72] MESSINA, CARLOS, US
[72] TECHNOW, FRANK, US
[72] TOTIR, LIVIU RADU, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US

[85] 2017-04-05
[86] 2015-08-04 (PCT/US2015/043525)
[87] (WO2016/069078)
[30] US (62/069,007) 2014-10-27
[30] US (62/093,713) 2014-12-18

[11] **2,964,024**
[13] C

[51] **Int.Cl. F01D 21/00 (2006.01) F02C 9/00 (2006.01) F02C 9/26 (2006.01)**

[25] FR

[54] **METHOD AND DEVICE FOR NOTIFYING AN AUTHORIZATION TO COMPLETELY SHUT DOWN AN AIRCRAFT GAS TURBINE ENGINE**

[54] **PROCEDE ET DISPOSITIF DE NOTIFICATION D'UNE AUTORISATION D'ARRET COMPLET D'UN MOTEUR A TURBINE A GAZ D'AERONEF**

[72] DESCUBES, OLIVIER PIERRE, FR
[72] PY, JEAN-MICHEL PIERRE CLAUDE, FR
[73] SAFRAN HELICOPTER ENGINES, FR

[85] 2017-04-07
[86] 2015-10-08 (PCT/FR2015/052703)
[87] (WO2016/055738)
[30] FR (1459756) 2014-10-10

[11] **2,964,042**
[13] C

[51] **Int.Cl. B02C 17/22 (2006.01) B29D 16/00 (2006.01)**

[25] EN

[54] **SHELL PLATE, METHOD FOR MAKING A SHELL PLATE AND A GRINDING MILL**

[54] **PLAQUE DE COQUE, PROCEDE DE FABRICATION D'UNE PLAQUE DE COQUE ET BROYEUR**

[72] LAUERMAA, KARI, FI
[73] OUTOTEC (FINLAND) OY, FI

[85] 2017-04-07
[86] 2015-10-12 (PCT/FI2015/050686)
[87] (WO2016/059295)
[30] FI (20145902) 2014-10-14

[11] **2,964,045**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/485 (2006.01)**

[25] EN

[54] **INJECTABLE BUPRENORPHINE FORMULATION**

[54] **FORMULATION INJECTABLE DE BUPRENORPHINE**

[72] TIBERG, FREDRIK, SE
[72] JOHANSSON, MARKUS, SE
[72] HARWIGSSON, IAN, SE
[73] CAMURUS AB, SE

[85] 2017-04-07
[86] 2015-10-27 (PCT/EP2015/074901)
[87] (WO2016/066655)
[30] GB (1419091.2) 2014-10-27

[11] **2,964,102**
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61F 9/007 (2006.01) A61M 5/31 (2006.01) A61M 5/34 (2006.01)**

[25] EN

[54] **DELIVERY TOOL OF A VISCOELASTIC SYRINGE ASSEMBLY**

[54] **OUTIL D'ADMINISTRATION D'UN ENSEMBLE DE SERINGUE VISCOELASTIQUE**

[72] NOVAK, ANTHONY, US
[73] NOVAK, ANTHONY, US

[85] 2017-04-07
[86] 2015-10-07 (PCT/US2015/054513)
[87] (WO2016/057681)
[30] US (14/508,150) 2014-10-07

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[11] **2,964,282**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **RIPK2 INHIBITORS AND METHOD OF TREATING CANCER WITH SAME**

[54] **INHIBITEURS DE RIPK2 ET METHODE DE TRAITEMENT DU CANCER A L'AIDE DE CEUX-CI**

[72] BRAY, MARK R., CA
[72] BROKX, RICHARD, CA
[72] LAUFER, RADOSLAW, CA
[72] LI, SZE-WAN, CA
[72] MASON, JACQUELINE M., CA
[72] NG, GRACE, CA
[72] PAULS, HEINZ W., CA
[73] UNIVERSITY HEALTH NETWORK, CA

[85] 2017-04-11
[86] 2015-10-09 (PCT/CA2015/051024)
[87] (WO2016/065461)
[30] US (62/068,985) 2014-10-27

[11] **2,964,286**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 34/16 (2006.01)**

[25] EN

[54] **CONTROL SYSTEMS FOR FRACTURING OPERATIONS**

[54] **SYSTEMES DE COMMANDE POUR OPERATIONS DE FRACTURATION**

[72] LOPEZ, MIGUEL ANGEL, US
[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2017-04-10
[86] 2015-10-12 (PCT/US2015/055059)
[87] (WO2016/060972)
[30] US (14/513,020) 2014-10-13

[11] **2,964,382**
[13] C

[51] **Int.Cl. B65B 43/10 (2006.01) B65B 21/00 (2006.01) B65B 35/44 (2006.01) B65B 43/26 (2006.01) B65B 49/00 (2006.01) B65B 59/00 (2006.01) B65G 37/00 (2006.01)**

[25] EN

[54] **METHOD OF PROCESSING A PLURALITY OF ARTICLES THROUGH A PROCESSING SECTION OF A PACKAGING MACHINE AND METHOD OF RECONFIGURING A PROCESSING SECTION OF A PACKAGING MACHINE**

[54] **PROCEDE DE TRAITEMENT D'UNE PLURALITE D'ARTICLES PAR UNE SECTION DE TRAITEMENT D'UNE MACHINE D'EMBALLAGE ET PROCEDE DE RECONFIGURATION D'UNE SECTION DE TRAITEMENT D'UNE MACHINE D'EMBALLAGE**

[72] SHURTLEFF, DAVID J., US
[72] NELSON, PATRICK LEE, US
[72] KARDOCK, DAVID A., US
[73] STANDARD KNAPP INC., US

[85] 2017-04-11
[86] 2015-10-26 (PCT/US2015/057331)
[87] (WO2016/069456)
[30] US (14/525,126) 2014-10-27

[11] **2,964,383**
[13] C

[51] **Int.Cl. B65B 43/10 (2006.01) B65B 21/00 (2006.01) B65B 43/26 (2006.01) B65B 49/00 (2006.01) B65B 59/00 (2006.01) B65G 37/00 (2006.01)**

[25] EN

[54] **PROCESS SECTION OF A PACKAGING MACHINE**

[54] **SECTION DE TRAITEMENT D'UNE MACHINE D'EMBALLAGE**

[72] SHURTLEFF, DAVID J., US
[72] NELSON, PATRICK LEE, US
[72] KARDOK, DAVID A., US
[73] STANDARD KNAPP INC., US

[85] 2017-04-11
[86] 2015-10-26 (PCT/US2015/057334)
[87] (WO2016/069457)
[30] US (14/525,106) 2014-10-27

[11] **2,964,398**
[13] C

[51] **Int.Cl. C40B 40/08 (2006.01) C07K 16/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C40B 30/04 (2006.01) C40B 40/02 (2006.01) C40B 50/00 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **RATIONALLY DESIGNED, SYNTHETIC ANTIBODY LIBRARIES AND USES THEREFOR**

[54] **BIBLIOTHEQUES D'ANTICORPS SYNTHETIQUES RATIONNELLES ET LEURS UTILISATIONS**

[72] VASQUEZ, MAXIMILIANO, US
[72] FELDHAUS, MICHAEL, US
[72] GERNGROSS, TILLMAN U., US
[72] WITTRUP, K. DANE, US
[73] ADIMAB, LLC, US

[86] (2964398)
[87] (2964398)
[22] 2008-09-12
[62] 2,697,193
[30] US (60/993,785) 2007-09-14

[11] **2,964,625**
[13] C

[51] **Int.Cl. A61K 31/513 (2006.01)**

[25] EN

[54] **FATTY LIVER DISEASE TREATMENT USING GLUCOCORTICOID AND MINERALOCORTICOID RECEPTOR ANTAGONISTS**

[54] **TRAITEMENT DE LA STEATOSE HEPATIQUE A L'AIDE D'ANTAGONISTES DES RECEPTEURS DES GLUCOCORTICOIDES ET DES MINERALOCORTICOIDES**

[72] BELANOFF, JOSEPH K., US
[72] HUNT, HAZEL, US
[72] MEIJER, ONNO C., NL
[72] VAN DEN HEUVEL, JOSE, NL
[73] CORCEPT THERAPEUTICS, INC., US

[85] 2017-04-12
[86] 2015-10-14 (PCT/US2015/055487)
[87] (WO2016/061195)
[30] US (62/064,358) 2014-10-15
[30] US (62/092,041) 2014-12-15

**Brevets canadiens délivrés
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[11] **2,964,719**
[13] C

[51] **Int.Cl. H04N 21/435 (2011.01) H04H 60/27 (2009.01) H04N 21/443 (2011.01) G06F 13/00 (2006.01)**

[25] EN

[54] **RECEPTION DEVICE, TRANSMISSION DEVICE, AND DATA PROCESSING METHOD**

[54] **DISPOSITIF DE RECEPTION, DISPOSITIF D'EMISSION ET PROCEDE DE TRAITEMENT DE DONNEES**

[72] YAMAGISHI, YASUAKI, JP

[72] IGARASHI, TATSUYA, JP

[72] KIKKAWA, NORIFUMI, JP

[72] DEWA, YOSHIHARU, JP

[73] SONY CORPORATION, JP

[85] 2017-04-13

[86] 2015-10-21 (PCT/JP2015/079645)

[87] (WO2016/067988)

[30] JP (2014-219659) 2014-10-28

[11] **2,964,951**
[13] C

[51] **Int.Cl. F21V 21/22 (2006.01) F21V 21/36 (2006.01)**

[25] EN

[54] **LENGTH ALTERATION TOOL FOR LIGHTING**

[54] **OUTIL DE MODIFICATION DE LA DISTANCE POUR ECLAIRAGE**

[72] GRANT, ANDREW J., US

[72] COOGLER, ALLEN, US

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2017-04-18

[86] 2015-10-28 (PCT/US2015/057827)

[87] (WO2016/069751)

[30] US (62/069,812) 2014-10-28

[11] **2,965,158**
[13] C

[51] **Int.Cl. E21B 47/01 (2012.01) E21B 47/02 (2006.01)**

[25] EN

[54] **IMPROVEMENTS IN OR RELATING TO DOWN HOLE SURVEYING**

[54] **AMELIORATIONS DANS OU EN RAPPORT AVEC L'ETUDE DE FOND DE TROU**

[72] PARFITT, RICHARD, GB

[72] JABBAL, GURU, AU

[72] OTT, KAI, NL

[73] REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, AU

[85] 2017-04-20

[86] 2015-10-23 (PCT/AU2015/000634)

[87] (WO2016/061616)

[30] AU (2014904245) 2014-10-23

[11] **2,965,600**
[13] C

[51] **Int.Cl. D04H 1/70 (2012.01) A61L 27/36 (2006.01) D04H 1/04 (2012.01) D04H 1/54 (2012.01)**

[25] EN

[54] **PROCESS FOR THE PRODUCTION OF A HYBRID STRUCTURE CONSISTING OF COUPLED SILK FIBROIN MICROFIBERS AND NANOFIBERS, HYBRID STRUCTURE THUS OBTAINED AND ITS USE AS IMPLANTABLE MEDICAL DEVICE**

[54] **PROCEDE PERMETTANT LA PRODUCTION DE STRUCTURE HYBRIDE COMPRENANT DES NANOFIBRES ET MICROFIBRES DE FIBROINE DE SOIE ACCOUPLEES, STRUCTURE HYBRIDE AINSI OBTENUE, ET SON UTILISATION COMME DISPOSITIF MEDICAL IMPLANTABLE**

[72] ALESSANDRINO, ANTONIO, IT

[73] SILK BIOMATERIALS S.R.L., IT

[85] 2017-04-24

[86] 2015-10-27 (PCT/IB2015/058262)

[87] (WO2016/067189)

[30] IT (MI2014A001841) 2014-10-27

[11] **2,966,592**
[13] C

[51] **Int.Cl. A61K 47/36 (2006.01) A61K 9/00 (2006.01) A61K 38/13 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **OCULAR DELIVERY OF DRUGS**

[54] **ADMINISTRATION OCULAIRE DE MEDICAMENTS**

[72] UCHEGBU, IJEOMA, GB

[72] SCHATZLEIN, ANDREAS, GB

[72] CAPRETTO, LORENZO, GB

[73] NANOMERICS LTD, GB

[85] 2017-05-02

[86] 2015-11-02 (PCT/GB2015/053291)

[87] (WO2016/071677)

[30] GB (1419540.8) 2014-11-03

[11] **2,966,621**
[13] C

[51] **Int.Cl. F01K 25/02 (2006.01) F01K 27/00 (2006.01) F04D 15/00 (2006.01)**

[25] EN

[54] **VALVE NETWORK AND METHOD FOR CONTROLLING PRESSURE WITHIN A SUPERCRITICAL WORKING FLUID CIRCUIT IN A HEAT ENGINE SYSTEM WITH A TURBOPUMP**

[54] **RESEAU DE SOUPE ET PROCEDE DE COMMANDE DE PRESSION A L'INTERIEUR D'UN CIRCUIT DE FLUIDE SUPERCRITIQUE DANS UN SYSTEME DE MOTEUR THERMIQUE DOTE D'UNE TURBOPOMPE**

[72] BOWAN, BRETT A., US

[72] VERMEERSCH, MICHAEL LOUIS, US

[73] ECHOGEN POWER SYSTEMS, L.L.C., US

[73] BOWAN, BRETT A., US

[73] VERMEERSCH, MICHAEL LOUIS, US

[85] 2017-05-02

[86] 2015-10-28 (PCT/US2015/057701)

[87] (WO2016/073245)

[30] US (62/074,182) 2014-11-03

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[11] **2,967,029**
[13] C

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 29/10 (2016.01) A23L 2/38 (2021.01) A23L 2/385 (2006.01) A23L 2/52 (2006.01) A23L 2/56 (2006.01)**

[25] EN

[54] **EMULSION FOR A CLEAR BEVERAGE**

[54] **EMULSION POUR BOISSON LIMPIDE**

[72] VAN BOKKELEN, REGINALD, BE

[72] VAN BENEDEN, WOUTER M.G.M, BE

[73] CARGILL, INCORPORATED, US

[85] 2017-05-05

[86] 2015-11-13 (PCT/US2015/060596)

[87] (WO2016/077705)

[30] EP (14192941.4) 2014-11-13

[11] **2,967,042**
[13] C

[51] **Int.Cl. G06Q 20/32 (2012.01) G06K 7/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR COMMERCIAL TRANSACTIONS USING A COMMUNICATION DEVICE**

[54] **APPAREIL ET PROCEDE POUR TRANSACTIONS COMMERCIALES UTILISANT UN DISPOSITIF DE COMMUNICATION**

[72] TANG, TAI KWAN JIMMY, CN

[72] LO, CHI WAH, CN

[72] MAGES, KENNETH G., US

[73] 4361423 CANADA INC., CA

[86] (2967042)

[87] (2967042)

[22] 2010-02-10

[62] 2,752,053

[30] US (61/151,459) 2009-02-10

[11] **2,967,354**
[13] C

[51] **Int.Cl. E04H 4/08 (2006.01) A61H 33/00 (2006.01)**

[25] EN

[54] **VENTED INSULATED SPA COVER**

[54] **COUVERCLE DE BAINOIRE DE BALNEOTHERAPIE ISOLE ET VENTILE**

[72] YOUNG, W. SCOTT, US

[72] ALCOTT, JEFFREY M., US

[72] STEWART, GREGORY T., US

[73] DDP SPECIALTY ELECTRONIC MATERIALS US, LLC, US

[85] 2017-05-10

[86] 2015-11-12 (PCT/US2015/060288)

[87] (WO2016/081265)

[30] US (62/081,595) 2014-11-19

[11] **2,967,425**
[13] C

[51] **Int.Cl. H01M 8/18 (2006.01)**

[25] EN

[54] **METAL COMPLEXES OF SUBSTITUTED CATECHOLATES AND REDOX FLOW BATTERIES CONTAINING THE SAME**

[54] **COMPLEXES METALLIQUES DE CATECHOLATES SUBSTITUES ET BATTERIES REDOX LES CONTENANT**

[72] REECE, STEVEN Y., US

[73] LOCKHEED MARTIN ENERGY, LLC, US

[85] 2017-05-10

[86] 2015-11-25 (PCT/US2015/062736)

[87] (WO2016/086163)

[30] US (62/084,638) 2014-11-26

[11] **2,967,642**
[13] C

[51] **Int.Cl. C09K 11/61 (2006.01) H01L 33/50 (2010.01)**

[25] EN

[54] **COLOR STABLE RED-EMITTING PHOSPHORS**

[54] **PHOSPHORES EMETTANT DANS LE ROUGE DE COULEUR STABLE**

[72] MURPHY, JAMES EDWARD, US

[72] GARCIA, FLORENCIO, US

[72] CHOWDHURY, ASHFAQUL ISLAM, US

[72] SISTA, SRINIVAS PRASAD, US

[72] SETLUR, ANANT ACHYUT, US

[73] CURRENT LIGHTING SOLUTIONS, LLC, US

[85] 2017-05-11

[86] 2015-11-16 (PCT/US2015/060806)

[87] (WO2016/081340)

[30] US (14/549,847) 2014-11-21

[11] **2,968,000**
[13] C

[51] **Int.Cl. A61G 7/10 (2006.01) A61G 7/14 (2006.01)**

[25] EN

[54] **TILTABLE PATIENT CEILING LIFT ASSEMBLY**

[54] **ENSEMBLE LEVE-PATIENT INCLINABLE**

[72] BRULOTTE, DENIS-ALEXANDRE, CA

[72] FAUCHER, MARTIN, CA

[72] CUSTEAU-BOISCLAIR, OLIVIER, CA

[73] ARJO IP HOLDING AB, SE

[85] 2017-05-16

[86] 2015-11-17 (PCT/CA2015/051198)

[87] (WO2016/077921)

[30] US (62/080,909) 2014-11-17

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[11] **2,968,004**
[13] C

[51] **Int.Cl. A23K 50/40 (2016.01) A23K 20/00 (2016.01) A23K 20/153 (2016.01) A23L 27/20 (2016.01) A23L 27/23 (2016.01) G01N 33/566 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **METHODS FOR MODULATING TASTE RECEPTORS**

[54] **METHODES DE MODULATION DES RECEPTEURS DU GOUT**

[72] MCGRANE, SCOTT JOSEPH, GB

[72] TAYLOR, ANDREW JOHN, GB

[72] FINE, RICHARD MASTEN, US

[72] KLEBANSKY, BORIS, US

[72] GIBBS, MATTHEW RONALD, GB

[73] MARS, INCORPORATED, US

[85] 2017-05-15

[86] 2015-12-10 (PCT/US2015/065067)

[87] (WO2016/094702)

[30] US (62/090,138) 2014-12-10

[11] **2,968,021**
[13] C

[51] **Int.Cl. E04B 1/84 (2006.01) E04B 1/82 (2006.01) E04B 9/00 (2006.01) E04F 13/00 (2006.01) E04F 13/08 (2006.01)**

[25] EN

[54] **SOUND-ABSORBING ELEMENT AND SYSTEM**

[54] **ELEMENT ET SYSTEME ISOPHONIQUE**

[72] CAIMI, RENATO, IT

[73] ELEDA S.R.L., IT

[85] 2017-05-16

[86] 2015-12-03 (PCT/EP2015/078528)

[87] (WO2016/087587)

[30] IT (MI2014A 002092) 2014-12-05

[11] **2,968,035**
[13] C

[51] **Int.Cl. E04H 12/00 (2006.01) H04W 88/08 (2009.01) H01Q 1/12 (2006.01)**

[25] EN

[54] **LINK-PLATE CONNECTION FOR MONOPOLE REINFORCING BARS**

[54] **CONNEXION DE PLAQUE DE LIAISON DESTINEE A DES BARRES DE RENFORT MONOPOLAIRES**

[72] SEMAAN, ROBERT, US

[73] TOWER ENGINEERING SOLUTIONS, LLC, US

[85] 2017-05-23

[86] 2015-09-24 (PCT/US2015/051892)

[87] (WO2017/111878)

[30] US (14552263) 2014-11-24

[11] **2,968,200**
[13] C

[51] **Int.Cl. F16L 41/06 (2006.01) F16L 41/12 (2006.01)**

[25] EN

[54] **BORING DEVICE**

[54] **DISPOSITIF D'ALEPAGE**

[72] BOYES, SIMON, GB

[73] THOMAS DUDLEY LIMITED, GB

[85] 2017-05-17

[86] 2015-11-23 (PCT/GB2015/053563)

[87] (WO2016/083786)

[30] GB (1420865.6) 2014-11-24

[11] **2,968,219**
[13] C

[51] **Int.Cl. C10M 139/00 (2006.01)**

[25] EN

[54] **LUBRICATING COMPOSITIONS HAVING A BORATE ESTER WITH ENHANCED LEAD AND COPPER CORROSION PROTECTION**

[54] **COMPOSITIONS LUBRIFIANTES COMPRENANT UN ESTER DE BORATE COMPRENANT UNE PROTECTION AMELIOREE CONTRE LA CORROSION DU PLOMB ET DU CUIVRE**

[72] ZHANG, YANSHI, US

[72] MCGUINNESS, MARK J., US

[73] THE LUBRIZOL CORPORATION, US

[85] 2017-05-17

[86] 2015-10-16 (PCT/US2015/055933)

[87] (WO2016/081111)

[30] US (62/082,651) 2014-11-21

[11] **2,968,547**
[13] C

[51] **Int.Cl. A61G 7/057 (2006.01) A47C 7/72 (2006.01) A47C 21/04 (2006.01) A47C 21/06 (2006.01) A47C 31/00 (2006.01) A47G 9/02 (2006.01) A61G 7/05 (2006.01) F26B 5/16 (2006.01) F26B 21/12 (2006.01)**

[25] EN

[54] **MOISTURE CONTROL SYSTEM**

[54] **SYSTEME DE REGULATION DE L'HUMIDITE**

[72] VRZALIK, JOHN, US

[72] PICKERING, MATTHEW, US

[72] HONG, KZ, US

[73] VRZALIK, JOHN, US

[73] PICKERING, MATTHEW, US

[73] HONG, KZ, US

[73] ARJO IP HOLDING AB, SE

[85] 2017-05-19

[86] 2015-11-24 (PCT/US2015/062495)

[87] (WO2016/086030)

[30] US (62/083,521) 2014-11-24

[11] **2,968,612**
[13] C

[51] **Int.Cl. G16B 15/30 (2019.01) G16B 15/00 (2019.01) G16C 20/50 (2019.01) G06F 17/16 (2006.01)**

[25] EN

[54] **INTERACTION PARAMETERS FOR THE INPUT SET OF MOLECULAR STRUCTURES**

[54] **PARAMETRES D'INTERACTION POUR L'ENSEMBLE D'ENTREES DE STRUCTURES MOLECULAIRES**

[72] CHEREMOVSKY, GEORGY, FR

[72] POPOV, PETR, FR

[72] DEREVYANKO, GEORGY, FR

[72] GRUDININ, SERGEY, FR

[73] INRIA INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.R.S.), FR

[85] 2017-05-23

[86] 2015-11-24 (PCT/EP2015/077506)

[87] (WO2016/083376)

[30] EP (14306882.3) 2014-11-25

[11] **2,968,935**
[13] C

[51] **Int.Cl. C07D 231/56 (2006.01) A61K 31/343 (2006.01) A61K 31/381 (2006.01) A61K 31/416 (2006.01) A61K 31/423 (2006.01) A61K 31/428 (2006.01) A61K 31/437 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61P 1/02 (2006.01) A61P 1/04 (2006.01) A61P 1/12 (2006.01) A61P 1/16 (2006.01) A61P 1/18 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 5/50 (2006.01) A61P 7/00 (2006.01) A61P 9/00 (2006.01) A61P 9/04 (2006.01) A61P 9/10 (2006.01) A61P 9/12 (2006.01) A61P 11/00 (2006.01) A61P 13/10 (2006.01) A61P 13/12 (2006.01) A61P 15/08 (2006.01) A61P 19/02 (2006.01) A61P 19/06 (2006.01) A61P 19/10 (2006.01) A61P 21/00 (2006.01) A61P 21/04 (2006.01) A61P 25/00 (2006.01) A61P 25/16 (2006.01) A61P 25/22 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 27/16 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) A61P 43/00 (2006.01) C07D 263/54 (2006.01) C07D 307/81 (2006.01) C07D 333/56 (2006.01)**

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[25] EN

[54] **BICYCLIC COMPOUND HAVING AN ACETYL-COA CARBOXYLASE (ACC) INHIBITORY ACTIVITY**

[54] **COMPOSE BICYCLIQUE**

[72] MIZOJIRI, RYO, JP

[72] BANNO, HIROSHI, JP

[72] ASANO, MORITERU, JP

[72] TOMITA, DAISUKE, JP

[72] NII, NORIYUKI, JP

[72] MAEZAKI, HIRONOBU, JP

[72] TAWADA, MICHIKO, JP

[73] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2017-05-25

[86] 2015-11-25 (PCT/JP2015/082974)

[87] (WO2016/084816)

[30] JP (2014-239376) 2014-11-26

[11] **2,968,997**
[13] C

[51] **Int.Cl. G01S 5/00 (2006.01) G01S 1/00 (2006.01) G01S 1/02 (2010.01) G01S 5/14 (2006.01) G01S 7/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR SENSING INTERIOR SPACES TO AUTO-GENERATE A NAVIGATIONAL MAP**

[54] **PROCEDE ET SYSTEME DE DETECTION D'ESPACES INTERIEURS POUR GENERER AUTOMATIQUEMENT UNE CARTE DE NAVIGATION**

[72] WU, JAMES, CA

[72] GAMBLER, JASON, CA

[72] MACGILLIVRAY, MATT, CA

[73] INNERSPACE TECHNOLOGY INC., CA

[85] 2017-05-26

[86] 2015-12-17 (PCT/CA2015/051343)

[87] (WO2016/095050)

[30] US (62/093,837) 2014-12-18

[11] **2,969,055**
[13] C

[51] **Int.Cl. E06B 3/50 (2006.01) E05D 15/06 (2006.01) E05D 15/58 (2006.01) E06B 3/46 (2006.01)**

[25] EN

[54] **A WINDOW**

[54] **FENETRE**

[72] INGRAM, NEIL, GB

[72] SMITH, STEPHEN, GB

[73] INVISIFOLD LIMITED, GB

[85] 2017-05-26

[86] 2015-12-07 (PCT/GB2015/053742)

[87] (WO2016/097691)

[30] GB (1422581.7) 2014-12-18

[11] **2,969,068**
[13] C

[51] **Int.Cl. A47J 27/00 (2006.01) A47J 27/026 (2006.01) A47J 37/00 (2006.01) A47J 37/12 (2006.01)**

[25] FR

[54] **APPLIANCE AND METHOD FOR COOKING AND/OR REHEATING**

[54] **APPAREIL ET PROCEDE DE CUISSON ET/OU RECHAUFFAGE**

[72] DELRUE, OLIVIER, FR

[73] SEB S.A., FR

[85] 2017-05-26

[86] 2015-12-01 (PCT/FR2015/053287)

[87] (WO2016/087772)

[30] FR (1461776) 2014-12-02

[11] **2,969,069**
[13] C

[51] **Int.Cl. A47J 36/16 (2006.01) A47J 27/00 (2006.01) A47J 37/04 (2006.01) A47J 37/12 (2006.01) A47J 43/04 (2006.01) A47J 43/07 (2006.01)**

[25] FR

[54] **HOT-AIR COOKING APPLIANCE**

[54] **APPAREIL DE CUISSON A AIR CHAUD**

[72] DELRUE, OLIVIER, FR

[73] SEB S.A., FR

[85] 2017-05-26

[86] 2015-12-01 (PCT/FR2015/053288)

[87] (WO2016/087773)

[30] FR (1461775) 2014-12-02

[11] **2,969,718**
[13] C

[51] **Int.Cl. E06B 3/663 (2006.01) E06B 3/673 (2006.01)**

[25] EN

[54] **LOW-FRICTION SPACER SYSTEM FOR VACUUM INSULATED GLASS**

[54] **ENTRETOISE A FAIBLE COEFFICIENT DE FROTTEMENT POUR VERRE A VIDE ISOLANT**

[72] PETIT, PETER, US

[73] V-GLASS, INC., US

[85] 2017-06-02

[86] 2015-12-02 (PCT/US2015/063372)

[87] (WO2016/089961)

[30] US (14/559,896) 2014-12-03

[11] **2,969,827**
[13] C

[51] **Int.Cl. G21C 15/18 (2006.01)**

[25] EN

[54] **CONTAINMENT INTERNAL PASSIVE HEAT REMOVAL SYSTEM**

[54] **SYSTEME DE DISSIPATION PASSIVE DE CHALEUR DEPUIS LE VOLUME INTERIEUR D'UNE ENVELOPPE DE PROTECTION**

[72] BEZLEPKIN, VLADIMIR VICTOROVICH, RU

[72] SEMASHKO, SERGEY EVGEN'EVICH, RU

[72] IVKOV, IGOR MIHAYLOVICH, RU

[72] ALEKSEEV, SERGEY BORISOVICH, RU

[72] VARDANIDZE, TEYMURAZ GEORGIEVICH, RU

[72] PETROV, YURIY YURIEVICH, RU

[72] SOLODOVNIKOV, ALEKSANDER SERGEEVICH, RU

[72] KRYLOV, YURIY VLADIMIROVICH, RU

[73] JOINT-STOCK COMPANY SCIENTIFIC RESEARCH AND DESIGN INSTITUTE FOR ENERGY TECHNOLOGIES ATOMPROMKT, RU

[85] 2017-06-05

[86] 2015-11-16 (PCT/RU2015/000784)

[87] (WO2016/089250)

[30] RU (2014148910) 2014-12-04

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[11] **2,970,056**
[13] C

[51] **Int.Cl. E04F 15/02 (2006.01) E04F 15/04 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **PANEL WITH A HOOK-FORM LOCKING SYSTEM**

[54] **PANNEAU AVEC UN SYSTEME DE VERROUILLAGE EN FORME DE CROCHET**

[72] HANNIG, HANS-JURGEN, DE

[73] I4F LICENSING NV, BE

[85] 2017-06-07

[86] 2015-12-07 (PCT/EP2015/078854)

[87] (WO2016/091819)

[30] EP (14196822) 2014-12-08

[11] **2,970,365**
[13] C

[51] **Int.Cl. F16D 9/06 (2006.01) B64D 33/08 (2006.01) F01P 5/14 (2006.01) F16D 1/06 (2006.01)**

[25] FR

[54] **TWIST-BREAKABLE MECHANICAL FUSE AND COOLING UNIT OF A TURBINE ENGINE FITTED WITH SUCH A FUSE**

[54] **FUSIBLE MECANIQUE FRANGIBLE PAR TORSION ET GROUPE DE REFROIDISSEMENT D'UN TURBOMOTEUR EQUIPE D'UN TEL FUSIBLE**

[72] CLADIERE, MATHIEU, FR

[72] BUENO, ARMAND, FR

[72] DESCUBES, OLIVIER PIERRE, FR

[72] VERGEZ, STEPHANE, FR

[73] SAFRAN HELICOPTER ENGINES, FR

[85] 2017-06-08

[86] 2015-12-07 (PCT/FR2015/053355)

[87] (WO2016/097529)

[30] FR (1462399) 2014-12-15

[11] **2,970,399**
[13] C

[51] **Int.Cl. G06M 1/14 (2006.01) G06M 1/04 (2006.01) G06M 1/16 (2006.01)**

[25] EN

[54] **HANDHELD DEVICE WITH A COUNTER AND COUNTER**

[54] **TOTALISEUR**

[72] VON SCHUCKMANN, ALFRED, DE

[73] VON SCHUCKMANN, ALFRED, DE

[85] 2017-06-09

[86] 2015-12-01 (PCT/EP2015/078170)

[87] (WO2016/091652)

[30] DE (10 2014 118 325.8) 2014-12-10

[11] **2,970,439**
[13] C

[51] **Int.Cl. E21B 29/08 (2006.01) E21B 29/00 (2006.01)**

[25] EN

[54] **CUTTING UNIT FOR INTERNAL CUTTING OF TUBING**

[54] **UNITE DE COUPE ET PROCEDE POUR LA COUPE DE TUBAGE**

[72] HAUGLAND, LASSE, NO

[72] SPINNANGR, MARTIN, NO

[73] QINTERRA TECHNOLOGIES AS, NO

[85] 2017-06-09

[86] 2015-12-08 (PCT/NO2015/050241)

[87] (WO2016/093705)

[30] NO (20141488) 2014-12-09

[11] **2,970,800**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **MONOMERIC FC DOMAINS**

[54] **DOMAINES FC MONOMERES**

[72] GAUTHIER, LAURENT, FR

[73] INNATE PHARMA, FR

[85] 2017-06-13

[86] 2016-01-04 (PCT/EP2016/050032)

[87] (WO2016/110468)

[30] US (62/099,634) 2015-01-05

[11] **2,970,947**
[13] C

[51] **Int.Cl. B22F 9/24 (2006.01) C25C 5/02 (2006.01)**

[25] EN

[54] **DIELECTRIC BARRIER DISCHARGE PLASMA METHOD AND APPARATUS FOR SYNTHESIZING METAL PARTICLES**

[54] **APPAREIL A PLASMA A DECHARGE A BARRIERE DIELECTRIQUE ET PROCEDE DE SYNTHESE DE PARTICULES METALLIQUES**

[72] FORTIN, MARC-ANDRE, CA

[72] BOUCHARD, MATHIEU, CA

[72] SARRA-BOURNET, CHRISTIAN, CA

[72] TURGEON, STEPHANE, CA

[73] UNIVERSITE LAVAL, CA

[85] 2017-06-15

[86] 2015-12-15 (PCT/CA2015/051326)

[87] (WO2016/095035)

[30] US (62/092,867) 2014-12-17

[11] **2,971,081**
[13] C

[51] **Int.Cl. B62K 25/00 (2006.01) B62K 25/28 (2006.01)**

[25] EN

[54] **A SUSPENSION SYSTEM FOR VEHICLES WITH AT LEAST TWO WHEELS**

[54] **SYSTEME DE SUSPENSION POUR VEHICULES POURVUS D'AU MOINS DEUX ROUES**

[72] PISA CANYELLES, ROGER, ES

[73] PISA CANYELLES, ROGER, ES

[85] 2017-06-14

[86] 2015-12-03 (PCT/ES2015/070875)

[87] (WO2016/097433)

[30] ES (P 201431847) 2014-12-16

[11] **2,971,382**
[13] C

[51] **Int.Cl. C07B 59/00 (2006.01) B01D 15/04 (2006.01) C07C 43/13 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING ORGANIC FLUORIDE-ALIPHATIC COMPOUND AND METHOD FOR PURIFYING ORGANIC FLUORIDE-ALIPHATIC COMPOUND**

[54] **PROCEDE DE PREPARATION D'UN COMPOSE ALIPHATIQUE-FLUORURE ORGANIQUE ET PROCEDE DE PURIFICATION DU COMPOSE ALIPHATIQUE-FLUORURE ORGANIQUE**

[72] LEE, SANG-JU, KR

[72] OH, SEUNG-JUN, KR

[72] MOON, DAE-HYUK, KR

[72] RYU, JIN-SOOK, KR

[72] KIM, JAE-SEUNG, KR

[72] LEE, JONG-JIN, KR

[73] THE ASAN FOUNDATION, KR

[85] 2017-06-16

[86] 2015-11-06 (PCT/KR2015/011955)

[87] (WO2016/072801)

[30] KR (10-2014-0154592) 2014-11-07

[30] KR (10-2014-0154593) 2014-11-07

[30] KR (10-2015-0126731) 2015-09-08

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[11] **2,971,558**
[13] C

[51] **Int.Cl. C07C 49/747 (2006.01) A01N 35/06 (2006.01) A01N 35/10 (2006.01) A01P 13/02 (2006.01) C07C 251/40 (2006.01)**

[25] EN

[54] **KETONE OR OXIME COMPOUND, AND HERBICIDE**

[54] **CETONE OU OXIME, ET HERBICIDE**

[72] NUMATA, AKIRA, JP
[72] IWAWAKI, YUJI, JP
[72] FURUKAWA, YUKI, JP
[72] YOSHINO, YURI, JP
[72] MIYAKADO, YUUKI, JP
[72] FURUHASHI, TAKAMASA, JP
[72] MIYAZAKI, TAKAO, JP
[73] NISSAN CHEMICAL INDUSTRIES, LTD., JP

[85] 2017-06-19
[86] 2015-12-18 (PCT/JP2015/085569)
[87] (WO2016/098899)
[30] JP (2014-255973) 2014-12-18
[30] JP (2015-029704) 2015-02-18
[30] JP (2015-083620) 2015-04-15
[30] JP (2015-136991) 2015-07-08

[11] **2,971,635**
[13] C

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01) H04L 67/51 (2022.01)**

[25] FR

[54] **METHOD OF PROCESSING A TRANSACTION FROM A COMMUNICATION TERMINAL**

[54] **PROCEDE DE TRAITEMENT D'UNE TRANSACTION A PARTIR D'UN TERMINAL DE COMMUNICATION**

[72] QUENTIN, PIERRE, FR
[72] BLANCHET, JEAN-BERNARD, FR
[73] INGENICO GROUP, FR

[85] 2017-06-20
[86] 2016-01-08 (PCT/EP2016/050317)
[87] (WO2016/110589)
[30] FR (1550191) 2015-01-09
[30] FR (1550192) 2015-01-09
[30] FR (1550193) 2015-01-09
[30] FR (1551240) 2015-02-13

[11] **2,971,775**
[13] C

[51] **Int.Cl. A61B 5/361 (2021.01) A61B 5/316 (2021.01)**

[25] FR

[54] **REGIONAL HIGH-DENSITY MAPPING OF THE ATRIAL FIBRILLATION SUBSTRATE**

[54] **CARTOGRAPHIE REGIONALE HAUTE DENSITE DU SUBSTRAT DE LA FIBRILLATION ATRIALE**

[72] BARS, CLEMENT, FR
[72] SEITZ, JULIEN, FR
[73] SUBSTRATE HD, FR

[85] 2017-06-21
[86] 2015-12-23 (PCT/EP2015/081193)
[87] (WO2016/102685)
[30] FR (14 63232) 2014-12-23

[11] **2,971,811**
[13] C

[51] **Int.Cl. C08J 9/35 (2006.01) B32B 27/20 (2006.01) E04F 15/18 (2006.01)**

[25] EN

[54] **POLYMER FOAM SHEET AND BARRIER LAYER COMPOSITE**

[54] **COMPOSITE FORME D'UNE FEUILLE DE MOUSSE POLYMERE ET D'UNE COUCHE BARRIERE**

[72] SALADINO, SAM, CA
[72] TZUR, ZEEV, IL
[72] ZUR, BARUCH, IL
[73] PALZIV EIN HANAZIV AGRICULTURAL COOPERATIVE SOCIETY LTD., IL

[85] 2017-06-21
[86] 2014-12-21 (PCT/IL2014/051114)
[87] (WO2016/103243)

[11] **2,972,048**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **ANTI-MERTK AGONISTIC ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS AGONISTES ANTI-MERTK ET LEURS UTILISATIONS**

[72] TAVAZOIE, SOHAIL, US
[72] HALBERG, NILS, US
[72] TAVAZOIE, MASOUD, US
[73] THE ROCKEFELLER UNIVERSITY, US

[85] 2017-06-22
[86] 2015-12-21 (PCT/US2015/067118)
[87] (WO2016/106221)
[30] US (62/095,325) 2014-12-22

[11] **2,972,628**
[13] C

[51] **Int.Cl. F16L 55/163 (2006.01) F17D 1/00 (2006.01)**

[25] EN

[54] **LINER ASSEMBLY FOR PIPELINE REPAIR OR REINFORCEMENT AND METHOD OF INSTALLING SAME**

[54] **ENSEMBLE CHEMISAGE POUR RENFORCEMENT DE CONDUITE ET SON PROCEDE D'INSTALLATION**

[72] MANNERS, CAMERON, CA
[73] NU FLOW TECHNOLOGIES 2000 INC., CA

[85] 2017-06-29
[86] 2015-12-29 (PCT/CA2015/000611)
[87] (WO2016/106448)
[30] US (62/097,816) 2014-12-30

[11] **2,972,704**
[13] C

[51] **Int.Cl. F03B 13/26 (2006.01) F16D 65/12 (2006.01) F16D 65/18 (2006.01)**

[25] EN

[54] **UNDERWATER TURBINE YAW BRAKE**

[54] **FREIN D'ORIENTATION D'HYDROLIENNE**

[72] BETSCHAT, MICHAEL, GB
[73] ANDRITZ HYDRO HAMMERFEST (UK) LIMITED, GB

[85] 2017-06-29
[86] 2015-01-30 (PCT/GB2015/050229)
[87] (WO2016/120581)

**Brevets canadiens délivrés
7 mars 2023**

[11] **2,973,136**
[13] C

[51] **Int.Cl. B22D 41/52 (2006.01) B28B 19/00 (2006.01) F27D 1/16 (2006.01) F27D 3/15 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR REPAIRING A REFRACTORY SHELL OF A METALLURGICAL VESSEL**

[54] **PROCEDE ET DISPOSITIF DE REPARATION DE MANCHONS REFRACTAIRES D'UN CREUSET METALLURGIQUE**

[72] RENGGLI, RAPHAEL, CH

[72] SCHACHER, DAMIAN, CH

[72] GUENTHER, PAUL, AT

[73] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT

[85] 2017-07-06

[86] 2015-12-04 (PCT/EP2015/078719)

[87] (WO2016/131510)

[30] CH (243/15) 2015-02-20

[11] **2,973,663**
[13] C

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 3/04 (2006.01)**

[25] EN

[54] **PLANT AND METHOD FOR RECOVERING METALS AND/OR METAL OXIDES FROM INDUSTRIAL PROCESS WASTE, IN PARTICULAR REFINERY WASTE**

[54] **INSTALLATION ET PROCEDE DE RECUPERATION DE METAUX ET/OU D'OXYDES DE METAUX A PARTIR DE DECHETS DE INDUSTRIELS, EN PARTICULIER DE DECHETS DE RAFFINERIE**

[72] GALATI, ROSARIO, IT

[72] BRUNO, LORENZO, IT

[72] CARLESSI, LINO, IT

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

[85] 2017-07-12

[86] 2016-02-05 (PCT/IB2016/050606)

[87] (WO2016/125115)

[30] IT (MI2015A000163) 2015-02-06

[11] **2,974,433**
[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12N 15/113 (2010.01) C12Q 1/6806 (2018.01) C12M 1/00 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR CORRECTING LEVEL OF EXPRESSION OF SMALL RNA**

[54] **PROCEDE ET DISPOSITIF POUR CORRIGER LE NIVEAU D'EXPRESSION D'UN PETIT ARN**

[72] KONDOU, SATOSHI, JP

[72] KOZONO, SATOKO, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2017-07-11

[86] 2015-11-25 (PCT/JP2015/083079)

[87] (WO2016/084848)

[30] JP (2014-238451) 2014-11-26

[11] **2,974,598**
[13] C

[51] **Int.Cl. C12P 13/14 (2006.01) C11B 1/00 (2006.01) C12N 1/12 (2006.01) C12P 1/00 (2006.01) C12P 13/10 (2006.01) A23L 33/115 (2016.01) A23L 33/17 (2016.01)**

[25] FR

[54] **PROCESS FOR ENRICHING THE BIOMASS OF THRAUSTOCHYTRIUM GENUS MICROALGAE WITH DHA AND WITH ARG AND GLU AMINO ACIDS**

[54] **PROCEDE D'ENRICHISSEMENT DE LA BIOMASSE DE MICROALGUES DU GENRE THRAUSTOCHYTRIUM EN DHA ET EN ACIDES AMINES ARG ET GLU**

[72] CAULIER, BERNARD, FR

[73] ROQUETTE FRERES, FR

[85] 2017-07-21

[86] 2016-01-26 (PCT/FR2016/050159)

[87] (WO2016/120558)

[30] FR (15 50598) 2015-01-27

[11] **2,974,886**
[13] C

[51] **Int.Cl. A23L 17/30 (2016.01) A23L 29/00 (2016.01) A23L 29/20 (2016.01) A23L 29/256 (2016.01) A23L 29/262 (2016.01) A23P 10/30 (2016.01) C12G 3/06 (2006.01)**

[25] FR

[54] **ALCOHOLIC BEVERAGE CONTAINING PARTICLES COMPRISING A CAVIAR-BASED FOODSTUFF**

[54] **BOISSON ALCOOLISEE CONTENANT DES PARTICULES COMPRENANT UN ALIMENT A BASE DE CAVIAR**

[72] LELEU, MARTINE, FR

[72] BARDON, SEBASTIEN, FR

[72] CANI, JULIE, FR

[72] DELMAS, THOMAS, FR

[73] PERNOD RICARD, FR

[85] 2017-07-25

[86] 2016-03-23 (PCT/FR2016/050639)

[87] (WO2016/151244)

[30] FR (15/52524) 2015-03-26

[11] **2,975,446**
[13] C

[51] **Int.Cl. A61F 2/54 (2006.01)**

[25] EN

[54] **BIO-MECHANICAL PROSTHETIC FINGER WITH H-SHAPED ROCKER**

[54] **DOIGT PROTHETIQUE BIO-MECANIQUE A BASCULE EN FORME DE H**

[72] THOMPSON, ROBERT, JR., US

[72] BENGTTSSON, JON, US

[72] PETO, ANTHONY CHARLES, US

[72] MACDUFF, CHARLES COLIN, US

[72] MINNIS, SYDNEY TYE, US

[72] KLUMPER, ERIC DENNIS, US

[72] CRITTENDEN, BRADLEY ARTHUR, US

[73] RCM ENTERPRISE, LLC, US

[85] 2017-07-28

[86] 2016-02-02 (PCT/US2016/016219)

[87] (WO2016/126736)

[30] US (62/111,464) 2015-02-03

[30] US (62/209,843) 2015-08-25

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[11] **2,975,468**
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 33/03 (2006.01) E21B 43/295 (2006.01)**
[25] EN
[54] **MANUFACTURED GAS WELLPAD EXPANSION APPARATUS AND MODULE**
[54] **MODULE ET APPAREIL D'EXPANSION DE PLATEFORME D'EXPLOITATION DE GAZ FABRIQUE**
[72] LAU, WAYNE W. K., CA
[73] LAU, WAYNE W. K., CA
[86] (2975468)
[87] (2975468)
[22] 2017-08-04
[30] CA (2,938,252) 2016-08-04

[11] **2,975,669**
[13] C

[51] **Int.Cl. H04L 67/141 (2022.01) H04W 4/08 (2009.01) H04L 67/143 (2022.01)**
[25] EN
[54] **A COMMUNICATION SYSTEM FACILITATING A CONTEXTUAL ENVIRONMENT FOR A USER FILLING VARIOUS ROLE AGENTS**
[54] **SYSTEME DE COMMUNICATION FACILITANT UN ENVIRONNEMENT CONTEXTUEL POUR UN UTILISATEUR REMPLISSANT DIFFERENTS AGENTS ROLES**
[72] PINARD, DEBORAH, CA
[73] INITLIVE INC., CA
[86] (2975669)
[87] (2975669)
[22] 2013-08-15
[62] 2,887,070
[30] US (13/644,966) 2012-10-04

[11] **2,976,024**
[13] C

[51] **Int.Cl. G01N 1/02 (2006.01) G01N 1/40 (2006.01) B81B 5/00 (2006.01)**
[25] FR
[54] **DEVICE FOR DETECTING AT LEAST ONE CHEMICAL SPECIES, INCLUDING A CHEMICAL SENSOR, AND METHOD FOR MANUFACTURING SUCH A CHEMICAL SENSOR**
[54] **DISPOSITIF DE CAPTAGE D'AU MOINS UNE ESPECE CHIMIQUE COMPRENANT UN CAPTEUR CHIMIQUE ET PROCEDE DE FABRICATION D'UN TEL CAPTEUR CHIMIQUE**
[72] POINT, DAVID, FR
[72] GAUTIER, ANTHONY, FR
[73] INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT (IRD), FR
[85] 2017-08-08
[86] 2016-02-11 (PCT/FR2016/050317)
[87] (WO2016/128686)
[30] FR (15 51224) 2015-02-13

[11] **2,976,093**
[13] C

[51] **Int.Cl. B64C 25/58 (2006.01) F16F 9/19 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR SHOCK ABSORBER ASSEMBLY**
[54] **DISPOSITIF ANTICHOC DE TRAIN D'ATTERRISSAGE D'UN AERONEF**
[72] SCHMIDT, ROBERT KYLE, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (2976093)
[87] (2976093)
[22] 2017-08-09
[30] EP (16185595.2) 2016-08-25

[11] **2,977,695**
[13] C

[51] **Int.Cl. A61M 1/14 (2006.01) A61M 1/16 (2006.01) G08B 3/10 (2006.01)**
[25] EN
[54] **ADJUSTING SOUND ON A MEDICAL DEVICE**
[54] **REGLAGE DE SON SUR UN DISPOSITIF MEDICAL**
[72] TARN, JEFFREY, US
[72] WANG, FEI, US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2017-08-23
[86] 2016-03-04 (PCT/US2016/020888)
[87] (WO2016/160266)
[30] US (14/670,777) 2015-03-27

[11] **2,977,921**
[13] C

[51] **Int.Cl. G03G 21/18 (2006.01) G03G 21/10 (2006.01)**
[25] EN
[54] **CARTRIDGE**
[54] **CARTOUCHE**
[72] HIRAYAMA, AKINOBU, JP
[72] UENO, TAKAHITO, JP
[72] TAKEUCHI, TOSHIKI, JP
[73] CANON KABUSHIKI KAISHA, JP
[85] 2017-08-25
[86] 2016-02-26 (PCT/JP2016/056688)
[87] (WO2016/137012)
[30] JP (2015-039431) 2015-02-27
[30] JP (2015-232095) 2015-11-27

[11] **2,978,052**
[13] C

[51] **Int.Cl. C08F 2/00 (2006.01) B01J 19/18 (2006.01) C08F 4/6592 (2006.01) C08F 10/02 (2006.01)**
[25] EN
[54] **OPTIMIZED AGITATOR SYSTEM FOR PRODUCTION OF POLYOLEFIN**
[54] **SYSTEME D'AGITATEUR OPTIMISE POUR LA PRODUCTION DE POLYOLEFINE**
[72] LACOMBE, YVES, CA
[72] CLAVELLE, ERIC, CA
[72] SALOMONS, STEPHEN, CA
[72] HAWRYLUK, ANDREW, CA
[72] BROWN, STEPHEN, CA
[72] WALLS, MARION, CA
[73] NOVA CHEMICALS CORPORATION, CA
[85] 2017-06-08
[86] 2016-01-04 (PCT/IB2016/050025)
[87] (WO2016/110795)
[30] US (62/101,082) 2015-01-08

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[11] **2,978,382**

[13] C

- [51] **Int.Cl. A24F 40/46 (2020.01) H05B 1/02 (2006.01)**
[25] EN
[54] **HEATER MANAGEMENT**
[54] **GESTION DE DISPOSITIF DE CHAUFFAGE**
[72] BILAT, STEPHANE, CH
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2017-08-31
[86] 2016-03-21 (PCT/EP2016/056175)
[87] (WO2016/150922)
[30] EP (15161202.5) 2015-03-26

[11] **2,978,848**

[13] C

- [51] **Int.Cl. B63C 9/125 (2006.01) A41D 1/04 (2006.01) A41D 13/012 (2006.01) B63C 9/18 (2006.01)**
[25] EN
[54] **INFLATABLE SURVIVAL VEST**
[54] **VESTE DE SURVIE GONFLABLE**
[72] WHITE, FRANK, CA
[73] WHITE, FRANK, CA
[86] (2978848)
[87] (2978848)
[22] 2017-09-12

[11] **2,979,263**

[13] C

- [51] **Int.Cl. H05B 47/105 (2020.01) H05B 47/11 (2020.01) G05B 19/042 (2006.01)**
[25] EN
[54] **CONTROL DEVICE HAVING AN ILLUMINATED PORTION CONTROLLED IN RESPONSE TO AN EXTERNAL SENSOR**
[54] **DISPOSITIF DE COMMANDE AYANT UNE PARTIE ECLAIREE COMMANDEE EN REPOSE A UN CAPTEUR EXTERNE**
[72] LUDWIG, STEPHEN M., JR., US
[72] STEINER, JAMES P., US
[73] LUTRON TECHNOLOGY COMPANY, LLC, US
[85] 2017-09-08
[86] 2016-03-11 (PCT/US2016/022151)
[87] (WO2016/149132)
[30] US (62/132,592) 2015-03-13
[30] US (62/166,235) 2015-05-26
[30] US (62/240,315) 2015-10-12

[11] **2,979,599**

[13] C

- [51] **Int.Cl. B27N 3/14 (2006.01) E04C 2/16 (2006.01)**
[25] EN
[54] **SCATTERING HEAD, PROCESS AND PANEL**
[54] **TETE D'EPANDAGE, PROCEDE ET PANNEAU**
[72] NIJSSE, JEROEN, NL
[73] MAYFAIR VERMOGENSVERWALTUNGS SE, DE
[85] 2017-09-13
[86] 2016-03-30 (PCT/EP2016/056861)
[87] (WO2016/162244)
[30] DE (10 2015 206 469.7) 2015-04-10
[30] DE (10 2015 209 759.5) 2015-05-28

[11] **2,979,749**

[13] C

- [51] **Int.Cl. C08G 18/22 (2006.01) C08J 9/14 (2006.01)**
[25] EN
[54] **STABLE TWO COMPONENT SPRAY FOAM COMPOSITIONS CONTAINING HYDROHALOOLEFIN PROPELLANT OR BLOWING AGENT**
[54] **COMPOSITIONS STABLES DE MOUSSE A PULVERISER A DEUX COMPOSANTS CONTENANT UN PROPULSEUR OU UN AGENT D'EXPANSION DE TYPE OLEFINE HYDROHALOGENEE**
[72] ZHANG, JAY YUAN, US
[72] NIEMEYER, TIMOTHY A., US
[73] DAP PRODUCTS INC., US
[85] 2017-09-13
[86] 2016-04-08 (PCT/US2016/026569)
[87] (WO2016/164671)
[30] US (62/146,042) 2015-04-10

[11] **2,979,771**

[13] C

- [51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **ASSAYS FOR RECOMBINANT EXPRESSION SYSTEMS**
[54] **DOSAGES POUR SYSTEMES D'EXPRESSION DE RECOMBINAISON**
[72] SCHOLTEN, ARJEN, NL
[73] JANSSEN VACCINES & PREVENTION B.V., NL
[85] 2017-09-14
[86] 2016-03-18 (PCT/EP2016/056056)
[87] (WO2016/146844)
[30] EP (15159717.6) 2015-03-18

[11] **2,980,079**

[13] C

- [51] **Int.Cl. F21V 29/90 (2015.01) H05B 47/00 (2020.01) B64F 1/20 (2006.01) F21V 3/04 (2018.01) H05B 1/02 (2006.01) H05B 3/12 (2006.01)**
[25] EN
[54] **ELEVATED RUNWAY/TAXIWAY FIXTURE AND GLOBE/GLASS HEATER**
[54] **BALISE LUMINEUSE HORS SOL DE PISTE/VOIE DE CIRCULATION ET ELEMENT CHAUFFANT EN VERRE/GLOBE**
[72] GONGOLA, PAUL JOHN, US
[72] SCHNEIDER, JOHN BRIAN, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2017-09-15
[86] 2016-03-16 (PCT/US2016/022610)
[87] (WO2016/149343)
[30] US (14/658,605) 2015-03-16

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[11] **2,980,951**
[13] C

[51] **Int.Cl. H01H 83/00 (2006.01) H01R 24/22 (2011.01) H01H 83/02 (2006.01) H01R 13/66 (2006.01) H01R 13/70 (2006.01)**

[25] EN

[54] **ELECTRICAL UNITS WITH ONBOARD ELECTRONIC MONITORING AND RELATED METHODS**

[54] **UNITES ELECTRIQUES A SURVEILLANCE ELECTRONIQUE A BORD ET PROCEDES ASSOCIES**

[72] MURAHARI, SAIVARAPRASAD, US

[72] DU, LILI, CN

[72] CHEN, JIANGUO, CN

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2017-09-26

[86] 2015-04-01 (PCT/CN2015/075660)

[87] (WO2016/154961)

[11] **2,980,968**
[13] C

[51] **Int.Cl. A01D 80/02 (2006.01) A01D 89/00 (2006.01)**

[25] EN

[54] **TINE SUPPORT**

[54] **PORTE-DENTS**

[72] REITER, THOMAS, AT

[73] REITER, THOMAS, AT

[85] 2017-09-26

[86] 2016-03-24 (PCT/EP2016/056600)

[87] (WO2016/151095)

[30] DE (10 2015 205 561.2) 2015-03-26

[11] **2,981,147**
[13] C

[51] **Int.Cl. G09G 5/00 (2006.01)**

[25] EN

[54] **OPPORTUNISTICALLY CHANGING DISPLAY BRIGHTNESS**

[54] **CHANGEMENT OPPORTUNISTE DE LUMINOSITE D’AFFICHAGE**

[72] WORTHINGTON, BRUCE LEE, US

[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US

[85] 2017-09-27

[86] 2016-03-21 (PCT/US2016/023338)

[87] (WO2016/160382)

[30] US (14/675,961) 2015-04-01

[11] **2,981,777**
[13] C

[51] **Int.Cl. H01M 8/18 (2006.01) H01M 8/04858 (2016.01)**

[25] EN

[54] **FLOW BATTERY BALANCING CELLS HAVING A BIPOLAR MEMBRANE FOR SIMULTANEOUS MODIFICATION OF NEGATIVE AND POSITIVE ELECTROLYTE SOLUTIONS**

[54] **CELLULES D’EQUILIBRAGE DE PILE A CIRCULATION COMPORTANT UNE MEMBRANE BIPOLAIRE DESTINEE A LA MODIFICATION SIMULTANEE DE SOLUTIONS ELECTROLYTIQUES NEGATIVES OU POSITIVES**

[72] REECE, STEVEN Y., US

[72] GOELTZ, JOHN, US

[72] PIJPERS, JOSEPH JOHANNES HENRICUS, US

[72] BADRINARAYANAN, PARAVASTU, US

[73] LOCKHEED MARTIN ENERGY, LLC, US

[85] 2017-10-03

[86] 2016-04-13 (PCT/US2016/027366)

[87] (WO2016/168360)

[30] US (62/147,034) 2015-04-14

[30] US (62/206,933) 2015-08-19

[11] **2,982,399**
[13] C

[51] **Int.Cl. C25B 9/19 (2021.01) C25B 9/73 (2021.01) C25B 15/08 (2006.01) C25B 1/26 (2006.01)**

[25] EN

[54] **ELECTRODE ASSEMBLY, ELECTRODE STRUCTURES AND ELECTROLYSERS**

[54] **ENSEMBLE D’ELECTRODES, STRUCTURES D’ELECTRODES ET ELECTROLYSEURS**

[72] SHANNON, GARY MARTIN, GB

[72] REVILL, BRIAN KENNETH, FR

[73] INEOS TECHNOLOGIES LIMITED, GB

[85] 2017-10-11

[86] 2016-04-12 (PCT/EP2016/058021)

[87] (WO2016/169813)

[30] EP (15164303.8) 2015-04-20

[30] EP (15164309.5) 2015-04-20

[11] **2,983,022**
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01) C12Q 1/02 (2006.01) C12Q 1/04 (2006.01) C12Q 1/20 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **HIGH THROUGHPUT BH3 PROFILING: A RAPID AND SCALABLE TECHNOLOGY TO BH3 PROFILE ON LOW NUMBERS OF CELLS**

[54] **PROFILAGE BH3 A HAUT RENDEMENT : UNE TECHNOLOGIE RAPIDE ET ECHELONNABLE POUR UN PROFIL BH3 SUR UN FAIBLE NOMBRE DE CELLULES**

[72] LETAI, ANTHONY, US

[72] BHOLA, PATRICK, US

[72] RYAN, JEREMY, US

[73] DANA-FARBER CANCER INSTITUTE, INC., US

[85] 2017-10-16

[86] 2016-04-27 (PCT/US2016/029495)

[87] (WO2016/176288)

[30] US (62/153,475) 2015-04-27

[11] **2,983,970**
[13] C

[51] **Int.Cl. B29B 11/16 (2006.01) B29C 70/86 (2006.01) B64C 11/26 (2006.01) F01D 5/28 (2006.01) F03B 3/12 (2006.01)**

[25] FR

[54] **VANE EQUIPPED WITH PLATFORMS COMPRISING A RETAINING LEG**

[54] **AUBE MUNIE DE PLATEFORMES POSSEDANT UNE JAMBE DE RETENUE**

[72] DE GAILLARD, THOMAS ALAIN, FR

[72] BERDOU, CAROLINE JACQUELINE DENISE, FR

[72] BOISSON, ALEXANDRE BERNARD MARIE, FR

[72] GIMAT, MATTHIEU ARNAUD, FR

[73] SAFRAN AIRCRAFT ENGINES, FR

[85] 2017-10-25

[86] 2016-04-26 (PCT/FR2016/050982)

[87] (WO2016/174346)

[30] FR (1553851) 2015-04-29

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[11] **2,984,096**
[13] C

[51] **Int.Cl. H01M 4/583 (2010.01) H01M 4/36 (2006.01)**

[25] EN

[54] **POSITIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS BATTERY, POSITIVE ELECTRODE, AND SECONDARY BATTERY**

[54] **MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIE SECONDAIRE A ELECTROLYTE NON AQUEUX, ELECTRODE POSITIVE ET BATTERIE SECONDAIRE**

[72] KUZUSHIMA, YUSUKE, JP

[72] HARA, TOMITARO, JP

[73] ELIYI POWER CO., LTD., JP

[85] 2017-10-26

[86] 2015-05-01 (PCT/JP2015/063138)

[87] (WO2016/178280)

[11] **2,985,660**
[13] C

[51] **Int.Cl. H01M 4/62 (2006.01) H01M 4/131 (2010.01) H01M 4/1391 (2010.01)**

[25] FR

[54] **PROCESS FOR PROTECTING ELECTRODE MATERIALS AGAINST MOISTURE**

[54] **PROCEDE POUR LA PROTECTION DE MATERIAUX D'ELECTRODE CONTRE L'HUMIDITE**

[72] BELANGER, DANIEL, CA

[72] DELAPORTE, NICOLAS, CA

[72] ZAGHIB, KARIM, CA

[73] HYDRO-QUEBEC, CA

[73] TRANSFERT PLUS, S.E.C., CA

[85] 2017-11-10

[86] 2016-01-04 (PCT/CA2016/050002)

[87] (WO2016/187699)

[30] US (62/166,946) 2015-05-27

[11] **2,985,913**
[13] C

[51] **Int.Cl. H02N 2/04 (2006.01) B64C 21/02 (2006.01) F04B 43/04 (2006.01) F04B 45/047 (2006.01) F15D 1/00 (2006.01) F15D 1/12 (2006.01)**

[25] EN

[54] **PIEZOELECTRIC BIMORPH DISK OUTER BOUNDARY DESIGN AND METHOD FOR PERFORMANCE OPTIMIZATION**

[54] **MODELE DE FRONTIERE EXTERIEURE DE DISQUE BIMORPHE PIEZOELECTRIQUE ET METHODE D'OPTIMISATION DU RENDEMENT**

[72] CLINGMAN, DAN J., US

[72] SASSOON, AARON M., US

[73] THE BOEING COMPANY, US

[86] (2985913)

[87] (2985913)

[22] 2017-11-15

[30] US (15/403,606) 2017-01-11

[11] **2,984,284**
[13] C

[51] **Int.Cl. A22C 25/00 (2006.01) A22C 25/04 (2006.01) A22C 25/08 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR TRACING WITH VISION**

[54] **APPAREIL ET PROCEDE PAR LE TRACAGE PAR LA VISION**

[72] ARNASON, INGOLFUR, IS

[73] LAMBHUSASUND EHF., IS

[85] 2017-10-27

[86] 2015-05-05 (PCT/IS2015/050006)

[87] (WO2015/170350)

[30] IS (9046) 2014-05-05

[11] **2,985,876**
[13] C

[51] **Int.Cl. B01D 46/10 (2006.01) F24F 8/108 (2021.01) B01D 46/42 (2006.01) F24F 13/28 (2006.01)**

[25] EN

[54] **A FILTER HOUSING FOR AN AIR VENTILATION SYSTEM**

[54] **BOITIER DE FILTRE POUR SYSTEME DE VENTILATION D'AIR**

[72] ADDINGTON, RICHARD, CN

[73] CAMFIL AB, SE

[85] 2017-11-14

[86] 2016-05-11 (PCT/EP2016/060543)

[87] (WO2016/180871)

[30] SE (1550623-1) 2015-05-13

[11] **2,986,012**
[13] C

[51] **Int.Cl. A61M 5/36 (2006.01) A61M 5/142 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **AIR IN-LINE SENSING SYSTEM FOR IV INFUSION LINES**

[54] **SYSTEME DE DETECTION D'AIR DANS LA LIGNE POUR LIGNES DE PERFUSION INTRAVEINEUSE**

[72] ABAL, DANIEL, US

[73] CAREFUSION 2200, INC., US

[85] 2017-11-14

[86] 2016-01-08 (PCT/US2016/012731)

[87] (WO2016/190904)

[30] US (14/721,928) 2015-05-26

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[11] **2,986,079**
[13] C

[51] **Int.Cl. B04C 5/14 (2006.01) B04C 9/00 (2006.01)**
[25] EN
[54] **HYDRODYNAMIC REMOVAL OF DENSE MATERIALS FROM A SLURRY**
[54] **SEPARATION HYDRODYNAMIQUE DES MATIERES LOURDES D'UNE SUSPENSION**
[72] CARRA, ROLAND, DE
[72] FLUCK, PATRICK, DE
[72] ZIEGLER, TOBIAS, DE
[73] BTA INTERNATIONAL GMBH, DE
[85] 2017-11-15
[86] 2016-06-03 (PCT/EP2016/062601)
[87] (WO2017/016718)
[30] DE (10 2015 112 254.5) 2015-07-28

[11] **2,986,486**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/46 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **MOLECULAR CONSTRUCTS WITH TARGETING AND EFFECTOR ELEMENTS AND THEIR APPLICATIONS**
[54] **CONSTRUCTIONS MOLECULAIRES A ELEMENTS DE CIBLAGE ET EFFECTEURS ET LEURS APPLICATIONS**
[72] CHANG, TSE-WEN, CN
[72] CHU, HSING-MAO, CN
[72] LIN, CHIEN-JEN, CN
[72] LIN, CHUN-YU, CN
[72] CHEN, JOU-HAN, CN
[72] DU, LI-YUN, CN
[72] TIAN, WEI-TING, CN
[73] IMMUNWORK INC., CN
[85] 2017-11-20
[86] 2016-05-20 (PCT/CN2016/082785)
[87] (WO2016/184426)
[30] US (62/164,400) 2015-05-20
[30] US (62/213,012) 2015-09-01
[30] CN (PCT/CN2016/071184) 2016-01-18
[30] US (62/308,349) 2016-03-15

[11] **2,986,565**
[13] C

[51] **Int.Cl. C12N 1/20 (2006.01) C12P 5/02 (2006.01) C12P 19/00 (2006.01) C12P 19/04 (2006.01) C12P 19/14 (2006.01)**
[25] EN
[54] **METHOD OF CELLULOSE HYDROLYSIS FOR BIOGAS PRODUCTION**
[54] **HYDROLYSE DE CELLULOSE POUR PRODUCTION DE BIOGAZ**
[72] BALABAN, MURAT, TR
[72] KILINC, MURAT BAHADIR, TR
[73] EPISOME BIYOTEKNOLOJIK URUNLER SANAYI VE TICARET ANONIM SIRKETI, TR
[85] 2017-11-20
[86] 2016-05-26 (PCT/TR2016/050156)
[87] (WO2016/209183)
[30] TR (2015/07790) 2015-06-24

[11] **2,986,970**
[13] C

[51] **Int.Cl. A23K 50/40 (2016.01) A23K 50/48 (2016.01) A23J 1/04 (2006.01) A23J 3/00 (2006.01) A23J 3/30 (2006.01) A23J 3/34 (2006.01)**
[25] EN
[54] **NOVEL MARINE PROTEIN HYDROLYSATES AND USES THEREOF**
[54] **NOUVEAUX HYDROLYSATS DE PROTEINES D'ORIGINE MARINE ET LEURS UTILISATIONS**
[72] RORSTAD, GUNNAR, NO
[72] ABRAHAMSEN, HOGNE, NO
[72] TANDE, KURT, NO
[73] CALANUS AS, NO
[85] 2017-11-23
[86] 2016-05-27 (PCT/EP2016/062029)
[87] (WO2016/193155)
[30] NO (20150692) 2015-05-29

[11] **2,987,029**
[13] C

[51] **Int.Cl. H01P 3/16 (2006.01) H01P 3/10 (2006.01) H04B 3/00 (2006.01)**
[25] EN
[54] **TRANSMISSION MEDIUM HAVING AN INNER WAVEGUIDE AND METHODS FOR USE THEREWITH**
[54] **SUPPORT DE TRANSMISSION AYANT UN GUIDE D'ONDES INTERNE ET PROCEDES D'UTILISATION ASSOCIES**
[72] BENNETT, ROBERT, US
[72] HENRY, PAUL SHALA, US
[72] BARZEGAR, FARHAD, US
[72] GERSZBERG, IRWIN, US
[72] BARNICKEL, DONALD J., US
[72] WILLIS, THOMAS M., III, US
[73] AT&T INTELLECTUAL PROPERTY I, L.P., US
[85] 2017-11-23
[86] 2016-04-20 (PCT/US2016/028412)
[87] (WO2016/200492)
[30] US (14/734,073) 2015-06-09

[11] **2,987,034**
[13] C

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[25] EN
[54] **USE OF AN ORGANIC CITRUS EXTRACT WITH HIGH ANTIMICROBIAL CAPACITY AND XYLITOL AS A PRESERVATIVE SYSTEM IN LIQUIDS, EMULSIONS, SUSPENSIONS, CREAMS AND ANTACIDS**
[54] **UTILISATION D'UN EXTRAIT D'AGRUME ORGANIQUE A HAUTE CAPACITE ANTIMICROBIENNE ET DE XYLITOL EN TANT QUE SYSTEME DE CONSERVATION DANS DES LIQUIDES, DES EMULSIONS, DES SUSPENSIONS, D'ES CREMES ET DES ANTIACIDES**
[72] BARRAZA, JAVIER, BR
[72] MUNIZ, RENATA, BR
[73] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2017-11-23
[86] 2016-05-26 (PCT/US2016/034376)
[87] (WO2016/196209)
[30] US (62/168,002) 2015-05-29

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[13] C

[51] **Int.Cl. B01D 33/067 (2006.01) B01D 33/82 (2006.01)**
[25] EN
[54] **FILTER PANEL WITH STRUCTURES SUPPORT GRID AND DRUM FILTER WITH SAID FILTER PANEL**
[54] **PANNEAU FILTRANT AVEC GRILLE DE SUPPORT DE STRUCTURES ET FILTRE A TAMBOUR DOTE DUDIT PANNEAU FILTRANT**
[72] THYSELL, FILIP, SE
[72] SVENSSON, EMIL, SE
[72] SVENSSON, KJELL-AKE, SE
[72] LARSSON, PER, SE
[73] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR
[85] 2017-11-30
[86] 2016-06-21 (PCT/EP2016/064272)
[87] (WO2016/207143)
[30] SE (1550862-5) 2015-06-23

[11] **2,989,101**
[13] C

[51] **Int.Cl. B22D 11/103 (2006.01) B22D 11/18 (2006.01) B22D 35/04 (2006.01)**
[25] EN
[54] **EQUIPMENT FOR CONTINUOUS OR SEMI-CONTINUOUS CASTING OF METAL WITH IMPROVED METAL FILLING ARRANGEMENT**
[54] **EQUIPEMENT POUR COULEE CONTINUE OU SEMI-CONTINUE DE METAL AVEC AGENCEMENT DE REMPLISSAGE DE METAL AMELIORE**
[72] ROEN, GEIR ATLE, NO
[72] SJOLSET, DANIEL ANDERS, NO
[72] HAKONSEN, ARILD, NO
[72] LEDAL, RUNE, NO
[72] HAFSAS, JOHN ERIK, NO
[72] TUNDAL, ULF HAKON, NO
[73] NORSK HYDRO ASA, NO
[85] 2017-12-11
[86] 2016-05-23 (PCT/NO2016/000017)
[87] (WO2017/007329)
[30] NO (20150869) 2015-07-03

[11] **2,989,530**
[13] C

[51] **Int.Cl. H04W 52/02 (2009.01)**
[25] EN
[54] **TERMINAL DEVICE, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT**
[54] **DISPOSITIF TERMINAL, PROCEDE DE COMMUNICATION ET CIRCUIT INTEGRE**
[72] SUZUKI, SHOICHI, JP
[72] AIBA, TATSUSHI, JP
[73] SHARP KABUSHIKI KAISHA, JP
[85] 2017-12-14
[86] 2016-06-15 (PCT/JP2016/067741)
[87] (WO2016/204165)
[30] JP (2015-123364) 2015-06-19

[11] **2,989,683**
[13] C

[51] **Int.Cl. C08F 2/12 (2006.01) C08F 220/58 (2006.01) C08F 230/02 (2006.01) C09K 8/035 (2006.01) C09K 8/42 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING POLYMERS ON THE BASIS OF ACRYLOYLDIMETHYLTAURATE, NEUTRAL MONOMERS, AND MONOMERS WITH CARBOXYLATE GROUPS**
[54] **PROCEDE DE FABRICATION DE POLYMERES A BASE D'ACRYLOYLDIMETHYLTAURATE, DE MONOMERES NEUTRES ET DE MONOMERES COMPORTANT DES GROUPES CARBOXYLATES**
[72] FISCHER, DIRK, DE
[72] KAYSER, CHRISTOPH, DE
[72] DIEMEL, CLAUDIA, DE
[72] BERZ, KATHARINA, DE
[73] CLARIANT INTERNATIONAL LTD, CH
[85] 2017-12-15
[86] 2016-05-31 (PCT/EP2016/062285)
[87] (WO2016/202578)
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[11] **2,991,657**
[13] C

[51] **Int.Cl. A61H 19/00 (2006.01) A61H 21/00 (2006.01) A61H 23/02 (2006.01)**
[25] EN
[54] **COMBINATION INTERNAL AND EXTERNAL SEXUAL STIMULATION DEVICE**
[54] **DISPOSITIF COMBINE DE STIMULATION SEXUELLE INTERNE ET EXTERNE**
[72] BAETICA, FLORIN, CA
[72] MURISON, BRUCE DONALD, CA
[73] WOW TECH CANADA LTD., CA
[85] 2018-01-08
[86] 2016-07-08 (PCT/CA2016/050800)
[87] (WO2017/004721)
[30] US (62/189,989) 2015-07-08

[11] **2,992,283**
[13] C

[51] **Int.Cl. G01N 27/327 (2006.01) H01C 17/00 (2006.01)**
[25] EN
[54] **ENCODED BIOSENSORS AND METHODS OF MANUFACTURE AND USE THEREOF**
[54] **BIOCAPTEURS CODES, LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] MOORE, STEVEN, US
[72] RIGGLES, RANDALL, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2018-01-11
[86] 2016-08-09 (PCT/US2016/046124)
[87] (WO2017/039976)
[30] US (14/822,963) 2015-08-11

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[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01)**
[25] EN
[54] **ANALYTICS RULES ENGINE FOR PAYMENT PROCESSING SYSTEM**
[54] **MOTEUR DE REGLES D'ANALYSE POUR SYSTEME DE TRAITEMENT DE PAIEMENT**
[72] SAUNDERS, GREG, US
[72] GERBER, THEUNIS JOHANNES, US
[72] WIESMAN, MARK, US
[73] MASTERCARD INTERNATIONAL INCORPORATED, US
[85] 2018-01-12
[86] 2016-07-13 (PCT/US2016/041965)
[87] (WO2017/011488)
[30] US (14/798,792) 2015-07-14

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[13] C

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[25] EN
[54] **METHODS OF TREATING LENNOX-GASTAUT SYNDROME USING FENFLURAMINE**
[54] **METHODES DE TRAITEMENT DE SYNDROME DE LENNOX-GASTAUT A L'AIDE DE FENFLURAMINE**
[72] FARR, STEPHEN J., US
[72] GALER, BRADLEY S., US
[73] ZOGENIX INTERNATIONAL LIMITED, GB
[85] 2018-01-24
[86] 2016-08-24 (PCT/US2016/048470)
[87] (WO2017/035267)
[30] US (62/209,090) 2015-08-24

[11] **2,993,876**
[13] C

[51] **Int.Cl. A61B 90/00 (2016.01) G06F 3/0482 (2013.01) G16H 10/00 (2018.01) G16H 40/60 (2018.01) G06F 3/042 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PERFORMING MEDICAL PROCEDURES AND FOR ACCESSING AND/OR MANIPULATING MEDICALLY RELEVANT INFORMATION**
[54] **PROCEDES ET SYSTEMES POUR EXECUTER DES ACTES MEDICAUX ET ACCEDER A DES INFORMATIONS MEDICALEMENT PERTINENTES ET/OU MANIPULER DE TELLES INFORMATIONS**
[72] ZIRAKNEJAD, NIMA, CA
[72] HOMAYOON, BEHRANG, CA
[72] LAWRENCE, PETER, CA
[72] LIU, DAVID MING-TEH, US
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2018-01-26
[86] 2015-08-13 (PCT/CA2015/050764)
[87] (WO2016/023123)
[30] US (62/038,157) 2014-08-15

[11] **2,994,052**
[13] C

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 3/06 (2006.01) B01D 53/18 (2006.01)**
[25] EN
[54] **A METHOD FOR REVAMPING A CO2 REMOVAL SECTION FOR PURIFICATION OF A HYDROGEN-CONTAINING GAS**
[54] **PROCEDE POUR RESTRUCTURER UNE SECTION D'ELIMINATION DE CO2 POUR LA PURIFICATION D'UN GAZ CONTENANT DE L'HYDROGENE**
[72] PANZA, SERGIO, IT
[73] CASALE SA, CH
[85] 2018-01-29
[86] 2016-08-08 (PCT/EP2016/068863)
[87] (WO2017/029145)
[30] EP (15181571.9) 2015-08-19

[11] **2,996,217**
[13] C

[51] **Int.Cl. C23C 30/00 (2006.01) F01D 5/28 (2006.01)**
[25] FR
[54] **TURBINE ENGINE PART COVERED WITH A PROTECTIVE CERAMIC COATING, METHOD FOR MANUFACTURING AND FOR USING SUCH A PART**
[54] **PIECE DE TURBOMACHINE REVETUE D'UN REVETEMENT CERAMIQUE DE PROTECTION, PROCEDE DE FABRICATION ET D'UTILISATION D'UNE TELLE PIECE**
[72] PODGORSKI, MICHAEL, FR
[72] BERTHOD, PATRICE, FR
[72] MATHIEU, STEPHANE, FR
[72] PORTEBOIS, LEO, FR
[72] VILASI, MICHEL, FR
[73] SAFRAN, FR
[85] 2018-02-21
[86] 2016-10-04 (PCT/FR2016/052537)
[87] (WO2017/060603)
[30] FR (1559532) 2015-10-07

[11] **2,996,943**
[13] C

[51] **Int.Cl. B29C 70/36 (2006.01)**
[25] EN
[54] **COMPACTED STRINGER PACKAGES**
[54] **EMBALLAGES DE TRAVERSES COMPACTEES**
[72] PRAUSE, RICHARD ALEXANDER, US
[72] HEATH, RICHARD, US
[72] MODIN, ANDREW ELMER, US
[73] THE BOEING COMPANY, US
[86] (2996943)
[87] (2996943)
[22] 2018-02-28
[30] US (15/586153) 2017-05-03
[30] US (15/649162) 2017-07-13

[11] **2,997,122**
[13] C

[51] **Int.Cl. B67D 7/52 (2010.01) B67D 7/08 (2010.01) B67D 7/14 (2010.01) B60K 15/04 (2006.01)**
[25] EN
[54] **DELIVERY VALVE**
[54] **ROBINET DE DISTRIBUTION**
[72] KUNTER, STEFAN, DE
[72] MEYER, HEINZ-ULRICH, DE
[73] ELAFLEX HIBY GMBH & CO. KG, DE
[86] (2997122)
[87] (2997122)
[22] 2018-03-02
[30] EP (17159180.3) 2017-03-03

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[11] **2,997,869**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4025 (2006.01) A61K 31/409 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4545 (2006.01) A61P 25/00 (2006.01) C07D 211/48 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **N-(HETERO)ARYL-SUBSTITUTED HETEROYCLIC DERIVATIVES USEFUL FOR THE TREATMENT OF DISEASES OR CONDITIONS RELATED TO THE CENTRAL NERVOUS SYSTEM**

[54] **DERIVES HETEROCYCLIQUES SUBSTITUES PAR N-(HETERO)ARYLE UTILES POUR LE TRAITEMENT DE MALADIES OU D'AFFECTIONS LIEES AU SYSTEME NERVEUX CENTRAL**

[72] CREMONESI, SUSANNA, IT
[72] MICHELI, FABRIZIO, IT
[72] SEMERARO, TERESA, IT
[72] TARSI, LUCA, IT
[72] LUKER, TIM, GB
[72] LESLIE, COLIN, IT
[73] CHRONOS THERAPEUTICS LIMITED, GB

[85] 2018-03-07
[86] 2015-09-14 (PCT/IB2015/057031)
[87] (WO2016/042453)
[30] GB (1416351.3) 2014-09-16

[11] **2,997,894**
[13] C

[51] **Int.Cl. B62M 11/00 (2006.01) B62M 11/14 (2006.01) B62M 11/18 (2006.01)**

[25] EN

[54] **AN AUTOMATIC TRANSMISSION SYSTEM WHERE GEAR ENGAGEMENT IS DETERMINED BY THE ANGULAR VELOCITY OF THE DRIVEN WHEEL**

[54] **SYSTEME DE TRANSMISSION AUTOMATIQUE DANS LEQUEL UN ENGRENEMENT DE ROUE DENTEE EST DETERMINE PAR LA VITESSE ANGULAIRE DE LA ROUE ENTRAINEE**

[72] POPPER, ZIV ACHITUV, IL
[72] POPPER, BOAZ JACHIN, IL
[73] POPPER TECHNOLOGIES (1983) LTD, IL

[73] POPPER, ZIV ACHITUV, IL

[85] 2018-03-07
[86] 2015-09-10 (PCT/IL2015/050926)
[87] (WO2016/042548)
[30] GB (1416382.8) 2014-09-17

[11] **2,999,247**
[13] C

[51] **Int.Cl. A23K 20/20 (2016.01) A23K 10/16 (2016.01) A23K 10/30 (2016.01) A23K 20/00 (2016.01) A23K 20/163 (2016.01) A23K 20/174 (2016.01)**

[25] EN

[54] **COMPOSITIONS AND COMBINATIONS FOR USE AS FOOD SUPPLEMENTS FOR ANIMALS**

[54] **COMPOSITIONS ET COMBINAISONS A UTILISER COMME COMPLEMENTES ALIMENTAIRES POUR ANIMAUX**

[72] CALABOTTA, DAVID, US
[72] CHAPMAN, JAMES D., US
[72] COSTIGAN, TIM, US
[72] FORSBERG, NEIL E., US
[72] KNEHANS, WENDELL, US
[72] MCLEAN, DEREK, US
[72] PUNTENNEY, STEVEN B., US
[72] ROWSON, ANGELA D., US
[73] OMNIGEN RESEARCH, LLC, US

[85] 2018-03-20
[86] 2015-10-01 (PCT/US2015/053439)
[87] (WO2016/054338)
[30] US (62/058,461) 2014-10-01

[11] **2,999,337**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 2/04 (2013.01) A61M 27/00 (2006.01) A61M 39/08 (2006.01)**

[25] EN

[54] **AN IMPLANTABLE DRAINAGE DEVICE**

[54] **DISPOSITIF DE DRAINAGE IMPLANTABLE**

[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT

[86] (2999337)
[87] (2999337)
[22] 2009-01-28
[62] 2,749,759
[30] US (61/006,711) 2008-01-28

[11] **2,999,661**
[13] C

[51] **Int.Cl. B01D 63/16 (2006.01) C02F 1/44 (2006.01)**

[25] EN

[54] **ROTARY FILTER ARRANGEMENT HAVING A PLURALITY OF HOLLOW SHAFTS**

[54] **ENSEMBLE FILTRE TOURNANT DOTE DE PLUSIEURS ARBRES CREUX**

[72] GROENE, VERENA, DE
[73] GEA MECHANICAL EQUIPMENT GMBH, DE

[85] 2018-03-22
[86] 2016-10-14 (PCT/EP2016/074725)
[87] (WO2017/071975)
[30] DE (10 2015 118 275.0) 2015-10-27

[11] **3,000,877**
[13] C

[51] **Int.Cl. H02H 9/00 (2006.01) H02H 1/04 (2006.01) H02H 3/08 (2006.01) H02H 3/42 (2006.01) H02H 9/02 (2006.01) H03K 17/00 (2006.01)**

[25] EN

[54] **ELECTRONIC CIRCUIT BREAKER**

[54] **DISJONCTEUR ELECTRONIQUE**

[72] ASANZA MALDONADO, DIEGO FERNANDO, DE
[73] ELLENBERGER & POENSGEN GMBH, DE

[85] 2018-04-04
[86] 2016-08-02 (PCT/EP2016/068464)
[87] (WO2017/059983)
[30] DE (10 2015 219 545.7) 2015-10-08

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[11] **3,001,072**
[13] C

[51] **Int.Cl. C04B 35/622 (2006.01) B22D 13/00 (2006.01) B22F 3/06 (2006.01) B22F 3/11 (2006.01) B22F 7/04 (2006.01) B28B 1/20 (2006.01) B28B 1/28 (2006.01) B28B 1/52 (2006.01) B28B 21/30 (2006.01) B29C 70/02 (2006.01) B29C 70/32 (2006.01) B32B 18/00 (2006.01) C04B 35/111 (2006.01) C04B 35/80 (2006.01) C04B 41/45 (2006.01)**

[25] FR

[54] **PROCESS FOR MANUFACTURING AN IMPREGNATED FIBROUS ASSEMBLY**

[54] **PROCEDE DE FABRICATION D'UN ASSEMBLAGE FIBREUX IMPREGNE**

[72] GODON, THIERRY CLAUDE HENRI, FR

[72] PODGORSKI, MICHAEL, FR

[73] SAFRAN AIRCRAFT ENGINES, FR

[73] SAFRAN, FR

[85] 2018-04-05

[86] 2016-10-05 (PCT/FR2016/052550)

[87] (WO2017/060615)

[30] FR (1559566) 2015-10-08

[11] **3,001,132**
[13] C

[51] **Int.Cl. B67C 3/02 (2006.01) B29C 49/00 (2006.01) B67B 3/02 (2006.01) B67C 3/22 (2006.01)**

[25] EN

[54] **METHOD OF APPLYING TOP LOAD FORCE**

[54] **PROCEDE D'APPLICATION DE FORCE DE CHARGE SUPERIEURE**

[72] LANE, MICHAEL T., US

[73] AMCOR RIGID PLASTICS USA, LLC, US

[85] 2018-04-05

[86] 2015-12-07 (PCT/US2015/064186)

[87] (WO2017/099703)

[11] **3,001,385**
[13] C

[51] **Int.Cl. H04W 76/00 (2018.01) H04W 4/12 (2009.01) H04W 56/00 (2009.01) H04W 80/02 (2009.01) H04W 84/18 (2009.01) G08B 21/18 (2006.01) H04J 3/00 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM AND APPARATUS FOR ENABLING VEHICULAR COMMUNICATIONS**

[54] **PROCEDE, SYSTEME ET APPAREIL POUR PERMETTRE DES COMMUNICATIONS VEHICULAIRES**

[72] ZHUANG, WEIHUA, CA

[72] SHEN, XUEMIN, CA

[72] OMAR, HASSAN ABOUBAKR, CA

[72] LU, NING, CA

[72] BHARATI, SAILESH, CA

[73] ZHUANG, WEIHUA, CA

[73] SHEN, XUEMIN, CA

[73] OMAR, HASSAN ABOUBAKR, CA

[73] LU, NING, CA

[73] BHARATI, SAILESH, CA

[85] 2018-04-06

[86] 2015-10-14 (PCT/CA2015/051038)

[87] (WO2016/058099)

[30] US (62/122,214) 2014-10-15

[30] US (62/143,368) 2015-04-06

[11] **3,002,192**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/705 (2006.01) C07K 16/30 (2006.01) C12N 15/13 (2006.01) G01N 33/53 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **ANTIBODIES TO MUC16 AND METHODS OF USE THEREOF**

[54] **ANTICORPS ANTI-MUC16 ET LEURS PROCEDES D'UTILISATION**

[72] SPRIGGS, DAVID, US

[72] THAPI, DHARMARAO, US

[73] MEMORIAL SLOAN-KETTERING CANCER CENTER, US

[86] (3002192)

[87] (3002192)

[22] 2011-03-25

[62] 2,793,753

[30] US (61/317,964) 2010-03-26

[11] **3,002,498**
[13] C

[51] **Int.Cl. B22D 2/00 (2006.01) B22D 41/08 (2006.01) B22D 41/22 (2006.01) B22D 41/24 (2006.01) B22D 41/36 (2006.01) B22D 41/60 (2006.01)**

[25] EN

[54] **SLIDE CLOSURE ON THE SPOUT OF A METALLURGICAL VESSEL**

[54] **FERMETURE COULISSANTE A LA SORTIE DE COULEE D'UN RECIPIENT METALLURGIQUE**

[72] VUKOVIC, GORAN, AT

[72] GAMWEGER, KLAUS, AT

[72] ZIVANOVIC, BOJAN, AT

[73] REFRACTORRY INTELLECTUAL PROPERTY GMBH & CO. KG, AT

[85] 2018-04-18

[86] 2016-11-29 (PCT/EP2016/079100)

[87] (WO2017/093236)

[30] EP (15197202.3) 2015-12-01

[11] **3,003,497**
[13] C

[51] **Int.Cl. H02P 1/58 (2006.01) H02J 9/06 (2006.01) H02P 27/08 (2006.01)**

[25] EN

[54] **CLOSED-TRANSITION VARIABLE-FREQUENCY DRIVE APPARATUS AND METHODS**

[54] **APPAREILS ET PROCEDES D'ENTRAINEMENT A FREQUENCE VARIABLE ET A TRANSITION FERMEE**

[72] GIBBS, IRVING ALBERT, US

[72] FARR, THOMAS ARTHUR, US

[72] VENHAUS, GREGORY JOHN, US

[72] VANDERMEULEN, AARON H., US

[73] EATON INTELLIGENT POWER LIMITED, IE

[85] 2018-04-27

[86] 2016-05-06 (PCT/US2016/031116)

[87] (WO2017/074508)

[30] US (62/248,773) 2015-10-30

[30] US (15/057,568) 2016-03-01

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[11] **3,004,052**

[13] C

- [51] **Int.Cl. A41C 3/00 (2006.01) A41C 5/00 (2006.01)**
[25] EN
[54] **FLAT-KNIT SUPPORT GARMENT FOR UPPER TORSO**
[54] **VETEMENT DE SUPPORT EN TRICOT RECTILIGNE POUR TORSE SUPERIEUR**
[72] DIAZ, JOSUE, US
[72] MAHESHWARI, RICHA, US
[72] MONTGOMERY, PAUL R., US
[72] SEARS, LORI, US
[72] STAUB, ANDREA J., US
[72] TANIOS, MICHAEL, US
[72] SOKOLOWSKI, SUSAN, US
[72] TEMPESTA, LAURA, US
[73] NIKE INNOVATE C.V., US
[85] 2018-05-02
[86] 2016-11-03 (PCT/US2016/060261)
[87] (WO2017/079393)
[30] US (62/250,316) 2015-11-03
[30] US (15/341,788) 2016-11-02

[11] **3,004,477**

[13] C

- [51] **Int.Cl. B61D 3/18 (2006.01) B61D 47/00 (2006.01)**
[25] EN
[54] **SUSPENSION DEVICE FOR CABLES AND TUBINGS**
[54] **DISPOSITIF DE SUSPENSION POUR CABLES ET TUYAUX**
[72] ERIKSSON, JAN, SE
[73] FLEXIWAGGON AB, SE
[85] 2018-05-07
[86] 2015-12-11 (PCT/EP2015/079403)
[87] (WO2017/097373)

[11] **3,004,554**

[13] C

- [51] **Int.Cl. G05D 1/02 (2020.01) B60W 30/09 (2012.01) B60W 30/095 (2012.01) B60W 40/02 (2006.01) B66F 9/075 (2006.01) B66F 9/24 (2006.01)**
[25] EN
[54] **MULTIPLE ZONE SENSING FOR MATERIALS HANDLING VEHICLES**
[54] **DETECTIONS DE ZONES MULTIPLES POUR VEHICULES DE MANIPULATION DE MATERIAUX**
[72] ELSTON, EDWIN R., US
[72] SIEFRING, VERNON W., US
[72] JENSEN, ERIC L., US
[73] CROWN EQUIPMENT CORPORATION, US
[86] (3004554)
[87] (3004554)
[22] 2009-12-04
[62] 2,743,706
[30] US (61/119,952) 2008-12-04
[30] US (61/222,632) 2009-07-02
[30] US (61/234,866) 2009-08-18

[11] **3,005,040**

[13] C

- [51] **Int.Cl. G01T 1/185 (2006.01) G01T 1/178 (2006.01)**
[25] EN
[54] **SINGLE BODY QUADRUPLE CYLINDER TRITIUM MEASURING APPARATUS**
[54] **APPAREIL DE MESURE DU TRITIUM A CYLINDRE QUADRUPLE DANS UN SEUL CORPS**
[72] ZHANG, XIAOWEI, CA
[72] WU, JIANGRONG, CA
[72] NACSON, SABATINO, CA
[73] ZHANG, XIAOWEI, CA
[86] (3005040)
[87] (3005040)
[22] 2018-05-16
[30] US (62507023) 2017-05-16

[11] **3,005,673**

[13] C

- [51] **Int.Cl. H04W 48/20 (2009.01) H04W 24/08 (2009.01) H04W 36/32 (2009.01) H04W 72/02 (2009.01) H04W 84/18 (2009.01) H04W 4/029 (2018.01) H04W 4/44 (2018.01) B60W 60/00 (2020.01) G05D 1/02 (2020.01) G08G 1/0968 (2006.01) H01Q 1/32 (2006.01) G01C 21/28 (2006.01)**
[25] EN
[54] **OPTIMIZING COMMUNICATION FOR AUTOMATED VEHICLES**
[54] **OPTIMISATION DE COMMUNICATION POUR VEHICULES AUTOMATISES**
[72] ROSS, WILLIAM, US
[72] AITKEN, MICHAEL, US
[73] UATC, LLC, US
[85] 2018-05-16
[86] 2016-12-08 (PCT/US2016/065656)
[87] (WO2017/100473)
[30] US (14/962,847) 2015-12-08
[30] US (14/962,876) 2015-12-08
[30] US (14/962,918) 2015-12-08
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[11] **3,005,690**

[13] C

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[25] EN
[54] **AN APPARATUS AND METHOD FOR TREATING A NEUROLOGICAL DISORDER OF THE AUDITORY SYSTEM**
[54] **APPAREIL ET METHODE POUR TRAITER UN TROUBLE NEUROLOGIQUE DU SYSTEME AUDITIF**
[72] HUGHES, STEPHEN, IE
[72] O'NEILL, ROSS, IE
[72] CONLON, BRENDAN, IE
[72] HAMILTON, CAROLINE, IE
[72] D'ARCY, SHONA, IE
[73] NEUROMOD DEVICES LIMITED, IE
[85] 2018-05-17
[86] 2016-11-17 (PCT/EP2016/078077)
[87] (WO2017/085227)
[30] IE (2015/0407) 2015-11-17
[30] EP (15195055.7) 2015-11-17

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[11] **3,006,155**
[13] C

[51] **Int.Cl. G05D 1/10 (2006.01) B64D 39/02 (2006.01) G01B 11/00 (2006.01) G01C 11/34 (2006.01)**

[25] EN

[54] **POSITIONING SYSTEM FOR AERIAL NON-DESTRUCTIVE INSPECTION**

[54] **SYSTEME DE POSITIONNEMENT DESTINE A L'INSPECTION AERIENNE NON DESTRUCTIVE**

[72] TROY, JAMES J., US

[72] GEORGESON, GARY E., US

[72] LEA, SCOTT W., US

[73] THE BOEING COMPANY, US

[86] (3006155)

[87] (3006155)

[22] 2018-05-24

[30] US (15/714662) 2017-09-25

[11] **3,006,401**
[13] C

[51] **Int.Cl. C10L 5/44 (2006.01)**

[25] EN

[54] **BIOMASS BASED FUEL CONFIGURED TO REDUCE A CHEMICAL AND/OR MECHANICAL EFFECT OF FLUE GAS ON HEAT TRANSFER SURFACES AND A METHOD FOR MAKING THE SAME**

[54] **COMBUSTIBLE A BASE DE BIOMASSE CONCU POUR REDUIRE UN EFFET CHIMIQUE ET/OU MECANIQUE DE GAZ DE FUMEEES SUR DES SURFACES DE TRANSFERT DE CHALEUR ET SON PROCEDE DE FABRICATION**

[72] JORONEN, TERO, FI

[73] VALMET TECHNOLOGIES OY, FI

[85] 2018-05-25

[86] 2016-11-10 (PCT/FI2016/050792)

[87] (WO2017/089648)

[30] FI (20155876) 2015-11-26

[11] **3,006,727**
[13] C

[51] **Int.Cl. A61M 39/20 (2006.01)**

[25] EN

[54] **FLEXIBLE CAP FOR CONICAL CONNECTORS**

[54] **CAPUCHON FLEXIBLE POUR CONNECTEURS CONIQUES**

[72] GRIFFITH, NATHAN, US

[72] BECKER, NEIL M., US

[73] AVENT, INC., US

[85] 2018-05-29

[86] 2015-11-30 (PCT/US2015/062977)

[87] (WO2017/095373)

[11] **3,008,426**
[13] C

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[25] EN

[54] **FEMORAL BASE PLATE FOR TOTAL HIP ARTHROPLASTY**

[54] **PLAQUE DE BASE FEMORALE POUR L'ARTHROPLASTIE TOTALE DE HANCHE**

[72] MAHFOUZ, MOHAMED R., US

[73] TECHMAH MEDICAL LLC, US

[85] 2018-06-13

[86] 2016-12-15 (PCT/US2016/067060)

[87] (WO2017/106580)

[30] US (62/267,370) 2015-12-15

[11] **3,011,551**
[13] C

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[25] EN

[54] **ANALYTE MEASUREMENT SYSTEM AND INITIALIZATION METHOD**

[54] **SYSTEME DE MESURE D'ANALYTE ET PROCEDE D'INITIALISATION**

[72] WIEDER, HERBERT, DE

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

[85] 2018-07-16

[86] 2017-05-08 (PCT/EP2017/060898)

[87] (WO2017/194458)

[30] EP (16169640.6) 2016-05-13

[11] **3,011,695**
[13] C

[51] **Int.Cl. F23G 7/08 (2006.01) F23Q 9/00 (2006.01)**

[25] EN

[54] **FLARE PILOT AND FLARE PILOT WITH IGNITOR ASSEMBLY**

[54] **ENSEMBLE DE PILOTE DE TORCHE ET DE PILOTE DE TORCHE AYANT UN ENSEMBLE ALLUMEUR**

[72] CASSIDY, BO-JOHN, CA

[73] FLARETECH INC., CA

[86] (3011695)

[87] (3011695)

[22] 2018-07-18

[11] **3,011,698**
[13] C

[51] **Int.Cl. B32B 5/24 (2006.01) B29C 39/10 (2006.01) B32B 27/12 (2006.01)**

[25] EN

[54] **NONWOVEN FABRIC FOR REINFORCING FOAM MOLDED ARTICLES**

[54] **TISSU NON TISSE POUR RENFORCER UN ARTICLE MOULE EN MOUSSE**

[72] NISHIMURA, HIROAKI, JP

[72] KOIDA, TAKASHI, JP

[72] INATOMI, SHINICHIRO, JP

[72] MATSUI, MARIKO, JP

[73] TOYOBO CO., LTD., JP

[85] 2018-07-17

[86] 2017-02-28 (PCT/JP2017/007628)

[87] (WO2017/150488)

[30] JP (2016-037037) 2016-02-29

[11] **3,011,701**
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[25] EN

[54] **CHEMICAL MIXING AND PUMPING UNIT AND METHODS FOR OILFIELD OPERATIONS**

[54] **UNITE DE MELANGE CHIMIQUE ET DE POMPAGE ET PROCEDES DESTINES A DES OPERATIONS DE CHAMP PETROLIFERE**

[72] WITTE, M. BRETT, US

[72] BEHRENS, RANDALL DEAN, US

[72] SHIVERS, SHAWN, US

[73] PREMIER COIL SOLUTIONS, INC., US

[85] 2018-07-17

[86] 2017-01-18 (PCT/US2017/013855)

[87] (WO2017/127384)

[30] US (15/000,181) 2016-01-19

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[11] **3,014,341**

[13] C

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- [25] EN
- [54] **SECURE AND DISRUPTION-TOLERANT COMMUNICATIONS FOR UNMANNED UNDERWATER VEHICLES**
- [54] **COMMUNICATIONS SECURISEES ET TOLERANTES AUX INTERRUPTIONS POUR VEHICULES SOUS-MARINS SANS EQUIPAGE**
- [72] VISWANATHAN, KAPALEESWARAN, US
- [72] TEMPLIN, FRED L., US
- [72] COOPER, GREGORY T., US
- [73] THE BOEING COMPANY, US
- [86] (3014341)
- [87] (3014341)
- [22] 2018-08-15
- [30] US (15/724,831) 2017-10-04

[11] **3,016,620**

[13] C

- [51] **Int.Cl. B07B 1/46 (2006.01) B07B 1/28 (2006.01)**
- [25] EN
- [54] **A SCREENING APPARATUS**
- [54] **APPAREIL DE CRIBLAGE**
- [72] NEUMANN, BRUCE, AU
- [73] NEUMANN, BRUCE, AU
- [85] 2018-09-05
- [86] 2017-04-03 (PCT/AU2017/050284)
- [87] (WO2017/173482)
- [30] AU (2016901227) 2016-04-03

[11] **3,017,294**

[13] C

- [51] **Int.Cl. E21B 43/12 (2006.01) E21B 34/06 (2006.01)**
- [25] EN
- [54] **ELECTRICALLY ACTUATED DOWNHOLE FLOW CONTROL APPARATUS**
- [54] **APPAREIL DE REGULATION DU DEBIT EN FOND DE TROU ACTIONNE ELECTRIQUEMENT**
- [72] RAVENSBERGEN, JOHN, CA
- [72] GETZLAF, DON, CA
- [72] GILLIS, BROCK, CA
- [73] NCS MULTISTAGE INC., CA
- [86] (3017294)
- [87] (3017294)
- [22] 2016-03-14
- [62] 2,923,662
- [30] US (62/132,241) 2015-03-12

[11] **3,017,673**

[13] C

- [51] **Int.Cl. C08B 37/08 (2006.01) A61K 39/39 (2006.01) C08J 3/075 (2006.01) C08L 5/08 (2006.01)**
- [25] EN
- [54] **NEW IMMUNOBIOLOGICAL PRODUCTS**
- [54] **NOUVEAUX PRODUITS IMMUNOBIOLOGIQUES**
- [72] POLYAKOV, IGOR, DE
- [72] IVANOVA, LIUDMILA, DE
- [73] POLYAKOV, IGOR, DE
- [73] IVANOVA, LIUDMILA, DE
- [85] 2018-09-13
- [86] 2017-03-15 (PCT/EP2017/056146)
- [87] (WO2017/158040)
- [30] EP (16160534.0) 2016-03-15

[11] **3,018,927**

[13] C

- [51] **Int.Cl. G06V 30/40 (2022.01) G06N 20/00 (2019.01) G06F 40/169 (2020.01) G06V 20/20 (2022.01) G06V 30/10 (2022.01) G06F 3/14 (2006.01)**
- [25] EN
- [54] **SYSTEMS AND METHODS FOR AUGMENTING A DISPLAYED DOCUMENT**
- [54] **SYSTEMES ET METHODES POUR ENRICHIR UN DOCUMENT AFFICHE**
- [72] COLLINSON, JOHN MICHAEL, CA
- [72] COONEY, CHRISTOPHER WILLIAM, CA
- [72] VOUTOUR, RUSSELL, CA
- [72] DEMERS, MARIE-JULIE, CA
- [72] JAGGA, ARUN VICTOR, CA
- [72] LEE, JOHN JONG-SUK, CA
- [73] THE TORONTO-DOMINION BANK, CA
- [86] (3018927)
- [87] (3018927)
- [22] 2018-09-27

[11] **3,019,444**

[13] C

- [51] **Int.Cl. H04W 72/51 (2023.01) H04W 72/23 (2023.01) H04B 7/08 (2006.01)**
- [25] EN
- [54] **DATA TRANSMISSION METHOD, NETWORK-SIDE DEVICE, AND TERMINAL DEVICE**
- [54] **PROCEDE DE TRANSMISSION DE DONNEES, DISPOSITIF COTE RESEAU ET DISPOSITIF DE TERMINAL**
- [72] REN, HAIBAO, CN
- [72] WANG, TING, CN
- [72] DENG, NA, CN
- [72] LI, YUANJIE, CN
- [73] HUAWEI TECHNOLOGIES CO., LTD., CN
- [85] 2018-09-28
- [86] 2017-03-31 (PCT/CN2017/079074)
- [87] (WO2017/167290)
- [30] CN (201610201028.0) 2016-03-31

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[13] C

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[25] EN
[54] **VAGUS NERVE STIMULATION PATIENT SELECTION**
[54] **SELECTION DE PATIENT POUR LA STIMULATION DU NERF VAGUE**
[72] LIBBUS, IMAD, US
[72] KENKNIGHT, BRUCE H., US
[72] HENRY, CHRISTINE, FR
[73] CYBERONICS, INC., US
[85] 2018-09-28
[86] 2017-03-31 (PCT/US2017/025476)
[87] (WO2017/173331)
[30] US (62/317,352) 2016-04-01
[30] US (62/318,156) 2016-04-04

[11] **3,019,642**
[13] C

[51] **Int.Cl. G06Q 20/06 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING DATA PRIVACY IN A PRIVATE DISTRIBUTED LEDGER**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE DE CONFIDENTIALITE DE DONNEES DANS UN REGISTRE DISTRIBUE PRIVE**
[72] VOELL, DAVID, US
[72] FALAH, SAMER, US
[72] NIELSEN, PATRICK MYLUND, US
[72] SHNIR, FELIX, US
[72] SARVA, CHETAN, US
[72] FERNANDEZ, GENE D., US
[73] CONSENSYS SOFTWARE INC., US
[85] 2018-10-01
[86] 2017-03-31 (PCT/US2017/025377)
[87] (WO2017/173271)
[30] US (62/316,841) 2016-04-01

[11] **3,019,879**
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO FLOW BALANCING**
[54] **AMELIORATIONS RELATIVES A L'EQUILIBRAGE D'ECOULEMENT**
[72] DOUGLAS, ANTHONY, GB
[72] MULLER, THOMAS, GB
[72] KNOWLES, TUOMAS PERTTI JONATHAN, GB
[72] KEMP, COLIN GEORGE, GB
[72] GODFREY, DANIEL PETERSON, GB
[73] FLUIDIC ANALYTICS LIMITED, GB
[85] 2018-10-03
[86] 2017-04-04 (PCT/GB2017/050941)
[87] (WO2017/174975)
[30] GB (1605845.5) 2016-04-06

[11] **3,020,190**
[13] C

[51] **Int.Cl. G08G 1/0967 (2006.01) G08G 1/16 (2006.01)**
[25] EN
[54] **INTELLIGENT LIGHTING SYSTEM, INTELLIGENT VEHICLE AND AUXILIARY VEHICLE DRIVING SYSTEM AND METHOD THEREFOR**
[54] **SYSTEME D'ECLAIRAGE INTELLIGENT, VEHICULE INTELLIGENT, ET SYSTEME D'ENTRAINEMENT AUXILIAIRE DE VEHICULE ET PROCEDE CORRESPONDANT**
[72] JIANG, YUXI, CN
[72] ZHOU, FAN, CN
[72] QING, PEI, CN
[72] SHUAI, YINGHONG, CN
[73] SHANGHAI SANSI ELECTRONIC ENGINEERING CO. LTD., CN
[73] SHANGHAI SANSI TECHNOLOGY CO. LTD., CN
[73] SANSI OPTOELECTRONICS TECHNOLOGY (SHANGHAI) CO. LTD., CN
[73] JIASHAN SANSI OPTOELECTRONIC TECHNOLOGY CO. LTD., CN
[85] 2018-10-05
[86] 2017-03-07 (PCT/CN2017/075834)
[87] (WO2017/173904)
[30] CN (201610213934.2) 2016-04-07
[30] CN (201610214685.9) 2016-04-08

[11] **3,020,587**
[13] C

[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6834 (2018.01) C12Q 1/6837 (2018.01) C12P 19/34 (2006.01) C40B 40/06 (2006.01) C40B 50/06 (2006.01)**
[25] EN
[54] **MICROARRAY SYNTHESIS AND ASSEMBLY OF GENE-LENGTH POLYNUCLEOTIDES**
[54] **SYNTHESE ET ASSEMBLAGE EN MICRORESEAUX DE POLYNUCLEOTIDES DE LA LONGUEUR D'UN GENE**
[72] OLEINIKOV, ANDREW V., US
[73] GEN9, INC., US
[86] (3020587)
[87] (3020587)
[22] 2003-09-12
[62] 2,498,746
[30] US (10/243,367) 2002-09-12

[11] **3,020,761**
[13] C

[51] **Int.Cl. E04D 15/06 (2006.01) B44C 7/06 (2006.01) E04D 5/00 (2006.01) E04F 13/00 (2006.01)**
[25] EN
[54] **SELF-ADHERED SHEET INSTALLATION DEVICES AND METHODS OF USE**
[54] **DISPOSITIFS DE MISE EN PLACE DE FEUILLE AUTOADHESIVE ET PROCEDES D'UTILISATION**
[72] MORT, STEVEN DOUGLAS, AU
[72] HOUK, CHARLES, US
[73] TREMCO CPG INC., US
[85] 2018-10-11
[86] 2017-04-11 (PCT/US2017/026906)
[87] (WO2017/180558)
[30] US (62/320,680) 2016-04-11

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[13] C

[51] **Int.Cl. B05D 1/28 (2006.01) B64F 5/10 (2017.01) B05C 1/06 (2006.01)**

[25] EN

[54] **APPARATUSES AND METHODS FOR DISPENSING A BRUSHABLE SUBSTANCE ONTO A SURFACE**

[54] **APPAREILS ET METHODES DE DISTRIBUTION D'UNE SUBSTANCE A BROSSER SUR UNE SURFACE**

[72] PRINGLE-IV, JOHN W., US

[72] TOMUTA, RAUL, US

[72] ERICKSON, CHRIS J., US

[73] THE BOEING COMPANY, US

[86] (3021289)

[87] (3021289)

[22] 2018-10-18

[30] US (15/849759) 2017-12-21

[11] **3,021,314**
[13] C

[51] **Int.Cl. B09B 1/00 (2006.01) B03B 9/02 (2006.01)**

[25] EN

[54] **OIL SANDS TAILINGS PONDS WATER DISPOSAL**

[54] **EVACUATION DES EAUX DE BASSINS DE RESIDUS DE SABLES BITUMINEUX**

[72] BAUMANN, KEVIN, CA

[73] AQUA SOLUTIONS INC., CA

[86] (3021314)

[87] (3021314)

[22] 2018-10-18

[11] **3,021,613**
[13] C

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/28 (2006.01) G02B 3/00 (2006.01)**

[25] FR

[54] **MULTISPECTRAL IMAGING DEVICE**

[54] **DISPOSITIF D'IMAGERIE MULTISPECTRALE**

[72] TISSERAND, STEPHANE, FR

[72] ROUX, LAURENT, FR

[72] HUBERT, MARC, FR

[72] SAUGET, VINCENT, FR

[72] FAIOLA, AURELIEN, FR

[73] SILIOS TECHNOLOGIES, FR

[85] 2018-10-19

[86] 2017-04-27 (PCT/FR2017/000076)

[87] (WO2017/187029)

[30] FR (16/00716) 2016-04-29

[11] **3,022,736**
[13] C

[51] **Int.Cl. A61B 5/0205 (2006.01) A61B 5/024 (2006.01) A61B 5/1455 (2006.01)**

[25] EN

[54] **PULSE OXIMETRY PREDICTIVE SCORES (POPS) FOR PREDICTIVE ADVERSE OUTCOMES IN PRETERM INFANTS**

[54] **INDICES PREDICTIFS D'OXYMETRIE PULSEE (POP) PERMETTANT DE DECELER DES EVENEMENTS INDESIRABLES PREDICTIFS CHEZ DES ENFANTS PREMATURES**

[72] FAIRCHILD, KAREN D., US

[72] LAKE, DOUGLAS E., US

[72] SULLIVAN, BRYNNE, US

[73] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US

[86] (3022736)

[87] (3022736)

[22] 2018-10-31

[30] US (15/801226) 2017-11-01

[11] **3,022,848**
[13] C

[51] **Int.Cl. A61B 5/1455 (2006.01)**

[25] EN

[54] **PULSE OXIMETRY PREDICTIVE SCORES FOR ADVERSE NEUROLOGICAL DEVELOPMENT IN PRETERM INFANTS**

[54] **INDICES PREDICTIFS D'OXYMETRIE PULSEE DE DEVELOPPEMENT NEUROLOGIQUE DEFAVORABLE CHEZ LES PREMATURES**

[72] FAIRCHILD, KAREN D., US

[72] LAKE, DOUGLAS E., US

[72] SULLIVAN, BRYNNE, US

[73] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US

[85] 2018-10-31

[86] 2017-05-02 (PCT/US2017/030606)

[87] (WO2017/192562)

[30] US (62/330,463) 2016-05-02

[11] **3,023,658**
[13] C

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **INFUSION PUMP SYSTEM AND METHOD WITH COMMON LINE AUTO FLUSH**

[54] **SYSTEME DE POMPE A PERFUSION ET PROCEDE A PURGE AUTOMATIQUE A LIGNE COMMUNE**

[72] GYLLAND, JEFFREY JAMES, US

[72] BRANN, GERALD WILLIAM, US

[72] JACOBSON, JAMES DUANE, US

[72] WEBB, ARTHUR E., US

[72] CUDNEY, JAMES, US

[72] ASIKHAN-BERLINGUETTE, NURSEL, US

[73] ICU MEDICAL, INC., US

[85] 2018-11-08

[86] 2017-05-10 (PCT/US2017/032017)

[87] (WO2017/197024)

[30] US (62/336,191) 2016-05-13

[11] **3,024,440**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61B 17/32 (2006.01) A61B 17/42 (2006.01) A61M 3/02 (2006.01)**

[25] EN

[54] **MEDICAL SYSTEMS AND METHODS**

[54] **PROCEDES ET SYSTEMES MEDICAUX**

[72] BEK, ROBIN, US

[72] GERMAIN, AARON, US

[72] KLEIN, KYLE, US

[72] WALKER, MICHAEL D., US

[73] MINERVA SURGICAL, INC., US

[86] (3024440)

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[22] 2014-04-08

[62] 2,908,862

[30] US (61/809,681) 2013-04-08

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[11] **3,025,068**
[13] C

[51] **Int.Cl. E04F 15/10 (2006.01) A63B 6/00 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **INTERLOCKING MODULAR MAT WITH SPONGE INSERT**
[54] **TAPIS MODULAIRE INTERBLOQUANT DOTE D'UNE INSERTION D'EPONGE**
[72] HUSS, PHILIP C., US
[73] WEARWELL, LLC, US
[86] (3025068)
[87] (3025068)
[22] 2018-11-23
[30] US (15/843,494) 2017-12-15

[11] **3,025,524**
[13] C

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING TURKEY RHINOTRACHEITIS AND INFECTIOUS BRONCHITIS STRAIN QX ANTIGENS, WITH CPG OLIGONUCLEOTIDE IN AN OIL EMULSION**
[54] **COMPOSITION COMPRENANT DES ANTIGENES CONTRE DES LIGNEES QX DU CORYZA DE LA DINDE ET DE LA BRONCHITE INFECTIEUSE, ET OLIGONUCLEOTIDE CPG DANS UNE EMULSION D'HUILE**
[72] DE FREITAS, CARLA MARIA BATISTA, US
[72] DOS SANTOS, MARIA CAROLINA FERREIRA, US
[72] DOMINOWSKI, PAUL JOSEPH, US
[72] GEERLIGS, HARMEN JACOB, US
[73] ZOETIS SERVICES LLC, US
[85] 2018-11-23
[86] 2017-05-31 (PCT/US2017/035105)
[87] (WO2017/210244)
[30] US (62/344,598) 2016-06-02
[30] US (62/365,419) 2016-07-22

[11] **3,025,884**
[13] C

[51] **Int.Cl. C07C 69/736 (2006.01) A61K 31/09 (2006.01) A61K 31/216 (2006.01) A61P 35/00 (2006.01) C07C 43/205 (2006.01)**
[25] EN
[54] **GLUCOSE TRANSPORT INHIBITORS AND METHODS OF USING SAME**
[54] **INHIBITEURS DE TRANSPORT DE GLUCOSE ET LEURS METHODES D'UTILISATIONS**
[72] BERGMEIER, STEPHEN, US
[72] CHEN, XIAOZHUO, US
[73] OHIO UNIVERSITY, US
[85] 2018-11-27
[86] 2017-06-23 (PCT/US2017/039036)
[87] (WO2017/223473)
[30] US (62/354,479) 2016-06-24

[11] **3,026,176**
[13] C

[51] **Int.Cl. C08L 33/04 (2006.01) C09D 7/63 (2018.01) C08J 3/18 (2006.01) C08K 5/12 (2006.01) C09D 133/04 (2006.01)**
[25] EN
[54] **ULTRA LOW THERMO FUSION PVC ALTERNATIVE PLASTISOL COATING AND TEXTILE PRINTING INK**
[54] **REVETEMENT PLASTISOL ALTERNATIF AU PVC A FUSION THERMIQUE ULTRA-FAIBLE ET ENCRE D'IMPRESSION TEXTILE**
[72] KANG, HACK S., US
[73] KANG, HACK S., US
[85] 2018-11-30
[86] 2017-06-01 (PCT/US2017/035465)
[87] (WO2017/210436)
[30] US (62/344,139) 2016-06-01

[11] **3,026,931**
[13] C

[51] **Int.Cl. A23P 30/40 (2016.01) A21D 13/066 (2017.01) A21D 6/00 (2006.01) A21D 15/00 (2006.01)**
[25] EN
[54] **DEVICE AND PROCESS FOR THE CONTINUOUS PRODUCTION OF DIMENSIONALLY STABLE FOAMED FOODSTUFFS**
[54] **DISPOSITIF ET PROCEDE DE PRODUCTION CONTINUE DE PRODUITS ALIMENTAIRES EN MOUSSE A STABILITE DIMENSIONNELLE**
[72] LAMMERS, VOLKER, DE
[72] HEINZ, VOLKER, DE
[73] DEUTSCHES INSTITUT FUR LEBENSMITTELTECHNIK E.V., DE
[86] (3026931)
[87] (3026931)
[22] 2018-12-06
[30] DE (10 2017 222 096.1) 2017-12-06

[11] **3,028,368**
[13] C

[51] **Int.Cl. C08L 67/02 (2006.01)**
[25] EN
[54] **A BIOPLASTIC COMPOSITION COMPRISING BIOMASS AS A COMPONENT AND A PRODUCTION PROCESS**
[54] **COMPOSITION BIOPLASTIQUE COMPRENANT UNE BIOMASSE EN TANT QUE COMPOSANT, ET PROCEDE DE PRODUCTION**
[72] JUNKASEM, JIRAWUT, TH
[72] KAABBUATHONG, NARIN, TH
[72] THAMMONGKOL, VIVAN, TH
[72] PAIBOOLSUK, JANJIRA, TH
[72] HEMMOND, SUPATTR, TH
[73] PTT PUBLIC COMPANY LIMITED, TH
[85] 2018-12-18
[86] 2017-05-31 (PCT/TH2017/000044)
[87] (WO2018/021980)
[30] TH (1601004340) 2016-07-28

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[11] **3,029,035**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 16/42 (2006.01) C07K 16/46 (2006.01) C12N 5/16 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) C12P 21/08 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **HUMAN MONOCLONAL ANTIBODIES AGAINST CD20**

[54] **ANTICORPS MONOCLONAUX HUMAINS ANTI-CD20**

[72] TEELING, JESSICA, NL

[72] RUULS, SIGRID, NL

[72] GLENNIE, MARTIN, GB

[72] VAN DE WINKEL, JAN G. J., NL

[72] PARREN, PAUL, NL

[72] PETERSEN, JORGEN, DK

[72] BAADSGAARD, OLE D., SE

[72] HUANG, HAICHUN, US

[73] GENMAB A/S, DK

[86] (3029035)

[87] (3029035)

[22] 2003-10-17

[62] 2,502,552

[30] US (60/419,163) 2002-10-17

[30] US (60/460,028) 2003-04-02

[11] **3,029,276**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR SAMPLE ANALYSIS**

[54] **DISPOSITIFS ET PROCEDES D'ANALYSE D'ECHANTILLON**

[72] HUFF, JEFFREY B., US

[72] HAYDEN, MARK A., US

[72] DAVIS, GRAHAM, US

[72] GERSHTEIN, SERGEY, US

[73] ABBOTT LABORATORIES, US

[85] 2018-12-21

[86] 2017-10-05 (PCT/US2017/055419)

[87] (WO2018/067872)

[30] US (62/404,716) 2016-10-05

[30] US (62/425,006) 2016-11-21

[11] **3,029,535**
[13] C

[51] **Int.Cl. H04B 7/06 (2006.01)**

[25] EN

[54] **METHOD FOR SIGNAL TRANSMISSION, NETWORK DEVICE, AND TERMINAL DEVICE**

[54] **PROCEDE DE TRANSMISSION DE SIGNAL, DISPOSITIF DE RESEAU, ET DISPOSITIF TERMINAL**

[72] TANG, HAI, CN

[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2018-12-28

[86] 2016-07-01 (PCT/CN2016/088127)

[87] (WO2018/000421)

[11] **3,029,742**
[13] C

[51] **Int.Cl. G01C 21/20 (2006.01) G08G 1/0968 (2006.01)**

[25] EN

[54] **AUTONOMOUS VEHICLE CONTROL USING SUBMAPS**

[54] **COMMANDE AUTONOME DE VEHICULE UTILISANT DES SOUS-CARTES**

[72] BROWNING, BRETT, US

[72] MILSTEIN, ADAM, US

[72] HANSEN, PETER, US

[72] EADE, ETHAN, US

[72] PRASSER, DAVID, US

[72] LAROSE, DAVID, US

[72] ZLOT, ROBERT, US

[72] MELIK-BARKHUDAROV, NAREK, US

[72] BAGNELL, JAMES ANDREW, US

[73] UATC, LLC, US

[85] 2018-12-31

[86] 2017-07-01 (PCT/US2017/040532)

[87] (WO2018/006082)

[30] US (62/357,903) 2016-07-01

[30] US (62/412,041) 2016-10-24

[30] US (15/640,289) 2017-06-30

[30] US (15/640,296) 2017-06-30

[30] US (15/640,313) 2017-06-30

[30] US (15/640,334) 2017-06-30

[30] US (15/640,340) 2017-06-30

[30] US (15/640,355) 2017-06-30

[30] US (15/640,364) 2017-06-30

[30] US (15/640,370) 2017-06-30

[11] **3,030,614**
[13] C

[51] **Int.Cl. G09B 25/00 (2006.01)**

[25] EN

[54] **AN EDUCATION DATA PLATFORM TO SUPPORT A HOLISTIC MODEL OF A LEARNER**

[54] **PLATE-FORME DE DONNEES D'ENSEIGNEMENT PERMETTANT DE PRENDRE EN CHARGE UN MODELE HOLISTIQUE D'UN ELEVE**

[72] KRISHNASWAMI, LAKSHMI ARTHI, US

[73] KRISHNASWAMI, LAKSHMI ARTHI, US

[85] 2019-01-10

[86] 2017-07-17 (PCT/US2017/042443)

[87] (WO2018/014033)

[30] US (15/211,680) 2016-07-15

[11] **3,030,644**
[13] C

[51] **Int.Cl. B60R 9/045 (2006.01) B60P 3/10 (2006.01) B60R 9/08 (2006.01)**

[25] EN

[54] **FOLDING WATERCRAFT CARRIER WITH OUTBOARD PULL HANDLE**

[54] **SUPPORT PLIANT POUR EMBARCATION COMPRENANT UNE POIGNEE DE TRACTION HORS-BORD**

[72] FLAHERTY, JOSEPH, SE

[72] ROMANS, JENNIFER, SE

[73] THULE SWEDEN AB, SE

[85] 2019-01-11

[86] 2017-06-28 (PCT/IB2017/053882)

[87] (WO2018/011661)

[30] US (15/209,562) 2016-07-13

[11] **3,030,843**
[13] C

[51] **Int.Cl. B32B 18/00 (2006.01) B32B 15/04 (2006.01)**

[25] EN

[54] **THERMAL BARRIER COATINGS**

[54] **REVETEMENTS FORMANT BARRIERE THERMIQUE**

[72] WOLFE, DOUGLAS E., US

[72] SCHMITT, MICHAEL P., US

[73] THE PENN STATE RESEARCH FOUNDATION, US

[85] 2019-01-14

[86] 2017-06-15 (PCT/US2017/037652)

[87] (WO2017/218759)

[30] US (62/350,395) 2016-06-15

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[11] **3,031,555**
[13] C

[51] **Int.Cl. G01G 17/06 (2006.01)**
[25] EN
[54] **ELECTROMECHANICAL ACTUATOR FOR A BULK MATERIAL SHUT-OFF ELEMENT**
[54] **SYSTEME D'ACTIONNEMENT ELECTROMECHANIQUE POUR UN ORGANE DE RETENUE DE MATIERES EN VRAC**
[72] SCHAI, PETER, CH
[72] HAID, RENE, CH
[72] KLEINER, ANDREAS, CH
[72] BRAND, HEINZ, CH
[73] BUHLER AG, CH
[85] 2019-01-22
[86] 2017-07-27 (PCT/EP2017/068992)
[87] (WO2018/019930)
[30] EP (16181512.1) 2016-07-27

[11] **3,031,647**
[13] C

[51] **Int.Cl. C09D 133/14 (2006.01)**
[25] EN
[54] **WATER BASED SEALER WITH SUPERIOR DURABILITY**
[54] **BOUCHE-PORES A BASE D'EAU OFFRANT UNE DURABILITE SUPERIEURE**
[72] SHI, JINZHEN, US
[72] NGUYEN, KAREN ANN, US
[72] TARNG, MING-REN, US
[73] BEHR PROCESS CORPORATION, US
[85] 2019-01-22
[86] 2017-06-23 (PCT/US2017/038913)
[87] (WO2018/022228)
[30] US (15/223,929) 2016-07-29

[11] **3,032,909**
[13] C

[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] FR
[54] **DEVICE FOR GRIPPING LOADS OF VARIABLE SIZES AND CORRESPONDING METHOD FOR ADAPTING GRIPPING WIDTH**
[54] **DISPOSITIF DE PREHENSION DE CHARGES DE TAILLES VARIABLES ET PROCEDE D'ADAPTATION DE LARGEUR DE PREHENSION CORRESPONDANT**
[72] MARIUSSE, ADRIEN, FR
[72] GODOT, ERWANN, FR
[73] SAVOYE, FR
[85] 2019-02-04
[86] 2017-09-20 (PCT/EP2017/073791)
[87] (WO2018/060031)
[30] FR (1659139) 2016-09-27

[11] **3,033,530**
[13] C

[51] **Int.Cl. G01N 21/67 (2006.01) G01N 27/00 (2006.01) H01J 49/26 (2006.01)**
[25] EN
[54] **APPARATUS FOR ANALYZING THE ELEMENTAL COMPOSITION OF A LIQUID SAMPLE AND METHODS OF USING THE SAME**
[54] **APPAREIL D'ANALYSE DE LA COMPOSITION ELEMENTAIRE D'UN ECHANTILLON LIQUIDE ET SES PROCEDES D'UTILISATION**
[72] OBUCHOWSKA, AGNES, CA
[73] OBUCHOWSKA, AGNES, CA
[85] 2019-02-11
[86] 2017-08-31 (PCT/CA2017/051032)
[87] (WO2018/045455)
[30] US (62/384,799) 2016-09-08

[11] **3,035,020**
[13] C

[51] **Int.Cl. H04W 24/10 (2009.01) H04B 17/309 (2015.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CHANNEL MEASUREMENT AND INTERFERENCE MEASUREMENT IN WIRELESS NETWORK**
[54] **SYSTEME ET METHODE DE MESURE DE CANAL ET MESURE D'INTERFERENCE DANS UN RESEAU SANS FIL**
[72] LIU, JIALING, US
[72] XIAO, WEIMIN, US
[72] CHENG, QIAN, US
[72] ZHANG, RUIQI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-02-27
[86] 2018-11-16 (PCT/US2018/061558)
[87] (WO2019/099857)
[30] US (62/588,176) 2017-11-17
[30] US (62/670,464) 2018-05-11

[11] **3,035,477**
[13] C

[51] **Int.Cl. A61M 31/00 (2006.01) A61F 2/915 (2013.01) A61F 2/82 (2013.01) A61K 9/00 (2006.01) A61K 31/436 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **DRUG ELUTING STENT AND METHOD OF USE OF THE SAME FOR ENABLING RESTORATION OF FUNCTIONAL ENDOTHELIAL CELL LAYERS**
[54] **STENT POUR ELUTION DE MEDICAMENT ET SON PROCEDE D'UTILISATION POUR PERMETTRE LA RESTAURATION DE COUCHES DE CELLULES ENDOTHELIALES FONCTIONNELLES**
[72] SUN, JIANHUA, US
[72] BUREAU, CHRISTOPHE, CN
[72] CAI, WENBIN, CN
[72] LI, TIANZHU, US
[72] KANG, XIAORAN, CN
[73] SINO MEDICAL SCIENCES TECHNOLOGY INC., CN
[85] 2019-02-28
[86] 2017-10-30 (PCT/CN2017/108374)
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[30] US (62/438,432) 2016-12-22

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[11] **3,035,676**

[13] C

- [51] **Int.Cl. H04W 16/20 (2009.01) H04W 64/00 (2009.01) H04W 88/08 (2009.01) G08B 21/04 (2006.01) G08B 21/12 (2006.01) G08B 25/00 (2006.01)**
- [25] EN
- [54] **SYSTEM FOR RELATIVE POSITIONING OF ACCESS POINTS IN A REAL TIME LOCATING SYSTEM**
- [54] **SYSTEME DE POSITIONNEMENT RELATIF DE POINTS D'ACCES DANS UN SYSTEME DE LOCALISATION EN TEMPS REEL**
- [72] JOHNSON, ERNEST K., JR., US
- [72] DAVISSON, MARK J., US
- [72] LOWENBERG, COLIN, US
- [73] ACCENTURE GLOBAL SERVICES LIMITED, IE
- [86] (3035676)
- [87] (3035676)
- [22] 2010-07-30
- [62] 2,768,054
- [30] US (61/234,134) 2009-08-14
- [30] US (12/634,110) 2009-12-09

[11] **3,035,899**

[13] C

- [51] **Int.Cl. E21B 31/113 (2006.01)**
- [25] EN
- [54] **HYDRAULIC DRILLING JAR WITH HYDRAULIC LOCK PISTON**
- [54] **COULISSE HYDRAULIQUE COMPORTANT UN PISTON DE BLOCAGE HYDRAULIQUE**
- [72] WILSON, TIMOTHY, US
- [73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
- [86] (3035899)
- [87] (3035899)
- [22] 2019-03-06
- [30] US (15/944,147) 2018-04-03

[11] **3,036,149**

[13] C

- [51] **Int.Cl. B60P 7/02 (2006.01) B60J 11/06 (2006.01) B62D 33/04 (2006.01)**
- [25] EN
- [54] **TONNEAU COVER ASSEMBLY WITH A FLUID MANAGEMENT SYSTEM**
- [54] **ENSEMBLE DE COUVRE-TONNEAU COMPRENANT UN SYSTEME DE GESTION DE FLUIDE**
- [72] FACCHINELLO, JEROME, US
- [72] DELANEY, DANIEL J., US
- [72] MOSINGO, ROBERT L., US
- [72] GAARDER, ROBERT, US
- [72] CARTER, CHAD, US
- [72] GERMANO, DAVID, US
- [73] TECTUM HOLDINGS INC., US
- [86] (3036149)
- [87] (3036149)
- [22] 2019-03-08
- [30] US (62/640,799) 2018-03-09

[11] **3,036,671**

[13] C

- [51] **Int.Cl. H02P 9/04 (2006.01) E21B 41/00 (2006.01) H02M 7/155 (2006.01)**
- [25] EN
- [54] **DYNAMIC GENERATOR VOLTAGE CONTROL FOR HIGH POWER DRILLING AND LOGGING-WHILE-DRILLING**
- [54] **COMMANDE DYNAMIQUE DE TENSION DE GENERATEUR POUR FORAGE DE GRANDE PUISSANCE ET DIAGRAPHIE PENDANT LE FORAGE**
- [72] RAJAGOPALAN, SATISH, US
- [73] HALLIBURTON ENERGY SERVICES, INC., US
- [85] 2019-03-12
- [86] 2016-10-13 (PCT/US2016/056841)
- [87] (WO2018/071028)

[11] **3,037,313**

[13] C

- [51] **Int.Cl. E21B 17/00 (2006.01) E21B 17/20 (2006.01) E21B 17/22 (2006.01) E21B 19/00 (2006.01) E21B 19/08 (2006.01) E21B 19/22 (2006.01)**
- [25] EN
- [54] **IMPROVED COILED TUBING INJECTOR DRIVELINE**
- [54] **CHAINE CINEMATIQUE AMELIOREE D'INJECTEUR A TUBE SPIRALE**
- [72] VAUGHAN, PHILLIP D., US
- [73] PREMIER COIL SOLUTIONS, INC., US
- [85] 2019-03-18
- [86] 2017-09-18 (PCT/US2017/052013)
- [87] (WO2018/053399)
- [30] US (62/396,461) 2016-09-19

[11] **3,037,378**

[13] C

- [51] **Int.Cl. G06T 7/50 (2017.01) H04N 5/222 (2006.01)**
- [25] EN
- [54] **MULTI-CAMERA IMAGING SYSTEMS**
- [54] **SYSTEMES D'IMAGERIE A PLUSIEURS CAMERAS**
- [72] KLOSTERMAN, JOHN, US
- [73] TAU TECHNOLOGIES, LLC, US
- [85] 2019-03-18
- [86] 2017-09-18 (PCT/US2017/052105)
- [87] (WO2018/071138)
- [30] US (62/396,780) 2016-09-19

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[11] **3,038,742**
[13] C

[51] **Int.Cl. B41F 23/08 (2006.01) B41L 23/24 (2006.01)**

[25] EN

[54] **METHOD FOR APPLYING CURABLE GELLANT COMPOSITION FOR DIGITAL EMBOSING AND OTHER RAISED PRINT APPLICATIONS**

[54] **METHODE D'APPLICATION D'UNE COMPOSITION GELIFIANTE DURCISSABLE DESTINEE A L'EMBOSSAGE NUMERIQUE ET AUTRES APPLICATIONS D'IMPRESSION EN RELIEF**

[72] BELELIE, JENNIFER L., US

[72] CHRETIEN, MICHELLE N., US

[72] MCCONVILLE, PAUL J., US

[72] O'NEIL, JASON, US

[72] CONDELLO, ANTHONY S., US

[72] KEOSHKERIAN, BARKEV, US

[73] XEROX CORPORATION, US

[86] (3038742)

[87] (3038742)

[22] 2019-04-02

[30] US (15/944883) 2018-04-04

[11] **3,038,760**
[13] C

[51] **Int.Cl. B01D 53/81 (2006.01) B01D 53/14 (2006.01) B01D 53/50 (2006.01) B01D 53/56 (2006.01) B01D 53/60 (2006.01) B01D 53/62 (2006.01) B01D 53/72 (2006.01) B01D 53/86 (2006.01)**

[25] EN

[54] **A NOXIOUS GAS PURIFICANT AND ITS PREPARATION AND PURIFICATION METHOD THEREOF**

[54] **AGENT DE DETOXICATION DE GAZ, ET PROCEDES DE PREPARATION ET DE DETOXICATION DE CELUI-CI.**

[72] HUANG, LIWEI, CN

[73] HUANG, LIWEI, CN

[85] 2019-03-26

[86] 2017-10-13 (PCT/CN2017/106121)

[87] (WO2018/068765)

[30] CN (201610901765.1) 2016-10-14

[30] CN (201610901763.2) 2016-10-14

[30] CN (201610906056.2) 2016-10-17

[30] CN (201610906058.1) 2016-10-17

[30] CN (201610922408.3) 2016-10-20

[30] CN (201610939180.9) 2016-10-24

[30] CN (201710019937.7) 2017-01-03

[30] CN (201710068265.9) 2017-02-02

[11] **3,040,042**
[13] C

[51] **Int.Cl. E04B 2/18 (2006.01) E04B 2/02 (2006.01) E04B 2/44 (2006.01)**

[25] FR

[54] **BLOCK FOR DRY CONSTRUCTION**

[54] **BLOC POUR CONSTRUCTION SECHE**

[72] SPINA, CARLO, LU

[72] WALDMANN-DIEDERICH, DANIELE, LU

[72] NGAPAEYA, GELEN GAEL CHEWE, LU

[72] AGAAJANI, SHAHRIAR, LU

[73] CONTERN S.A., LU

[73] UNIVERSITE DU LUXEMBOURG, LU

[85] 2019-04-10

[86] 2017-10-13 (PCT/EP2017/076241)

[87] (WO2018/069524)

[30] LU (LU93263) 2016-10-14

[11] **3,040,382**
[13] C

[51] **Int.Cl. B65G 1/02 (2006.01) G06Q 10/087 (2023.01) B65G 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR SEQUENCING LOADS IN AN AUTOMATED DISTRIBUTION SYSTEM**

[54] **PROCEDE DE SEQUENCMENT DE CHARGES DANS UN SYSTEME DE DISTRIBUTION AUTOMATISE**

[72] COLLIN, JEAN-MICHEL, FR

[73] SAVOYE, FR

[85] 2019-04-12

[86] 2017-11-14 (PCT/EP2017/079114)

[87] (WO2018/091428)

[30] FR (1661103) 2016-11-16

[11] **3,040,597**
[13] C

[51] **Int.Cl. H04L 1/00 (2006.01) H04L 45/74 (2022.01) H04L 69/04 (2022.01) H04L 69/10 (2022.01) H04L 69/22 (2022.01) H04L 5/00 (2006.01)**

[25] EN

[54] **RECEIVING APPARATUS AND RECEIVING METHOD**

[54] **APPAREIL ET METHODE DE RECEPTION**

[72] HWANG, SUNG-HEE, KR

[72] LEE, HAK-JU, KR

[72] YANG, HYUN-KOO, KR

[73] SAMSUNG ELECTRONICS CO., LTD., KR

[86] (3040597)

[87] (3040597)

[22] 2015-11-11

[62] 2,966,482

[30] US (62/077,970) 2014-11-11

[30] US (62/151,654) 2015-04-23

[30] KR (10-2015-0158268) 2015-11-11

[11] **3,041,145**
[13] C

[51] **Int.Cl. C12Q 1/6844 (2018.01) C12P 19/34 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **NICKING AND EXTENSION AMPLIFICATION REACTION FOR THE EXPONENTIAL AMPLIFICATION OF NUCLEIC ACIDS**

[54] **REACTION D'AMPLIFICATION DE SYNCHRONISATION ET D'EXTENSION POUR L'AMPLIFICATION EXPONENTIELLE D'ACIDES NUCLEIQUES**

[72] MAPLES, BRIAN K., US

[72] HOLMBERG, REBECCA C., US

[72] MILLER, ANDREW P., US

[72] PROVINS, JARROD, US

[72] ROTH, RICHARD, US

[72] MANDELL, JEFFREY, US

[73] IONIAN TECHNOLOGIES, LLC, US

[86] (3041145)

[87] (3041145)

[22] 2008-07-14

[62] 2,693,805

[30] US (11/778,018) 2007-07-14

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[11] **3,041,659**
[13] C

[51] **Int.Cl. A63B 71/00 (2006.01) A63B 21/00 (2006.01) A63B 21/072 (2006.01) A63B 21/078 (2006.01)**

[25] EN

[54] **MULTIPURPOSE WORKOUT AND STORAGE BENCH**

[54] **BANC D'EXERCICE ET DE STOCKAGE POLYVALENT**

[72] DONNELLY, JOHN ROBERT, US

[72] DANEN, TYLER STEVEN WILLIAM, US

[72] RUTLEDGE, DAVID THOMAS, US

[73] FITBENCH, US

[85] 2019-04-24

[86] 2017-10-25 (PCT/US2017/058283)

[87] (WO2018/081267)

[30] US (62/413,367) 2016-10-26

[30] US (15/786,515) 2017-10-17

[11] **3,041,868**
[13] C

[51] **Int.Cl. C07D 405/12 (2006.01) A61K 31/496 (2006.01) A61P 35/00 (2006.01) C07D 295/26 (2006.01) C07D 405/14 (2006.01)**

[25] EN

[54] **BIS SULFONAMIDE PIPERAZINYL AND PIPERIDINYL ACTIVATORS OF HUMAN PYRUVATEKINASE**

[54] **BIS-SULFONAMIDE-PIPERAZINYLE ET PIPERIDINYLE ACTIVATEURS DE LA PYRUVATE KINASE HUMAINE**

[72] THOMAS, CRAIG J., US

[72] AULD, DOUGLAS S., US

[72] INGLESE, JAMES, US

[72] SKOUMBOURDIS, AMANDA P., US

[72] JIANG, JIAN-KANG, US

[72] BOXER, MATTHEW, US

[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[86] (3041868)

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[22] 2009-10-09

[62] 2,740,148

[30] US (61/104,091) 2008-10-09

[11] **3,041,946**
[13] C

[51] **Int.Cl. H04W 24/00 (2009.01) H04W 24/02 (2009.01)**

[25] EN

[54] **METHOD AND DEVICE FOR RADIO LINK MONITORING**

[54] **PROCEDE ET DISPOSITIF DE SURVEILLANCE DE LIAISON RADIO**

[72] LIU, JINHUA, CN

[72] FAN, RUI, CN

[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE

[85] 2019-04-26

[86] 2017-10-30 (PCT/CN2017/108346)

[87] (WO2018/082521)

[30] CN (PCT/CN2016/104616) 2016-11-04

[11] **3,042,107**
[13] C

[51] **Int.Cl. C07D 211/56 (2006.01) A61K 31/40 (2006.01) A61K 31/44 (2006.01) A61K 31/4439 (2006.01) A61K 31/445 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/495 (2006.01) C07D 207/14 (2006.01) C07D 211/32 (2006.01) C07D 211/58 (2006.01) C07D 211/62 (2006.01) C07D 213/72 (2006.01) C07D 295/116 (2006.01) C07D 295/194 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **IRE-1.ALPHA. INHIBITORS**

[54] **INHIBITEURS DE L'IRE-1.ALPHA.**

[72] ZENG, QINGPING, US

[72] WADE, WARREN S., US

[72] PATTERSON, JOHN BRUCE, US

[73] FOSUN ORINOVE PHARMATECH, INC., CN

[86] (3042107)

[87] (3042107)

[22] 2010-11-01

[62] 2,780,149

[30] US (61/257,696) 2009-11-03

[11] **3,042,821**
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[51] **Int.Cl. B62M 27/00 (2006.01) B62D 55/07 (2006.01) B62M 27/02 (2006.01)**

[25] EN

[54] **SNOWMOBILE SKID FRAME ASSEMBLY**

[54] **ENSEMBLE CHASSIS DE GLISSEMENT DE MOTONEIGE**

[72] BEAVIS, ANDREW, US

[73] ARCTIC CAT INC., US

[86] (3042821)

[87] (3042821)

[22] 2014-12-16

[62] 2,928,750

[30] US (14/109,760) 2013-12-17

[11] **3,043,253**
[13] C

[51] **Int.Cl. B01F 23/70 (2022.01) B01F 23/50 (2022.01) B01F 33/71 (2022.01) B01F 35/71 (2022.01) A62C 5/033 (2006.01)**

[25] EN

[54] **GEL PRODUCTION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE PRODUCTION DE GEL**

[72] BOIRE, JAMES, CA

[72] ROBERTS, BRENT ALLAN, CA

[72] NAHACHEWSKY, ADAM, CA

[73] GEL SYSTEMS CANADA INC., CA

[85] 2019-05-08

[86] 2017-11-08 (PCT/CA2017/051325)

[87] (WO2018/085925)

[30] US (62/420,376) 2016-11-10

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[11] **3,043,354**
[13] C

[51] **Int.Cl. C08L 9/06 (2006.01) A43B 13/04 (2006.01) C08J 9/10 (2006.01) C08K 3/22 (2006.01) C08K 3/34 (2006.01) C08K 3/36 (2006.01) C08K 5/09 (2006.01) C08K 9/06 (2006.01) C08K 13/06 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **A METHOD FOR PREPARING HIGH SHRINKAGE STABILITY STYRENE BUTADIENE RUBBER-BASED NANOCOMPOSITE FOAMS**

[54] **MATERIAU NANOCOMPOSITE MOUSSANT A BASE DE CAOUTCHOUC STYRENE-BUTADIENE A GRANDE STABILITE A LA RETRACTION**

[72] MA, JIANZHONG, CN
[72] JI, ZHANYOU, CN
[72] SHAO, LIANG, CN
[72] XUE, CHAOHUA, CN
[72] MA, ZHONGLEI, CN
[73] SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY, CN

[85] 2019-05-09
[86] 2017-01-13 (PCT/CN2017/071046)
[87] (WO2018/086249)
[30] CN (20161109929949) 2016-11-11

[11] **3,044,290**
[13] C

[51] **Int.Cl. G01B 3/1005 (2020.01)**

[25] EN

[54] **TAPE MEASURE WITH EPICYCLIC GEAR DRIVE FOR TAPE RETRACTION**

[54] **RUBAN A MESURER A ENTRAINEMENT D'ENGRENAGE EPICYCLOIDAL PERMETTANT LA RETRACTION DU RUBAN**

[72] VITAS, JONATHAN F., US
[72] HERRITZ, DEVIN W., US
[72] MCKINSTER, SCOTT EARL, US
[73] MILWAUKEE ELECTRIC TOOL CORPORATION, US

[85] 2019-05-16
[86] 2018-03-20 (PCT/US2018/023391)
[87] (WO2018/175461)
[30] US (62/474,872) 2017-03-22
[30] US (62/598,890) 2017-12-14

[11] **3,045,528**
[13] C

[51] **Int.Cl. C12N 1/20 (2006.01) C12N 9/90 (2006.01) C12P 19/02 (2006.01) C12P 19/24 (2006.01)**

[25] EN

[54] **A BACILLUS SUBTILIS STRAIN, CULTURE METHOD AND USE THEREOF**

[54] **BACILLUS SUBTILIS, SON PROCEDE DE CULTURE ET APPLICATION ASSOCIEE**

[72] DOU, GUANGPENG, CN
[72] ZHUO, HONGJIAN, CN
[72] GAN, ZHAOBO, CN
[72] SHAO, XIANBAO, CN
[72] DU, QIAN, CN
[72] LI, FANGHUA, CN
[72] ZHANG, MINGZHAN, CN
[72] YANG, TENG TENG, CN
[72] LIU, SHUANGSHUANG, CN

[73] SHANGHAI BAILONG CHUANGYUAN BIO-TECH CO., LTD, CN

[85] 2019-05-30
[86] 2017-11-28 (PCT/CN2017/113344)
[87] (WO2018/099366)
[30] CN (2016111095535.7) 2016-12-02

[11] **3,045,746**
[13] C

[51] **Int.Cl. C23C 30/00 (2006.01) C23C 14/06 (2006.01) C23C 14/34 (2006.01) F16C 33/12 (2006.01) F16J 1/01 (2006.01) F16J 9/26 (2006.01) F16J 10/04 (2006.01) F16N 1/00 (2006.01)**

[25] FR

[54] **FRICTION PIECE, MECHANICAL SYSTEM COMPRISING SUCH A FRICTION PIECE AND METHOD OF IMPLEMENTATION**

[54] **PIECE DE FROTTEMENT, SYSTEME MECANIQUE COMPRENANT UNE TELLE PIECE DE FROTTEMENT, ET PROCEDE DE MISE EN OEUVRE**

[72] HEAU, CHRISTOPHE, FR
[72] MAURIN-PERRIER, PHILIPPE, FR
[73] H.E.F., FR

[85] 2019-05-31
[86] 2017-12-04 (PCT/FR2017/053377)
[87] (WO2018/104641)
[30] FR (1662033) 2016-12-07

[11] **3,046,090**
[13] C

[51] **Int.Cl. C08L 27/00 (2006.01) B32B 27/30 (2006.01) C08K 3/26 (2006.01) C08K 5/00 (2006.01) C08K 5/10 (2006.01) C08K 9/04 (2006.01) C08K 9/06 (2006.01) C08L 75/04 (2006.01)**

[25] EN

[54] **FLEXIBLE POLYVINYL HALIDE USED FOR INJECTION OVER-MOLDING**

[54] **HALOGENURE DE POLYVINYLE SOUPLE UTILISE POUR LE SURMOULAGE PAR INJECTION**

[72] LEE, SANG, US
[72] HU, LING, US
[72] SHOEMAKER, CRAIG L., US
[72] SCHILLING, ROBERT, US

[73] GEON PERFORMANCE SOLUTIONS CANADA INC., US

[85] 2019-06-04
[86] 2017-12-13 (PCT/US2017/066028)
[87] (WO2018/112005)
[30] US (62/434,021) 2016-12-14
[30] US (62/465,537) 2017-03-01

[11] **3,046,885**
[13] C

[51] **Int.Cl. C07C 333/04 (2006.01)**

[25] EN

[54] **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY**

[54] **LIPIDE CATIONIQUE IONISABLE POUR L'ADMINISTRATION D'ARN**

[72] PAYNE, JOSEPH E., US
[72] CHIVUKULA, PADMANABH, US
[72] TANIS, STEVEN P., US
[72] KARMAI, PRIYA, US

[73] ARCTURUS THERAPEUTICS, INC., US

[85] 2019-06-11
[86] 2017-12-20 (PCT/US2017/067756)
[87] (WO2018/119163)
[30] US (15/387,067) 2016-12-21
[30] US (PCT/US2017/015886) 2017-01-31

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[11] **3,046,919**

[13] C

- [51] **Int.Cl. E21B 47/022 (2012.01) E21B 47/09 (2012.01) G01V 3/18 (2006.01)**
[25] EN
[54] **OPTIMIZATION OF RANGING MEASUREMENTS**
[54] **OPTIMISATION DE MESURES DE TELEMETRIE**
[72] KALATEH AHMAD, AKRAM AHMADI, US
[72] DONDERICI, BURKAY, US
[72] WU, HSU-HSIANG, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-06-12
[86] 2017-01-31 (PCT/US2017/015840)
[87] (WO2018/143945)

[11] **3,047,564**

[13] C

- [51] **Int.Cl. G16H 30/00 (2018.01) G06T 7/10 (2017.01) A61B 6/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING TUMOR BURDEN IN MEDICAL IMAGES**
[54] **METHODE ET SYSTEME DE DETERMINATION D'UNE CHARGE TUMORALE DANS DES IMAGES MEDICALES**
[72] GUPTA, MAYANK, IN
[72] SPOTTISWOODE, BRUCE S., US
[73] SIEMENS MEDICAL SOLUTIONS USA, INC., US
[86] (3047564)
[87] (3047564)
[22] 2019-06-21
[30] US (16/016998) 2018-06-25

[11] **3,048,457**

[13] C

- [51] **Int.Cl. A23G 3/34 (2006.01) A23L 5/47 (2016.01)**
[25] EN
[54] **EDIBLE INK FORMULATIONS INCLUDING CALCIUM CARBONATE**
[54] **FORMULATIONS D'ENCRE COMESTIBLE COMPRENANT UN CARBONATE DE CALCIUM**
[72] COLLINS, THOMAS M., US
[72] STEFANY, DAVID W., US
[73] MARS, INCORPORATED, US
[85] 2019-06-25
[86] 2017-12-29 (PCT/US2017/068894)
[87] (WO2018/126109)
[30] US (62/440,032) 2016-12-29

[11] **3,048,466**

[13] C

- [51] **Int.Cl. H04L 41/0859 (2022.01) G06F 8/70 (2018.01) H04L 43/028 (2022.01) G06F 11/30 (2006.01) G06F 16/00 (2019.01) H04L 43/045 (2022.01) H04L 43/08 (2022.01)**
[25] EN
[54] **PERFORMANCE MONITORING OF SYSTEM VERSION RELEASES**
[54] **SURVEILLANCE DU RENDEMENT COMPARATIF DES VERSIONS D'UN SYSTEME**
[72] SAGY, GIORA, US
[73] SERVICENOW, INC., US
[86] (3048466)
[87] (3048466)
[22] 2019-07-03
[30] US (16/026,665) 2018-07-03

[11] **3,049,059**

[13] C

- [51] **Int.Cl. A61F 2/02 (2006.01) A61F 2/95 (2013.01) A61B 17/12 (2006.01) A61F 2/04 (2013.01) A61F 2/82 (2013.01)**
[25] EN
[54] **EXPANDABLE BODY DEVICE AND METHOD OF USE**
[54] **DISPOSITIF CORPOREL EXTENSIBLE ET PROCEDE D'UTILISATION**
[72] FRANANO, NICHOLAS, US
[72] STEPHENSON, KATHERINE, US
[73] ARTIO MEDICAL, INC., US
[86] (3049059)
[87] (3049059)
[22] 2012-07-17
[62] 2,868,767
[30] US (PCT/US2012/021620) 2012-01-17
[30] US (PCT/US2012/021621) 2012-01-17
[30] US (PCT/US2012/000030) 2012-01-17

[11] **3,049,161**

[13] C

- [51] **Int.Cl. C07D 209/48 (2006.01) A61K 31/454 (2006.01) A61P 1/00 (2006.01) A61P 37/00 (2006.01) C07D 211/88 (2006.01)**
[25] EN
[54] **PIPERIDINE-2,6-DIONE DERIVATIVES AND CROHN'S DISEASE TREATING**
[54] **DERIVES DE PIPERIDINE-2,6-DIONE ET TRAITEMENT DE LA MALADIE DE CROHN**
[72] ZHANG, HESHENG, CN
[72] ZENG, GUANGHUAI, CN
[73] GANZHOU HEMAY PHARMACEUTICAL, CO., LTD, CN
[73] TIANJIN HEMAY PHARMACEUTICALS SCI-TECH CO., LTD, CN
[85] 2019-05-23
[86] 2017-11-23 (PCT/CN2017/112669)
[87] (WO2018/095378)
[30] CN (201611041317.5) 2016-11-24

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[11] **3,050,151**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/6883 (2018.01) G01N 33/53 (2006.01) G01N 35/00 (2006.01) A61K 31/22 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **SINGLE NUCLEOTIDE POLYMORPHISMS ASSOCIATED WITH CARDIOVASCULAR DISORDERS AND STATIN RESPONSE, METHODS OF DETECTION AND USES THEREOF**

[54] **POLYMORPHISMES NUCLEOTIDES SIMPLES ASSOCIES A DES TROUBLES CARDIOVASCULAIRES ET A UNE REPONSE AU MEDICAMENT, LEURS PROCEDES DE DETECTION ET D'UTILISATION**

[72] CARGILL, MICHELE, US
[72] IAKOUBOVA, OLGA, US
[72] DEVLIN, JAMES J., US
[72] TSUCHIHASHI, ZENTA, US
[72] SHAW, PETER, US
[72] PLOUGHMAN, LYNN MARIE, US
[72] ZERBA, KIM E., US
[72] KOUSTUBH, RANADE, US
[72] KIRCHGESSNER, TODD, US
[73] CELERA CORPORATION, US
[73] BRISTOL-MYERS SQUIBB COMPANY, US

[86] (3050151)
[87] (3050151)
[22] 2004-11-24
[62] 2,991,249
[30] US (60/524,882) 2003-11-26
[30] US (60/568,219) 2004-05-06

[11] **3,050,741**
[13] C

[51] **Int.Cl. G01N 1/10 (2006.01)**

[25] EN

[54] **AUTOMATIC POWDER SAMPLING DEVICE**

[54] **DISPOSITIF D'ECHANTILLONNAGE DE POUVRE AUTOMATIQUE**

[72] WANG, YUNING, CA
[73] WANG, YUNING, CA

[86] (3050741)
[87] (3050741)
[22] 2019-07-29

[11] **3,051,436**
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) H02H 7/26 (2006.01)**

[25] EN

[54] **METHOD FOR COORDINATING SWITCHES IN MULTIPLE RECLOSERS IN A DISTRIBUTION FEEDER LINE IN RESPONSE TO DETECTION OF A FAULT**

[54] **PROCEDE DE COORDINATION DES INTERRUPTEURS DE PLUSIEURS REENCLENCHEURS DANS UNE LIGNE D'ALIMENTATION DE DISTRIBUTION EN REPONSE A LA DETECTION D'UNE PANNE**

[72] MONTENEGRO, ALEJANDRO, US
[72] SHARON, YOAV, US
[73] S&C ELECTRIC COMPANY, US

[86] (3051436)
[87] (3051436)
[22] 2019-08-08
[30] US (62/725,365) 2018-08-31

[11] **3,051,792**
[13] C

[51] **Int.Cl. B29C 45/16 (2006.01) B29C 45/13 (2006.01) B29C 45/20 (2006.01)**

[25] EN

[54] **CO-INJECTION HOT RUNNER NOZZLE**

[54] **BUSE DE CANAL CHAUD DE CO-INJECTION**

[72] SOUTHWICK, NATHAN GABRIEL, US
[72] BRELSKI, MACIEJ, CA
[72] BRAND, DIETMAR TIEMO, CA
[72] ELEMEEK, ADAM CHRISTOPHER, CA

[72] SCHLUMS, DIRK HOLGER, CA
[72] BOUTI, ABDESLAM, US
[72] BOXWALA, HAKIMUDDIN, CA
[73] HUSKY INJECTION MOLDING SYSTEMS LTD., CA

[85] 2019-07-26
[86] 2018-01-12 (PCT/CA2018/050023)
[87] (WO2018/152621)
[30] US (62/461,473) 2017-02-21

[11] **3,051,905**
[13] C

[51] **Int.Cl. C03B 27/012 (2006.01) C03B 27/02 (2006.01)**

[25] EN

[54] **FIRE-RATED GLASS UNIT**

[54] **VITRAGE COUPE-FEU**

[72] O'KEEFFE, WILLIAM F., US
[73] O'KEEFFE, WILLIAM F., US

[86] (3051905)
[87] (3051905)
[22] 2019-08-13
[30] US (16/135959) 2018-09-19

[11] **3,051,912**
[13] C

[51] **Int.Cl. G06F 3/01 (2006.01)**

[25] EN

[54] **GESTURE RECOGNITION DEVICES AND METHODS**

[54] **DISPOSITIFS ET PROCEDES DE RECONNAISSANCE DE GESTE**

[72] MOSCARILLO, THOMAS J., US
[73] MOSCARILLO, THOMAS J., US

[86] (3051912)
[87] (3051912)
[22] 2013-02-25
[62] 2,864,719
[30] US (61/602,704) 2012-02-24

[11] **3,052,308**
[13] C

[51] **Int.Cl. C25D 11/08 (2006.01) C25D 11/16 (2006.01) C25D 11/24 (2006.01)**

[25] EN

[54] **METHODS OF PREPARING 7XXX ALUMINUM ALLOYS FOR ADHESIVE BONDING, AND PRODUCTS RELATING TO THE SAME**

[54] **PROCEDES DE PREPARATION D'ALLIAGES D'ALUMINIUM DE LA SERIE 7XXX POUR LIAISON ADHESIVE ET PRODUITS QUI LEUR SONT ASSOCIES**

[72] UNAL, ALI, US
[72] EPP, JUNE M., US
[72] MARINELLI, JAMES M., US
[72] MENANNO, MARISSA, US
[73] ARCONIC TECHNOLOGIES LLC, US

[85] 2019-07-31
[86] 2018-03-05 (PCT/US2018/020979)
[87] (WO2018/165053)
[30] US (62/467,652) 2017-03-06

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[11] **3,052,367**
[13] C

[51] **Int.Cl. B44C 5/04 (2006.01) B05D 3/06 (2006.01) E04F 15/10 (2006.01)**
[25] EN
[54] **HEAT TREATED PVC PLASTIC PANEL**
[54] **PANNEAU EN MATIERE PLASTIQUE PVC TRAITE THERMIQUEMENT**
[72] DOHRING, DIETER, DE
[73] XYLO TECHNOLOGIES AG, CH
[85] 2019-08-01
[86] 2018-02-02 (PCT/EP2018/052672)
[87] (WO2018/141912)
[30] EP (PCT/EP2017/052369) 2017-02-03

[11] **3,052,763**
[13] C

[51] **Int.Cl. G07F 11/46 (2006.01)**
[25] EN
[54] **A LIFTING BODY FOR A VENDING MACHINE DELIVERY BIN**
[54] **CORPS PORTANT POUR BAC DE DISTRIBUTION DE DISTRIBUTEUR AUTOMATIQUE**
[72] MASON, PAUL, US
[73] AUTOMATED MERCHANDISING SYSTEMS LLC, US
[86] (3052763)
[87] (3052763)
[22] 2019-08-21
[30] US (16/107,317) 2018-08-21

[11] **3,053,186**
[13] C

[51] **Int.Cl. B60Q 1/44 (2006.01) B60Q 1/00 (2006.01) B60Q 1/26 (2006.01) B60Q 1/30 (2006.01)**
[25] EN
[54] **AUXILIARY SPARE TIRE BRAKE LIGHT FOR VEHICLES**
[54] **FEU DE FREINAGE DE PNEU DE SECOURS AUXILIAIRE POUR VEHICULES**
[72] BENNETT, PATRICK W., US
[73] OMIX-ADA, INC., US
[85] 2019-08-08
[86] 2018-03-13 (PCT/US2018/022119)
[87] (WO2018/169921)
[30] US (15/457,511) 2017-03-13

[11] **3,053,986**
[13] C

[51] **Int.Cl. F23G 5/00 (2006.01) F23D 17/00 (2006.01) F23G 5/04 (2006.01) F23G 5/46 (2006.01) F23G 7/06 (2006.01) F23J 15/02 (2006.01) F26B 11/02 (2006.01) F26B 21/02 (2006.01) F26B 23/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CONTINUOUSLY DRYING BULK GOODS, IN PARTICULAR WOOD CHIPS AND/OR WOOD FIBERS COMPRISING MULTI-FUEL BURNER WITH A MUFFLE COOLING SYSTEM**
[54] **APPAREIL ET PROCEDURE DE SECHAGE CONTINU DE PRODUITS EN VRAC, EN PARTICULIER DE COPEAUX DE BOIS ET/OU DE FIBRES DE BOIS COMPRENANT UN BRULEUR MULTICOMBUSTIBLE D'UN SYSTEME DE R E FROIDISSEMENT DE MOUFLE**
[72] HENSEL, GUNTER, DE
[72] SEIFERT, WOLFGANG, DE
[73] KRONOPLUS LTD, MT
[85] 2019-08-19
[86] 2017-03-03 (PCT/EP2017/055074)
[87] (WO2018/157949)

[11] **3,054,065**
[13] C

[51] **Int.Cl. G01N 33/24 (2006.01) G06Q 50/02 (2012.01) A01B 79/02 (2006.01)**
[25] EN
[54] **LOCATION SELECTION FOR TREATMENT SAMPLING**
[54] **SELECTION D'EMPLACEMENTS POUR ECHANTILLONNAGE DE TRAITEMENTS**
[72] HU, JIE, US
[72] LADONI, MOSLEM, US
[73] CLIMATE LLC, US
[85] 2019-08-19
[86] 2018-03-06 (PCT/US2018/021180)
[87] (WO2018/165181)
[30] US (62/468,896) 2017-03-08
[30] US (15/713,507) 2017-09-22

[11] **3,054,097**
[13] C

[51] **Int.Cl. A01C 17/00 (2006.01) A01C 21/00 (2006.01)**
[25] EN
[54] **METHOD FOR REGULATING THE THROWING BEHAVIOUR OF A CENTRIFUGAL SPREADER FOR FERTILIZER**
[54] **PROCEDE DE REGULATION DU COMPORTEMENT D'EPANDAGE D'UN EPANDEUR CENTRIFUGE D'ENGRAIS**
[72] DREYER, JUSTUS, DE
[72] RAHE, FLORIAN, DE
[72] WESSELS, THOMAS, DE
[72] STROBEL-FROSCHLE, MARKUS, DE
[73] AMAZONEN-WERKE H.DREYER GMBH & CO. KG, DE
[85] 2019-08-20
[86] 2018-02-14 (PCT/EP2018/053607)
[87] (WO2018/153737)
[30] DE (10 2017 103 567.2) 2017-02-22

[11] **3,054,568**
[13] C

[51] **Int.Cl. H05B 45/10 (2020.01) H02M 1/36 (2007.01) H05B 45/14 (2020.01) H05B 45/37 (2020.01)**
[25] EN
[54] **TURN-ON PROCEDURE FOR A LOAD CONTROL DEVICE**
[54] **PROCEDURE DE MISE SOUS TENSION POUR UN DISPOSITIF DE COMMANDE DE CHARGE**
[72] KOBER, STEVEN J., US
[72] KONIJETI, SOMA SEKHARA RAO, US
[72] THOTTUMKARA, RAJESH KRISHNA, US
[72] VEERANKI, KEERTANA, US
[73] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2019-08-23
[86] 2018-02-23 (PCT/US2018/019533)
[87] (WO2018/156963)
[30] US (62/463,159) 2017-02-24
[30] US (62/562,008) 2017-09-22
[30] US (62/580,671) 2017-11-02

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[11] **3,054,966**
[13] C

[51] **Int.Cl. H04L 43/50 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR REMOTELY MONITORING CONNECTIVITY AND NETWORK PERFORMANCE IN HOSPITALITY ENVIRONMENTS**
[54] **PROCEDES ET SYSTEMES DE SURVEILLANCE A DISTANCE DE LA CONNECTIVITE ET DES PERFORMANCES D'UN RESEAU DANS DES ENVIRONNEMENTS D'ACCUEIL**
[72] ZERFAS, MATTHEW CHRISTOPHER, US
[72] ZDEPSKI, JOEL WALTER, US
[72] WOLLMANN, CHRISTOPHER PAUL, US
[72] MARKO, SHAUN EUGENE, US
[72] ZERR, DERIN MICHAEL, US
[73] SONIFI SOLUTIONS, INC., US
[85] 2019-08-28
[86] 2018-03-06 (PCT/US2018/021170)
[87] (WO2018/165172)
[30] US (62/467,676) 2017-03-06

[11] **3,056,666**
[13] C

[51] **Int.Cl. G10K 11/168 (2006.01) B62D 63/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ATTENUATING SOUND**
[54] **SYSTEMES ET METHODES POUR ATTENUER LE BRUIT**
[72] BRUNSON, WELDON EDWARD, JR., US
[73] ENQUEST ENERGY SOLUTIONS, LLC, US
[86] (3056666)
[87] (3056666)
[22] 2019-09-25
[30] US (16/550,952) 2019-09-06

[11] **3,056,799**
[13] C

[51] **Int.Cl. B60B 27/02 (2006.01) B60B 35/18 (2006.01) B60G 9/00 (2006.01)**
[25] EN
[54] **VEHICLE SUSPENSION WITH COMMON HUB AND/OR KNUCKLE ASSEMBLY**
[54] **SUSPENSION DE VEHICULE A ENSEMBLE MOYEU ET/OU ROTULE COMMUN**
[72] ROSENE, NATHAN, US
[72] SKARZENSKI, CHRIS, US
[72] O'BANNON, WALTER, US
[73] WATSON & CHALIN MANUFACTURING, INC., US
[85] 2019-09-16
[86] 2018-04-19 (PCT/US2018/028379)
[87] (WO2018/195320)
[30] US (62/487,767) 2017-04-20

[11] **3,057,209**
[13] C

[51] **Int.Cl. H04W 72/20 (2023.01) H04W 76/18 (2018.01) H04W 72/231 (2023.01)**
[25] EN
[54] **CONFIGURATION METHOD AND APPARATUS, AND SYSTEM PROCEDE, APPAREIL, ET SYSTEME DE CONFIGURATION**
[72] PENG, WENJIE, CN
[72] DAI, MINGZENG, CN
[72] GUO, YI, CN
[72] LIU, JING, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-09-19
[86] 2018-03-20 (PCT/CN2018/079627)
[87] (WO2018/171583)
[30] CN (201710179753.7) 2017-03-23

[11] **3,057,902**
[13] C

[51] **Int.Cl. B08B 9/08 (2006.01) B08B 7/00 (2006.01) B08B 9/087 (2006.01) B08B 9/093 (2006.01) B08B 9/46 (2006.01) G01S 17/08 (2006.01) G01S 17/88 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR CLEANING VESSELS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES PERMETTANT LE NETTOYAGE DE NAVIRES**
[72] DESORMEAUX, KENNY, US
[73] ECOSERV TECHNOLOGIES, LLC, US
[85] 2019-09-24
[86] 2018-05-25 (PCT/US2018/034592)
[87] (WO2018/218120)
[30] US (62/511,337) 2017-05-25

[11] **3,058,233**
[13] C

[51] **Int.Cl. H04L 41/0663 (2022.01)**
[25] EN
[54] **CONSENSUS SYSTEM DOWNTIME RECOVERY**
[54] **RECUPERATION D'UN TEMPS D'ARRET DE SYSTEME CONSENSUS**
[72] YANG, DAYI, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-09-27
[86] 2019-03-18 (PCT/CN2019/078549)
[87] (WO2019/101244)

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[11] **3,058,353**
[13] C

[51] **Int.Cl. G10L 25/69 (2013.01) G10L 21/038 (2013.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR DETERMINING A PREDETERMINED CHARACTERISTIC RELATED TO A SPECTRAL ENHANCEMENT PROCESSING OF AN AUDIO SIGNAL**
[54] **APPAREIL ET PROCÉDE DE DETERMINATION D'UNE CARACTERISTIQUE PREDETERMINEE ASSOCIEE A UN TRAITEMENT D'AMELIORATION SPECTRALE D'UN SIGNAL AUDIO**
[72] GAMPP, PATRICK, DE
[72] UHLE, CHRISTIAN, DE
[72] DISCH, SASCHA, DE
[72] KARAMPOURNIOTIS, ANTONIOS, DE
[72] HAVENSTEIN, JULIA, DE
[72] HELLMUTH, OLIVER, DE
[72] HERRE, JUERGEN, DE
[72] PROKEIN, PETER, DE
[73] FRAUNHÖFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2019-09-27
[86] 2018-03-29 (PCT/EP2018/025083)
[87] (WO2018/177612)
[30] EP (17164360.4) 2017-03-31
[30] EP (17189988.3) 2017-09-07

[11] **3,058,527**
[13] C

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **CROSS-FUNDS MANAGEMENT SERVER-BASED PAYMENT SYSTEM, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS CROISES, ET PROCÉDE, DISPOSITIF ET SERVEUR ASSOCIE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3058527)
[87] (3058527)
[22] 2015-05-28
[62] 2,987,291
[30] CN (201510218467.8) 2015-04-30

[11] **3,058,875**
[13] C

[51] **Int.Cl. B65D 1/02 (2006.01) A23L 5/00 (2016.01) A23L 27/50 (2016.01) B65D 1/32 (2006.01) B65D 47/20 (2006.01) B65D 77/06 (2006.01)**
[25] EN
[54] **FOOD AND BEVERAGE COMPOSITION CONTAINED IN DOUBLE-LAYERED CONTAINER**
[54] **COMPOSITION D'ALIMENT ET DE BOISSON CONTENUE DANS UN CONTENANT DOUBLE COUCHE**
[72] KATAYAMA, HIROSHI, JP
[72] KUNITAKE, YURI, JP
[72] MANNEN, NATSUYUKI, JP
[72] KUWAGAKI, DENMI, JP
[73] KIKKOMAN CORPORATION, JP
[85] 2019-10-02
[86] 2018-04-02 (PCT/JP2018/014072)
[87] (WO2018/186333)
[30] JP (2017-075275) 2017-04-05

[11] **3,059,055**
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) A61B 17/43 (2006.01)**
[25] EN
[54] **METHODS FOR IMPROVING FERTILITY IN ARTIFICIAL INSEMINATION**
[54] **METHODES D'AMELIORATION DE LA FERTILITE DANS LE CADRE DE L'INSEMINATION ARTIFICIELLE**
[72] COHEN, BARB A., US
[73] AREX LIFE SCIENCES, LLC, US
[85] 2019-10-03
[86] 2018-01-16 (PCT/US2018/013898)
[87] (WO2018/132838)
[30] US (62/446,455) 2017-01-15

[11] **3,059,289**
[13] C

[51] **Int.Cl. F21V 33/00 (2006.01) F21K 9/00 (2016.01) F21K 9/61 (2016.01) H05B 47/19 (2020.01) F21V 8/00 (2006.01) H04R 9/06 (2006.01)**
[25] EN
[54] **LUMINAIRE WITH AN INTEGRATED SPEAKER**
[54] **LUMINAIRE COMPRENANT UN HAUT-PARLEUR INTEGRE**
[72] SPENCER, CHARLES JEFFREY, US
[72] POSACKI, DANIEL FRANCIS, US
[72] BRADD, KYLE MICHAEL, US
[72] FRANKIEWICZ, GREGORY PHILIP, US
[72] CHEN, FENG, US
[72] SERRA, JOHN GLENN, US
[72] CALLISON, DARCIE RENEE, US
[73] ABL IP HOLDING LLC, US
[86] (3059289)
[87] (3059289)
[22] 2019-10-21
[30] US (62/748,248) 2018-10-19
[30] US (62/748,253) 2018-10-19
[30] US (62/748,268) 2018-10-19
[30] US (62/748,283) 2018-10-19

[11] **3,059,567**
[13] C

[51] **Int.Cl. A61K 38/46 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/50 (2006.01) A61K 47/14 (2017.01) A61P 25/00 (2006.01) C12N 9/00 (2006.01) C12N 9/20 (2006.01) C12N 9/26 (2006.01) C12N 9/48 (2006.01) C12N 9/64 (2006.01) C12N 9/96 (2006.01)**
[25] EN
[54] **ENZYME DELIVERY SYSTEMS AND METHODS OF PREPARATION AND USE**
[54] **SYSTEMES D'ADMINISTRATION D'ENZYME ET PROCÉDES DE PREPARATION ET D'UTILISATION**
[72] FALLON, JOAN M., US
[72] HEIL, MATTHEW, US
[73] CUREMARK, LLC, US
[86] (3059567)
[87] (3059567)
[22] 2010-04-13
[62] 2,758,257
[30] US (12/386,051) 2009-04-13

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[11] **3,059,697**
[13] C

[51] **Int.Cl. B25B 7/00 (2006.01) B25B 7/02 (2006.01)**
[25] EN
[54] **AXIAL PLIERS**
[54] **PINCES AXIALES**
[72] KUTER-ARNEBECK, OTTOLEO, US
[72] PAUL, RUPAK K., US
[73] SNAP-ON INCORPORATED, US
[86] (3059697)
[87] (3059697)
[22] 2019-10-23
[30] US (62/754,772) 2018-11-02
[30] US (16/601,927) 2019-10-15

[11] **3,059,918**
[13] C

[51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 10/1093 (2023.01)**
[25] EN
[54] **TECHNICIAN CONTROL SYSTEM**
[54] **SYSTEME DE CONTROLE DES ORDRES DE TRAVAIL DE TECHNICIENS**
[72] MITCHELL, CLARENCE, US
[72] MATHUR, ANKUR, US
[72] EASTON, RICHARD, US
[73] ACCENTURE GLOBAL SERVICES LIMITED, IE
[86] (3059918)
[87] (3059918)
[22] 2010-06-08
[62] 2,933,498
[30] US (12/481,046) 2009-06-09
[30] US (12/490,730) 2009-06-24

[11] **3,059,957**
[13] C

[51] **Int.Cl. H04L 45/02 (2022.01) H04W 40/04 (2009.01) H04L 45/64 (2022.01) H04B 7/185 (2006.01)**
[25] EN
[54] **TEMPOROSPATIAL SOFTWARE-DEFINED NETWORKING FOR NGSO SATELLITE NETWORKS**
[54] **RESEAUTAGE SPATIOTEMPOREL DEFINI PAR LOGICIEL POUR RESEAUX SATELLITAIRES NGSO**
[72] BARRITT, BRIAN, US
[73] AALYRIA TECHNOLOGIES, INC., US
[85] 2019-10-11
[86] 2018-04-25 (PCT/US2018/029385)
[87] (WO2018/200690)
[30] US (15/497,738) 2017-04-26
[30] US (62/511,377) 2017-05-26
[30] US (15/954,922) 2018-04-17

[11] **3,059,988**
[13] C

[51] **Int.Cl. A61B 5/0531 (2021.01) A61B 5/0537 (2021.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR DETERMINING DAMAGED TISSUE USING SUB-EPIDERMAL MOISTURE MEASUREMENTS**
[54] **APPAREIL ET PROCEDES POUR DETERMINER UN TISSU ENDOMMAGE A L'AIDE DE MESURES D'HUMIDITE SOUS-EPIDERMIQUE**
[72] TONAR, YA-CHEN, US
[72] RHODES, SHANNON, US
[72] CLENDENIN, MARTA, US
[72] BURNS, MARTIN, US
[72] JARADEH, KINDAH, US
[73] BRUIN BIOMETRICS, LLC, US
[86] (3059988)
[87] (3059988)
[22] 2016-04-20
[62] 2,982,249
[30] US (61/152,549) 2015-04-24

[11] **3,060,257**
[13] C

[51] **Int.Cl. B65G 1/137 (2006.01) B65G 47/96 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING OBJECTS INCLUDING SPACE EFFICIENT DISTRIBUTION STATIONS AND AUTOMATED OUTPUT PROCESSING**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'OBJETS COMPRENANT DES STATIONS DE DISTRIBUTION EFFICACES DANS L'ESPACE ET UN TRAITEMENT DE SORTIE AUTOMATISE**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] AMEND, JOHN RICHARD, JR., US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] FORT, WILLIAM HARTMAN, US
[72] GEYER, CHRISTOPHER, US
[72] HINCHEY, VICTORIA, US
[72] KING, JENNIFER EILEEN, US
[72] KOLETSCSKA, THOMAS, US
[72] KOVAL, MICHAEL CAP, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] MCMAHAN, WILLIAM CHU-HYON, US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[85] 2019-10-16
[86] 2018-04-18 (PCT/US2018/028164)
[87] (WO2018/195196)
[30] US (62/486,783) 2017-04-18

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[11] **3,060,291**
[13] C

- [51] **Int.Cl. H04B 7/17 (2006.01) H03F 3/68 (2006.01) H04B 1/40 (2015.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING HOSPITALITY DISTRIBUTION NETWORKS**
[54] **SYSTEMES ET PROCEDES DE CONTROLE DE RESEAUX DE DISTRIBUTION POUR L'INDUSTRIE DE L'ACCUEIL**
[72] AASEN, ERIC, US
[72] PULFORD, JOSHUA H., US
[72] STOEL, LEON P., US
[73] SONIFI SOLUTIONS, INC., US
[86] (3060291)
[87] (3060291)
[22] 2019-10-25
[30] US (62/751310) 2018-10-26

[11] **3,061,062**
[13] C

- [51] **Int.Cl. F16L 11/127 (2006.01) E03C 1/04 (2006.01) F16L 11/10 (2006.01)**
[25] EN
[54] **SPRAYER HOSE ASSEMBLY**
[54] **ASSEMBLAGE DE BOYAU D'ARROSAGE**
[72] DAVIDSON, KYLE ROBERT, US
[72] JONTE, PATRICK B., US
[73] DELTA FAUCET COMPANY, US
[86] (3061062)
[87] (3061062)
[22] 2019-11-07
[30] US (16/188,161) 2018-11-12

[11] **3,061,084**
[13] C

- [51] **Int.Cl. H04N 21/80 (2011.01) H04N 21/84 (2011.01) G06T 7/20 (2017.01) G08B 13/196 (2006.01)**
[25] EN
[54] **ALIAS CAPTURE TO SUPPORT SEARCHING FOR AN OBJECT-OF-INTEREST**
[54] **ENREGISTREMENT D'ALIAS A L'APPUI D'UNE RECHERCHE D'OBJET D'INTERET**
[72] DOUMBOUYA, MOUSSA, CA
[72] HU, YANYAN, CA
[72] PIETTE, KEVIN, CA
[72] RUSSO, PIETRO, CA
[72] VENETIANER, PETER L., CA
[72] YU, BO YANG, CA
[73] MOTOROLA SOLUTIONS, INC., US
[86] (3061084)
[87] (3061084)
[22] 2019-11-06
[30] US (62/758,065) 2018-11-09
[30] US (16/593,789) 2019-10-04

[11] **3,061,336**
[13] C

- [51] **Int.Cl. F28F 7/00 (2006.01) F21V 29/74 (2015.01) F21V 29/76 (2015.01) A01G 9/20 (2006.01) B21D 53/02 (2006.01) F25D 9/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR A HEAT SINK**
[54] **SYSTEMES ET PROCEDES RELATIFS A UN DISSIPATEUR THERMIQUE**
[72] DUONG, DUNG, US
[72] JOHNSON, RANDALL, US
[72] KLASE, NICHOLAS, US
[73] FLUENCE BIOENGINEERING, INC., US
[85] 2019-10-23
[86] 2018-04-27 (PCT/US2018/029852)
[87] (WO2018/204190)
[30] US (62/500,945) 2017-05-03
[30] US (15/636,923) 2017-06-29
[30] US (15/651,941) 2017-07-17
[30] US (15/678,855) 2017-08-16
[30] US (15/678,880) 2017-08-16

[11] **3,061,699**
[13] C

- [51] **Int.Cl. G06T 7/55 (2017.01) G06T 1/00 (2006.01) G06T 5/50 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **GENERATION DEVICE, GENERATION METHOD AND NON-TRANSITORY COMPUTER-READABLE MEADIUM STORING A PROGRAM FOR GENERATING A THREE-DIMENSIONAL MODEL FROM AN IMAGE**
[54] **DISPOSITIF DE GENERATION, METHODE DE GENERATION ET SUPPORT INFORMATIQUE NON TRANSITOIRE STOCKANT UN PROGRAMME POUR LA GENERATION D'UN MODELE TRIDIMENSIONNEL A PARTIR D'UNE IMAGE**
[72] MORISAWA, KEISUKE, JP
[72] KOBAYASHI, KIWAMU, JP
[73] CANON KABUSHIKI KAISHA, JP
[85] 2019-10-28
[86] 2018-12-03 (PCT/JP2018/044373)
[87] (WO2019/116942)
[30] JP (2017-239891) 2017-12-14
[30] JP (2018-089467) 2018-05-07
[30] JP (2018-209196) 2018-11-06

[11] **3,062,754**
[13] C

- [51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/51 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **VAPOUR PROVISION SYSTEMS**
[54] **SYSTEMES DE FOURNITURE DE VAPEUR**
[72] HEPWORTH, RICHARD, GB
[72] DICKENS, COLIN, GB
[72] MOLONEY, PATRICK, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2019-11-07
[86] 2018-05-09 (PCT/GB2018/051238)
[87] (WO2018/206940)
[30] GB (1707627.4) 2017-05-12

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[11] **3,062,755**
[13] C

[51] **Int.Cl. H01L 33/50 (2010.01) F21K 9/64 (2016.01) A01G 9/20 (2006.01)**
[25] EN
[54] **LIGHT EMISSION SOURCE LED COMPONENT, HORTICULTURAL LIGHT, AND HORTICULTURAL LIGHTING FIXTURE**
[54] **COMPOSANT DE DEL POUR SOURCE D'ECLAIRAGE, LUMIERE HORTICOLE ET APPAREIL D'ECLAIRAGE HORTICOLE**
[72] AIKALA, LARS, FI
[73] VALOYA OY, FI
[86] (3062755)
[87] (3062755)
[22] 2010-09-16
[62] 3,003,994
[30] US (61/243,613) 2009-09-18
[30] FI (20095967) 2009-09-18
[30] US (12/797,215) 2010-06-09

[11] **3,064,005**
[13] C

[51] **Int.Cl. A61M 15/00 (2006.01) A61M 11/00 (2006.01) A61M 16/08 (2006.01)**
[25] EN
[54] **DRY POWDER DELIVERY DEVICE AND METHODS OF USE**
[54] **DISPOSITIF D'ADMINISTRATION DE POUDRE SECHE ET PROCEDES D'UTILISATION**
[72] GERMINARIO, LOUIS THOMAS, US
[72] HEBRANK, JOHN H., US
[72] HUNTER, CHARLES ERIC, US
[73] PNEUMA RESPIRATORY, INC., US
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[30] US (62/508,748) 2017-05-19

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[54] **ASSISTANCE PROCESS FOR SINGLE-ENGINED ROTARY WING AIRCRAFT DURING AN ENGINE FAILURE**
[54] **PROCEDE D'ASSISTANCE POUR AERONEF MONOMOTEUR A VOILURE TOURNANTE LORS D'UNE PANNE MOTEUR**
[72] ZOPPITELLI, ELIO, FR
[72] JAMOT, MICHEL, FR
[72] CAMUS, JEREMY, FR
[72] MAEGEY, OLIVIER, FR
[73] AIRBUS HELICOPTERS, FR
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[22] 2019-12-05
[30] FR (1873625) 2018-12-20

[11] **3,064,103**
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR INHIBITING GENE EXPRESSION OF HEPATITIS B VIRUS**
[54] **COMPOSITIONS ET METHODES PERMETTANT D'INHIBER L'EXPRESSION D'UN GENE DU VIRUS DE L'HEPATITE B**
[72] CHIN, DANIEL, US
[72] DECKERT, JOCHEN, DE
[72] HOSSBACH, MARKUS, DE
[72] JOHN, MATTHIAS, DE
[73] ARROWHEAD PHARMACEUTICALS, INC., US
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[54] **NOVEL OXYNTOMODULIN DERIVATIVES AND PHARMACEUTICAL COMPOSITION FOR TREATING OBESITY COMPRISING THE SAME**
[54] **DERIVES INEDITS D'OXYNTOMODULINE ET COMPOSITION PHARMACEUTIQUE DESTINEE AU TRAITEMENT DE L'OBESITE EN CONTENANT**
[72] JANG, MYUNG HYUN, KR
[72] JUNG, SUNG YOUB, KR
[72] KWON, SE CHANG, KR
[72] PARK, YOUNG JIN, KR
[72] PARK, YOUNG KYUNG, KR
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[54] **FIBROUS STRUCTURES**
[54] **STRUCTURES FIBREUSES**
[72] POLAT, OSMAN, US
[72] BANKEMPER, ANTHONY PAUL, US
[72] REDD, CHARLES ALLEN, US
[72] KIEN, KATHRYN CHRISTIAN, US
[73] THE PROCTER & GAMBLE COMPANY, US
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[54] **VIRTUAL NETWORK MONITORING SYSTEM, VIRTUAL NETWORK MONITORING APPARATUS, VIRTUAL NETWORK MONITORING METHOD, AND NON-TRANSITORY COMPUTER-READABLE RECORDING MEDIUM**
[54] **SYSTEME DE SURVEILLANCE DU RESEAU VIRTUEL, APPAREIL DE SURVEILLANCE DU RESEAU VIRTUEL, METHODE DE SURVEILLANCE DU RESEAU VIRTUEL, ET SUPPORT D'ENREGISTREMENT SOUS FORME ELECTRONIQUE NON TRANSITOIRE**
[72] TAKANO, YUKI, JP
[72] TACHIBANA, TOMOKAZU, JP
[72] FUKUDA, MASATSUGU, JP
[73] NTT ADVANCED TECHNOLOGY CORPORATION, JP
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[54] **PROSTHETIC VALVE FOR REPLACING MITRAL VALVE**
[54] **VALVULE PROTHETIQUE POUR LE REMPLACEMENT D'UNE VALVULE MITRALE**
[72] CHAU, MARK, US
[72] PATTERSON, MARLOWE, US
[72] YI, SEUNG, US
[72] GEIST, STEVE, US
[72] OBA, TRAVIS, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
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[54] **TIME-DOMAIN RESOURCE INFORMATION INDICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'INDICATION D'INFORMATIONS DE RESSOURCES DE DOMAINE TEMPOREL**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
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[11] **3,065,436**
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[54] **VIDEO BASED PATIENT REGISTRATION AND TRACKING**
[54] **ENREGISTREMENT ET SUIVI DE PATIENT BASE SUR VIDEO**
[72] STOPP, SEBASTIAN, DE
[72] MANUS, JOHANNES, DE
[73] BRAINLAB AG, DE
[85] 2019-11-28
[86] 2018-07-11 (PCT/EP2018/068792)
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[25] EN
[54] **DRUM AND DOOR ASSEMBLY FOR CATALYTIC MICROWAVE DEPOLYMERIZATION REACTOR**
[54] **ENSEMBLE TAMBOUR ET PORTE POUR REACTEUR CATALYTIQUE DE DEPOLYMERISATION PAR MICRO-ONDES**
[72] DOUCET, JOCELYN, CA
[72] LAVIOLETTE, JEAN-PHILIPPE, CA
[73] PYROWAVE INC., CA
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[25] EN
[54] **CONDITIONALLY IMMORTALIZED LONG-TERM STEM CELLS AND METHODS OF MAKING AND USING SUCH CELLS**
[54] **CELLULES SOUCHES A LONG TERME IMMORTALISEES DE FACON CONDITIONNELLE ET PROCEDES DE FABRICATION DE CES CELLULES**
[72] CAMBIER, JOHN, US
[72] REFAELI, YOSEF, US
[72] JOHNSON, SARA ANN, US
[72] TURNER, BRIAN CURTIS, US
[73] NATIONAL JEWISH HEALTH, US
[73] THE REGENTS OF THE UNIVERSITY OF COLORADO, US
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[54] **HARVESTING OF CROPS**
[54] **RECOLTE DE CULTURES**
[72] GEORGE, ESTWICK, GB
[72] KEELING, PETER, GB
[73] KMS PROJECTS LIMITED, GB
[85] 2019-12-03
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[13] C

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[54] **STRESS REDUCTION STRUCTURE, GAS TURBINE CASING, AND GAS TURBINE**
[54] **STRUCTURE DE REDUCTION DE CONTRAINTE, CARTER DE TURBINE A GAZ ET TURBINE A GAZ**
[72] UETSUKI, YASUYUKI, JP
[72] HANADA, TADAYUKI, JP
[72] FUJIMOTO, YOHEI, JP
[72] OTA, TAKAFUMI, JP
[72] ICHIHASHI, YUSUKE, JP
[73] MITSUBISHI HEAVY INDUSTRIES AERO ENGINES, LTD., JP
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[54] **BANDWIDTH ALLOCATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'ATTRIBUTION DE BANDE PASSANTE**
[72] ZHANG, ZHI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
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[54] **TUBULAR ELECTRIC HEATERS EQUIPMENT UNIT**
[54] **UNITE D'EQUIPEMENT DE RADIATEURS ELECTRIQUES TUBULAIRES**
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[73] JOINT STOCK COMPANY "EXPERIMENTAL AND DESIGN ORGANIZATION "GIDROPRESS" AWARDED THE ORDER OF THE RED BANNER OF LABOUR AND CZSR ORDER OF LABOUR, RU
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[54] **DISPOSABLE SOAP DISPENSER**
[54] **DISTRIBUTEUR DE SAVON JETABLE**
[72] SCHALITZ, WILLIAM J., US
[72] VERMA, VISHAAL B., US
[73] SCHALITZ, WILLIAM J., US
[73] VERMA, VISHAAL B., US
[86] (3066420)
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[25] EN
[54] **SUBSTANTIALLY PURE HUMAN RETINAL PROGENITOR, FOREBRAIN PROGENITOR, AND RETINAL PIGMENT EPITHELIUM CELL CULTURES AND METHODS OF MAKING THE SAME**
[54] **PROGENITEUR RETINIEN HUMAIN SENSIBLEMENT PUR, PROGENITEUR DE CERVEAU ANTERIEUR, ET CULTURES DE CELLULES D'EPITHELIUM PIGMENTAIRE RETINIEN ET LEURS PROCEDES DE FABRICATION**
[72] GAMM, DAVID M., US
[72] MEYER, JASON S., US
[73] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
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[13] C

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[25] EN
[54] **FRACTIONATION SYSTEM USING BUNDLED COMPACT CO-CURRENT CONTACTING SYSTEMS**
[54] **SYSTEME DE FRACTIONNEMENT UTILISANT DES SYSTEMES GROUPEURS COMPACTS DE MISE EN CONTACT DE CO-COURANTS**
[72] YEH, NORMAN K., US
[72] GRAVE, EDWARD J., US
[72] RAMKUMAR, SHWETHA, US
[72] JUAREZ, JUAN C., US
[73] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
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[54] **MAGNETICALLY COUPLEABLE ROBOTIC DEVICES AND RELATED METHODS**
[54] **DISPOSITIFS ROBOTIQUES POUVANT ETRE COUPLES MAGNETIQUEMENT ET PROCEDES ASSOCIES**
[72] DUMPERT, JASON, US
[72] FARRITOR, SHANE, US
[72] LEHMAN, AMY, US
[72] OLEYNIKOV, DMITRY, US
[72] PLATT, STEVE, US
[72] RENTSCHLER, MARK, US
[72] WOOD, NATHAN A., US
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[54] **LASER-ARRAYED IMMERSIVE AMUSEMENT ATTRACTION**
[54] **MANEGE IMMERSIF A RESEAUX DE LASERS**
[72] SCHMIDT, ADAM, CA
[73] ACTIVATE GAMES INC., CA
[86] (3068860)
[87] (3068860)
[22] 2020-01-20

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[13] C

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[25] FR
[54] **AQUATIC SHOES PROVIDED WITH A FLOAT FOR WALKING IN WATER**
[54] **CHAUSSURES AQUATIQUES MUNIES D'UN FLOTTEUR POUR MARCHER DANS L'EAU**
[72] EMADIKOTAK LAHIDJANI, MAXIME, FR
[72] EMADIKOTAK LAHIDJANI, DARIUS, FR
[73] EMADIKOTAK LAHIDJANI, MAXIME, FR
[73] EMADIKOTAK LAHIDJANI, DARIUS, FR
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[11] **3,070,141**
[13] C

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[25] EN
[54] **SOLID FORMS OF AN HIV CAPSID INHIBITOR**
[54] **FORMES SOLIDES D'UN INHIBITEUR DE CAPSIDE DE VIH**
[72] SHI, BING, US
[73] GILEAD SCIENCES, INC., US
[85] 2020-01-15
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[25] EN
[54] **BRUSH TIP WITH MOTION TRANSFER AND SECURING ENGAGEMENT STRUCTURES**
[54] **POINTE DE BROUSSE COMPRENANT DES STRUCTURES DE TRANSFERT DU MOUVEMENT ET DE FIXATION**
[72] SOKOL, GARY L., US
[72] LUETTGEN, HAROLD A., US
[73] WATER PIK, INC., US
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[25] EN
[54] **MULTI-PLY FIBROUS STRUCTURE-CONTAINING ARTICLES**
[54] **ARTICLES CONTENANT UNE STRUCTURE FIBREUSE MULTICOUCHE**
[72] BARNHOLTZ, STEVEN LEE, US
[72] YOUNG, CHRISTOPHER MICHAEL, US
[72] KLAWITTER, TIMOTHY JAMES, US
[72] DENBOW, JAMES ROY, US
[72] STELLJES, MICHAEL GOMER, US
[72] SUER, MICHAEL DONALD, US
[72] SHEEHAN, JEFFREY GLEN, US
[72] TROKHAN, PAUL DENNIS, US
[72] KIEN, KATHRYN CHRISTIAN, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2020-01-23
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[30] US (62/548,708) 2017-08-22

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[25] EN

[54] **SYSTEMS AND METHODS FOR ESTIMATION OF BUILDING FLOOR AREA**

[54] **SYSTEMES ET PROCEDES D'ESTIMATION DE SURFACE D'ETAGE D'IMMEUBLE**

[72] PERSHING, CHRIS, US

[73] EAGLE VIEW TECHNOLOGIES, INC., US

[86] (3071512)

[87] (3071512)

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[62] 2,862,868

[30] US (61/594,956) 2012-02-03

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[30] US (PCT/US2013/023502) 2013-01-28

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[13] C

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/20 (2006.01) B32B 37/06 (2006.01) B32B 37/15 (2006.01)**

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[54] **VARIEGATED POLYMER-BASED MATERIALS**

[54] **MATERIAU A BASE DE POLYMERE BIGARRE**

[72] STANHOPE, BRUCE EDWARD, US

[72] ROSS, JEFFREY S., US

[72] SAMANO, CESAR, US

[73] CPG INTERNATIONAL LLC, US

[86] (3071663)

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[13] C

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[25] EN

[54] **AUTOMATIC QUALITY MANAGEMENT OF CHAT AGENTS VIA CHAT BOTS**

[54] **GESTION AUTOMATIQUE DE LA QUALITE D'AGENTS CONVERSATIONNELS PAR L'INTERMEDIAIRE DE DIALOGUEURS**

[72] KONIG, YOCHAI, US

[72] KONIG, DAVID, US

[73] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US

[85] 2020-01-28

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[87] (WO2019/036488)

[30] US (15/677,927) 2017-08-15

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[13] C

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[25] EN

[54] **CLEANING ARTICLE WITH DIFFERENTIAL PITCH TOW TUFTS**

[54] **ARTICLE DE NETTOYAGE A TOUFFES D'ETOUPE A PAS DIFFERENTIEL**

[72] POLICICCHIO, NICOLA JOHN, US

[72] HUSTON, LARRY L., US

[73] THE PROCTER & GAMBLE COMPANY, US

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[87] (WO2019/051456)

[30] US (15/700,384) 2017-09-11

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[13] C

[51] **Int.Cl. E02F 3/88 (2006.01) E02F 3/92 (2006.01)**

[25] EN

[54] **HYDRO EXCAVATION VACUUM APPARATUS**

[54] **APPAREIL D'ASPIRATION PAR HYDROEXCAVATION**

[72] ASKELEN, TAYTE, US

[72] STROBEL, ANDY, US

[72] LANOUE, COREY, US

[72] HOFLAND, DANIEL, US

[72] BATES, ADAM, US

[72] GIFT, DAVID, US

[72] SKINNER, JAMES W., US

[72] MEYER, NATHAN J., US

[73] VERMEER MANUFACTURING COMPANY, US

[86] (3071898)

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[22] 2018-07-13

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[30] US (62/532853) 2017-07-14

[11] **3,072,138**
[13] C

[51] **Int.Cl. H04W 24/02 (2009.01)**

[25] EN

[54] **DATA TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE DE TRANSMISSION DE DONNEES, DISPOSITIF DE TERMINAL ET DISPOSITIF DE RESEAU**

[72] ZHANG, ZHI, CN

[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2020-02-05

[86] 2017-08-11 (PCT/CN2017/097013)

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[51] **Int.Cl. B65D 85/60 (2006.01) B65D 83/00 (2006.01) B65D 85/34 (2006.01)**

[25] EN

[54] **EDIBLE OR COMESTIBLE PRODUCT DISPENSER**

[54] **DISTRIBUTEUR DE PRODUITS CONSOMMABLES OU COMESTIBLES**

[72] BACON, EMMA, US

[72] TRANI, ANTHONY, US

[72] MANGOLD, CYNTHIA, US

[72] REINBOLD, JASON, US

[72] MCCAY, JAMES E., US

[72] CLAY, JOHN KEVIN, US

[72] NELSON, JOHN T., US

[72] LUSTIK, CARA, US

[72] WHETZEL, JENNIFER, US

[72] FITER, IGNACIO CUGAT, US

[72] HAIBIN, WANG, US

[72] CURTIN, EDWARD R., US

[72] LAGE, JOAN LLABARIA, US

[73] THE BAZOOKA COMPANIES, INC., US

[86] (3072254)

[87] (3072254)

[22] 2020-02-12

[30] US (62/804,571) 2019-02-12

[30] US (16/586,141) 2019-09-27

[11] **3,072,460**
[13] C

[51] **Int.Cl. B01D 63/08 (2006.01) B01D 71/06 (2006.01)**

[25] EN

[54] **CLARIFIER FOR WATER TREATMENT**

[54] **CLARIFICATEUR POUR LE TRAITEMENT DE L'EAU**

[72] WILEY, III, ROBERT LEE, US

[73] XYLEM WATER SOLUTIONS ZELIENOPLE LLC, US

[85] 2020-02-07

[86] 2018-08-09 (PCT/US2018/046047)

[87] (WO2019/032850)

[30] US (62/543,036) 2017-08-09

[30] US (62/598,623) 2017-12-14

[30] US (16/059,409) 2018-08-09

[11] **3,072,886**
[13] C

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/08 (2006.01)**

[25] EN

[54] **FLOW CHARACTERISTIC CONTROL USING TUBE INFLOW CONTROL DEVICE**

[54] **COMMANDE DE CARACTERISTIQUE D'ECOULEMENT A L'AIDE D'UN DISPOSITIF DE COMMANDE D'ECOULEMENT D'ENTREE DE TUBE**

[72] KOLI, JAI KISHAN, US

[72] FISHER, BRITAIN A., US

[72] HAMMER, AARON C., US

[73] BAKER HUGHES HOLDINGS LLC, US

[85] 2020-02-12

[86] 2018-07-16 (PCT/US2018/042284)

[87] (WO2019/036134)

[30] US (15/680,456) 2017-08-18

[11] **3,073,264**
[13] C

[51] **Int.Cl. G01F 15/14 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **FLOW SENSOR SYSTEM WITH CONNECTION ASSEMBLY**

[54] **SYSTEME DE CAPTEUR DE DEBIT AVEC ENSEMBLE DE CONNEXION**

[72] BOCHENKO, WALTER JOHN, US

[73] CRISI MEDICAL SYSTEMS, INC., US

[86] (3073264)

[87] (3073264)

[22] 2016-08-25

[62] 2,994,976

[30] US (62/211,287) 2015-08-28

[11] **3,073,683**
[13] C

[51] **Int.Cl. H04L 12/28 (2006.01) H04B 17/309 (2015.01) H04L 25/02 (2006.01) H04L 41/22 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR QUALITATIVE ANALYSIS OF BASEBAND BUILDING AUTOMATION NETWORKS**

[54] **SYSTEME ET PROCEDE D'ANALYSE QUALITATIVE DE RESEAUX IMMOTIQUES EN BANDE DE BASE**

[72] WHITE, JOE WALLACE, US

[72] CABRERA, JUAN, US

[73] SIEMENS INDUSTRY, INC., US

[85] 2020-02-21

[86] 2017-08-24 (PCT/US2017/048427)

[87] (WO2019/040069)

[11] **3,074,071**
[13] C

[51] **Int.Cl. A47J 37/07 (2006.01) F24B 13/02 (2006.01)**

[25] EN

[54] **FUEL EFFICIENT GRILL FOR DIRECT AND INDIRECT COOKING**

[54] **GRIL ECONOMIE EN COMBUSTIBLE POUR CUISSON DIRECTE ET INDIRECTE**

[72] SCHLOSSER, ERICH J., US

[72] SUNICH, JAMES MICHAEL, US

[72] CHILDRESS, HOLLISS, US

[72] SIAZON, ROMUALDO SONNY, US

[72] SHARMA, AMAN, US

[73] WEBER-STEPHEN PRODUCTS, LLC, US

[86] (3074071)

[87] (3074071)

[22] 2015-11-13

[62] 2,911,929

[30] US (14/575,227) 2014-12-18

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[11] **3,074,075**
[13] C

[51] **Int.Cl. E02F 3/43 (2006.01) E02F 9/20 (2006.01)**
[25] EN
[54] **SWING AUTOMATION FOR ROPE SHOVEL**
[54] **AUTOMATISATION DE LA MANOEUVRE D'UNE PELLE A CORDE**
[72] TAYLOR, WESLEY P., US
[72] LINSTROTH, MICHAEL J., US
[73] JOY GLOBAL SURFACE MINING INC, US
[86] (3074075)
[87] (3074075)
[22] 2012-04-13
[62] 2,774,658
[30] US (61/475,474) 2011-04-14

[11] **3,074,190**
[13] C

[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR NETWORKED SCHEDULING FOR IMPROVED SPECTRAL EFFICIENCY**
[54] **SYSTEME ET PROCEDE DE PLANIFICATION DE RESEAU POUR UNE EFFICACITE SPECTRALE AMELIOREE**
[72] RAVISHANKAR, CHANNASANDRA, US
[72] HUANG, XIAOLING, US
[72] BENAMMAR, NASSIR, US
[72] GOPAL, RAJEEV, US
[72] CORRIGAN, JOHN, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2020-02-27
[86] 2018-08-23 (PCT/US2018/047689)
[87] (WO2019/046090)
[30] US (62/552,359) 2017-08-30
[30] US (15/832,981) 2017-12-06

[11] **3,074,604**
[13] C

[51] **Int.Cl. H04W 72/232 (2023.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD AND RELATED PRODUCT**
[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS ET PRODUIT ASSOCIE**
[72] LIN, YANAN, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-03-03
[86] 2017-09-05 (PCT/CN2017/100545)
[87] (WO2019/047019)

[11] **3,074,867**
[13] C

[51] **Int.Cl. A01H 6/28 (2018.01) A24D 1/02 (2006.01) D21H 19/06 (2006.01)**
[25] EN
[54] **PLANT PRODUCT INFUSED WITH OIL DERIVED FROM PLANTS OF THE CANNABIS GENUS AND METHOD OF INFUSION**
[54] **PRODUIT VEGETAL INFUSE AVEC UNE HUILE DERIVEE DE PLANTES DU GENRE CANNABIS ET PROCEDE D'INFUSION**
[72] BRUNSON, MICHAEL A, US
[73] BIG 5 PROPERTIES INC., US
[85] 2020-03-04
[86] 2018-09-14 (PCT/US2018/051238)
[87] (WO2019/074614)
[30] US (62/559,255) 2017-09-15

[11] **3,075,125**
[13] C

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 90/11 (2016.01) A61B 90/14 (2016.01) A61B 90/17 (2016.01) A61B 17/34 (2006.01)**
[25] EN
[54] **GUIDE BLOCK FOR BIOPSY OR SURGICAL DEVICES**
[54] **BLOC DE GUIDAGE POUR DISPOSITIFS DE BIOPSIE OU CHIRURGICAUX**
[72] SHABAZ, MARTIN V., US
[73] SENORX, INC., US
[86] (3075125)
[87] (3075125)
[22] 2006-12-05
[62] 2,966,395
[30] US (11/298,154) 2005-12-09

[11] **3,076,173**
[13] C

[51] **Int.Cl. H04W 72/232 (2023.01)**
[25] EN
[54] **METHOD FOR TRANSMITTING AND RECEIVING CONTROL INFORMATION THROUGH PDCCH**
[54] **PROCEDE D'EMISSION ET DE RECEPTION D'INFORMATIONS DE COMMANDE PAR L'INTERMEDIAIRE D'UN CANAL PDCCH**
[72] KIM, KI JUN, KR
[72] LEE, DAE WON, KR
[72] ROH, DONG WOOK, KR
[72] ANH, JOON KUI, KR
[72] NOH, YU JIN, KR
[72] LEE, JUNG HOON, KR
[73] OPTIS CELLULAR TECHNOLOGY, LLC, US
[86] (3076173)
[87] (3076173)
[22] 2008-09-04
[62] 2,914,887
[30] US (61/029,576) 2008-02-19
[30] US (61/037,000) 2008-03-17
[30] KR (10-2008-0068633) 2008-07-15

[11] **3,076,942**
[13] C

[51] **Int.Cl. B29C 64/165 (2017.01) B33Y 70/10 (2020.01) B22F 3/105 (2006.01)**
[25] EN
[54] **SURFACE ADDITIVE FOR THREE-DIMENSIONAL METAL PRINTING COMPOSITIONS**
[54] **ADDITIVE DE SURFACE POUR COMPOSITION D'IMPRESSION DE METAL TRIDIMENSIONNELLE**
[72] VEREGIN, RICHARD P.N., CA
[72] MOFFAT, KAREN A., CA
[73] XEROX CORPORATION, US
[86] (3076942)
[87] (3076942)
[22] 2020-03-25
[30] US (16/369449) 2019-03-29

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[11] **3,077,260**
[13] C

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF ANTI-HER2 ANTIBODY-DRUG CONJUGATE IN TREATING UROTHELIAL CARCINOMA**
[54] **UTILISATION D'UN CONJUGUE ANTICORPS ANTI-HER2-MEDICAMENT DANS LE TRAITEMENT DU CARCINOME UROTHELIAL**
[72] FANG, JIANMIN, CN
[73] REMEGEN CO., LTD., CN
[85] 2020-03-27
[86] 2019-08-19 (PCT/CN2019/101283)
[87] (WO2020/042941)
[30] CN (201810998055.4) 2018-08-29

[11] **3,077,820**
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/142 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **SPLIT AND SIDE-PORTED CATHETER DEVICES**
[54] **DISPOSITIFS CATHETERS A FENTE ET A OUVERTURES LATERALES**
[72] HORVATH, JOSHUA, US
[72] POLITIS, VICTOR, US
[72] RICHARDS, STEPHEN, US
[72] PETTIS, RONALD, US
[72] SEARLE, GARY, US
[72] RIXMAN-SWINNEY, MONICA, US
[72] BOLICK, NATASHA, US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3077820)
[87] (3077820)
[22] 2013-01-04
[62] 2,860,511
[30] US (61/583,564) 2012-01-05

[11] **3,077,830**
[13] C

[51] **Int.Cl. G06V 20/40 (2022.01) H04N 21/80 (2011.01) G06V 10/44 (2022.01) G06V 10/74 (2022.01) G06V 20/52 (2022.01) G06N 3/02 (2006.01) G08B 13/196 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR APPEARANCE SEARCH**
[54] **SYSTEME ET PROCEDE DE RECHERCHE D'APPARENCE**
[72] BUTT, RICHARD, CA
[72] CHAU, ALEXANDER, CA
[72] DOUMBOUYA, MOUSSA, CA
[72] GLOZMAN, LEVI, CA
[72] HE, LU, CA
[72] LIPCHIN, ALEKSEY, CA
[72] MARLATT, SHAUN P., CA
[72] SADANAND, SREEMANANANTH, CA
[72] SAHA, MITUL, CA
[72] SAPTHARISHI, MAHESH, CA
[72] HU, YANYAN, CA
[73] MOTOROLA SOLUTIONS, INC., US
[86] (3077830)
[87] (3077830)
[22] 2017-12-05
[62] 3,000,127
[30] US (62/430,292) 2016-12-05
[30] US (62/527,894) 2017-06-30

[11] **3,078,017**
[13] C

[51] **Int.Cl. B65D 81/18 (2006.01) B65D 81/26 (2006.01) B65D 85/34 (2006.01)**
[25] EN
[54] **PASSIVE AND FORCED AIR COOLING FOR FRESH PRODUCE**
[54] **REFROIDISSEMENT D'AIR PASSIF ET FORCE DESTINE AUX PRODUITS FRAIS**
[72] MALCOLM, CHRISTIAN DAMIAN, US
[73] DIRECT PACK, INC., US
[86] (3078017)
[87] (3078017)
[22] 2017-08-30
[62] 2,977,887
[30] US (62/381,954) 2016-08-31

[11] **3,078,265**
[13] C

[51] **Int.Cl. B62K 11/00 (2013.01)**
[25] EN
[54] **SPHERICAL/ELLIPSOIDAL SINGLE-WHEELED VEHICLE**
[54] **VEHICULE A ROUE SIMPLE SPHERIQUE/ELLIPSOIDALE**
[72] LIU, HAIBO, CN
[72] XIE, FENG, CN
[73] FREEMAN IT LIMITED, CN
[85] 2020-04-02
[86] 2018-10-10 (PCT/CN2018/109556)
[87] (WO2019/114389)
[30] CN (201711320359.7) 2017-12-12
[30] CN (201810648762.0) 2018-06-22

[11] **3,078,478**
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F 9/54 (2006.01)**
[25] EN
[54] **MANAGING A COMPUTING CLUSTER INTERFACE**
[54] **GESTION D'UNE INTERFACE DE GRAPPE INFORMATIQUE**
[72] DOUROS, BRYAN PHIL, US
[72] STANFILL, CRAIG W., US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2020-04-02
[86] 2018-10-30 (PCT/US2018/058220)
[87] (WO2019/089601)
[30] US (62/579,225) 2017-10-31

[11] **3,079,158**
[13] C

[51] **Int.Cl. C12M 1/42 (2006.01) C12N 5/076 (2010.01) B81B 1/00 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MICROFLUIDIC PARTICLE ORIENTATION AND/OR SORTING**
[54] **PROCEDE ET SYSTEME POUR ORIENTATION ET/OU TRI DE PARTICULES MICROFLUIDIQUES**
[72] SIMPSON, MIRIAM CATHER, NZ
[72] ROHDE, CHARLES ALAN, NZ
[73] ENGENDER TECHNOLOGIES LIMITED, NZ
[86] (3079158)
[87] (3079158)
[22] 2013-07-29
[62] 2,894,459
[30] US (61/676,391) 2012-07-27

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[11] **3,079,463**
[13] C

[51] **Int.Cl. A01D 45/02 (2006.01) A01D 34/42 (2006.01) A01D 34/44 (2006.01)**
[25] EN
[54] **STALK ROLL**
[54] **ROULEAU DE RECOLTE DE TIGES**
[72] CALMER, MARION, US
[73] CALMER, MARION, US
[86] (3079463)
[87] (3079463)
[22] 2014-03-12
[62] 2,905,792
[30] US (61/778,118) 2013-03-12

[11] **3,079,467**
[13] C

[51] **Int.Cl. A63G 21/20 (2006.01) A63G 9/00 (2006.01) B61B 3/00 (2006.01) B61B 12/00 (2006.01)**
[25] EN
[54] **AMUSEMENT RIDE SYSTEM**
[54] **SYSTEME DE MANEGE**
[72] MARTIN, RICHARD, CA
[72] BEAUDIN, JEFFREY, CA
[72] LOCKHART, ROBERT, CA
[72] MCNAIR, WILLIAM NATHANIEL, CA
[72] COOPMAN, DEREK, CA
[72] GILL, BRIAN RICHARD, CA
[72] BARLOW, DAVID ANTHONY, CA
[72] ROY, DAVID, CA
[73] DYNAMO INDUSTRIES INC., CA
[86] (3079467)
[87] (3079467)
[22] 2020-04-23
[30] US (62/913,274) 2019-10-10

[11] **3,079,619**
[13] C

[51] **Int.Cl. A23B 4/14 (2006.01) A23B 4/16 (2006.01) A23B 4/18 (2006.01) A23B 4/20 (2006.01) A23B 4/24 (2006.01) A61L 2/16 (2006.01) B02B 1/00 (2006.01)**
[25] EN
[54] **A TEMPERING COMPOSITION FOR TEMPERING GRAIN AND CONTROLLING PATHOGENS IN AND/OR ON SAID GRAIN, AN OXIDIZING COMPOSITION FOR PREPARING SAID TEMPERING COMPOSITION, A USE OF SAID TEMPERING COMPOSITION AND A METHOD OF USE OF SAID TEMPERING COMPOSITION**
[54] **COMPOSITION DE FRASAGE DESTINEE AU FRASAGE DE CEREALES ET A LA LUTTE CONTRE DES PATHOGENES DANS ET/OU SUR LESDITES CEREALES, COMPOSITION OXYDANTE DESTINEE A LA PREPARATION DE LADITE COMPOSITION DE FRASAGE, UTILISATION DE LADITE COMPOSITION DE FRASAGE ET PROCEDE D'UTILISATION DE LADITE COMPOSITION DE FRASAGE**
[72] DAGHER, FADI, CA
[72] DILLON, NICHOLAS, CA
[72] WONG, ROBERT, CA
[72] HYLTON, REBECCA, CA
[72] HAMIDI, AMIR, CA
[73] AGRI-NEO INC., CA
[85] 2020-04-20
[86] 2018-10-18 (PCT/CA2018/051310)
[87] (WO2019/075565)
[30] US (62/575,074) 2017-10-20

[11] **3,079,949**
[13] C

[51] **Int.Cl. H04M 3/493 (2006.01) G06F 40/30 (2020.01) G10L 15/22 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR FACILITATING AGENT CONVERSATIONS WITH CUSTOMERS OF AN ENTERPRISE**
[54] **PROCEDE ET APPAREIL FACILITANT DES CONVERSATIONS D'UN AGENT AVEC LES CLIENTS D'UNE ENTREPRISE**
[72] KANNAN, PALLIPURAM V., US
[73] [24]7.AI, INC., US
[85] 2020-04-22
[86] 2018-11-01 (PCT/US2018/058728)
[87] (WO2019/089941)
[30] US (62/580,748) 2017-11-02
[30] US (16/174,723) 2018-10-30

[11] **3,080,263**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR DIAGNOSING CANCER FROM BLOOD**
[54] **METHODE DE DIAGNOSTIC DU CANCER A PARTIR DU SANG**
[72] KIM, SEONG JIN, KR
[72] YANG, KYUNG MIN, KR
[73] ADVANCED INSTITUTE OF CONVERGENCE TECHNOLOGY, KR
[73] MEDPACTO INC., KR
[85] 2020-04-23
[86] 2018-10-24 (PCT/KR2018/012591)
[87] (WO2019/083262)
[30] KR (10-2017-0138455) 2017-10-24

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[11] **3,080,545**
[13] C

[51] **Int.Cl. G03G 15/06 (2006.01)**
[25] EN
[54] **TONER CONTAINER, PROCESS CARTRIDGE, AND IMAGE FORMING APPARATUS**
[54] **CONTENANT POUR ENCRE SECHE, CARTOUCHE DE TRAITEMENT ET APPAREIL DE FORMATION D'IMAGES**
[72] YOSHIDA, TOMOFUMI, JP
[72] SAKAYA, KOHTA, JP
[72] ARASAWA, SHINICHI, JP
[72] OGATA, YASUNOBU, JP
[72] PARK, JIN SAM, KR
[72] JUNG, GOO CHUL, KR
[73] RICOH COMPANY, LIMITED, JP
[86] (3080545)
[87] (3080545)
[22] 2014-05-30
[62] 2,913,879
[30] JP (2013-114144) 2013-05-30
[30] JP (2013-141524) 2013-07-05
[30] JP (2013-162345) 2013-08-05

[11] **3,080,674**
[13] C

[51] **Int.Cl. C22C 38/00 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/08 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/16 (2006.01) C22C 38/20 (2006.01) C22C 38/24 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01) C22C 38/34 (2006.01) C22C 38/38 (2006.01) C22C 38/58 (2006.01) C23C 2/02 (2006.01)**
[25] EN
[54] **COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET SON PROCEDE DE FABRICATION**
[72] PIPARD, JEAN-MARC, FR
[72] ARLAZAROV, ARTEM, FR
[73] ARCELORMITTAL, LU
[85] 2020-04-28
[86] 2018-11-05 (PCT/IB2018/058665)
[87] (WO2019/092577)
[30] IB (PCT/IB2017/057042) 2017-11-10

[11] **3,080,773**
[13] C

[51] **Int.Cl. G03G 15/04 (2006.01) G03G 15/06 (2006.01)**
[25] EN
[54] **DRUM UNIT, CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS AND C OUPLING MEMBER**
[54] **UNITE DE TAMBOUR, CARTOUCHE, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE ET ELEMENT D'ACCOUPLLEMENT**
[72] MORI, TOMONORI, JP
[72] UESUGI, TETSUO, JP
[73] CANON KABUSHIKI KAISHA, JP
[86] (3080773)
[87] (3080773)
[22] 2016-08-26
[62] 3,034,218

[11] **3,081,138**
[13] C

[51] **Int.Cl. A41C 3/00 (2006.01) A41C 3/04 (2006.01)**
[25] EN
[54] **MULTI-PLY NURSING BRA**
[54] **SOUTIEN-GORGE D'ALLAITEMENT A PLUSIEURS COUCHES**
[72] SCHNADT, ANNINA H., CH
[72] ZIMMERMANN, ANDREA, CH
[73] MEDELA HOLDING AG, CH
[85] 2020-04-30
[86] 2018-11-02 (PCT/EP2018/079979)
[87] (WO2019/086591)
[30] EP (17199749.7) 2017-11-02

[11] **3,081,241**
[13] C

[51] **Int.Cl. A61B 17/56 (2006.01) A61B 17/88 (2006.01) A61F 2/02 (2006.01) A61F 2/46 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **MEDICAL IMPLANT FOR GAS EXCHANGE**
[54] **IMPLANT MEDICAL POUR ECHANGE GAZEUX**
[72] VOGT, SEBASTIAN, DE
[72] KLUGE, THOMAS, DE
[73] HERAEUS MEDICAL GMBH, DE
[86] (3081241)
[87] (3081241)
[22] 2020-05-25
[30] DE (10 2019 115 933.4) 2019-06-12

[11] **3,081,307**
[13] C

[51] **Int.Cl. B60P 7/02 (2006.01) B60J 11/06 (2006.01)**
[25] EN
[54] **TONNEAU COVER WITH BED RAIL SYSTEM**
[54] **COUVERCLE DE TONNEAU AVEC SYSTEME DE RIDELLE**
[72] FACCHINELLO, JEROME, US
[73] TECTUM HOLDINGS, INC., US
[86] (3081307)
[87] (3081307)
[22] 2020-05-21
[30] US (62/857,913) 2019-06-06

[11] **3,081,603**
[13] C

[51] **Int.Cl. A61H 23/04 (2006.01) A61H 9/00 (2006.01) A61H 31/00 (2006.01) A61H 99/00 (2006.01)**
[25] EN
[54] **BODY PULSATING APPARATUS**
[54] **APPAREIL ET PROCEDE DE PULSATIONS CORPORELLES**
[72] HANSEN, CRAIG, US
[72] CROSS, PAUL, US
[73] ELECTROMED, INC., US
[86] (3081603)
[87] (3081603)
[22] 2013-03-26
[62] 2,868,776
[30] US (13/431,956) 2012-03-27

[11] **3,081,790**
[13] C

[51] **Int.Cl. C07D 487/22 (2006.01) A61K 31/504 (2006.01) A61K 31/529 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **MACROCYCLIC COMPOUNDS AS TRK KINASE INHIBITORS AND USES THEREOF**
[54] **COMPOSES MACROCYCLIQUES EN TANT QU'INHIBITEURS DE KINASE TRK ET LEURS UTILISATIONS**
[72] WU, WEN-LIAN, US
[72] YANG, ZHIQIANG, US
[72] LEE, FRANCIS, US
[72] TAN, JOHN QIANG, US
[73] ANGEX PHARMACEUTICAL, INC., US
[85] 2020-05-05
[86] 2018-10-11 (PCT/US2018/055358)
[87] (WO2019/094143)
[30] US (62/584,466) 2017-11-10
[30] US (62/677,391) 2018-05-29

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[11] **3,082,212**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/52 (2006.01) A61K 31/55 (2006.01) A61K 31/553 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 473/34 (2006.01)**

[25] EN

[54] **BRUTON'S TYROSINE KINASE INHIBITORS**

[54] **INHIBITEURS DE TYROSINE KINASE DE BRUTON**

[72] ERLANSON, DANIEL, A., US

[72] MARCOTTE, DOUG, US

[72] KUMARAVEL, GNANASAMBANDAM, US

[72] FAN, JUNFA, US

[72] WANG, DEPING, US

[72] CUERVO, JULIO H., US

[72] SILVIAN, LAURA, US

[72] POWELL, NOEL, US

[72] BUI, MINNA, US

[72] HOPKINS, BRIAN T., US

[72] TAVERAS, ART, US

[72] GUAN, BING, US

[72] CONLON, PATRICK, US

[72] ZHONG, MIN, US

[72] JENKINS, TRACY J., US

[72] SCOTT, DANIEL, US

[72] LUGOVSKOY, ALEXEY A., US

[73] SUNESIS PHARMACEUTICALS, INC., US

[73] BIOGEN MA INC., US

[86] (3082212)

[87] (3082212)

[22] 2010-09-03

[62] 2,771,822

[30] US (61/240,011) 2009-09-04

[11] **3,082,220**
[13] C

[51] **Int.Cl. B25G 1/00 (2006.01) B25B 27/02 (2006.01)**

[25] EN

[54] **RIGHT ANGLE ADAPTER**

[54] **ADAPTATEUR A ANGLE DROIT**

[72] HUTCHISON, ALLEN M., US

[72] POWELL, WILLIAM J., US

[72] ANDERSEN, JONATHAN I., US

[73] SNAP-ON INCORPORATED, US

[86] (3082220)

[87] (3082220)

[22] 2020-06-05

[30] US (16/442,954) 2019-06-17

[11] **3,082,274**
[13] C

[51] **Int.Cl. G10L 19/26 (2013.01) G10L 19/005 (2013.01) G10L 19/08 (2013.01)**

[25] EN

[54] **ENCODING AND DECODING AUDIO SIGNALS**

[54] **CODAGE ET DECODAGE DE SIGNAUX AUDIO**

[72] RAVELLI, EMMANUEL, DE

[72] TOMASEK, ADRIAN, DE

[72] LUTZKY, MANFRED, DE

[72] BENNDORF, CONRAD, DE

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

[85] 2020-05-08

[86] 2018-11-06 (PCT/EP2018/080350)

[87] (WO2019/091980)

[30] EP (17201099.3) 2017-11-10

[11] **3,082,282**
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01) G10L 19/032 (2013.01) G10L 25/18 (2013.01)**

[25] EN

[54] **AUDIO ENCODERS, AUDIO DECODERS, METHODS AND COMPUTER PROGRAMS ADAPTING AN ENCODING AND DECODING OF LEAST SIGNIFICANT BITS**

[54] **CODEURS AUDIO, DECODEURS AUDIO, PROCEDES ET PROGRAMMES INFORMATIQUES ADAPTANT UN CODAGE ET UN DECODAGE DE BITS LES MOINS SIGNIFICATIFS**

[72] RAVELLI, EMMANUEL, DE

[72] FUCHS, GUILLAUME, DE

[72] SCHNELL, MARKUS, DE

[72] TOMASEK, ADRIAN, DE

[72] GEYERSBERGER, STEFAN, DE

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

[85] 2020-05-08

[86] 2018-11-08 (PCT/EP2018/080698)

[87] (WO2019/092155)

[30] EP (PCT/EP2017/078959) 2017-11-10

[11] **3,082,815**
[13] C

[51] **Int.Cl. G06Q 10/0635 (2023.01) G06Q 50/02 (2012.01) G06Q 10/067 (2023.01)**

[25] EN

[54] **DIGITAL MODELING OF DISEASE ON CROPS ON AGRONOMIC FIELDS**

[54] **MODELISATION NUMERIQUE DE MALADIE SUR DES CULTURES DANS DES CHAMPS AGRONOMIQUES**

[72] CARROLL, PATRICIA ANN, US

[73] CLIMATE LLC, US

[85] 2020-05-14

[86] 2018-11-08 (PCT/US2018/059880)

[87] (WO2019/103851)

[30] US (15/820,322) 2017-11-21

[11] **3,083,362**
[13] C

[51] **Int.Cl. B21B 1/085 (2006.01) C21D 9/04 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/18 (2006.01) E01B 5/02 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING A RAIL AND CORRESPONDING RAIL**

[54] **PROCEDE DE FABRICATION DE RAIL ET RAIL CORRESPONDANT**

[72] ARANCON ALVAREZ, JOSE, ES

[72] ALVAREZ DIEZ, DAVID, ES

[72] ARTIMEZ ENCINA, JOSE MANUEL, ES

[72] GARCIA CABALLERO, FRANCISCA, ES

[72] POHU, BENJAMIN, BE

[73] ARCELORMITTAL, LU

[85] 2020-05-22

[86] 2018-11-27 (PCT/IB2018/059349)

[87] (WO2019/102439)

[30] IB (PCT/IB2017/057424) 2017-11-27

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[11] **3,083,561**

[13] C

- [51] **Int.Cl. H04W 16/14 (2009.01) H04B 14/08 (2006.01)**
[25] EN
[54] **SEQUENCE DETERMINING METHOD AND APPARATUS**
[54] **PROCEDE ET DISPOSITIF DE DETERMINATION DE SEQUENCE**
[72] GONG, MINGXIN, CN
[72] SUN, HAO, CN
[72] QU, BINGYU, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-05-26
[86] 2018-07-24 (PCT/CN2018/096897)
[87] (WO2019/100739)
[30] CN (201711199378.9) 2017-11-26
[30] CN (201711228826.3) 2017-11-29
[30] CN (201711487326.1) 2017-12-29
[30] CN (201810150435.2) 2018-02-13

[11] **3,084,248**

[13] C

- [51] **Int.Cl. G06Q 50/02 (2012.01)**
[25] EN
[54] **DEVICE AND METHOD FOR ITEM LEVEL TRACEABILITY OF CROPS**
[54] **DISPOSITIF ET PROCEDE DE TRACABILITE DE NIVEAUX D'ELEMENTS DE CULTURES**
[72] ZHANG, YONGHUI, US
[72] VARNI, JASON, US
[72] RUELO, KENNETH, III, US
[72] SLAUGHENHAUPT, DALE, US
[72] BASSETT-SPIERS, RHONDA, US
[73] ITRADENETWORK, INC., US
[85] 2020-06-02
[86] 2018-12-04 (PCT/US2018/063744)
[87] (WO2019/112999)
[30] US (62/594,074) 2017-12-04

[11] **3,084,618**

[13] C

- [51] **Int.Cl. B22F 1/17 (2022.01) C22C 33/02 (2006.01)**
[25] EN
[54] **PARTIALLY DIFFUSION-ALLOYED STEEL POWDER**
[54] **POUDRE D'ACIER ALLIE PARTIELLEMENT DISPERSEE**
[72] TAKASHITA, TAKUYA, JP
[72] KOBAYASHI, AKIO, JP
[72] NAKAMURA, NAOMICHI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2020-05-27
[86] 2018-11-30 (PCT/JP2018/044316)
[87] (WO2019/111834)
[30] JP (2017-233204) 2017-12-05

[11] **3,084,679**

[13] C

- [51] **Int.Cl. H04N 13/122 (2018.01) H04N 13/128 (2018.01) H04N 13/15 (2018.01) H04N 13/271 (2018.01)**
[25] EN
[54] **LIGHT FIELD IMAGE PROCESSING METHOD FOR DEPTH ACQUISITION**
[54] **PROCEDE DE TRAITEMENT D'IMAGE DE CHAMP LUMINEUX POUR ACQUISITION DE PROFONDEUR**
[72] SAARI, JONATHAN IKOLA, CA
[72] CHO, JI-HO, CA
[73] AIRY3D INC., CA
[85] 2020-06-04
[86] 2018-12-05 (PCT/CA2018/051554)
[87] (WO2019/109182)
[30] US (62/594,718) 2017-12-05

[11] **3,084,747**

[13] C

- [51] **Int.Cl. E21B 47/07 (2012.01) G01K 11/324 (2021.01) G01K 11/32 (2021.01)**
[25] EN
[54] **DTS PERFORMANCE IMPROVEMENT THROUGH VARIABLE MODE PATH LENGTH AVERAGING**
[54] **AMELIORATION D'EFFICACITE DE DTS PAR CALCUL DE LA MOYENNE DE LA LONGUEUR DE TRAJET EN MODE VARIABLE**
[72] MITCHELL, IAN, US
[72] BARRY, ALEXANDER MICHAEL, US
[72] JOHNSTON, WILLIAM ALBERT, US
[73] BAKER HUGHES HOLDINGS LLC, US
[85] 2020-06-04
[86] 2018-11-01 (PCT/US2018/058702)
[87] (WO2019/112717)
[30] US (15/833,054) 2017-12-06

[11] **3,084,898**

[13] C

- [51] **Int.Cl. G01N 11/00 (2006.01)**
[25] EN
[54] **BLOOD TESTING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TEST SANGUIN**
[72] GORIN, MICHAEL M., US
[72] MCCLUSKEY, CORY LEE, US
[72] SCHWAIGER, HUBERT MARTIN, CH
[72] HILLMAN, ROBERT, US
[73] CA CASYSO GMBH, CH
[86] (3084898)
[87] (3084898)
[22] 2016-12-02
[62] 3,007,356
[30] US (14/958,890) 2015-12-03

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[11] **3,085,709**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X85N943**
[54] **MAIS HYBRIDE X85N943**
[72] DOLAN, DENNIS JAMES, US
[72] GARCIA, GUSTAVO MARCELO, US
[72] KING, STEVEN PAUL, US
[72] MONTPETIT, JEAN-MARC, US
[72] WALCH, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085709)
[87] (3085709)
[22] 2020-07-06
[30] US (16/509,623) 2019-07-12

[11] **3,085,714**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X85N948**
[54] **MAIS HYBRIDE X85N948**
[72] MONTPETIT, JEAN-MARC, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085714)
[87] (3085714)
[22] 2020-07-06
[30] US (16/509,648) 2019-07-12

[11] **3,085,716**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X90N357**
[54] **MAIS HYBRIDE X90N357**
[72] ARBELBIDE, MARTIN, US
[72] GARCIA, GUSTAVO MARCELO, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085716)
[87] (3085716)
[22] 2020-07-06
[30] US (16/509,699) 2019-07-12

[11] **3,085,718**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X90N361**
[54] **MAIS HYBRIDE X90N361**
[72] ARBELBIDE, MARTIN, US
[72] GROTE, EDWIN MICHAEL, US
[72] SCHAEFER, CHRISTOPHER MICHAEL, US
[72] SZALMA, STEPHEN JOSEPH, US
[72] ZHANG, JULIA XIULING, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085718)
[87] (3085718)
[22] 2020-07-06
[30] US (16/509,863) 2019-07-12

[11] **3,085,719**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X90N362**
[54] **MAIS HYBRIDE X90N362**
[72] ARBELBIDE, MARTIN, US
[72] GROTE, EDWIN MICHAEL, US
[72] SCHAEFER, CHRISTOPHER MICHAEL, US
[72] WALCH, MATTHEW DAVID, US
[72] ZHANG, JULIA XIULING, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085719)
[87] (3085719)
[22] 2020-07-06
[30] US (16/509,872) 2019-07-12

[11] **3,085,856**
[13] C

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE HYBRID X95N793**
[54] **MAIS HYBRIDE X95N793**
[72] ARBELBIDE, MARTIN, US
[72] GARCIA, GUSTAVO MARCELO, US
[72] ZHANG, JULIA XIULING, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085856)
[87] (3085856)
[22] 2020-07-06
[30] US (16/509,967) 2019-07-12

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[11] **3,085,878**

[13] C

- [51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
- [25] EN
[54] **MAIZE HYBRID X00N538**
[54] **MAIS HYBRIDE X00N538**
[72] CHANDLER, MICHAEL ADAM, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3085878)
[87] (3085878)
[22] 2020-07-06
[30] US (16/510,062) 2019-07-12

[11] **3,086,433**

[13] C

- [51] **Int.Cl. A61K 31/05 (2006.01) A61K 8/34 (2006.01) A61P 17/00 (2006.01) A61Q 19/02 (2006.01)**
- [25] EN
[54] **USE OF CANNABIDIOL OR CANNABIS EXTRACT IN PREPARATION OF SKIN WHITENING PRODUCTS**
- [54] **UTILISATION DU CANNABIDIOL OU D'UN EXTRAIT DE CANNABIS DANS LA PREPARATION DE PRODUITS DE BLANCHIMENT DE LA PEAU**
- [72] ZHANG, KE, CN
[72] TAN, XIN, CN
[72] YU, ZHAOHUI, CN
[72] CHEN, ZHENG, CN
[72] WU, YANAN, CN
[72] LI, MENG, CN
[73] HANYI BIOTECHNOLOGY (BEIJING) CO., LTD, CN
[85] 2020-06-19
[86] 2017-12-20 (PCT/CN2017/117494)
[87] (WO2019/119298)

[11] **3,086,808**

[13] C

- [51] **Int.Cl. G01L 5/00 (2006.01)**
- [25] EN
[54] **METHOD AND DEVICE FOR PREDICTING RESIDUAL STRESS OF METAL PLATE BASED ON MEASURING OF RESIDUAL STRESS RELEASE WARPAGE**
- [54] **PROCEDE ET DISPOSITIF DE PREDICTION DE CONTRAINTE RESIDUELLE D'UNE PLAQUE METALLIQUE SUR LA BASE D'UNE MESURE DE GAUCHISSEMENT A LIBERATION DE CONTRAINTE RESIDUELLE**
- [72] WANG, JUNQIANG, CN
[72] LIU, CHENG, CN
[72] CAO, HAILONG, CN
[72] NIU, GUANMEI, CN
[72] YANG, ZHONGYU, CN
[73] CHINALCO MATERIALS APPLICATION RESEARCH INSTITUTE CO., LTD, CN
[85] 2020-06-23
[86] 2019-01-09 (PCT/CN2019/070934)
[87] (WO2019/154000)

[11] **3,086,837**

[13] C

- [51] **Int.Cl. C40B 40/08 (2006.01) C07K 16/00 (2006.01) C12N 15/13 (2006.01) C40B 40/02 (2006.01) C40B 40/10 (2006.01) C40B 50/00 (2006.01)**
- [25] EN
[54] **LIBRARIES COMPRISING SEGMENTAL POOLS, AND METHODS FOR THEIR PREPARATION AND USE**
- [54] **LIBRAIRIES RENFERMANT DES GROUPEMENTS DE SEGMENTATION ET LEURS METHODES DE PREPARATION ET UTILISATION**
- [72] FELDHAUS, MICHAEL, US
[72] SIVASUBRAMANIAN, ARVIND, US
[72] VASQUEZ, MAXIMILIANO, US
[73] ADIMAB, LLC, US
[86] (3086837)
[87] (3086837)
[22] 2011-07-14
[62] 2,805,875
[30] US (61/365,194) 2010-07-16

[11] **3,086,896**

[13] C

- [51] **Int.Cl. A47L 11/40 (2006.01) A47L 11/29 (2006.01) A47L 11/34 (2006.01)**
- [25] EN
[54] **SELF-CLEANING FEATURES FOR EXTRACTION CLEANERS**
- [54] **CARACTERISTIQUES AUTONETTOYANTES POUR APPAREILS DE NETTOYAGE PAR EXTRACTION**
- [72] BENACQUISTO, JUSTIN, US
[72] GRIFFITH, AARON P., US
[72] LUYCKX, MICHAEL, US
[72] MILLER, DAVID M., US
[72] ROYALE, VICTORIA J., US
[72] WOLFE, BRIAN C., US
[73] BISSELL INC., US
[86] (3086896)
[87] (3086896)
[22] 2018-10-04
[62] 3,019,807
[30] US (62/568,956) 2017-10-06

[11] **3,087,172**

[13] C

- [51] **Int.Cl. A44B 18/00 (2006.01)**
- [25] EN
[54] **SHAPED BODY HAVING A STRUCTURED SURFACE FOR REVERSIBLE ADHESION**
- [54] **CORPS MOULE A SURFACE STRUCTUREE PERMETTANT UNE ADHERENCE REVERSIBLE**
- [72] ARZT, EDUARD, DE
[72] MOH, KARSTEN, DE
[72] SCHMITZ, MARTIN, DE
[73] INNOCISE GMBH, DE
[85] 2020-06-26
[86] 2018-12-10 (PCT/EP2018/084103)
[87] (WO2019/129476)
[30] DE (10 2017 131 344.3) 2017-12-27

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[11] **3,087,343**
[13] C

[51] **Int.Cl. B65F 1/14 (2006.01) B65D 43/26 (2006.01) B65F 1/00 (2006.01) B65F 1/16 (2006.01)**

[25] EN

[54] **TRASH CAN WITH POWER OPERATED DRIVING MECHANISM CONTROLLED BY TRIM MEMBER**

[54] **POUBELLE AVEC MECANISME D'ENTRAINEMENT ELECTRIQUE CONTROLE PAR UN ELEMENT D'AJUSTAGE**

[72] YANG, FRANK, US
[72] WOLBERT, DAVID, US
[72] SANDOR, JOSEPH, US
[72] YEN, KENNETH, US
[72] CARDENAS, ORLANDO, US
[72] BASHA, MICHAEL, US
[72] FRUHAUF, CHRISTOPHER, US
[73] SIMPLEHUMAN, LLC, US
[86] (3087343)
[87] (3087343)
[22] 2013-03-07
[62] 2,808,811
[30] US (61/609,233) 2012-03-09

[11] **3,087,391**
[13] C

[51] **Int.Cl. H04L 5/00 (2006.01)**

[25] EN

[54] **INFORMATION TRANSMISSION METHOD AND DEVICE, STORAGE MEDIUM AND ELECTRONIC DEVICE**

[54] **PROCEDE ET APPAREIL DE TRANSMISSION D'INFORMATIONS, SUPPORT D'INFORMATIONS ET APPAREIL ELECTRONIQUE**

[72] CHEN, XIANMING, CN
[72] DAI, BO, CN
[72] FANG, HUIYING, CN
[72] LIU, KUN, CN
[72] YANG, WEIWEI, CN
[73] ZTE CORPORATION, CN
[85] 2020-06-30
[86] 2018-08-20 (PCT/CN2018/101283)
[87] (WO2019/148813)
[30] CN (201810091907.1) 2018-01-30

[11] **3,087,419**
[13] C

[51] **Int.Cl. A61K 31/7076 (2006.01) A61K 38/21 (2006.01) A61P 21/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

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[54] **SCHEMA POSOLOGIQUE A BASE DE CLADRIBINE DESTINE A TRAITER LA SCLEROSE EN PLAQUES**

[72] DE LUCA, GIAMPIERO, CH
[72] YTHIER, ARNAUD, CH
[72] MUNAFO, ALAIN, CH
[72] LOPEZ-BRESNAHAN, MARIA, US
[73] MERCK SERONO S.A., CH
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[54] **RECTAL MUCOSAL ADMINISTRATION PREPARATION OF PULSATILLA CHINENSIS SAPONIN B4 AND PREPARATION METHOD THEREFOR**

[54] **PREPARATION D'ADMINISTRATION A LA MUQUEUSE RECTALE DE PULSATILLA CHINENSIS SAPONIN B4 ET SON PROCEDE DE PREPARATION**

[72] LIU, QI, CN
[73] LIU, QI, CN
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[86] 2018-01-08 (PCT/CN2018/071716)
[87] (WO2019/134159)

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[72] ARBELBIDE, MARTIN, US
[72] DOLAN, DENNIS JAMES, US
[72] GARCIA, GUSTAVO MARCELO, US
[72] KING, STEVEN PAUL, US
[72] WALCH, MATTHEW DAVID, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
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[30] US (62/873,258) 2019-07-12

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[72] MULLENIX, MICHAEL C., US
[72] ADAMS, JEFFREY K., US
[72] PATTON, WAYNE F., US
[72] ZIPKIN, ROBERT E., US
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[54] **ASSEMBLAGE DE POSE DE
ROBINET A SUPPORT
AUTONOME**
[72] LI, CHUNHUNG, TW
[72] HSU, CHAOYEN, TW
[72] NI, KUOTUNG, TW
[72] LIN, YIPING, TW
[73] GLOBE UNION INDUSTRIAL
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[54] **CHAISE PORTABLE ET
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[72] WINTERHALTER, ANDREW J., US
[72] NICHOLS, STEVE C., US
[73] YETI COOLERS, LLC, US
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[25] EN
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DISEASE**
[54] **FORMULATIONS
D'EPINEPHRINE INTRANASALE
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[72] LOWENTHAL, RICHARD, US
[72] MAGGIO, EDWARD T., US
[72] BELL, ROBERT G., US
[72] SHAH, PRATIK, US
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[25] EN
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PREPARATION METHODS
THEREFOR**
[54] **FORMES CRISTALLINES DE
MESACONINE ET PROCEDE DE
PREPARATION
CORRESPONDANTS**
[72] GENG, YUEFEI, CN
[72] GENG, FUNENG, CN
[72] MA, XIUYING, CN
[72] CHAO, RUOBING, CN
[73] GOODDOCTOR
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LTD., CN
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[54] **METHOD TO SYNTHESIZE
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[54] **PROCEDE DE SYNTHESE
D'HYDROGELS DE
METHACRYLOYLE DE
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[72] MOHAMED, MOHAMED
GAMALELDIN A., CA
[72] KIM, KEEKYOUNG, CA
[73] THE UNIVERSITY OF BRITISH
COLUMBIA, CA
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[25] EN
[54] **METHODS AND APPARATUS FOR
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[54] **PROCEDES ET APPAREIL DE
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MOTEUR**
[72] IHDE, JEFFREY R., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2020-07-28
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PROVIDING ASSISTANCE TO
CALLING CUSTOMERS**
[54] **METHODE ET APPAREIL D'AIDE
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[73] [24]7.AI, INC., US
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[54] **CAPTEUR ACOUSTIQUE COMPATIBLE AVEC UNE FIBRE OPTIQUE**
[72] AKKAYA, ONUR CAN, US
[72] DIGONNET, MICHEL J. F., US
[72] KILIC, ONUR, US
[72] KINO, GORDON S., US
[72] SOLGAARD, OLAV, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
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[25] EN
[54] **OIL FILTER CANISTER DRAIN TOOL**
[54] **OUTIL DE DRAIN AVEC BOITE FILTRANTE A HUILE**
[72] GAINES, PRESTON T., US
[73] SNAP-ON INCORPORATED, US
[86] (3091229)
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[54] **SUBSTRATE BASED ON A PLASTIC COMPOSITION AND SOLID COMPOSITION ON MINERAL BASIS FOR DECORATED WALL OR FLOOR PANELS**
[54] **SUBSTRAT A BASE D'UNE COMPOSITION PLASTIQUE ET D'UNE COMPOSITION SOLIDE SUR BASE MINERALE POUR PANNEAUX MURAUX OU DE SOL DECORES**
[72] HANNIG, HANS-JURGEN, DE
[72] HOFF, EGON, DE
[73] AKZENTA PANELEE + PROFILE GMBH, DE
[85] 2020-08-19
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[54] **MONOLITHIC MICROWAVE INTEGRATED CIRCUIT (MMIC) COOLING STRUCTURE**
[54] **STRUCTURE DE REFROIDISSEMENT DE CIRCUIT INTEGRE MONOLITHIQUE HYPERFREQUENCE (MMIC)**
[72] TRULLI, SUSAN C., US
[72] GUPTA, ANURAG, US
[73] RAYTHEON COMPANY, US
[85] 2020-08-24
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[54] **RELEASABLE PAPERBOARD CHOCK ASSEMBLY**
[54] **ENSEMBLE DE CALES LIBERABLES EN CARTON**
[72] BEVIER, ALEX DEAN, US
[73] GLOBAL HOLDINGS II, INC., US
[85] 2020-09-01
[86] 2019-03-06 (PCT/US2019/020871)
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[30] US (62/640,671) 2018-03-09

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[54] **A DEVICE FOR THE LOCAL APPLICATION OF AND/OR FOR FLUSHING WITH PHARMACEUTICAL FLUIDS**
[54] **DISPOSITIF POUR L'APPLICATION LOCALE ET/OU LA PURGE AU MOYEN DE FLUIDES PHARMACEUTIQUES**
[72] VOGT, SEBASTIAN, DE
[72] KLUGE, THOMAS, DE
[73] HERAEUS MEDICAL GMBH, DE
[86] (3093287)
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[54] **SYSTEM AND METHOD FOR COMPUTERIZED BETTING BASED ON REVERSE ORDER FINISH OF A RACE**
[54] **SYSTEME ET METHODE DE PARIS PAR ORDINATEUR FONDES SUR L'ARRIVEE EN SENS INVERSE D'UNE COURSE**
[72] ALDERUCCI, DEAN P., US
[72] GELMAN, GEOFFREY M., US
[73] CFPH, LLC, US
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[54] **WEAR COMPENSATION DEVICE OF A LABEL PRINTER**
[54] **DISPOSITIF DE COMPENSATION D'USURE D'UNE IMPRIMANTE D'ETIQUETTES**
[72] DE MIRANDA, GUILLAUME, NL
[73] ESPERA-WERKE GMBH, DE
[85] 2020-09-14
[86] 2019-02-26 (PCT/EP2019/054688)
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[54] **ELECTRONIC CVT WITH FRICTION CLUTCH**
[54] **CVT ELECTRONIQUE AVEC EMBRAYAGE A FRICTION**
[72] ZURBRUEGG, RONALD, CH
[72] JENNI, HANS-RUDOLF, CH
[72] FREI, MARCEL, CH
[73] POLARIS INDUSTRIES INC., US
[73] POLARIS INDUSTRIES INC., US
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[54] **LIGHT INSTALLATION TOOL**
[54] **OUTIL D'INSTALLATION DE LUMIERE**
[72] KLATT, WILLIAM D., CA
[73] KLATT, WILLIAM D., CA
[86] (3094269)
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[13] C

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[25] EN
[54] **METHODS AND APPARATUS FOR DETERMINING CONDITIONS OF POWER LINES**
[54] **PROCEDES ET APPAREILS POUR DETERMINER L'ETAT DE LIGNES DE TRANSPORT D'ELECTRICITE**
[72] AFZAL, MUHAMMAD A., US
[72] POTHAMSETTY, VENKAT, US
[72] SMITH, ROGER A., US
[72] ROSS, REBECCA W., US
[73] ACLARA TECHNOLOGIES LLC, US
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[13] C

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[25] EN
[54] **MULTILAYER HOSE FOR AN INFUSION SET FOR DISPENSING A FLUID**
[54] **TUYAU MULTICOUCHE POUR ENSEMBLE DE PERFUSION DESTINE A L'ADMINISTRATION D'UN LIQUIDE**
[72] MARGGI, ROLF, CH
[72] RENGGLI, CHRISTOPH, CH
[72] ZURFLUH, ANDREAS, CH
[73] YPSOMED AG, CH
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[13] C

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[25] EN
[54] **SETTING MECHANICAL BARRIERS IN A SINGLE RUN**
[54] **INSTALLATION DE BARRIERES MECANIQUES EN UN SEUL PASSAGE**
[72] DOCKWEILER, DAVID ALLEN, US
[72] HOWITT, GARRY MARTIN, GB
[72] STANDRIDGE, WILLIAM ELLIS, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
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[13] C

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[25] EN
[54] **PORTABLE DUAL-INTERFACE DATA CARRIER WITH METAL FRAME**
[54] **SUPPORT DE DONNEES PORTATIF A DOUBLE INTERFACE AVEC CADRE METALLIQUE**
[72] SEXL, MARKUS, DE
[72] TARANTINO, THOMAS, DE
[72] VIROSTEK, ERIC, US
[73] GIESECKE+DEVRIENT MOBILE SECURITY GMBH, DE
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[30] US (15/948,030) 2018-04-09
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[25] EN
[54] **BALER WITH AUTOMATED POSITIONING OF PLUNGER**
[54] **PRESSE A BALLES A POSITIONNEMENT AUTOMATIQUE DU PISTON**
[72] RETZLAFF, LAWRENCE, US
[72] WAGGONER, ROBERT, US
[72] TACKE, KEVIN, US
[73] AGCO CORPORATION, US
[86] (3096090)
[87] (3096090)
[22] 2015-09-03
[62] 2,958,596
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[13] C

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[54] **BRIDGE CRANE ARRANGEMENT**
[54] **AGENCEMENT DE PONT ROULANT**
[72] PEIPPO, JUHA, FI
[72] KALLIOKOSKI, KIRSI, FI
[73] KONECRANES GLOBAL CORPORATION, FI
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[13] C

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[25] EN
[54] **AN ORAL TABLET FOR TASTE MASKING OF ACTIVE INGREDIENTS COMPRISING SUGAR ALCOHOL PARTICLES**
[54] **COMPRIME POUR ADMINISTRATION ORALE POUR MASQUER LE GOUT DE PRINCIPES ACTIFS, COMPRENANT DES PARTICULES D'ALCOOL DE SUCRE COMPRESSIBLES**
[72] WITTORFF, HELLE, DK
[73] FERTIN PHARMA A/S, DK
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[87] (WO2019/219143)
[30] US (15/982,510) 2018-05-17

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[13] C

[51] **Int.Cl. F28C 1/04 (2006.01) F28F 25/02 (2006.01) F28F 25/04 (2006.01)**
[25] EN
[54] **COOLING TOWER WATER DIVERSION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DEVIATION D'EAU DE TOUR DE REFROIDISSEMENT**
[72] MASSERANT, KEITH, US
[73] MID-AMERICAN GUNITE, INC. DBA MID-AMERICAN GROUP, US
[85] 2020-10-09
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[25] EN
[54] **WELL FRACTURE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE FRACTURE DE Puits**
[72] UNGCHUSRI, TEP, US
[72] ESPINASSE, PHILIPPE, US
[72] STREIFF, JEAN-LUC, US
[72] BERNARD, GARY, US
[72] SWAGERTY, BRIAN, US
[72] RONGAU, JOHANN, US
[72] DUTT, SUNIL, US
[72] FINK, DAN, US
[72] TAYLOR, JUSTIN, US
[72] COOK, JAMES, US
[73] FMC TECHNOLOGIES, INC., US
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[13] C

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[25] EN
[54] **FLEXIBLE AND STRETCHABLE PRINTED CIRCUITS ON STRETCHABLE SUBSTRATES**
[54] **CIRCUITS IMPRIMES SOUPLES ET ETIRABLES SUR DES SUBSTRATS ETIRABLES**
[72] EDMUNDSON, MARK D., US
[72] GASSLER, PAUL D., US
[73] W. L. GORE & ASSOCIATES, INC., US
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[54] **CHARIOT INTELLIGENT POUR HEMODIALYSEUR**
[72] BIEWER, JOHN AARON, US
[72] PLAHEY, KULWINDER S., US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2020-10-14
[86] 2019-03-07 (PCT/US2019/021065)
[87] (WO2019/240855)
[30] US (16/008,092) 2018-06-14

[11] **3,097,166**
[13] C

- [51] **Int.Cl. B25B 21/00 (2006.01) F16H 1/46 (2006.01)**
[25] EN
[54] **DOUBLE REDUCTION GEAR TRAIN**
[54] **TRAIN D'ENGRENAGES REDUCTEUR DOUBLE**
[72] CYBORSKI, DAVID A., US
[72] BEER, JOSHUA M., US
[72] PATTERSON, MATTHEW D., US
[73] SNAP-ON INCORPORATED, US
[86] (3097166)
[87] (3097166)
[22] 2020-10-27
[30] US (16/665,845) 2019-10-28

[11] **3,097,187**
[13] C

- [51] **Int.Cl. H01R 43/042 (2006.01) H01R 43/048 (2006.01) H01R 43/058 (2006.01)**
[25] EN
[54] **PROGRAMMABLE MEMORY POSITIONER AND CALIBRATION SYSTEM FOR A CRIMP TOOL AND RELATED METHODS**
[54] **POSITIONNEUR DE MEMOIRE PROGRAMMABLE ET SYSTEME D'ETALONNAGE POUR OUTIL DE SERTISSAGE ET PROCEDES ASSOCIES**
[72] KELLY, WILLIAM DAVID, US
[72] BACS, JR., ARON, US
[72] SIMMONS, WALT, US
[73] DANIELS MANUFACTURING CORPORATION, US
[85] 2020-10-14
[86] 2019-04-23 (PCT/US2019/028696)
[87] (WO2019/209810)
[30] US (62/661,288) 2018-04-23

[11] **3,097,213**
[13] C

- [51] **Int.Cl. H05K 3/38 (2006.01) H05K 1/03 (2006.01) H05K 1/02 (2006.01) H05K 1/09 (2006.01) H05K 1/11 (2006.01) H05K 3/00 (2006.01) H05K 3/12 (2006.01)**
[25] EN
[54] **FLEXIBLE AND DURABLE PRINTED CIRCUITS ON STRETCHABLE AND NON-STRETCHABLE SUBSTRATES**
[54] **CIRCUITS IMPRIMES SOUPLES ET DURABLES SUR DES SUBSTRATS ETIRABLES ET NON ETIRABLES**
[72] EDMUNDSON, MARK D., US
[72] GASSLER, PAUL, D., US
[72] SKAIFE, JUSTIN J., US
[72] ZERO, SCOTT J., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2020-10-14
[86] 2019-05-08 (PCT/US2019/031232)
[87] (WO2019/217503)
[30] US (62/668,453) 2018-05-08

[11] **3,097,243**
[13] C

- [51] **Int.Cl. F21V 21/02 (2006.01) F21V 21/14 (2006.01)**
[25] EN
[54] **LIGHTING UNIT MOUNTING ASSEMBLY AND METHOD**
[54] **ASSEMBLAGE D'INSTALLATION D'UNITE D'ECLAIRAGE ET METHODE**
[72] CHANG, ERIC, US
[72] CARPENTER, JEFFREY CHASE, US
[73] ABL IP HOLDING LLC, US
[86] (3097243)
[87] (3097243)
[22] 2020-10-23
[30] US (16/501,485) 2019-10-28

[11] **3,097,552**
[13] C

- [51] **Int.Cl. G07F 17/32 (2006.01) H04W 4/12 (2009.01) A63F 13/332 (2014.01) A63F 13/85 (2014.01)**
[25] EN
[54] **MOBILE GAMING ALERT**
[54] **ALERTE POUR DES JEUX SUR LA PLATEFORME MOBILE**
[72] ALDERUCCI, DEAN P., US
[72] PLOTT, CHARLES, US
[72] MILLER, MARK SHERWOOD, US
[73] CFPH, L.L.C., US
[86] (3097552)
[87] (3097552)
[22] 2010-02-09
[62] 3,011,130
[30] US (12/367,566) 2009-02-09

[11] **3,097,676**
[13] C

- [51] **Int.Cl. G08B 13/14 (2006.01) G06K 19/06 (2006.01) H01B 7/36 (2006.01) H01B 13/34 (2006.01)**
[25] EN
[54] **TRACEABLE AND THEFT DETERRENT RECLAIMABLE PRODUCT**
[54] **PRODUIT RECUPERABLE, TRACABLE ET ANTIVOL**
[72] BURCHFIELD, RON J., US
[72] GODFREY, CAROL, US
[72] HOLCOMBE, CHARLES L., US
[72] SPRUELL, STEPHEN L., US
[72] WARE, JOHN N., JR., US
[72] EASTERWOOD, EDWARD J., US
[72] WILSON, W. STEVE, US
[72] HULLENDER, FRANK, US
[73] SOUTHWIRE COMPANY, LLC, US
[86] (3097676)
[87] (3097676)
[22] 2008-11-12
[62] 2,705,514
[30] US (60/987,566) 2007-11-13

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[11] **3,097,854**
[13] C

[51] **Int.Cl. G06F 3/023 (2006.01) G06F 16/903 (2019.01) G06F 40/274 (2020.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR FINDING DESIRED RESULTS BY INCREMENTAL SEARCH USING AN AMBIGUOUS KEYPAD WITH THE INPUT CONTAINING ORTHOGRAPHIC AND TYPOGRAPHIC ERRORS**

[54] **SYSTEME ET PROCEDE DE RECHERCHE INCREMENTALE DE RESULTATS DESIRES UTILISANT UN CLAVIER AMBIGUE DONT LES ENTREES COMPORTENT DES ERREURS ORTHOGRAPHIQUES ET TYPOGRAPHIQUES**

[72] GARG, PANKAJ, IN

[72] VENKATARAMAN, SASHIKUMAR, IN

[72] RAJPUROHIT, GOPAL MISHRIMALJI, IN

[73] VEVEO, INC., US

[86] (3097854)

[87] (3097854)

[22] 2006-11-21

[62] 2,867,182

[30] US (60/739,893) 2005-11-23

[11] **3,097,957**
[13] C

[51] **Int.Cl. A63H 33/00 (2006.01)**

[25] EN

[54] **SNOWMAN MAKER**

[54] **MACHINE DE FABRICATION DE BONHOMME DE NEIGE**

[72] WILLIAMS, BRETT M., US

[73] WILLIAMS, BRETT M., US

[85] 2020-10-21

[86] 2019-02-14 (PCT/US2019/018004)

[87] (WO2019/209398)

[30] US (15/964,280) 2018-04-27

[11] **3,098,431**
[13] C

[51] **Int.Cl. E21B 37/06 (2006.01) E21B 41/02 (2006.01) E21B 43/16 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR AUTONOMOUS INJECTABLE LIQUID DISPENSING**

[54] **PROCEDE ET APPAREIL POUR DISTRIBUTION AUTONOME DE LIQUIDE INJECTABLE**

[72] FONTENOT, DAVID, US

[72] METZENTHIN, JASON, US

[73] PRO-JECT CHEMICALS, INC., US

[85] 2020-10-26

[86] 2018-11-07 (PCT/US2018/054788)

[87] (WO2019/209367)

[30] US (15/964,677) 2018-04-27

[11] **3,098,746**
[13] C

[51] **Int.Cl. H01M 50/204 (2021.01) H01M 10/6551 (2014.01) H01M 50/519 (2021.01)**

[25] EN

[54] **BATTERY PACK WITH A PLURALITY OF BATTERY CELLS**

[54] **BLOC-BATTERIE A PLUSIEURS ELEMENTS D'ACCUMULATEUR**

[72] ZHANG, ZHIXIAN, CN

[72] SO, CHIT FUNG WYLIE, HK

[73] LITHIUM POWER INC., US

[86] (3098746)

[87] (3098746)

[22] 2020-11-10

[30] US (17/022,041) 2020-09-15

[11] **3,098,804**
[13] C

[51] **Int.Cl. B31B 70/64 (2017.01) B65D 30/20 (2006.01)**

[25] EN

[54] **METHOD AND MACHINE FOR MAKING FLEXIBLE PACKAGES WITH SIDE GUSSETS**

[54] **PROCEDE ET MACHINE POUR FABRIQUER DES EMBALLAGES SOUPLES AYANT DES SOUFFLETS LATERAUX**

[72] RAPPARINI, GINO, IT

[72] CRESCIMBENI, PIETRO, IT

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

[85] 2020-10-29

[86] 2019-05-07 (PCT/IB2019/053734)

[87] (WO2019/215612)

[30] IT (102018000005111) 2018-05-07

[11] **3,098,896**
[13] C

[51] **Int.Cl. H04W 88/06 (2009.01) H04W 36/14 (2009.01) H04W 36/30 (2009.01) H04W 48/18 (2009.01) H04W 76/15 (2018.01)**

[25] EN

[54] **MULTIPLE ACTIVE NETWORK WIRELESS DEVICE**

[54] **DISPOSITIF DE RESEAU SANS FIL PLURIEL ACTIF**

[72] RICE, CHARLES, US

[72] FOGEL, CHRISTOPHER, US

[73] INTERMETRO COMMUNICATIONS, INC., US

[85] 2020-10-29

[86] 2019-04-30 (PCT/US2019/029972)

[87] (WO2019/213117)

[30] US (62/665,103) 2018-05-01

[30] US (62/836,571) 2019-04-19

[11] **3,099,207**
[13] C

[51] **Int.Cl. F04B 43/02 (2006.01) A61M 60/109 (2021.01) A61M 1/36 (2006.01) F04B 43/073 (2006.01) F04B 43/14 (2006.01)**

[25] EN

[54] **A FLEXIBLE DIAPHRAGM FOR USE IN A RECIPROCATING POSITIVE-DISPLACEMENT PUMP**

[54] **MEMBRANE SOUPLE A UTILISER DANS UNE POMPE VOLUMETRIQUE A VA-ET-VIENT**

[72] KAMEN, DEAN, US

[72] DEMERS, JASON A., US

[72] ALTOBELLI, DAVID E., US

[72] GRAY, LARRY B., US

[72] PERRY, N. CHRISTOPHER, US

[72] TRACEY, BRIAN, US

[72] DALE, JAMES D., US

[72] VAN DER MERWE, DIRK A., US

[72] OWENS, KINGSTON, US

[72] WILT, MICHAEL J., US

[72] LEONARD, SCOTT A., US

[73] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[86] (3099207)

[87] (3099207)

[22] 2007-04-13

[62] 2,970,214

[30] US (60/792,073) 2006-04-14

[30] US (60/835,490) 2006-08-04

[30] US (60/904,024) 2007-02-27

[30] US (60/921,314) 2007-04-02

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[11] **3,099,268**
[13] C

[51] **Int.Cl. C07D 277/82 (2006.01) A61K 31/426 (2006.01) A61K 31/427 (2006.01) A61K 31/428 (2006.01) A61K 31/454 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) C07D 277/42 (2006.01) C07D 417/04 (2006.01)**

[25] EN
[54] **COMPOUND EXHIBITING ENTEROPEPTIDASE INHIBITORY ACTIVITY**
[54] **COMPOSE PRESENTANT UNE ACTIVITE D'INHIBITION DE L'ENTEROKINASE**

[72] KIM, YOUNG KWAN, KR
[72] KWON, OHHWAN, KR
[72] PARK, HEEDONG, KR
[72] PARK, JUNGGYU, KR
[72] CHOI, HWAN GEUN, KR
[72] SON, JUNG BEOM, KR
[72] KO, EUNHWA, KR
[72] KIM, SO YOUNG, KR
[72] LEE, SEUNGYEON, KR
[72] KANG, SEOCK YONG, KR
[72] KO, YI KYUNG, KR
[72] PARK, JIN-HEE, KR
[73] LG CHEM, LTD., KR
[85] 2020-11-03
[86] 2019-05-08 (PCT/KR2019/005997)
[87] (WO2019/216742)
[30] KR (10-2018-0053316) 2018-05-09
[30] KR (10-2018-0053315) 2018-05-09

[11] **3,099,409**
[13] C

[51] **Int.Cl. A61B 17/3205 (2006.01) A61B 1/015 (2006.01) A61B 1/018 (2006.01) A61B 1/303 (2006.01) A61B 17/42 (2006.01)**

[25] EN
[54] **MEDICAL DEVICE AND METHODS**
[54] **DISPOSITIF MEDICAL ET METHODES ASSOCIEES**

[72] GERMAIN, AARON, US
[72] TRUCKAI, CSABA, US
[73] MINERVA SURGICAL, INC., US
[86] (3099409)
[87] (3099409)
[22] 2013-01-22
[62] 2,861,327
[30] US (61/589,168) 2012-01-20
[30] US (61/635,803) 2012-04-19
[30] US (61/659,312) 2012-06-13

[11] **3,099,465**
[13] C

[51] **Int.Cl. F16L 29/00 (2006.01) F16L 29/02 (2006.01) F16L 37/38 (2006.01) F16L 37/40 (2006.01)**

[25] EN
[54] **FLUID CONNECTOR WITH RESEALABLE MEMBRANE VALVE**
[54] **RACCORD DE FLUIDE AVEC VANNE A MEMBRANE REFERMABLE**

[72] FREMONT, BRADLEY C., US
[73] OETIKER NY, INC., US
[85] 2020-11-05
[86] 2018-06-25 (PCT/US2018/039333)
[87] (WO2020/005198)

[11] **3,099,476**
[13] C

[51] **Int.Cl. H01R 13/74 (2006.01) B63B 21/00 (2006.01) E02B 3/20 (2006.01) H01R 13/46 (2006.01) H02J 4/00 (2006.01)**

[25] EN
[54] **RETROFIT ELECTRICAL SYSTEM FOR DOCKSIDE POWER PEDESTALS**
[54] **SYSTEME ELECTRIQUE ADAPTE POUR LES SOCLES D'ALIMENTATION A QUAI**

[72] HURTADO, TEOFILO W., US
[73] SMARTPLUG SYSTEMS LLC, US
[86] (3099476)
[87] (3099476)
[22] 2020-11-17
[30] US (16/586,471) 2019-09-27
[30] US (17/025,066) 2020-09-18

[11] **3,099,689**
[13] C

[51] **Int.Cl. H03K 3/38 (2006.01)**

[25] EN
[54] **CURRENT DRIVER SYSTEM**
[54] **SYSTEME DE PILOTE DE COURANT**

[72] MILLER, DONALD L., US
[72] HERR, QUENTIN P., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2020-11-06
[86] 2019-04-30 (PCT/US2019/030036)
[87] (WO2019/217153)
[30] US (15/972,995) 2018-05-07

[11] **3,099,870**
[13] C

[51] **Int.Cl. C07C 237/42 (2006.01) A01N 37/22 (2006.01) A01P 7/04 (2006.01)**

[25] EN
[54] **BENZAMIDE COMPOUND AND USE THEREOF**
[54] **COMPOSE DE BENZAMIDE ET UTILISATION CONNEXE**

[72] ZHANG, LIXIN, CN
[72] ZHANG, JING, CN
[72] ZHANG, XIHAN, CN
[72] GAO, YIXING, CN
[72] WANG, JIE, CN
[72] KANG, ZHUO, CN
[73] METISA BIOTECHNOLOGY CO., LTD, CN
[85] 2020-11-10
[86] 2019-05-07 (PCT/CN2019/085737)
[87] (WO2019/214588)
[30] CN (201810448081.X) 2018-05-11

[11] **3,099,987**
[13] C

[51] **Int.Cl. E02F 3/36 (2006.01)**

[25] EN
[54] **A SYSTEM FOR LIMITING CONTACT BETWEEN A DIPPER AND A SHOVEL BOOM**
[54] **SYSTEME SERVANT A LIMITER LE CONTACT ENTRE UN GODET ET UNE FLECHE DE PELLE**

[72] TAYLOR, WESLEY P., US
[73] JOY GLOBAL SURFACE MINING INC, US
[86] (3099987)
[87] (3099987)
[22] 2011-10-20
[62] 3,027,880
[30] US (12/908,638) 2010-10-20

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[11] **3,100,139**
[13] C

[51] **Int.Cl. E21B 33/134 (2006.01) C09K 5/18 (2006.01) C09K 8/42 (2006.01) C22C 12/00 (2006.01) E21B 36/00 (2006.01)**

[25] EN

[54] **HEAT SOURCES AND ALLOYS FOR USE IN DOWN-HOLE APPLICATIONS**

[54] **SOURCES DE CHALEUR ET ALLIAGES A UTILISER DANS DES APPLICATIONS DE FOND DE TROU**

[72] CARRAGHER, PAUL, GB

[73] BISN TEC LTD, GB

[86] (3100139)

[87] (3100139)

[22] 2013-12-20

[62] 2,934,192

[30] GB (1223055.3) 2012-12-20

[11] **3,100,268**
[13] C

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

[25] EN

[54] **FLUIDIC SYSTEM FOR RECEIVING, DISCHARGING, AND MOVING FLUIDS, METHOD FOR PROCESSING FLUIDS IN A FLUIDIC SYSTEM**

[54] **SYSTEME FLUIDIQUE POUR RECEVOIR, DELIVRER ET DEPLACER DES FLUIDES, PROCEDE DE TRAITEMENT DE FLUIDES DANS UN SYSTEME FLUIDIQUE**

[72] GARTNER, CLAUDIA, DE

[72] KLEMM, RICHARD, DE

[72] MOCHE, CHRISTIAN, DE

[73] MICROFLUIDIC CHIPSHOP GMBH, DE

[85] 2020-11-13

[86] 2019-05-16 (PCT/EP2019/062679)

[87] (WO2019/219844)

[30] DE (10 2018 111 822.8) 2018-05-16

[11] **3,100,637**
[13] C

[51] **Int.Cl. E21B 29/02 (2006.01) E21B 41/00 (2006.01)**

[25] EN

[54] **DEGRADABLE WINDOW FOR MULTILATERAL JUNCTION**

[54] **FENETRE DEGRADABLE POUR JONCTION MULTILATERALE**

[72] FRIPP, MICHAEL LINLEY, US

[72] GLASER, MARK C., US

[72] ORNELAZ, RICHARD DECENA, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2020-11-17

[86] 2018-09-14 (PCT/US2018/051186)

[87] (WO2020/055431)

[11] **3,100,682**
[13] C

[51] **Int.Cl. A47K 3/40 (2006.01) A47K 3/28 (2006.01) E03F 5/04 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR A SHOWER BASE ASSEMBLY COMPATIBLE WITH RESIDENTIAL AND COMMERCIAL CONSTRUCTION**

[54] **SYSTEMES ET PROCEDES POUR ENSEMBLE DE BASE DE DOUCHE COMPATIBLE AVEC UNE CONSTRUCTION RESIDENTIELLE ET COMMERCIALE**

[72] DROESSLER, ADAM MICHAEL, US

[73] DROESSLER, ADAM MICHAEL, US

[85] 2020-11-17

[86] 2019-05-21 (PCT/US2019/033386)

[87] (WO2019/231769)

[30] US (62/676,918) 2018-05-26

[30] US (16/416,035) 2019-05-17

[11] **3,100,895**
[13] C

[51] **Int.Cl. H02H 9/00 (2006.01) H04B 1/3827 (2015.01)**

[25] EN

[54] **METHOD AND APPARATUS TO REDUCE COMMUNICATION DEVICE PEAK CURRENT**

[54] **PROCEDE ET APPAREIL DE REDUCTION DE COURANT DE CRETE DE DISPOSITIF DE COMMUNICATION**

[72] LEE, WAI MUN, MY

[72] DALI, MUHAMAD NOORAZUAN FAKHIR MD, MY

[72] BARTELS, PETER J., US

[72] IDRUS, SYED ISA SYED, MY

[72] FU, YEE BOON, MY

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2020-11-18

[86] 2019-05-23 (PCT/US2019/033644)

[87] (WO2019/236308)

[30] US (16/004,210) 2018-06-08

[30] US (16/259,436) 2019-01-28

[11] **3,100,899**
[13] C

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

[25] EN

[54] **METHODS AND APPARATUS FOR EXTENDING DISCHARGE OVER-CURRENT TRIP TIME IN A BATTERY PROTECTION CIRCUIT**

[54] **PROCEDES ET APPAREILS POUR PROLONGER LE TEMPS DE DECLenchement SUR SURINTENSITE DE DECHARGE DANS UN CIRCUIT DE PROTECTION DE BATTERIE**

[72] SNYDER, ROBERT L., US

[72] FLOWERS, DONALD L., US

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2020-11-18

[86] 2019-05-21 (PCT/US2019/033292)

[87] (WO2019/240916)

[30] US (16/006,449) 2018-06-12

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[11] **3,100,990**
[13] C

[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **CALCULATING A DEPLETION
TIME DURING DIALYSIS**
[54] **CALCUL D'UN TEMPS
D'EPUISEMENT PENDANT UNE
DIALYSE**
[72] YUDS, DAVID, US
[72] CRNKOVICH, MARTIN JOSEPH, US
[72] CHHI, KEN, US
[73] FRESINIUS MEDICAL CARE
HOLDINGS, INC., US
[85] 2020-11-19
[86] 2019-06-17 (PCT/US2019/037424)
[87] (WO2019/245942)
[30] US (16/012,945) 2018-06-20

[11] **3,100,999**
[13] C

[51] **Int.Cl. B60W 20/00 (2016.01) B60W
10/04 (2006.01) B60W 10/06 (2006.01)
B60W 10/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR
OPTIMIZING POWER
CONSUMPTION IN A HYBRID
ELECTRIC VEHICLE**
[54] **SYSTEME ET PROCEDE
PERMETTANT D'OPTIMALISER
LA CONSOMMATION D'ENERGIE
D'UN VEHICULE ELECTRIQUE
HYBRIDE**
[72] RUNDE, JEFFREY K., US
[72] WEST, STEPHEN T., US
[72] HYNES, WILLIAM J., US
[73] ALLISON TRANSMISSION, INC., US
[86] (3100999)
[87] (3100999)
[22] 2014-03-05
[62] 2,898,505
[30] US (61/782,476) 2013-03-14

[11] **3,101,226**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K
31/165 (2006.01) A61P 25/08 (2006.01)
C07D 265/30 (2006.01)**
[25] EN
[54] **P-PHENYLENEDIAMINE
DERIVATIVE AS POTASSIUM
CHANNEL REGULATOR AND
PREPARATION METHOD AND
MEDICAL APPLICATION
THEREOF**
[54] **DERIVE DE P-
PHENYLENEDIAMINE EN TANT
QUE REGULATEUR DES CANAUX
POTASSIQUES, SON PROCEDE
DE PREPARATION ET SON
APPLICATION MEDICALE**
[72] CHEN, HUANMING, CN
[72] LIANG, BO, CN
[73] SHANGHAI ZHIMENG
BIOPHARMA, INC., CN
[85] 2020-11-23
[86] 2019-05-22 (PCT/CN2019/088012)
[87] (WO2019/223732)
[30] CN (201810493023.9) 2018-05-22

[11] **3,101,662**
[13] C

[51] **Int.Cl. C07H 17/08 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF
TENVERMECTIN B,
PREPARATION METHOD
THEREFOR, AND USE THEREOF**
[54] **FORME CRISTALLINE DE LA
TENVERMECTINE B, SON
PROCEDE DE PREPARATION ET
SON UTILISATION**
[72] WANG, JIDONG, CN
[72] LI, JIANGSONG, CN
[72] ZHANG, HUI, CN
[72] ZHANG, LINGJIAN, CN
[72] HUANG, JUN, CN
[73] SHENZHEN TENVER BIOPHARM
CO., LTD., CN
[85] 2020-11-26
[86] 2019-05-24 (PCT/CN2019/088333)
[87] (WO2019/228260)
[30] CN (201810521893.2) 2018-05-28

[11] **3,101,677**
[13] C

[51] **Int.Cl. B29C 64/153 (2017.01)**
[25] EN
[54] **SHAPING METHOD FOR THREE-
DIMENSIONAL SHAPED
PRODUCT**
[54] **METHODE DE FORMAGE D'UN
PRODUIT DE FORME
TRIDIMENSIONNELLE**
[72] TOMITA, SEIICHI, JP
[73] MATSUURA MACHINERY
CORPORATION, JP
[86] (3101677)
[87] (3101677)
[22] 2019-10-28
[62] 3,060,285
[30] JP (2019-023658) 2019-02-13

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[11] **3,101,689**
[13] C

[51] **Int.Cl. H04N 13/122 (2018.01) H04N 13/111 (2018.01) G06T 15/20 (2011.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR GENERATING A VIRTUAL IMAGE FROM A VIEWPOINT SELECTED BY THE USER, FROM A CAMERA ARRAY WITH TRANSMISSION OF FOREGROUND AND BACKGROUND IMAGES AT DIFFERENT FRAME RATES**

[54] **PROCEDE ET APPAREIL DE GENERATION D'UNE IMAGE VIRTUELLE A PARTIR D'UN POINT DE VUE SELECTIONNE PAR L'UTILISATEUR, A PARTIR D'UN RESEAU D'APPAREILS DE PRISE DE VUES A TRANSMISSION D'IMAGES DE PREMIER PLAN ET D'ARRIERE-PLAN A DES FREQUENCES D'IMAGES DIFFERENTES**

[72] YANO, TOMOHIRO, JP
[72] HANDA, MASAHIRO, JP
[72] AIZAWA, MICHIO, JP
[72] MIZUNO, SHOHO, JP
[72] TANAKA, KATSUMASA, JP
[72] MATSUSHITA, AKIHIRO, JP
[72] MORISAWA, KEISUKE, JP
[72] KOMIYAMA, MAI, JP
[72] FUJII, KENICHI, JP
[72] DATE, ATSUSHI, JP
[73] CANON KABUSHIKI KAISHA, JP
[86] (3101689)
[87] (3101689)
[22] 2017-05-22
[62] 3,025,480
[30] JP (2016-104434) 2016-05-25

[11] **3,101,692**
[13] C

[51] **Int.Cl. B29C 64/153 (2017.01) B33Y 10/00 (2015.01) B33Y 40/00 (2020.01) B22F 12/67 (2021.01) B23K 26/342 (2014.01) B22F 10/28 (2021.01)**

[25] EN

[54] **SHAPING METHOD FOR THREE-DIMENSIONAL SHAPED PRODUCT**

[54] **METHODE DE FORMAGE D'UN PRODUIT DE FORME TRIDIMENSIONNELLE**

[72] TOMITA, SEIICHI, JP
[73] MATSUURA MACHINERY CORPORATION, JP

[86] (3101692)
[87] (3101692)
[22] 2019-10-28
[62] 3,060,285
[30] JP (2019-023658) 2019-02-13

[11] **3,101,792**
[13] C

[51] **Int.Cl. A61M 35/00 (2006.01) A61K 9/00 (2006.01) A61K 31/01 (2006.01) A61P 17/00 (2006.01) A61P 17/16 (2006.01)**

[25] EN

[54] **SKIN THERAPY SYSTEMS**

[54] **SYSTEMES DE THERAPIE DE LA PEAU**

[72] MONTROSE, DEANNA, US
[73] PARAFFINUSA, LLC, US

[86] (3101792)
[87] (3101792)
[22] 2012-07-18
[62] 2,890,958
[30] US (61/548,173) 2011-10-17
[30] US (61/589,752) 2012-01-23

[11] **3,102,206**
[13] C

[51] **Int.Cl. E21B 33/129 (2006.01)**

[25] EN

[54] **SLIP AND CONE ARRANGEMENT**

[54] **DISPOSITION DE CALE ET DE CONE**

[72] HAYWARD, DOUG, US
[73] BAKER HUGHES OILFIELD OPERATIONS LLC, US

[86] (3102206)
[87] (3102206)
[22] 2020-12-10
[30] US (16/722849) 2019-12-20

[11] **3,102,268**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/54 (2017.01) C07K 5/00 (2006.01) C07K 5/06 (2006.01) C07K 16/00 (2006.01) C07K 16/18 (2006.01)**

[25] EN

[54] **CONJUGATES OF CELL BINDING MOLECULES WITH CYTOTOXIC AGENTS**

[54] **CONJUGUES DE MOLECULE DE LIAISON CELLULAIRE ET D'AGENTS CYTOTOXIQUES**

[72] ZHAO, ROBERT YONGXIN, CN
[72] ZHANG, YUE, CN
[72] MA, YOURANG, CN
[73] HANGZHOU DAC BIOTECH CO., LTD, CN

[86] (3102268)
[87] (3102268)
[22] 2012-07-12
[62] 2,878,733

[11] **3,102,490**
[13] C

[51] **Int.Cl. G01S 19/10 (2010.01) G01S 19/07 (2010.01)**

[25] EN

[54] **NAVIGATION AUGMENTATION METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME D'AMELIORATION DE NAVIGATION**

[72] MU, XUCHENG, CN
[73] BEIJING FUTURE NAVIGATION TECHNOLOGY CO., LTD, CN

[85] 2020-12-03
[86] 2018-11-23 (PCT/CN2018/117071)
[87] (WO2019/233046)
[30] CN (201810566046.8) 2018-06-04

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[11] **3,102,873**
[13] C

[51] **Int.Cl. B29B 15/00 (2006.01) B29C 49/42 (2006.01)**
[25] EN
[54] **PREFORM COATING DEVICE AND PREFORM COATING METHOD**
[54] **DISPOSITIF DE REVETEMENT DE PREFORME ET PROCEDE DE REVETEMENT DE PREFORME**
[72] TOMARI, ICHIRO, JP
[72] YAMANE, RYO, JP
[72] SUZUKI, HIDEYUKI, JP
[72] NISHIYAMA, MASANORI, JP
[73] SUNTORY HOLDINGS LIMITED, JP
[86] (3102873)
[87] (3102873)
[22] 2016-09-23
[62] 2,999,707
[30] JP (2015-194765) 2015-09-30
[30] JP (2015-193789) 2015-09-30
[30] JP (2015-193745) 2015-09-30

[11] **3,103,160**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **PYRIDOPYRIMIDINONE DERIVATIVES FOR USE AS AXL INHIBITORS**
[54] **DERIVES DE PYRIDOPYRIMIDINONE DESTINES A ETRE UTILISES COMME INHIBITEURS D'AXL**
[72] KIM, JUNG-HO, KR
[72] CHOI, JANG-SIK, KR
[72] LEE, HEE KYU, KR
[72] JUNG, DONG-SIK, KR
[72] PARK, SUNG-HO, KR
[72] CHOI, YUNG-GEUN, KR
[73] OSCOTEC INC., KR
[85] 2020-12-08
[86] 2019-06-26 (PCT/KR2019/007733)
[87] (WO2020/004938)
[30] US (62/690,620) 2018-06-27

[11] **3,103,280**
[13] C

[51] **Int.Cl. C07D 207/27 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING HIGH CHIRAL PURITY LACTAM INTERMEDIATE AND BRIVARACETAM**
[54] **PROCEDE DE PREPARATION D'UN INTERMEDIAIRE DE LACTAME ET DE BRIVARACETAM DE HAUTE PURETE CHIRALE**
[72] YU, ZHENPENG, CN
[72] XIAO, FEI, CN
[72] WANG, GUOPING, CN
[72] QI, SHUXIAN, CN
[72] GAO, HE, CN
[73] YANGZHOU AORUITE PHARMACEUTICAL CO., LTD., CN
[73] YANGZHOU LIANAO BIOMEDICAL CO., LTD., CN
[85] 2020-11-20
[86] 2018-12-17 (PCT/CN2018/121624)
[87] (WO2019/157856)
[30] CN (201810148128.0) 2018-02-13
[30] CN (201811465520.4) 2018-12-03

[11] **3,103,321**
[13] C

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/145 (2006.01) A61M 39/10 (2006.01) A61M 39/12 (2006.01)**
[25] EN
[54] **SMART CONNECTION INTERFACE**
[54] **INTERFACE DE CONNEXION INTELLIGENTE**
[72] BAZARGAN, AFSHIN, US
[72] PANANEN, JACOB E., US
[72] ALDERETE, JUAN M., JR., US
[72] ALI, SHERIF M., US
[72] GROVER, BENJAMIN A., US
[72] HALILI, EDGARDO C., US
[72] MONTALVO, SUSAN MCCONNELL, US
[72] NG, ANTHONY C., US
[72] RANKERS, ULRICH H., US
[72] SAKAE, VAUGHN S., US
[72] VAZQUEZ, PABLO, US
[72] WEAVER, ANDREW E., US
[72] YAVORSKY, MATTHEW WILLIAM, US
[72] YU, EDMOND W., US
[72] WAGNER, JENNIFER L., US
[72] LIN, MARK, US
[72] IBRANYAN, ARSEN, US
[72] TIECK, R. MARIE, US
[72] TROCK, ADAM S., US
[72] LORENZEN, ERIC M., US
[73] MEDTRONIC MINIMED, INC., US
[86] (3103321)
[87] (3103321)
[22] 2015-07-17
[62] 3,030,922
[30] US (62/027019) 2014-07-21
[30] US (62/087445) 2014-12-04
[30] US (62/150064) 2015-04-20
[30] US (62/159504) 2015-05-11
[30] US (14/801338) 2015-07-16
[30] US (14/801503) 2015-07-16
[30] US (14/801429) 2015-07-16
[30] US (14/801548) 2015-07-16
[30] US (14/801266) 2015-07-16

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[11] **3,103,332**
[13] C

[51] **Int.Cl. C07D 307/33 (2006.01) C07D 207/27 (2006.01) C07D 307/93 (2006.01)**

[25] EN

[54] **COMPOUND AND USE THEREOF IN SYNTHESIS OF BRIVARACETAM INTERMEDIATE AND CRUDE DRUG**

[54] **COMPOSE ET SON UTILISATION DANS LA SYNTHÈSE D'INTERMÉDIAIRE DE BRIVARACETAM ET DE MÉDICAMENT BRUT**

[72] FENG, YAN, CN
[72] WANG, RUYONG, CN
[72] YE, YIZHANG, CN
[72] ZHANG, FENGSEN, CN
[72] GONG, XUAN, CN
[72] WANG, ZHONGHONG, CN
[72] KANG, XINSHAN, CN
[73] FUJIAN HAIXI PHARMACEUTICALS CO., LTD, CN

[85] 2020-12-10
[86] 2019-06-20 (PCT/CN2019/092105)
[87] (WO2019/242692)
[30] CN (201810651559.9) 2018-06-22

[11] **3,103,687**
[13] C

[51] **Int.Cl. G02F 1/167 (2019.01) G02F 1/1675 (2019.01) G02F 1/1685 (2019.01)**

[25] EN

[54] **PIEZO ELECTROPHORETIC DISPLAY**

[54] **DISPOSITIF D'AFFICHAGE ELECTROPHORETIQUE PIEZOELECTRIQUE**

[72] GU, HAIYAN, US
[72] LIU, HANAN, US
[72] ZANG, HONGMEI, US
[73] E INK CALIFORNIA, LLC, US

[85] 2020-12-11
[86] 2019-08-13 (PCT/US2019/046258)
[87] (WO2020/036908)
[30] US (62/718,587) 2018-08-14

[11] **3,103,818**
[13] C

[51] **Int.Cl. G11C 11/44 (2006.01) G11C 8/16 (2006.01) H03K 3/38 (2006.01) H03K 19/195 (2006.01)**

[25] EN

[54] **SUPERCONDUCTING NON-DESTRUCTIVE READOUT CIRCUITS**

[54] **CIRCUITS DE LECTURE NON DESTRUCTIVE SUPRACONDUCTEURS**

[72] HERR, ANNA Y., US
[72] HERR, QUENTIN P., US
[72] CLARKE, RYAN EDWARD, US
[72] BRAUN, ALEXANDER LOUIS, US
[72] HEARNE, HAROLD CLIFTON, III, US
[72] BURNETT, RANDALL M., US
[72] LEE, TIMOTHY CHI-CHAO, US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US

[85] 2020-12-14
[86] 2019-07-02 (PCT/US2019/040372)
[87] (WO2020/027972)
[30] US (16/051,058) 2018-07-31

[11] **3,103,970**
[13] C

[51] **Int.Cl. H04W 88/10 (2009.01) H04W 40/04 (2009.01) H04B 7/204 (2006.01)**

[25] EN

[54] **COMMUNICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE COMMUNICATION**

[72] HALEY, DAVID VICTOR LAWRIE, AU
[72] BUETEFUER, JOHN LAWRENCE, AU
[72] GRANT, ALEXANDER JAMES, AU
[72] COWLEY, WILLIAM GEORGE, AU
[72] LECHNER, GOTTFRIED, AU
[72] LAND, INGMAR RUDIGER, AU
[72] MCKILLIAM, ROBERT GEORGE, AU

[72] POLLOK, ANDRE, AU
[72] DAVIS, LINDA MARY, AU
[72] LUPPINO, RICKY ROCCO, AU
[72] BARBULESCU, SORIN ADRIAN, AU
[73] MYRIOTA PTY LTD, AU

[86] (3103970)
[87] (3103970)
[22] 2013-09-20
[62] 2,885,413
[30] AU (2012904130) 2012-09-21

[11] **3,104,015**
[13] C

[51] **Int.Cl. H04W 4/38 (2018.01) H04W 40/04 (2009.01) H04W 80/00 (2009.01) H04B 7/185 (2006.01) H04B 7/204 (2006.01)**

[25] EN

[54] **COMMUNICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE COMMUNICATION**

[72] HALEY, DAVID VICTOR LAWRIE, AU
[72] BUETEFUER, JOHN LAWRENCE, AU
[72] GRANT, ALEXANDER JAMES, AU
[72] COWLEY, WILLIAM GEORGE, AU
[72] LECHNER, GOTTFRIED, AU
[72] LAND, INGMAR RUDIGER, AU
[72] MCKILLIAM, ROBERT GEORGE, AU

[72] POLLOK, ANDRE, AU
[72] DAVIS, LINDA MARY, AU
[72] LUPPINO, RICKY ROCCO, AU
[72] BARBULESCU, SORIN ADRIAN, AU
[73] MYRIOTA PTY LTD, AU

[86] (3104015)
[87] (3104015)
[22] 2013-09-20
[62] 2,885,413
[30] AU (2012904130) 2012-09-21

[11] **3,104,723**
[13] C

[51] **Int.Cl. G01V 8/10 (2006.01) H04N 21/80 (2011.01) G06T 7/246 (2017.01) G01M 3/04 (2006.01) G03B 15/16 (2021.01) G08B 7/06 (2006.01)**

[25] EN

[54] **OBJECT DETECTION**

[54] **DETECTION D'OBJETS**

[72] BADAWY, WAEL, CA
[72] RAHMAN, CHOUDHURY, CA
[73] INTELLIVIEW TECHNOLOGIES INC., CA

[86] (3104723)
[87] (3104723)
[22] 2013-04-29
[62] 2,814,294

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[11] **3,104,984**
[13] C

[51] **Int.Cl. E03F 7/04 (2006.01) F16K 1/20 (2006.01) F16K 15/03 (2006.01) F16K 15/18 (2006.01) F16K 31/24 (2006.01)**

[25] EN

[54] **BACKWATER VALVE WITH CONTROL LINKAGE**

[54] **CLAPET ANTI-RETOUR COMPORTANT UNE TRINGLERIE DE COMMANDE**

[72] COSCARELLA, GABE, CA

[73] COSCARELLA, GABE, CA

[86] (3104984)

[87] (3104984)

[22] 2011-11-16

[62] 3,042,175

[30] CA (2,722,310) 2010-11-16

[11] **3,104,990**
[13] C

[51] **Int.Cl. F04B 53/14 (2006.01) B67D 7/60 (2010.01) A47K 5/12 (2006.01) A47K 5/14 (2006.01) B05B 7/00 (2006.01)**

[25] EN

[54] **FOAM PUMPS WITH LOST MOTION AND ADJUSTABLE OUTPUT FOAM PUMPS**

[54] **POMPES A MOUSSE AYANT DES POMPES A MOUSSE A RATTRAPAGE DES JEUX ET A SORTIE REGLABLE**

[72] CIAVARELLA, NICK E., US

[72] TEDEROUS, CORY J., US

[72] MCNULTY, JOHN J., US

[72] ROSENKRANZ, MARK E., US

[73] GOJO INDUSTRIES, INC., US

[86] (3104990)

[87] (3104990)

[22] 2013-10-30

[62] 2,889,995

[30] US (61/720,490) 2012-10-31

[30] US (13/791,332) 2013-03-08

[11] **3,105,095**
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01) A61B 5/15 (2006.01) A61M 5/158 (2006.01)**

[25] EN

[54] **BLOOD COLLECTION ASSEMBLY HAVING A MULTI-FUNCTION SHIELD**

[54] **ENSEMBLE POUR PRELEVEMENT SANGUIN AYANT UNE PROTECTION MULTIFONCTION**

[72] SIM, TIONG YEE, MY

[72] SIM, LEE HOONG, MY

[73] BECTON, DICKINSON AND COMPANY, US

[86] (3105095)

[87] (3105095)

[22] 2013-03-07

[62] 3,003,110

[30] US (61/608,195) 2012-03-08

[11] **3,105,548**
[13] C

[51] **Int.Cl. B03B 9/02 (2006.01) G01N 33/24 (2006.01)**

[25] EN

[54] **OIL SAND PROCESS LINE CONTROL**

[54] **COMMANDE DE CONDUIT DE TRAITEMENT DE SABLES BITUMINEUX**

[72] KADALI, RAMESH, CA

[73] SUNCOR ENERGY INC., CA

[86] (3105548)

[87] (3105548)

[22] 2013-09-27

[62] 2,828,530

[30] US (61/732,134) 2012-11-30

[30] US (61/777,825) 2013-03-12

[11] **3,105,562**
[13] C

[51] **Int.Cl. A61L 31/10 (2006.01) A61L 27/34 (2006.01) A61L 29/08 (2006.01)**

[25] EN

[54] **BIOACTIVE COATINGS**

[54] **REVETEMENTS BIOACTIFS**

[72] ONIS, SIMON, GB

[72] BURROWS, FANNY, GB

[72] KAPOOR, KRISHAN, GB

[72] RHODES, ALAN, GB

[72] LUTHRA, AJAY KUMAR, GB

[73] BIOINTERACTIONS LIMITED, GB

[86] (3105562)

[87] (3105562)

[22] 2014-04-28

[62] 2,910,000

[30] US (61/816,519) 2013-04-26

[11] **3,105,565**
[13] C

[51] **Int.Cl. C09D 151/08 (2006.01) A61L 27/26 (2006.01) A61L 27/54 (2006.01) C09D 5/16 (2006.01) C08F 290/06 (2006.01)**

[25] EN

[54] **BIOACTIVE COATINGS**

[54] **REVETEMENTS BIOACTIFS**

[72] ONIS, SIMON, GB

[72] BURROWS, FANNY, GB

[72] KAPOOR, KRISHAN, GB

[72] RHODES, ALAN, GB

[72] LUTHRA, AJAY KUMAR, GB

[73] BIOINTERACTIONS LIMITED, GB

[86] (3105565)

[87] (3105565)

[22] 2014-04-28

[62] 2,910,000

[30] US (61/816,519) 2013-04-26

[11] **3,105,579**
[13] C

[51] **Int.Cl. G01N 27/00 (2006.01)**

[25] EN

[54] **ELECTRICAL IMPEDANCE HEMATOCRIT AND HBAIC BIOSENSOR COMPRISING SAMPLE PLATE AND SAMPLE APPARATUS**

[54] **MESURE DU TAUX D'HEMATOCRITE PAR IMPEDANCE ELECTRIQUE ET BIOCAPTEUR HBAIC COMPRENANT UNE PLAQUE D'ECHANTILLONNAGE ET APPAREIL D'ECHANTILLONNAGE**

[72] AINGER, PHILLIP J., GB

[72] BRYAN, MATTHEW ROBERT, GB

[73] SMARTCARE TECHNOLOGIES LIMITED, GB

[86] (3105579)

[87] (3105579)

[22] 2013-04-12

[62] 2,870,354

[30] GB (1206588.4) 2012-04-13

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[11] **3,105,892**
[13] C

[51] **Int.Cl. B05B 7/24 (2006.01) B05B 1/26 (2006.01) B05B 7/00 (2006.01) B05B 14/00 (2018.01)**

[25] EN
[54] **NOZZLE FOR A NANO-AEROSOL**
[54] **BUSE POUR NANO-AEROSOL**
[72] ZARFL, HANS PETER, AT
[73] ELYSION FAMILY OFFICE GMBH, AT
[85] 2021-01-07
[86] 2019-07-09 (PCT/EP2019/068447)
[87] (WO2020/011803)
[30] EP (18183510.9) 2018-07-13

[11] **3,106,016**
[13] C

[51] **Int.Cl. B60T 17/18 (2006.01) B60T 17/00 (2006.01) B60T 17/22 (2006.01) B61H 1/00 (2006.01)**

[25] EN
[54] **BRAKE MONITORING SYSTEMS FOR RAILCARS**
[54] **SYSTEMES DE SURVEILLANCE DE FREIN POUR WAGONS DE CHEMIN DE FER**
[72] MARTIN, ANDREW H., US
[73] AMSTED RAIL COMPANY, INC., US
[85] 2021-01-07
[86] 2019-07-12 (PCT/US2019/041734)
[87] (WO2020/014692)
[30] US (62/697,054) 2018-07-12

[11] **3,106,490**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 19/02 (2006.01) C07D 487/00 (2006.01)**

[25] EN
[54] **[1,2,4]TRIAZOLO[1,5-A]PYRIDINE COMPOUND AS JAK INHIBITOR AND USE THEREOF**
[54] **COMPOSE [1,2,4]TRIAZOLO[1,5-A]PYRIDINE UTILISE EN TANT QU'INHIBITEUR DE JAK ET SON UTILISATION**
[72] MAO, WEIWEI, CN
[72] QIAN, WENYUAN, CN
[72] ZHENG, XUEJIAN, CN
[72] HU, GUOPING, CN
[72] WEI, CHANGQING, CN
[72] LI, JIAN, CN
[72] CHEN, SHUHUI, CN
[73] ZHUHAI UNITED LABORATORIES CO., LTD., CN
[85] 2021-01-14
[86] 2019-08-23 (PCT/CN2019/102209)
[87] (WO2020/038457)
[30] CN (201810968207.6) 2018-08-23

[11] **3,106,723**
[13] C

[51] **Int.Cl. A61M 39/10 (2006.01) A61M 5/31 (2006.01) A61M 39/02 (2006.01)**

[25] EN
[54] **SYRINGE-IV ACCESS LOCKING DEVICE**
[54] **DISPOSITIF DE VERROUILLAGE D'ACCES DE SERINGUE IV**
[72] WITT, ERIK K., US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (3106723)
[87] (3106723)
[22] 2014-03-06
[62] 2,903,744
[30] US (61/774,673) 2013-03-08
[30] US (14/198,802) 2014-03-06

[11] **3,106,821**
[13] C

[51] **Int.Cl. C07F 9/24 (2006.01) A01N 57/28 (2006.01) A01P 7/04 (2006.01)**

[25] EN
[54] **PROCESS FOR PREPARATION OF O, O-DIMETHYL PHOSPHORAMIDOTHIOATE AND N-(METHOXY-METHYLSULFANYLPHOSPHORYL) ACETAMIDE**
[54] **PROCEDE DE PREPARATION DE O,O-DIMETHYL-PHOSPHORAMIDOTHIOATE ET DE N-(METHOXY-METHYLSULFANYLPHOSPHORYL) ACETAMIDE**
[72] CORNES, STEPHEN, US
[72] PRASAD, VIC, US
[72] HUANG, DAVID, CN
[72] KATARIA, KAMAL, IN
[72] LARSON, CHRISTOPHER LYNN, US
[72] GIBB, CAMERON SEATH, US
[73] ARYSTA LIFESCIENCE INC., US
[85] 2021-01-18
[86] 2019-07-19 (PCT/US2019/042621)
[87] (WO2020/018914)
[30] US (16/040,136) 2018-07-19

[11] **3,106,827**
[13] C

[51] **Int.Cl. B01D 21/26 (2006.01) B01D 21/28 (2006.01)**

[25] EN
[54] **HYDRODYNAMIC SEPARATOR**
[54] **SEPARATEUR HYDRODYNAMIQUE**
[72] BAUER, MATHEW E., US
[72] BROOKS, MICHAEL B., US
[72] MATHYS, LINDSEY B., US
[72] PAULSEN, DWANE A., US
[72] SCHLACHTER, HANNAH E., US
[73] CONTECH ENGINEERED SOLUTIONS LLC, US
[85] 2021-01-18
[86] 2019-07-22 (PCT/US2019/042741)
[87] (WO2020/023331)
[30] US (62/701,909) 2018-07-23

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[11] **3,107,850**
[13] C

[51] **Int.Cl. A61N 1/375 (2006.01) A61B 5/145 (2006.01) A61N 1/372 (2006.01) A61N 1/378 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **MODULAR IMPLANTABLE MEDICAL DEVICE**

[54] **DISPOSITIF MEDICAL IMPLANTABLE MODULAIRE**

[72] LIST, HANS, DE

[72] WEHOWSKI, FREDERIC, DE

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

[85] 2021-01-27

[86] 2019-08-29 (PCT/EP2019/073078)

[87] (WO2020/043819)

[30] EP (18191878.0) 2018-08-31

[11] **3,108,485**
[13] C

[51] **Int.Cl. H04W 72/0453 (2023.01) H04W 72/1273 (2023.01)**

[25] EN

[54] **RADIO COMMUNICATION BASE STATION DEVICE AND CONTROL CHANNEL ARRANGEMENT METHOD**

[54] **DISPOSITIF DE STATION DE BASE DE RADIOCOMMUNICATION ET PROCEDE D'AGENCEMENT DE CANAL DE COMMANDE**

[72] FUKUOKA, MASARU, JP

[72] NISHIO, AKIHIKO, JP

[72] NAKAO, SEIGO, JP

[72] GOLITSCHKE EDLER VON ELBWART, ALEXANDER, DE

[73] OPTIS WIRELESS TECHNOLOGY, LLC, US

[86] (3108485)

[87] (3108485)

[22] 2008-03-21

[62] 2,680,403

[30] JP (2007-077502) 2007-03-23

[30] JP (2007-120853) 2007-05-01

[30] JP (2007-211104) 2007-08-13

[11] **3,108,604**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 47/06 (2012.01) F04B 23/04 (2006.01) F04B 49/00 (2006.01) F04B 49/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO MINIMIZE FRICTION PRESSURE LOSS OF INJECTED FLUID**

[54] **SYSTEME ET METHODE POUR MINIMISER LA PERTE DE PRESSION HYDRAULIQUE D'UN LIQUIDE INJECTE**

[72] STEPHENSON, STANLEY VERNON, US

[72] PHILLIPPI, MAX LYNN, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-02-03

[86] 2018-12-14 (PCT/US2018/065748)

[87] (WO2020/122945)

[11] **3,108,727**
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[51] **Int.Cl. H04W 72/0453 (2023.01) H04L 1/1812 (2023.01) H04L 1/18 (2023.01)**

[25] EN

[54] **RADIO COMMUNICATION BASE STATION DEVICE AND CONTROL CHANNEL ARRANGEMENT METHOD**

[54] **DISPOSITIF DE STATION DE BASE DE RADIOCOMMUNICATION ET PROCEDE D'AGENCEMENT DE CANAL DE COMMANDE**

[72] FUKUOKA, MASARU, JP

[72] GOLITSCHKE EDLER VON ELBWART, ALEXANDER, DE

[72] NAKAO, SEIGO, JP

[72] NISHIO, AKIHIKO, JP

[73] OPTIS WIRELESS TECHNOLOGY, LLC, US

[86] (3108727)

[87] (3108727)

[22] 2008-03-21

[62] 2,680,403

[30] JP (2007-077502) 2007-03-23

[30] JP (2007-120853) 2007-05-01

[30] JP (2007-211104) 2007-08-13

[11] **3,108,960**
[13] C

[51] **Int.Cl. G01F 1/84 (2006.01)**

[25] EN

[54] **MULTI-CHANNEL FLOW TUBE**

[54] **TUBE D'ECOULEMENT A PLUSIEURS CANAUX**

[72] BELL, MARK JAMES, US

[72] SCHLOSSER, MARTIN ANDREW, US

[72] SCHOLLENBERGER, FREDERICK SCOTT, US

[72] WEINSTEIN, JOEL, US

[73] MICRO MOTION, INC., US

[86] (3108960)

[87] (3108960)

[22] 2016-05-16

[62] 3,024,388

[11] **3,109,066**
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[25] EN

[54] **EFFECTIVE CIRCUMFERENCE-BASED WRAPPING**

[54] **ENVELOPEMENT BASE SUR UNE CIRCONFERENCE EFFECTIVE**

[72] LANCASTER, PATRICK R., III, US

[72] MITCHELL, MICHAEL P., US

[72] MCCRAY, JEREMY D., US

[72] JOHNSON, RICHARD L., US

[73] LANTECH.COM, LLC., US

[86] (3109066)

[87] (3109066)

[22] 2013-10-25

[62] 2,889,420

[30] US (61/718,429) 2012-10-25

[30] US (61/718,433) 2012-10-25

[30] US (14/062,930) 2013-10-25

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[51] **Int.Cl. C02F 1/44 (2006.01) B01D 61/02 (2006.01) B01D 61/12 (2006.01) B01D 63/04 (2006.01) B01D 63/12 (2006.01) B01D 65/02 (2006.01)**

[25] EN

[54] **ENERGY EFFICIENT LOW-FOULING HIGH-RECOVERY REVERSE OSMOSIS SYSTEM FOR BRACKISH WATER DESALINATION**

[54] **SYSTEME D'OSMOSE INVERSE ECOENERGETIQUE, A RECUPERATION ELEVEE ET A FAIBLE ENCRASSEMENT, POUR LE DESSALEMENT DE L'EAU SAUMATRE**

[72] AGNIHOTRI, DILEEP KUMAR, US
[72] BARELLI, JOHN JOSEPH, US
[73] SURPLUS MANAGEMENT, INC., US
[85] 2021-02-12
[86] 2019-08-19 (PCT/US2019/046984)
[87] (WO2020/041160)
[30] US (16/105,103) 2018-08-20

[11] **3,110,335**
[13] C

[51] **Int.Cl. G06F 8/38 (2018.01) G06F 9/451 (2018.01) G06F 16/954 (2019.01) H04L 67/10 (2022.01) H04L 67/562 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD OF ANALYSIS AND GENERATION OF NAVIGATION SCHEMA**

[54] **SYSTEME ET PROCEDE D'ANALYSE ET DE PRODUCTION DE SCHEMA DE NAVIGATION**

[72] ROSTISLAV, KORYAKIN, RU
[73] CLOUDBLUE LLC, US
[85] 2021-02-22
[86] 2019-08-26 (PCT/US2019/048150)
[87] (WO2020/046818)
[30] US (16/118,004) 2018-08-30

[11] **3,110,597**
[13] C

[51] **Int.Cl. B60R 19/18 (2006.01)**

[25] EN

[54] **BUMPER BEAM HAVING AN INSERT**

[54] **POUTRE DE PARE-CHOCS AYANT UN ELEMENT RAPPORTE**

[72] GIBEAU, ELIE, FR
[72] KHEYATI, YANNIS, FR
[72] MENEGADY, NABIL, GB
[73] ARCELORMITTAL, LU
[85] 2021-02-24
[86] 2019-07-10 (PCT/IB2019/055866)
[87] (WO2020/053674)
[30] IB (PCT/IB2018/056868) 2018-09-10

[11] **3,111,257**
[13] C

[51] **Int.Cl. G10L 19/018 (2013.01) H04M 3/42 (2006.01) H04M 3/56 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUDIO CONTENT VERIFICATION**

[54] **SYSTEME ET METHODE DE VERIFICATION DE CONTENU AUDIO**

[72] RETNAMMA, VENU, IN
[73] MITEL NETWORKS CORPORATION, CA
[86] (3111257)
[87] (3111257)
[22] 2021-03-04
[30] US (16/810712) 2020-03-05

[11] **3,112,436**
[13] C

[51] **Int.Cl. C12N 9/10 (2006.01) A01H 6/20 (2018.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) C11B 1/00 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/54 (2006.01)**

[25] EN

[54] **HERBICIDE-RESISTANT CAMELINA SATIVA PLANTS, AND VARIANT CAMELINA ACETOHYDROXYACID SYNTHASE POLYPEPTIDES**

[54] **PLANTES DE CAMELINA SATIVA RESISTANTES AUX HERBICIDES ET POLYPEPTIDES VARIANTS D'ACETOHYDROXYACIDE SYNTHASE DE CAMELINE**

[72] PUTTICK, DEBBIE, CA
[72] EYNCK, CHRISTINA, CA
[72] GRUSHCOW, JACK, CA
[72] CSUMRIK, DAVID, CA
[73] SMART EARTH CAMELINA CORP., CA
[85] 2021-03-11
[86] 2019-02-15 (PCT/CA2019/050192)
[87] (WO2020/140146)
[30] US (62/787,638) 2019-01-02

[11] **3,113,251**
[13] C

[51] **Int.Cl. B60P 7/02 (2006.01) B60J 7/08 (2006.01) B60J 7/19 (2006.01) B62D 33/04 (2006.01)**

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[54] **CLAMP ASSEMBLY FOR TONNEAU COVER**

[54] **MECANISME DE SERRAGE DESTINE A UN COUVRE-TONNEAU**

[72] LEWIS, JACOB, US
[72] SLINGER, CHRISTOPHER, US
[73] LUND, INC., US
[86] (3113251)
[87] (3113251)
[22] 2019-04-15
[62] 3,040,372
[30] US (62/658031) 2018-04-16
[30] US (62/702059) 2018-07-23

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[25] EN

[54] **NON-DAIRY CHEESE REPLICA COMPRISING A COACERVATE**

[54] **COPIE DE FROMAGE NON LAITIER COMPRENANT UN COACERVAT**

[72] HOLZ-SCHIETINGER, CELESTE, US

[72] KLAPHOLZ, SUE, US

[72] VARADAN, RANJANI, US

[72] CASINO, MONTE, US

[72] BROWN, PATRICK O'REILLY, US

[72] EISEN, MICHAEL, US

[72] COHN, ELYSIA, US

[72] PREVOT, JEAN, US

[73] IMPOSSIBLE FOODS INC., US

[86] (3113417)

[87] (3113417)

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[62] 2,897,606

[30] US (61/751,818) 2013-01-11

[11] **3,113,610**
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[51] **Int.Cl. A61L 27/56 (2006.01) A61F 2/44 (2006.01) A61L 27/04 (2006.01) A61L 27/14 (2006.01)**

[25] EN

[54] **POROUS TISSUE INGROWTH STRUCTURE**

[54] **STRUCTURE D'INTERPOSITION DE TISSU POREUX**

[72] NEBOSKY, PAUL S., US

[72] STALCUP, GREGORY C., US

[72] KNAPP, TROY D., US

[73] SMED-TA/TD, LLC, US

[86] (3113610)

[87] (3113610)

[22] 2014-03-14

[62] 2,896,842

[30] US (61/789,723) 2013-03-15

[30] US (14/209,407) 2014-03-13

[11] **3,113,747**
[13] C

[51] **Int.Cl. A01D 34/416 (2006.01)**

[25] EN

[54] **STRING TRIMMER**

[54] **TAILLE-BORDURE**

[72] LI, LI, CN

[72] DAI, KAICHAO, CN

[73] NANJING CHERVON INDUSTRY CO., LTD., CN

[86] (3113747)

[87] (3113747)

[22] 2021-03-31

[30] CN (202010258996.1) 2020-04-03

[30] US (17/211,985) 2021-03-25

[11] **3,114,074**
[13] C

[51] **Int.Cl. E21B 17/042 (2006.01) F16L 15/00 (2006.01) F16L 15/06 (2006.01)**

[25] EN

[54] **LOBULAR CONNECTION FOR TUBULARS**

[54] **RACCORD A LOBES POUR ELEMENTS TUBULAIRES**

[72] HUGHES, WILLIAM JAMES, US

[73] INTRINSIC ENERGY TECHNOLOGY, LLC, US

[86] (3114074)

[87] (3114074)

[22] 2019-05-29

[62] 3,096,724

[30] US (62/678,012) 2018-05-30

[11] **3,114,232**
[13] C

[51] **Int.Cl. B60D 1/42 (2006.01) B60D 1/52 (2006.01)**

[25] EN

[54] **TRAILER HITCH DEVICE FOR GARDEN TRACTOR**

[54] **DISPOSITIF D'ATTACHE DE REMORQUAGE POUR UN TRACTEUR A JARDIN**

[72] LUSTY, ROBERT H., US

[72] OBERG, JAMES D., US

[73] BAC INDUSTRIES, INC., US

[86] (3114232)

[87] (3114232)

[22] 2021-04-07

[30] US (16/847,930) 2020-04-14

[11] **3,114,389**
[13] C

[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/60 (2021.01) B01J 7/00 (2006.01) C01B 3/02 (2006.01) C01B 3/50 (2006.01) C25B 15/08 (2006.01)**

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[54] **A GAS GENERATOR**

[54] **GENERATEUR DE GAZ**

[72] LIN, HSIN-YUNG, CN

[73] LIN, HSIN-YUNG, CN

[86] (3114389)

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[30] TW (103218377) 2014-10-16

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[11] **3,114,701**
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[51] **Int.Cl. G01N 33/74 (2006.01) G16C 20/00 (2019.01) G01N 33/76 (2006.01) G01N 33/78 (2006.01)**

[25] EN

[54] **DEVICES, METHODS, AND TEST KITS FOR ELECTRONIC ANALYTE ASSAYING**

[54] **DISPOSITIFS, METHODES ET KITS DE TEST POUR DOSAGE D'ANALYTE ELECTRONIQUE**

[72] NAZARETH, ALBERT R., US

[72] STURMAN, ANDY, US

[72] ZIN, BENEDICT, US

[73] CHURCH & DWIGHT CO., INC., US

[86] (3114701)

[87] (3114701)

[22] 2013-02-21

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[30] US (13/402,024) 2012-02-22

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[25] EN

[54] **HOT-ROLLED AND ANNEALED FERRITIC STAINLESS STEEL SHEET AND METHOD FOR PRODUCING THE SAME**

[54] **TOLE D'ACIER INOXYDABLE FERRITIQUE LAMINEE A CHAUD ET RECUITE ET PROCEDE DE PRODUCTION D'UNE TELLE TOLE D'ACIER**

[72] YOSHINO, MASATAKA, JP

[72] INOUE, KEISHI, JP

[72] GAO, FAGANG, JP

[73] JFE STEEL CORPORATION, JP

[85] 2021-03-29

[86] 2019-09-25 (PCT/JP2019/037430)

[87] (WO2020/084987)

[30] JP (2018-200479) 2018-10-25

[11] **3,114,779**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 8/34 (2018.01) G06F 16/901 (2019.01)**

[25] EN

[54] **SUB-GRAPH INTERFACE GENERATION**

[54] **GENERATION D'INTERFACE DE SOUS-GRAPHE**

[72] ABAYA, VICTOR T., US

[72] BRYAN, RUSSELL L., US

[72] LARSON, BROND, US

[72] OFFNER, CARL, US

[72] TEVEN, DANIEL J., US

[73] AB INITIO TECHNOLOGY LLC, US

[86] (3114779)

[87] (3114779)

[22] 2016-12-20

[62] 3,005,263

[30] US (62/270,163) 2015-12-21

[11] **3,115,965**
[13] C

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[25] EN

[54] **MICROCAPSULE COMPOSITION, METHOD FOR MANUFACTURING SAME, AGROCHEMICAL FORMULATION COMPRISING SAME AND WEED CONTROL METHOD**

[54] **COMPOSITION DE MICROCAPSULE AINSI QUE PROCEDE DE FABRICATION DE CELLE-CI, PREPARATION DE PESTICIDE COMPRENANT CELLE-CI, ET PROCEDE DE DESHERBAGE**

[72] OKADA, YUYA, JP

[73] KUMIAI CHEMICAL INDUSTRY CO., LTD., JP

[85] 2021-04-09

[86] 2019-10-18 (PCT/JP2019/041200)

[87] (WO2020/090531)

[30] JP (2018-205756) 2018-10-31

[11] **3,116,487**
[13] C

[51] **Int.Cl. B65D 6/24 (2006.01) B65D 85/76 (2006.01)**

[25] EN

[54] **DISASSEMBLEABLE CHEESE CONTAINER WITH WRAP-AROUND INTERLOCK AND INCREASED FILL VOLUME**

[54] **CONTENANT DE FROMAGE POUVANT ETRE DESASSEMBLE AYANT UN DISPOSITIF DE VERROUILLAGE ENVELOPPANT ET UN VOLUME DE REMPLISSAGE ACCRU**

[72] WILCOX, DONALD E., US

[72] ARENA, CHARLES S., US

[73] A.R. ARENA PRODUCTS, INC., US

[86] (3116487)

[87] (3116487)

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[30] US (61/815,820) 2013-04-25

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[51] **Int.Cl. H01H 33/666 (2006.01) H01H 50/16 (2006.01) H01J 37/147 (2006.01)**

[25] EN

[54] **ELECTROMAGNETIC DRIVE FOR A POWER CIRCUIT-BREAKER WITH A VACUUM INTERRUPTER**

[54] **DISPOSITIF D'ENTRAINEMENT ELECTROMAGNETIQUE POUR DISJONCTEUR D'ALIMENTATION AVEC INTERRUPTEUR A VIDE**

[72] KUMAR, LOKESH, IN

[72] TSCHIESCHE, RALF, DE

[73] SIEMENS AKTIENGESELLSCHAFT, DE

[86] (3117799)

[87] (3117799)

[22] 2021-05-07

[30] DE (10 2020 205 869.5) 2020-05-11

[11] **3,118,654**
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 7/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF AUTOMATING A SLIDE DRILLING OPERATION**

[54] **SYSTEME ET METHODE D'AUTOMATISATION D'UNE OPERATION DE PERCAGE A CHARIOT**

[72] GROOVER, AUSTIN, US

[72] WAGNER, CHRISTOPHER, US

[72] JOHNSON, JESSE, US

[72] GILLAN, COLIN, US

[73] NABORS DRILLING TECHNOLOGIES USA, INC., US

[86] (3118654)

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[22] 2018-12-17

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[30] US (15/872495) 2018-01-16

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- [25] EN
- [54] **DYNAMIC IMAGE PREDICTIVE ENCODING AND DECODING DEVICE, METHOD, AND PROGRAM**
- [54] **DISPOSITIF DE DECODAGE ET DE CODAGE PREDICTIF D'IMAGE DYNAMIQUE, PROCEDE ET PROGRAMME ASSOCIES**
- [72] BOON, CHOONG SENG, JP
[72] TAKIUE, JUNYA, JP
[72] FUJIBAYASHI, AKIRA, JP
[72] TAN, THIOU KENG, JP
[73] NTT DOCOMO, INC., JP
[86] (3118862)
[87] (3118862)
[22] 2013-04-09
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- [51] **Int.Cl. E04H 12/00 (2006.01)**
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- [54] **REINFORCING OF SOLID ROUND LEGS IN TELECOM TOWERS**
- [54] **RENFORCEMENT DE PATTES RONDES SOLIDES DANS LES TOURS DE TELECOMMUNICATION**
- [72] RADI, ASHRAF, CA
[73] RADI, ASHRAF, CA
[86] (3119158)
[87] (3119158)
[22] 2021-05-19

[11] **3,119,927**
[13] C

- [51] **Int.Cl. B65D 63/10 (2006.01) F16G 11/00 (2006.01)**
- [25] EN
- [54] **SECURING DEVICE**
- [54] **DISPOSITIF DE FIXATION**
- [72] EVEREST, JONATHAN F., US
[72] SMITH, CAMERON, US
[72] KOMER, BENJAMIN, US
[73] SIMPLE STRAP LLC, US
[85] 2021-05-13
[86] 2019-10-11 (PCT/US2019/055793)
[87] (WO2020/101827)
[30] US (62/768,881) 2018-11-17
[30] US (16/544,514) 2019-08-19

[11] **3,120,833**
[13] C

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- [25] EN
- [54] **IDENTIFYING EQUIVALENT LINKS ON A PAGE**
- [54] **IDENTIFICATION DE LIENS EQUIVALENTS SUR UNE PAGE**
- [72] ONUT, IOSIF VIOREL, CA
[72] IONESCU, PAUL, CA
[72] AYOUB, KHALIL ANDREW, CA
[72] SMITH, WAYNE DUNCAN, CA
[73] IBM CANADA LIMITED - IBM CANADA LIMITEE, CA
[86] (3120833)
[87] (3120833)
[22] 2012-06-26
[62] 2,781,391

[11] **3,122,001**
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- [25] EN
- [54] **BABY EXERCISER**
- [54] **DISPOSITIF D'EXERCICE POUR BEBE**
- [72] CARRON, GREGORY BENJAMIN, CA
[73] CARRON, GREGORY BENJAMIN, CA
[86] (3122001)
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[22] 2021-06-11
[30] US (63/038,891) 2020-06-14

[11] **3,122,674**
[13] C

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- [25] EN
- [54] **ELECTRICAL METHODS AND SYSTEMS FOR CONCRETE TESTING**
- [54] **PROCEDES ET SYSTEMES ELECTRIQUES POUR ESSAIS SUR BETON**
- [72] ALIZADEH, ROUHOLLAH, CA
[72] GHODS, POURIA, CA
[72] GHODS, AMIR, CA
[72] SALEHI, MUSTAFA, CA
[73] GIATEC SCIENTIFIC INC., CA
[86] (3122674)
[87] (3122674)
[22] 2015-05-13
[62] 2,948,912
[30] US (61/992,364) 2014-05-13

[11] **3,122,954**
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- [25] EN
- [54] **ENSURING PROXIMITY OF WIFI COMMUNICATION DEVICES**
- [54] **GARANTIE DE LA PROXIMITE DE DISPOSITIFS DE COMMUNICATION WIFI**
- [72] IGNATCHENKO, SERGEY, LI
[72] IGNATCHENKO, GEORGII, LI
[73] OLOGN TECHNOLOGIES AG, LI
[86] (3122954)
[87] (3122954)
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[30] US (61/821,962) 2013-05-10
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[11] **3,122,980**
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- [25] EN
- [54] **JARRING APPARATUS**
- [54] **APPAREIL DE BATTAGE**
- [72] MOYES, PETER BARNES, GB
[73] ROTOJAR INNOVATIONS LIMITED, GB
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[87] (3122980)
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[62] 2,909,803
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[54] **ADJUSTABLE CYCLIC STICK**
[54] **MANCHE CYCLIQUE AJUSTABLE**
[72] LAVALLEE, YANN, US
[72] SPINA, PASQUALE, US
[73] BELL HELICOPTER TEXTRON INC., US
[86] (3123144)
[87] (3123144)
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[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING SCREEN COVERS ON ELECTRONIC DEVICES**
[54] **METHODES ET SYSTEMES POUR DETECTER DES COUVERTURES D'ECRAN SUR DES DISPOSITIFS ELECTRONIQUES**
[72] FORUTANPOUR, BABAK, US
[72] PLOETNER, JEFFREY, US
[73] ECOATM, LLC, US
[86] (3124343)
[87] (3124343)
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[25] EN
[54] **BURST MODE NODE**
[54] **NOEUD DE MODE DE SALVE**
[72] MARICEVIC, ZORAN, US
[72] MUTALIK, VENKATESH G., US
[72] SCHEMMANN, MARCEL, NL
[72] ULM, JOHN, US
[73] ARRIS ENTERPRISES LLC, US
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[87] (3124560)
[22] 2017-02-13
[62] 3,015,761
[30] US (62/294,369) 2016-02-12
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[54] **SLIM PROFILE LOUDSPEAKER**
[54] **HAUT-PARLEUR COMPACT**
[72] FINCHAM, LAWRENCE R., US
[73] THX LTD, US
[86] (3124802)
[87] (3124802)
[22] 2014-03-10
[62] 2,904,651
[30] US (61/780,521) 2013-03-13

[11] **3,124,826**
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[51] **Int.Cl. B01J 19/24 (2006.01) C10L 1/08 (2006.01) C11C 3/00 (2006.01) C11C 3/04 (2006.01) F28D 1/06 (2006.01) F28D 7/04 (2006.01) F28D 7/08 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING BIO-DIESEL AND REACTOR**
[54] **PROCEDE DE FABRICATION DE BIODIESEL ET REACTEUR**
[72] MCSPADDEN, KEMPER J., US
[72] THOMASSIE, GERARD M., US
[73] LOUISIANA ECO GREEN, LLC, US
[86] (3124826)
[87] (3124826)
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[25] EN
[54] **ELECTRICAL METHODS AND SYSTEMS FOR CONCRETE TESTING**
[54] **PROCEDES ET SYSTEMES ELECTRIQUES POUR ESSAIS SUR BETON**
[72] ALIZADEH, ROUHOLLAH, CA
[72] GHODS, POURIA, CA
[72] GHODS, AMIR HOSEIN, CA
[72] SALEHL, MUSTAFA, CA
[73] GIATEC SCIENTIFIC INC., CA
[86] (3125171)
[87] (3125171)
[22] 2015-05-13
[62] 2,948,912
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[11] **3,125,248**
[13] C
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[25] EN
[54] **METHOD AND APPARATUS FOR COMPRESSING AND DECOMPRESSING A HIGHER ORDER AMBISONICS REPRESENTATION FOR A SOUND FIELD**
[54] **PROCEDE ET APPAREIL POUR COMPRESSION ET DECOMPRESSION DE REPRESENTATION D'AMBIPHONIE D'ORDRE SUPERIEUR (HOA) POUR CHAMP SONORE**
[72] BOEHM, JOHANNES, DE
[72] KORDON, SVEN, DE
[72] KRUEGER, ALEXANDER, DE
[73] DOLBY INTERNATIONAL AB, NL
[86] (3125248)
[87] (3125248)
[22] 2013-12-04
[62] 2,891,636
[30] EP (12306569.0) 2012-12-12

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[54] **BLOCKCHAIN TRANSACTION MANAGER**

[54] **GESTIONNAIRE DE TRANSACTIONS DE CHAÎNE DE BLOCS**

[72] SRIVASTAVA, NEERAJ, CA

[73] DLT GLOBAL INC., CA

[85] 2021-07-02

[86] 2020-12-09 (PCT/CA2020/051692)

[87] (WO2021/113967)

[30] US (62/948,060) 2019-12-13

[11] **3,125,631**
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[54] **HIGH TEMPERATURE ENERGY STORAGE DEVICE**

[54] **DISPOSITIF DE STOCKAGE D'ÉNERGIE HAUTE TEMPERATURE**

[72] SIGNORELLI, RICCARDO, US

[72] COOLEY, JOHN JACOB, US

[72] DEANE, CHRISTOPHER JOHN SIBBALD, US

[72] EPSTEIN, JAMES, US

[72] KUTTIPILLAI, PADMANABAN SASTHAN, US

[72] MARTINI, FABRIZIO, US

[73] FASTCAP SYSTEMS CORPORATION, US

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[87] (3125631)

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[13] C

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

[54] **SYSTEMES ET METHODES DE JUMELAGE SANS FIL ET DE COMMUNICATION POUR L'ELECTROSTIMULATION**

[72] BAUMGARTNER, FLAVIEN, CH

[72] PERROUD, STEPHANE, CH

[72] VUADENS, PHILIPPE, CH

[72] FONTAINE, NICOLAS, CH

[73] EMPI, INC., US

[86] (3126430)

[87] (3126430)

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[11] **3,126,639**
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[54] **HERBICIDAL COMPOSITIONS COMPRISING 4-AMINO-3-CHLORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PYRIDINE-2-CARBOXYLIC ACID OR A DERIVATIVE THEREOF AND CERTAIN TRIAZOLOPYRIMIDINE SULFONAMIDES**

[54] **COMPOSITION HERBICIDE COMPRENANT DE L'ACIDE 4-AMINO-3-CHLORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PYRIDINE-2-CARBOXYLIQUE ET DU DICLOSULAM OU DU CLORANSULAME-METHYLE**

[72] BANGEL, BRYSTON L., US

[72] SATCHIVI, NORBERT M., US

[73] CORTEVA AGRISCIENCE LLC, US

[86] (3126639)

[87] (3126639)

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[11] **3,127,244**
[13] C

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[54] **SYSTEM AND METHOD FOR COMPILING A SINGULAR VIDEO FILE FROM USER-GENERATED VIDEO FILE FRAGMENTS**

[54] **SYSTEME ET PROCEDE DE COMPILATION D'UN FICHIER VIDEO SINGULIER A PARTIR DE FRAGMENTS DE FICHIER VIDEO GENERES PAR L'UTILISATEUR**

[72] LEEKLEY, GREGORY H., US

[72] SAVENOK, ALEXANDER, US

[72] SAVENOK, PAVEL, US

[73] VERTIGO MEDIA, INC., US

[85] 2021-07-16

[86] 2020-02-27 (PCT/US2020/020188)

[87] (WO2020/176785)

[30] US (16/289,443) 2019-02-28

[11] **3,129,035**
[13] C

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[25] EN

[54] **LARGE SCALE ENZYMATIC SYNTHESIS OF OLIGOSACCHARIDES**

[54] **SYNTHESE ENZYMATIQUE A GRANDE ECHELLE D'OLIGOSACCHARIDES**

[72] WONG, CHI-HUEY, US

[72] WU, CHUNG-YI, TW

[72] TSAI, TSUNG-I, TW

[73] ACADEMIA SINICA, TW

[86] (3129035)

[87] (3129035)

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[62] 3,052,909

[30] US (61/684974) 2012-08-20

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[54] **A METHOD OF PURIFYING PROTEINS**
[54] **METHODE DE PURIFICATION DES PROTEINES**
[72] BRINKMAN, NATHAN, US
[73] CSL BEHRING AG, CH
[86] (3129057)
[87] (3129057)
[22] 2013-10-01
[62] 2,886,726
[30] US (61/709,342) 2012-10-03
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[30] EP (13170202.9) 2013-06-03

[11] **3,130,124**
[13] C

[51] **Int.Cl. B60P 7/04 (2006.01)**
[25] EN
[54] **TARPAULIN RETRACTION AND EXTENSION DEVICE.**
[54] **DISPOSITIF DE RETRACTION ET D'EXTENSION DE BACHE.**
[72] ROYER, REAL, CA
[73] FABRICATION ELCARGO INC., CA
[86] (3130124)
[87] (3130124)
[22] 2015-05-13
[62] 2,891,283

[11] **3,130,340**
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[51] **Int.Cl. B31F 1/07 (2006.01) B65H 37/04 (2006.01) D21G 9/00 (2006.01) F16C 13/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CHANGING ROLLS ON AN EMBOSSER/LAMINATOR MACHINE**
[54] **PROCEDE ET APPAREIL POUR LE CHANGEMENT DE ROULEAUX SUR UNE MACHINE DE GAUFRAGE/STRATIFICATION**
[72] GUSSERT, CORY P., US
[72] BUSHELLE, TYLER D., US
[72] SPINELLI, STEFANO, US
[73] PAPER CONVERTING MACHINE COMPANY, US

[11] **3,131,181**
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[87] (3130340)
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[62] 3,047,324
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[25] EN
[54] **METHOD FOR METHANOL FREE CULTURING OF METHYLOTROPHIC YEAST FOR THE BIOSYNTHESIS OF ADDED VALUE PRODUCTS**
[54] **METHODE DE CULTURE DE LEVURE METHYLOTROPHIQUE SANS METHANOL POUR LA BIOSYNTHESE DE PRODUITS A VALEUR AJOUTEE**
[72] TYURIN, OLEG, CA
[72] SUN, MINGYANG, CA
[73] BIOBOOST SYN BIO CONSULTING INC., CA
[86] (3131181)
[87] (3131181)
[22] 2021-09-17
[30] US (63/214,376) 2021-06-24

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[54] **SEED PLANTING APPARATUS, SYSTEMS AND METHODS**
[54] **APPAREILS, SYSTEMES ET PROCEDES DE SEMIS DE GRAINES**
[72] SCHAEFER, TIM, US
[72] RADTKE, IAN, US
[73] PRECISION PLANTING LLC, US
[86] (3131575)
[87] (3131575)
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[62] 2,966,526
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[25] EN
[54] **HEAT SINK FOR LIGHT FIXTURE FOR INDOOR GROW APPLICATION**
[54] **DISSIPATEUR DE CHALEUR POUR UN APPAREIL D'ECLAIRAGE AUX FINS D'UNE APPLICATION DE CROISSANCE A L'INTERIEUR**
[72] CAI, DENGKE, US
[73] HGCI, INC., US
[85] 2021-09-30
[86] 2021-05-13 (PCT/US2021/032161)
[87] (WO2022/103432)
[30] US (17/098,321) 2020-11-13
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[54] **PLANT BASED PROTEIN EXTRACTION METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME D'EXTRACTION DE PROTEINES D'ORIGINE VEGETALE**

[72] SPINELLI, MICHAEL, US
[72] SINGH, KRISAN, US
[72] BRAND, REINHOLD, US
[73] TATE & LYLE SOLUTIONS USA LLC, US

[86] (3133494)
[87] (3133494)
[22] 2016-04-22
[62] 2,983,291
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[30] US (14/997,744) 2016-01-18
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[13] C

[51] **Int.Cl. A61K 47/61 (2017.01) A61P 35/00 (2006.01) C07H 13/02 (2006.01)**

[25] EN

[54] **COMPOUND OF GLYCOSAMINOGLYCAN, PREPARATION METHOD AND USE THEREOF**

[54] **COMPOSE DE GLYCOSAMINOGLYCANE, METHODE DE PREPARATION ET UTILISATION CONNEXE**

[72] LIN, HUA-YANG, CN
[73] HOLY STONE BIOTECH CO., LTD., GB

[86] (3133853)
[87] (3133853)
[22] 2014-06-27
[62] 2,921,830
[30] US (61/871,352) 2013-08-29
[30] US (14/308,972) 2014-06-19

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[13] C

[51] **Int.Cl. D21H 27/40 (2006.01) B31F 1/12 (2006.01) D21F 11/00 (2006.01)**

[25] EN

[54] **METHODS OF MAKING PAPER PRODUCTS USING A MULTILAYER CREPING BELT, AND PAPER PRODUCTS MADE USING A MULTILAYER CREPING BELT**

[54] **PROCEDES DE FABRICATION DE PRODUITS DE PAPIER A L'AIDE D'UNE COURROIE DE CREPAGE MULTICOUCHE ET PRODUITS DE PAPIER FABRIQUES A L'AIDE D'UNE COURROIE DE CREPAGE MULTICOUCHE**

[72] CHOU, HUNG LIANG, US
[72] FAN, XIAOLIN, US
[72] SZE, DANIEL H., US
[73] GPCP IP HOLDINGS LLC, US

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[87] (3136098)
[22] 2015-09-25
[62] 2,958,904
[30] US (62/055,261) 2014-09-25
[30] US (14/865,443) 2015-09-25

[11] **3,139,304**
[13] C

[51] **Int.Cl. A62B 1/10 (2006.01) F16D 59/00 (2006.01) F16H 57/02 (2012.01)**

[25] EN

[54] **CLUTCH MECHANISM FOR A PORTABLE RESCUE TOOL**

[54] **MECANISME D'EMBRAYAGE POUR UN OUTIL DE SAUVETAGE PORTATIF**

[72] HICKERSON, WILLIAM, US
[73] SNAP-ON INCORPORATED, US

[86] (3139304)
[87] (3139304)
[22] 2014-03-14
[62] 2,904,108
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[11] **3,141,410**
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 50/30 (2016.01)**

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[54] **PACKAGED HYDROPHILIC MEDICAL DEVICES**

[54] **DISPOSITIFS MEDICAUX HYDROPHILES EMBALLES**

[72] FARRELL, DAVID J., US
[73] HOLLISTER INCORPORATED, US

[85] 2021-11-19
[86] 2020-05-21 (PCT/US2020/034011)
[87] (WO2020/237057)
[30] US (62/851,425) 2019-05-22

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[25] EN

[54] **GASTROCUTANEOUS CLOSURE DEVICE**

[54] **DISPOSITIF DE FERMETURE GASTRO-CUTANEE**

[72] HALTER, JEFFREY M., US
[72] SEELEY, CHAD P., US
[72] LANBA, ASHEESH RAVIKUMAR, US

[73] MAINE MEDICAL CENTER, US

[85] 2022-01-11
[86] 2020-06-04 (PCT/US2020/036206)
[87] (WO2020/247690)
[30] US (62/857,351) 2019-06-05

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[13] C

[51] **Int.Cl. A61K 31/232 (2006.01) A61K 9/48 (2006.01) A61P 3/06 (2006.01)**

[25] EN

[54] **ETHYL EICOSAPENTAENOATE FOR MAINTAINING LDL CONTROL**

[54] **ICOSAPENT ETHYL POUR MAINTENIR LE CONTROLE DES LIPOPROTEINES DE BASSE DENSITE**

[72] ROWE, JONATHAN, US
[73] AMARIN PHARMACEUTICALS IRELAND LIMITED, US

[86] (3147657)
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[22] 2011-03-04
[62] 3,066,588
[30] US (61/310,443) 2010-03-04

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[51] **Int.Cl. H01J 49/02 (2006.01) H01J 43/24 (2006.01)**
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[54] **FOCAL PLANE DETECTOR**
[54] **DETECTEUR DE PLAN FOCAL**
[72] HOANG, HUNG QUANG, LU
[72] WIRTZ, TOM, LU
[73] LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST), LU
[85] 2022-02-14
[86] 2020-08-14 (PCT/EP2020/072898)
[87] (WO2021/032639)
[30] LU (LU101359) 2019-08-16

[11] **3,148,760**
[13] C

[51] **Int.Cl. G06F 16/53 (2019.01) G06N 3/02 (2006.01)**
[25] EN
[54] **AUTOMATED IMAGE RETRIEVAL WITH GRAPH NEURAL NETWORK**
[54] **EXTRACTION D'IMAGE AUTOMATISEE AU MOYEN D'UN RESEAU NEURONAL DE GRAPHE**
[72] LIU, CHUNDI, CA
[72] YU, GUANGWEI, CA
[72] VOLKOV, MAKSIMS, CA
[73] THE TORONTO-DOMINION BANK, CA
[85] 2022-01-26
[86] 2020-07-15 (PCT/CA2020/050983)
[87] (WO2021/030899)
[30] US (62/888,435) 2019-08-16
[30] US (16/917,422) 2020-06-30

[11] **3,150,957**
[13] C

[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **EXTERNAL DRIVE IMPLANTATION APPARATUS FOR BENDABLE COLLAR IMPLANTS AND METHOD**
[54] **APPAREIL D'IMPLANTATION D'ENTRAINEMENT EXTERNE POUR IMPLANTS DE COLLIER PLIABLES ET PROCEDE**
[72] SIEV, AHARON, IL
[72] SIEV, RAMI, IL
[73] NORIS MEDICAL LTD., IL
[85] 2022-02-14
[86] 2020-09-09 (PCT/IL2020/050981)
[87] (WO2021/059262)
[30] IL (269728) 2019-09-26

[11] **3,151,381**
[13] C

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[54] **METHODS FOR GENERATING DIRECTIONAL MAGNETIC FIELDS AND MAGNETIC APPARATUSES THEREOF**
[54] **METHODES POUR GENERER DES CHAMPS MAGNETIQUES DIRECTIONNELS ET APPAREILS MAGNETIQUES CONNEXES**
[72] TREVORS, EVAN, CA
[72] SIMIN, NICHOLAS, CA
[72] JAVOR, JOSH, US
[72] RUIZ, CHRISTIAN, US
[73] LANTHA TECH LTD., CA
[85] 2022-03-01
[86] 2021-10-19 (PCT/CA2021/051465)
[87] (WO2022/115939)
[30] US (63/151,419) 2021-02-19
[30] US (63/121,069) 2020-12-03
[30] US (63/151,290) 2021-02-19
[30] US (63/133,524) 2021-01-04

[11] **3,152,187**
[13] C

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[25] EN
[54] **FOOD STORAGE AND COOKING VESSEL WITH A VALVE**
[54] **RECIPIENT DE STOCKAGE ET DE CUISSON D'ALIMENTS A SOUPAPE**
[72] CHENG, STANLEY KIN SUI, US
[73] MEYER INTELLECTUAL PROPERTIES LTD., CN
[73] CHENG, STANLEY KIN SUI, US
[85] 2022-02-22
[86] 2020-08-25 (PCT/US2020/047820)
[87] (WO2021/041426)
[30] US (62/894,232) 2019-08-30

[11] **3,155,408**
[13] C

[51] **Int.Cl. A45F 3/04 (2006.01) B65F 1/00 (2006.01) B65F 1/16 (2006.01)**
[25] EN
[54] **WEARABLE REFUSE COLLECTION RECEPACLE**
[54] **CONTENANT DE COLLECTE DE DECHETS A PORTER**
[72] LEINSTER, KATHRYN ELIZABETH, CA
[73] OPERATION LITTER RIDDER INC., CA
[86] (3155408)
[87] (3155408)
[22] 2022-04-14

[11] **3,156,421**
[13] C

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[25] EN
[54] **ROAD WORKING MACHINE WITH EGRESS LIGHTING SYSTEM**
[54] **MACHINE DE TRAVAUX ROUTIERS AVEC SYSTEME D'ECLAIRAGE DE SORTIE**
[72] NEISEN, MATTHEW, US
[72] BASLER, PERRY, US
[73] ROADTEC, INC., US
[85] 2022-04-27
[86] 2020-11-24 (PCT/US2020/061997)
[87] (WO2021/108397)
[30] US (62/941,059) 2019-11-27

[11] **3,162,082**
[13] C

[51] **Int.Cl. A63B 21/072 (2006.01) A63B 21/075 (2006.01)**
[25] EN
[54] **ADJUSTABLE WEIGHT LIFTING DEVICE**
[54] **DISPOSITIF DE LEVAGE DE POIDS REGLABLE**
[72] SVENBERG, TOMAS, SE
[73] PERSONALITY GYM AB, SE
[85] 2022-06-15
[86] 2020-05-28 (PCT/EP2020/064878)
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[11] **3,162,820**
[13] C

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[25] EN
[54] **APPARATUS AND METHOD OF ROTATIONAL ALIGNMENT OF PERMANENT MAGNET TANDEM MOTORS FOR ELECTRICAL SUBMERSIBLE PUMP**
[54] **APPAREIL ET PROCEDE D'ALIGNEMENT ROTATIF DE MOTEURS EN TANDEM A AIMANTS PERMANENTS POUR POMPE ELECTRIQUE SUBMERSIBLE**
[72] CLINGMAN, JAMES C., US
[73] BAKER HUGHES OILFIELD OPERATIONS, LLC, US
[85] 2022-06-22
[86] 2020-12-17 (PCT/US2020/065665)
[87] (WO2021/133637)
[30] US (16/728,915) 2019-12-27

[11] **3,163,791**
[13] C

- [51] **Int.Cl. G01B 9/02091 (2022.01) G02B 21/00 (2006.01) G02B 21/36 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR LINE-SCANNING MICROSCOPY**
[54] **DISPOSITIFS ET PROCEDES DE MICROSCOPIE A BALAYAGE LINEAIRE**
[72] OGIEN, JONAS, FR
[73] DAMAE MEDICAL, FR
[85] 2022-06-03
[86] 2020-11-30 (PCT/EP2020/083951)
[87] (WO2021/110595)
[30] FR (FR1913670) 2019-12-03

[11] **3,166,296**
[13] C

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[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCT VISUALIZATION USING A SINGLE-PAGE APPLICATION**
[54] **SYSTEMES ET PROCEDES DE VISUALISATION DE PRODUITS A L'AIDE D'UNE APPLICATION MONOPAGE**
[72] GHIAUS, STEFAN-ALEXANDRU, CA
[72] SUSANU, VLAD CRISTIAN, CA
[73] LEAP TOOLS INC., CA
[85] 2022-07-27
[86] 2021-01-29 (PCT/IB2021/000039)
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[30] US (16/777,697) 2020-01-30
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[11] **3,167,334**
[13] C

- [51] **Int.Cl. G06F 9/00 (2006.01)**
[25] EN
[54] **ZERO PACKET LOSS UPGRADE OF AN IO DEVICE**
[54] **MISE A NIVEAU SANS PERTE DE PAQUETS D'UN DISPOSITIF IO**
[72] RATHORE, ALOK, US
[72] DODDAPANENI, KRISHNA, US
[72] KAMISSETTY, SARAT BABU, US
[72] HALDER, BARUN, US
[72] RAMACHANDRAN, HAREESH, US
[73] PENSANDO SYSTEMS INC., US
[85] 2022-07-07
[86] 2021-01-14 (PCT/US2021/013489)
[87] (WO2021/146463)
[30] US (16/742,631) 2020-01-14

[11] **3,169,023**
[13] C

- [51] **Int.Cl. G01R 19/155 (2006.01) G01R 1/04 (2006.01)**
[25] EN
[54] **WRIST-BAND VOLTAGE DETECTOR**
[54] **DETECTEUR DE TENSION DE TYPE BRACELET**
[72] STAPLES, GRANT EDWARD, AU
[73] STAPLES, GRANT EDWARD, AU
[85] 2022-08-22
[86] 2021-02-24 (PCT/IB2021/051547)
[87] (WO2021/171199)
[30] US (62/981,147) 2020-02-25

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[13] C

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[25] EN
[54] **HEMP PLANT NAMED 'KIRSCHER'**
[54] **PLANTE DE CHANVRE DENOMMEE "KIRSCHER"**
[72] REEL, KERI, US
[73] CHARLOTTE'S WEB, INC., US
[85] 2022-07-27
[86] 2021-02-16 (PCT/US2021/018230)
[87] (WO2021/167902)
[30] US (62/978,399) 2020-02-19
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(2006.01)**

[25] EN

[54] **ALKOXYSILANE FUNCTIONAL
POLYURETHANE-UREA FOR
ADHESIVE OR COATING**

[54] **POLYURETHANE-UREE A
FONCTION ALCOXYSILANE
POUR ADHESIF OU
REVETEMENT**

[72] OLSSON KARLBERG, NILS
GUSTAV MARTIN, NL

[72] PLIKK, PETER ANDREAS, NL

[72] VAN DEN BERG, KEIMPE JAN, NL

[72] VERLAAN-HOOFT, HENDRICA
PETRONELLA MARIA, NL

[72] YEBIO, BEREKET ZEWOLDI, NL

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

[85] 2022-08-17

[86] 2021-02-26 (PCT/EP2021/025077)

[87] (WO2021/170297)

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[11] **3,173,348**

[13] C

[51] **Int.Cl. F16L 59/14 (2006.01)**

[25] EN

[54] **PIPE INSULATION ASSEMBLY**

[54] **ENSEMBLE D'ISOLATION DE
TUYAU**

[72] PARKS, JERRY M., US

[72] MUSICK, DAVID E., US

[72] CHACKO, JACOB T., US

[72] CLANCY, TIMOTHY R., US

[72] HETTLER, NEIL, US

[72] QI, WEIGANG, US

[72] GUTKOSKI, MADELYN
ELIZABETH, US

[73] OWENS CORNING INTELLECTUAL
CAPITAL, LLC, US

[86] (3173348)

[87] (3173348)

[22] 2016-11-11

[62] 3,148,632

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[21] **3,128,580**
[13] A1
[51] **Int.Cl. A61M 3/02 (2006.01)**
[25] EN
[54] **PERSONAL CONSTIPATION PREVENTION & RELIEF INJECTOR**
[54] **INJECTEUR DE PREVENTION ET DE SOULAGEMENT PERSONNEL DE LA CONSTIPATION**
[72] STRAUB, ALAIN, CA
[71] STRAUB, ALAIN, CA
[22] 2021-08-23
[41] 2023-02-23

[21] **3,128,581**
[13] A1
[51] **Int.Cl. G01F 23/30 (2006.01) G01F 23/72 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR SENSING A LEVEL OF A SURFACE OF A FLOWABLE MATERIAL**
[54] **DISPOSITIFS ET METHODES POUR DETECTER UN NIVEAU D'UNE SURFACE D'UN MATERIAU FLUIDE**
[72] KHAKSA, POURIA, IR
[71] KHAKSA, POURIA, IR
[22] 2021-08-25
[41] 2023-02-25

[21] **3,128,585**
[13] A1
[51] **Int.Cl. A63F 3/00 (2006.01)**
[25] EN
[54] **UNIVERSITY IN A BOX**
[54] **UNIVERSITY IN A BOX (UNIVERSITE DANS UNE BOITE)**
[72] BROWN, MARK, CA
[71] BROWN, MARK, CA
[22] 2021-08-19
[41] 2023-02-19

[21] **3,128,630**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COMPLETION OF AN AUTOMATED TASK SEQUENCE**
[54] **SYSTEME ET METHODE DE REALISATION D'UNE SEQUENCE DE TACHES AUTOMATISEE**
[72] ZHOU, YANQING, CA
[72] SCHMIDT-HANSEN, PIA, CA
[72] RODIL, MARY ANN OLMOS, CA
[72] PEREIRA, SASHA BERNADETTE, CA
[72] MOHEDDIN, SANAA ISHAK, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-08-19
[41] 2023-02-19

[21] **3,128,632**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING DATA TRANSFER RECOMMENDATIONS**
[54] **SYSTEME ET PROCEDE POUR GENERER DES RECOMMANDATIONS DE TRANSFERT DE DONNEES**
[72] PAWELKIEWICZ, TOMASZ, CA
[72] SRIVASTAVA, RACHIT, CA
[72] CHANNA, DALBIR, CA
[72] BELTIJEH, NIMA HABIBI, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-08-19
[41] 2023-02-19

[21] **3,128,667**
[13] A1
[51] **Int.Cl. E02B 15/06 (2006.01)**
[25] EN
[54] **BOTTOM BOOM BARRAGE INFERIEUR**
[72] SOKOLOWSKI, KENNY, US
[72] CARTER, DAVID, US
[71] SOKOLOWSKI, KENNY, US
[71] CARTER, DAVID, US
[22] 2021-08-20
[41] 2023-02-20

[21] **3,128,700**
[13] A1
[51] **Int.Cl. G08G 1/01 (2006.01) H04W 4/00 (2018.01) G08G 1/07 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **A PRACTICAL METHOD TO COLLECT AND MESURE REAL-TIME TRAFFIC DATA WITH HIGH ACCURACY THROUGH THE 5G NETWORK AND ACCESSING THESE DATA BY CLOUD COMPUTING**
[54] **METHODE PRATIQUE POUR RECUEILLIR ET MESURER EN TEMPS REEL DES DONNEES DE TRAFIC TRES PRECISEMENT AU MOYEN DU RESEAU 5G ET ACCES A CES DONNEES PAR INFONUAGIQUE**
[72] VAUDRIN, FRANCOIS, CA
[71] VAUDRIN, FRANCOIS, CA
[22] 2021-08-20
[41] 2023-02-20

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[21] **3,128,701**
[13] A1

[51] **Int.Cl. H02S 20/10 (2014.01) H02S 40/34 (2014.01) H02S 40/38 (2014.01)**
[25] EN
[54] **HIGH POWER VERTICAL MODULAR STRUCTURE APPARATUS SUPPORTING SOLAR PANELS**
[54] **APPAREIL DE STRUCTURE MODULAIRE VERTICALE HAUTE PUISSANCE SOUTENANT DES PANNEAUX SOLAIRES**
[72] DENIS, DANIEL, CA
[71] SOLIDEL CANADA INC., CA
[22] 2021-08-20
[41] 2023-02-20

[21] **3,128,708**
[13] A1

[51] **Int.Cl. G09F 21/04 (2006.01) B60Q 1/26 (2006.01) H02J 9/00 (2006.01)**
[25] EN
[54] **OUTDOOR ADVERTISING VAN WITH EMBEDDED ELECTRONIC DISPLAY PANELS**
[54] **CAMIONNETTE PUBLICITAIRE EXTERIEURE COMPRENANT DES PANNEAUX D'AFFICHAGE ELECTRONIQUES ENCASTRES**
[72] ZHANG, ZHE MENG, CA
[71] ZHANG, ZHE MENG, CA
[22] 2021-08-20
[41] 2023-02-20

[21] **3,128,710**
[13] A1

[51] **Int.Cl. A47B 51/00 (2006.01) A47B 46/00 (2006.01) B25H 3/00 (2006.01)**
[25] EN
[54] **MOTORIZED OVERHEAD STOWAGE SYSTEM**
[54] **SYSTEME DE RANGEMENT SUSPENDU MOTORISE**
[72] AGHAEI, JOHN, CA
[71] 2557408 ONTARIO LTD., CA
[22] 2021-08-20
[41] 2023-02-20

[21] **3,128,748**
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/31 (2013.01) G06F 21/62 (2013.01) G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTHENTICATING END USERS OF A WEB SERVICE**
[54] **SYSTEMES ET METHODES POUR AUTHENTIFIER LES UTILISATEURS FINAUX D'UN SERVICE WEB**
[72] DUNJIC, MILOS, CA
[72] TAX, DAVID SAMUEL, CA
[72] RASTOGI, KUSHANK, CA
[72] JOHEB, ASAD, CA
[72] BAST, LISA MARIE, CA
[72] LALKA, VIPUL KISHORE, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-08-23
[41] 2023-02-23

[21] **3,128,790**
[13] A1

[51] **Int.Cl. B65D 35/28 (2006.01) A45D 40/00 (2006.01)**
[25] EN
[54] **TUBE-PRESS**
[54] **TUBE-PRESS (PRESSE A TUBE)**
[72] ASMARO, SARMA, CA
[71] ASMARO, SARMA, CA
[22] 2021-08-23
[41] 2023-02-23

[21] **3,128,825**
[13] A1

[51] **Int.Cl. A63F 13/67 (2014.01) A63F 13/45 (2014.01) A63F 13/55 (2014.01) A63F 13/825 (2014.01)**
[25] EN
[54] **VIDEO GAME WITH COACHING SESSION**
[54] **JEU VIDEO AVEC SEANCE D'ENTRAINEMENT**
[72] COTE, CARLE, CA
[72] LOUCHE, UGO, CA
[72] MARTEL, ERIC, CA
[72] TRACHEL, ROMAIN, CA
[71] SQUARE ENIX LTD., GB
[22] 2021-08-23
[41] 2023-02-23

[21] **3,128,830**
[13] A1

[51] **Int.Cl. G08G 1/0955 (2006.01) B60Q 1/26 (2006.01) B60Q 1/50 (2006.01) G08B 5/36 (2006.01) G08B 5/38 (2006.01)**
[25] EN
[54] **WARNING SYSTEM FOR ROADSIDE OPERATIONS**
[54] **SYSTEME D'AVERTISSEMENT POUR OPERATIONS EN BORD DE ROUTE**
[72] OLSON, BRIAN R., CA
[72] BATKE, THERESA, CA
[71] OLSON, BRIAN R., CA
[71] BATKE, THERESA, CA
[22] 2021-08-24
[41] 2023-02-24

[21] **3,128,842**
[13] A1

[51] **Int.Cl. F24D 19/00 (2006.01) F24C 15/22 (2006.01) F24D 15/02 (2006.01)**
[25] EN
[54] **HEAT SHIELD**
[54] **BOUCLIER THERMIQUE**
[72] DADOYAN, DAVID, US
[71] DADOYAN, DAVID, US
[22] 2021-08-24
[41] 2023-02-24

[21] **3,128,847**
[13] A1

[51] **Int.Cl. C12N 15/29 (2006.01) A01H 6/82 (2018.01) C12Q 1/6895 (2018.01) A01H 1/00 (2006.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) C12N 5/04 (2006.01) C12N 15/00 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TOMATO PLANTS WITH IMPROVED DISEASE RESISTANCE**
[54] **PLANTES DE TOMATES A RESISTANCE AMELIOREE AUX MALADIES**
[72] ALLERSMA, ANTON P., US
[72] DROST, DEREK R., US
[72] FRANTZ, JAMES D., US
[72] GALLEGOS, LAURA, US
[72] GARCIA ANDRES, SUSANA M., US
[72] GRAHAM, ELAINE, US
[72] PEDRONI, STEPHANIE, US
[72] SALLERES NEIRA, MARIA B., US
[71] SEMINIS VEGETABLE SEEDS, INC., US
[22] 2021-08-25
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[21] **3,128,873**
[13] A1

[51] **Int.Cl. G06N 10/80 (2022.01)**
[25] EN
[54] **PROVIDING AN AGGREGATOR QUANTUM OR SIMULATED QUANTUM APPLICATION STORE**
[54] **FOURNITURE D'UN MAGASIN D'APPLICATIONS QUANTIQUE OU QUANTIQUE SIMULE AVEC AGREGATEUR**
[72] RAMAKRISHNAN, VISWESWARAN, CA
[71] RAMAKRISHNAN, VISWESWARAN, CA
[22] 2021-08-24
[41] 2023-02-24

[21] **3,128,874**
[13] A1

[51] **Int.Cl. A63B 21/04 (2006.01)**
[25] EN
[54] **DAN MURRAY, 604 GALEMO RD. CAMPBELL RIVER BC HITCH TRAINER CO INVENTOR - RAY MURRAY 755 GEMSBOK DR. CAMPBELL RIVER BC**
[54] **DAN MURRAY, 604, ROUTE GALEMO, CAMPBELL RIVER, C.-B., DISPOSITIF D'ENTRAINEMENT SUR ATTACHE DE REMORQUAGE, COINVENTEUR - RAY MURRAY, 755, ROUTE GEMSBOK, CAMPBELL RIVER, C.-B.**
[72] MURRAY, DAN, CA
[72] MURRAY, RAY, CA
[71] MURRAY, DAN, CA
[71] MURRAY, RAY, CA
[22] 2021-08-24
[41] 2023-02-24

[21] **3,128,883**
[13] A1

[51] **Int.Cl. F16K 11/074 (2006.01) F16K 3/08 (2006.01) F16K 3/34 (2006.01)**
[25] EN
[54] **PRECISE CERAMIC CONTROL VALVE**
[54] **VANNE DE REGULATION CERAMIQUE PRECISE**
[72] CHANG, CHIA-PO, TW
[71] HAIN YO ENTERPRISES CO., LTD., TW
[22] 2021-08-25
[41] 2023-02-25

[21] **3,128,959**
[13] A1

[51] **Int.Cl. A63B 53/04 (2015.01) A63B 69/36 (2006.01)**
[25] EN
[54] **PURE PUTTING**
[54] **PURE PUTTING**
[72] BAUER, RALPH, CA
[71] BAUER, RALPH, CA
[22] 2021-08-25
[41] 2023-02-25

[21] **3,129,093**
[13] A1

[51] **Int.Cl. F02C 6/00 (2006.01) B64D 27/10 (2006.01) F01D 15/00 (2006.01) F02K 3/04 (2006.01)**
[25] FR
[54] **TURBOREACTIVE ENGINE: LATEST DETAILS**
[54] **MOTEUR TURBOREACTIF : DERNIERES PRECISIONS**
[72] BEAUDOIN, NORMAND, CA
[71] BEAUDOIN, NORMAND, CA
[22] 2021-08-25
[41] 2023-02-25

[21] **3,129,291**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING ARCHITECTURE WITH A MEMORY MANAGEMENT MODULE**
[54] **SYSTEME ET METHODE POUR L'ARCHITECTURE D'APPRENTISSAGE AUTOMATIQUE AVEC MODULE DE GESTION DE MEMOIRE**
[72] BURHANI, HASHAM, CA
[72] SHI, XIAO QI, CA
[72] JAMALI, KIARASH, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-30
[41] 2023-02-25
[30] US (17/411,666) 2021-08-25

[21] **3,129,295**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR REINFORCEMENT LEARNING WITH LOCAL STATE AND REWARD DATA**
[54] **SYSTEMES ET METHODES D'APPRENTISSAGE PAR RENFORCEMENT A L'AIDE DE DONNEES SUR L'ETAT LOCAL ET LES RECOMPENSES**
[72] BURHANI, HASHAM, CA
[72] SHI, XIAO QI, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-30
[41] 2023-02-25
[30] US (17/411,636) 2021-08-25

[21] **3,129,303**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/50 (2019.01) G06F 16/70 (2019.01) H04N 21/278 (2011.01)**
[25] EN
[54] **GRAPHIC ADVERTISEMENT CREATION PROCESS**
[54] **PROCEDE DE CREATION DE PUBLICITE GRAPHIQUE**
[72] ELLIS, GUILLAUME, CA
[71] ELLIS, GUILLAUME, CA
[22] 2021-08-30
[41] 2023-02-21
[30] US (17/445,597) 2021-08-21

[21] **3,130,968**
[13] A1

[51] **Int.Cl. G06F 16/90 (2019.01)**
[25] EN
[54] **PARTIAL PASS-THROUGH DATA TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE DONNEES PASSERELLE PARTIEL**
[72] DUNJIC, MILOS, CA
[72] TAX, DAVID SAMUEL, CA
[72] PRENDERGAST, JONATHAN JOSEPH, CA
[72] RASTOGI, KUSHANK, CA
[72] LALKA, VIPUL KISHORE, CA
[72] JOHEB, ASAD, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-09-16
[41] 2023-02-24
[30] US (17/410,061) 2021-08-24

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[21] **3,133,324**
[13] A1

[51] **Int.Cl. A23L 5/20 (2016.01) A23L 27/00 (2016.01) A23L 33/105 (2016.01) B01D 11/02 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR DEFLAVORING, FLAVORING, AND REFLAVORING CANNABIS PLANT MATTER**

[54] **METHODES ET DISPOSITIFS POUR DESAROMATISER, AROMATISER REAROMATISER DES MATIERES VEGETALES DE CANNABIS**

[72] DANZER, JEFFREY ALAN, US
[71] FLOAT TECHNOLOGIES LLC, US
[22] 2021-10-05
[41] 2023-02-20
[30] US (17/407,254) 2021-08-20

[21] **3,133,510**
[13] A1

[51] **Int.Cl. A61B 90/60 (2016.01) A61C 19/00 (2006.01) B65G 9/00 (2006.01) B66F 11/00 (2006.01)**

[25] EN

[54] **SHOULDER WEIGHT RELIEVING DEVICE**

[54] **DISPOSITIF DE SOULAGEMENT DU POIDS SUR LES EPAULES**

[72] BRUNET, PHILIPPE, CA
[71] BRUNET, PHILIPPE, CA
[22] 2021-08-19
[41] 2023-02-19

[21] **3,135,461**
[13] A1

[51] **Int.Cl. E01F 9/20 (2016.01) E01F 9/615 (2016.01) F21S 43/00 (2018.01) B60R 21/34 (2011.01) E01F 9/00 (2016.01)**

[25] EN

[54] **WARNING SYSTEM FOR ROADSIDE OPERATIONS**

[54] **SYSTEME D'AVERTISSEMENT POUR OPERATIONS EN BORD DE ROUTE**

[72] OLSON, BRIAN R., CA
[72] BATKE, THERESA, CA
[71] OLSON, BRIAN R., CA
[71] BATKE, THERESA, CA
[22] 2021-10-20
[41] 2023-02-24
[30] CA (3,128,830) 2021-08-24

[21] **3,137,195**
[13] A1

[51] **Int.Cl. E21B 47/10 (2012.01) E21B 34/08 (2006.01) E21B 43/12 (2006.01) E21B 43/26 (2006.01) E21B 47/06 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING FRACTURING OPERATIONS USING MONITOR WELL FLOW**

[54] **SYSTEMES ET METHODES DE SURVEILLANCE D'OPERATIONS DE FRACTURATION AU MOYEN DE LA SURVEILLANCE DU FLUX DE Puits**

[72] HAUSTVEIT, KYLE L., US
[72] GREEN, BRETT J., US
[71] DEVON ENERGY CORPORATION, US
[22] 2021-11-01
[41] 2023-02-19
[30] US (17/406,938) 2021-08-19

[21] **3,138,442**
[13] A1

[51] **Int.Cl. G01S 19/13 (2010.01) G06F 3/16 (2006.01) H04W 4/021 (2018.01) G06F 16/953 (2019.01) G06N 20/00 (2019.01) H04M 3/493 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INTERACTIVE BUSINESS PROMOTION BASED ON ARTIFICIAL INTELLIGENCE**

[54] **SYSTEME ET METHODE DE PROMOTION D'ENTREPRISE INTERACTIVE FONDEE SUR L'INTELLIGENCE ARTIFICIELLE**

[72] BYRD, STEPHEN MADISON, US
[71] BYRD, STEPHEN MADISON, US
[22] 2021-11-10
[41] 2023-02-23
[30] US (17408858) 2021-08-23

[21] **3,141,101**
[13] A1

[51] **Int.Cl. C25D 1/00 (2006.01)**

[25] EN

[54] **ELECTROFORMING SYSTEM AND METHOD**

[54] **SYSTEME ET METHODE D'ELECTROFORMAGE**

[72] WADHAVKAR, ASHWINI SAMEER, US
[72] JONNALAGADDA, DATTU GURU VENKATA, US
[72] RAJENDRAN, RAJAPRIYAN, US
[72] TAJIRI, GORDON, US
[72] PAMIDIMARRI, UDAYA BHASKAR, US
[71] UNISON INDUSTRIES, LLC, US
[22] 2021-12-06
[41] 2023-02-23
[30] IN (202111038059) 2021-08-23

[21] **3,141,102**
[13] A1

[51] **Int.Cl. A47J 47/06 (2006.01) A47G 19/30 (2006.01) A47J 47/02 (2006.01) B65D 1/22 (2006.01) B65D 21/08 (2006.01) B65D 39/16 (2006.01)**

[25] EN

[54] **CONTAINER**

[54] **CONTENANT**

[72] LY, HOA, US
[72] LY, NGAN, US
[71] LY, HOA, US
[71] LY, NGAN, US
[22] 2021-12-06
[41] 2023-02-22
[30] US (63/260,490) 2021-08-22
[30] US (17/532,933) 2021-11-22

[21] **3,143,926**
[13] A1

[51] **Int.Cl. C03B 27/012 (2006.01) C03B 23/023 (2006.01) C03B 27/02 (2006.01) C03B 27/04 (2006.01)**

[25] EN

[54] **THERMOPHYSICAL PROCESS FOR THE HEAT TREATMENT OF GLASS**

[54] **PROCEDE THERMOPHYSIQUE POUR LE TRAITEMENT THERMIQUE DU VERRE**

[72] MASTEN, JAMES WILLIAM, US
[71] MASTEN, JAMES WILLIAM, US
[22] 2021-12-23
[41] 2023-02-19
[30] US (17/407098) 2021-08-19

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[21] **3,148,907**
[13] A1

[51] **Int.Cl. F03G 3/00 (2006.01) F03G 7/10 (2006.01)**
[25] EN
[54] **REVERSE DIRECTIONAL THRUST DEVICE BY BIDIRECTIONAL TRANSLATIVE MOVEMENT**
[54] **DISPOSITIF DE POUSSEE INVERSE PAR UN MOUVEMENT BIDIRECTIONNEL**
[72] HICHAM, TAOUFIK, MA
[71] HICHAM, TAOUFIK, MA
[22] 2022-02-15
[41] 2023-02-24
[30] MA (54024) 2021-08-24

[21] **3,159,299**
[13] A1

[51] **Int.Cl. H04L 47/125 (2022.01) H04L 43/0876 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SERVER LOAD BALANCING**
[54] **SYSTEMES ET METHODES POUR EQUILIBRER LES CHARGES SUR LE SERVEUR**
[72] TANG, KATHRYN, CA
[71] SHOPIFY INC., CA
[22] 2022-05-18
[41] 2023-02-23
[30] US (17/408,644) 2021-08-23
[30] EP (22169543.0) 2022-04-22

[21] **3,160,024**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR MODIFYING ONLINE STORES**
[54] **SYSTEMES ET METHODES POUR MODIFIER DES MAGASINS EN LIGNE**
[72] TANG, KATHRYN, CA
[71] SHOPIFY INC., CA
[22] 2022-05-24
[41] 2023-02-23
[30] US (17/408,673) 2021-08-23

[21] **3,160,036**
[13] A1

[51] **Int.Cl. H04L 47/125 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SERVER LOAD BALANCING BASED ON CORRELATED EVENTS**
[54] **SYSTEMES ET METHODES POUR EQUILIBRER LES CHARGES SUR LE SERVEUR EN FONCTION D'EVENEMENTS CORRELES**
[72] LIANG, XIAOLI, CA
[72] TANG, KATHRYN, CA
[72] CLARKE, GREGORY, CA
[72] SRECKOVIC, MILAN, CA
[72] KOHLI, KUNAL, CA
[71] SHOPIFY INC., CA
[22] 2022-05-24
[41] 2023-02-23
[30] US (17/408,777) 2021-08-23

[21] **3,166,209**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 15/113 (2010.01) A01H 6/28 (2018.01) A01H 1/00 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) C12N 15/04 (2006.01) C12N 15/10 (2006.01) C12N 15/29 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS FOR INCREASING POWDERY MILDEW RESISTANCE IN CANNABIS**
[54] **METHODES POUR ACCROITRE LA RESISTANCE DU CANNABIS A L'OIDIUM DE LA VIGNE**
[72] SHERMAN, TAL, IL
[72] MARGALIT, IDO, IL
[72] COREM, SHIRA, IL
[71] BETTERSEEDS LTD., IL
[22] 2022-06-30
[41] 2023-02-19
[30] US (63260405) 2021-08-19

[21] **3,167,229**
[13] A1

[51] **Int.Cl. A62B 25/00 (2006.01) B64D 11/00 (2006.01) B64D 13/00 (2006.01) B64D 25/00 (2006.01)**
[25] EN
[54] **MOVABLE OXYGEN CONTAINER, AND MONUMENT, PASSENGER VEHICLE SECTION AND VEHICLE HAVING THE SAME**
[54] **CONTENANT A OXYGENE MOBILE ET BORNE, SECTION DE VEHICULE PASSAGER ET VEHICULE LES COMPRENANT**
[72] KIRCHER, BENEDIKT, DE
[72] HERINGSLACK, MATTHIAS, DE
[71] AIRBUS OPERATIONS GMBH, DE
[22] 2022-07-14
[41] 2023-02-24
[30] EP (21192779.3) 2021-08-24

[21] **3,167,316**
[13] A1

[51] **Int.Cl. B60L 58/27 (2019.01)**
[25] EN
[54] **BATTERY CHARGING SYSTEM AND METHOD FOR ELECTRIC VEHICLE**
[54] **SYSTEME DE RECHARGE DE BATTERIE ET METHODE POUR VEHICULE ELECTRIQUE**
[72] BERNATCHEZ, GABRIEL, CA
[72] BRUNEAU, SAMUEL, CA
[72] GAGNON, MARC-OLIVIER, CA
[72] BOUDREAU, JESSIE, CA
[72] GANGAVARAPU, SIVANAGARAJU, CA
[71] TAIGA MOTORS INC., CA
[22] 2022-07-11
[41] 2023-02-24
[30] US (63/236,306) 2021-08-24

[21] **3,167,428**
[13] A1

[25] EN
[54] **ELECTRICAL CONNECTOR ASSEMBLY**
[54] **ENSEMBLE CONNECTEUR ELECTRIQUE**
[72] YEN, PEI-SHU, TW
[72] LO, PING-CHUNG, TW
[72] TSAO, WEI-CHUN, TW
[71] PEGATRON CORPORATION, TW
[22] 2022-07-12
[41] 2023-02-23
[30] TW (110130979) 2021-08-23

[21] **3,167,726**
[13] A1

[51] **Int.Cl. A62B 25/00 (2006.01) B64D 11/00 (2006.01) B64D 13/00 (2006.01) B64D 25/00 (2006.01)**
[25] EN
[54] **MOVABLE OXYGEN CONTAINER, AND MONUMENT, PASSENGER VEHICLE SECTION AND VEHICLE HAVING THE SAME**
[54] **CONTENANT A OXYGENE MOBILE ET BORNE, SECTION DE VEHICULE PASSAGER ET VEHICULE LES COMPRENANT**
[72] KIRCHER, BENEDIKT, DE
[72] HERINGSLACK, MATTHIAS, DE
[71] AIRBUS OPERATIONS GMBH, DE
[22] 2022-07-14
[41] 2023-02-24
[30] EP (21192779.3) 2021-08-24

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[21] **3,169,088**
[13] A1

[51] **Int.Cl. G01J 3/45 (2006.01) G01N 21/27 (2006.01)**
[25] EN
[54] **SPECTROGRAPHIC SYSTEM THAT COMPRESSES FOURIER TRANSFORM SPECTRAL DATA AND ASSOCIATED METHODS**
[54] **SYSTEME SPECTROGRAPHIQUE COMPRIMANT LES DONNEES SPECTRALES DE TRANSFORMEE DE FOURIER ET METHODES CONNEXES**
[72] FORKERT, RICHARD D., US
[71] EAGLE TECHNOLOGY LLC, US
[22] 2022-07-25
[41] 2023-02-20
[30] US (17/445,500) 2021-08-20

[21] **3,169,190**
[13] A1

[51] **Int.Cl. H01B 17/00 (2006.01) A01G 23/00 (2006.01) B66C 23/64 (2006.01) E02F 3/38 (2006.01) H01B 19/00 (2006.01)**
[25] EN
[54] **ARTICULATED BOOM, MACHINE, METHOD FOR MANUFACTURING A CONNECTING PIECE FOR AN ARTICULATED BOOM AND USE OF AN ARTICULATED BOOM**
[54] **BRAS ARTICULE, MACHINE, METHODE DE FABRICATION D'UNE PIECE DE CONNEXION POUR UN BRAS ARTICULE ET UTILISATION D'UN BRAS ARTICULE**
[72] SENNEBOGEN, ERICH, DE
[71] SENNEBOGEN MASCHINENFABRIK GMBH, DE
[22] 2022-07-25
[41] 2023-02-24
[30] US (17/410,738) 2021-08-24

[21] **3,169,425**
[13] A1

[51] **Int.Cl. H04W 84/20 (2009.01)**
[25] FR
[54] **METHOD FOR MANAGING A CONTROLLER FUNCTION BY USING A ROUTER**
[54] **PROCEDE DE GESTION D'UNE FONCTION CONTROLEUR PAR UN EQUIPEMENT D'UN RESEAU D'ACHEMINEMENT**
[72] LE ROUX, SYLVAIN, FR
[71] SAGEMCOM BROADBAND SAS, FR
[22] 2022-08-03
[41] 2023-02-23
[30] FR (FR2108832) 2021-08-23

[21] **3,169,547**
[13] A1

[51] **Int.Cl. G01N 33/46 (2006.01) G01N 21/47 (2006.01)**
[25] EN
[54] **METHOD FOR IDENTIFYING A LOG OF ORIGIN OF A FIRST BOARD**
[54] **METHODE POUR DETERMINER UN REGISTRE D'ORIGINE D'UN PREMIER TABLEAU**
[72] VICARIO, ENRICO, IT
[72] CONFORTO, NICOLA, IT
[72] URSELLA, ENRICO, IT
[71] MICROTEC S.R.L., IT
[22] 2022-08-04
[41] 2023-02-24
[30] IT (102021000022256) 2021-08-24

[21] **3,169,927**
[13] A1

[51] **Int.Cl. F23R 3/36 (2006.01) B64D 31/00 (2006.01) B64D 37/30 (2006.01) F02C 7/22 (2006.01) F02C 9/26 (2006.01) F02C 9/40 (2006.01)**
[25] EN
[54] **GASEOUS FUEL LEAKAGE FROM FUEL SYSTEM MANIFOLD TO ENGINE**
[54] **FUITE DE CARBURANT GAZEUX DU COLLECTEUR DU CIRCUIT DE CARBURANT AU MOTEUR**
[72] DILLON, THOMAS, CA
[72] MILLER, TODD, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-11
[41] 2023-02-19
[30] US (17/406,595) 2021-08-19

[21] **3,169,932**
[13] A1

[51] **Int.Cl. G01L 25/00 (2006.01) B64D 31/00 (2006.01) B64D 45/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPERATING AN AIRCRAFT HAVING A TURBOPROP ENGINE**
[54] **METHODE ET SYSTEME D'EXPLOITATION D'UN AERONEF COMPRENANT UN TURBOPROPULSEUR**
[72] HUFF, ERIC, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-11
[41] 2023-02-19
[30] US (17/406,436) 2021-08-19

[21] **3,170,072**
[13] A1

[51] **Int.Cl. A01D 34/28 (2006.01) A01D 47/00 (2006.01)**
[25] EN
[54] **HEADER WITH FLEXIBLE CUTTER BAR ASSEMBLY**
[54] **TABLIER COMPRENANT UN ASSEMBLAGE DE BARRE DE COUPE SOUPLE**
[72] GARBALD, JANN, CA
[71] MACDON INDUSTRIES LTD., CA
[22] 2022-08-10
[41] 2023-02-19
[30] US (17/406,932) 2021-08-19

[21] **3,170,298**
[13] A1

[51] **Int.Cl. B05B 7/24 (2006.01) B05B 3/02 (2006.01) B05B 12/00 (2018.01)**
[25] EN
[54] **COATING DEVICE**
[54] **DISPOSITIF DE REVETEMENT**
[72] SCHEERER, MARCEL, DE
[72] HOFFER, MICHAEL, DE
[71] ROBERT BURKLE GMBH, DE
[22] 2022-08-10
[41] 2023-02-19
[30] DE (102021121591.9) 2021-08-19

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[21] **3,170,376**
[13] A1

[51] **Int.Cl. A01B 49/06 (2006.01) A01C 5/06 (2006.01)**
[25] EN
[54] **PLOUGH ASSEMBLY**
[54] **ASSEMBLAGE DE CHARRUE**
[72] RYAN, JOHN WILLIAM, AU
[71] AUSPLOW PTY. LTD., AU
[22] 2022-08-15
[41] 2023-02-24
[30] AU (AU2021221492) 2021-08-24

[21] **3,170,405**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR OPERATING A HYBRID POWER SYSTEM BY COMBINING PROSPECTIVE AND REAL-TIME OPTIMIZATIONS**
[54] **SYSTEMES ET METHODES D'EXPLOITATION D'UN SYSTEME D'ALIMENTATION HYBRIDE EN COMBINANT DES HYBRIDATIONS PROSPECTIVES ET EN TEMPS REEL**
[72] REDDY, SURESH BADDAM, US
[72] PRATHAPANENI, DIMPLE RAJA, IN
[71] CATERPILLAR, INC., US
[22] 2022-08-15
[41] 2023-02-19
[30] US (17/406,486) 2021-08-19

[21] **3,170,430**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR CONSTRAINED OPTIMIZATION OF A HYBRID POWER SYSTEM THAT ACCOUNTS FOR ASSET MAINTENANCE AND DEGRADATION**
[54] **SYSTEMES ET METHODES POUR L'OPTIMISATION CONTENUE D'UN SYSTEME D'ALIMENTATION HYBRIDE COMPRENANT L'ENTRETIEN ET LA DEGRADATION DES BIENS**
[72] REDDY, SURESH BADDAM, US
[72] PRATHAPANENI, DIMPLE RAJA, IN
[71] CATERPILLAR, INC., US
[22] 2022-08-15
[41] 2023-02-19
[30] US (17/406,687) 2021-08-19

[21] **3,170,483**
[13] A1

[51] **Int.Cl. A61B 5/22 (2006.01) G16H 50/20 (2018.01) A61B 5/11 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **SYSTEMS, APPARATUS, AND METHODS FOR MUSCULOSKELETAL ERGONOMIC IMPROVEMENT**
[54] **SYSTEMES, APPAREIL ET METHODES POUR UNE AMELIORATION D'ERGONOMIE MUSCULOSQUELETTIQUE**
[72] LAUGHLIN, BRIAN D., US
[72] GEORGESON, GARY E., US
[71] THE BOEING COMPANY, US
[22] 2022-08-15
[41] 2023-02-25
[30] US (17/412,038) 2021-08-25

[21] **3,170,486**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) G16H 20/30 (2018.01) G06N 3/02 (2006.01)**
[25] EN
[54] **EXTENDED REALITY SYSTEMS, APPARATUS, AND METHODS FOR MUSCULOSKELETAL ERGONOMIC IMPROVEMENT**
[54] **SYSTEMES DE REALITE ETENDUE, APPAREIL ET METHODES POUR UNE AMELIORATION D'ERGONOMIE MUSCULOSQUELETTIQUE**
[72] LAUGHLIN, BRIAN D., US
[72] GEORGESON, GARY E., US
[71] THE BOEING COMPANY, US
[22] 2022-08-15
[41] 2023-02-25
[30] US (17/412,049) 2021-08-25

[21] **3,170,540**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/62 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR CARBON CAPTURE**
[54] **METHODES ET COMPOSITIONS POUR LA CAPTURE DE CARBONE**
[72] IDEM, RAPHAEL, CA
[72] SUPAP, TEERADET, CA
[72] NARKU-TETTEH, JESSICA, CA
[72] MUCHAN, PAILIN, CA
[72] NATEWONG, PAWEESUDA, CA
[71] ENTROPY INC., CA
[22] 2022-08-17
[41] 2023-02-22
[30] US (63/235,802) 2021-08-22

[21] **3,170,558**
[13] A1

[51] **Int.Cl. F01D 25/04 (2006.01) F01D 21/04 (2006.01) F01D 25/16 (2006.01)**
[25] EN
[54] **DEFORMABLE BUMPER FOR A ROTATING STRUCTURE OF A TURBINE ENGINE**
[54] **PARE-CHOCS DEFORMABLE POUR UNE STRUCTURE ROTATIVE D'UN MOTEUR A TURBINE**
[72] CAULFIELD, STEPHEN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-16
[41] 2023-02-19
[30] US (17/406,472) 2021-08-19

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[21] **3,170,614**
[13] A1

[51] **Int.Cl. G06F 40/279 (2020.01) G06N 20/00 (2019.01)**
[25] EN
[54] **COMMENTATING USER IDENTIFICATION RECOGNIZING METHOD, DEVICE, COMPUTER EQUIPMENT, AND STORAGE MEDIUM**
[54] **METHODE DE RECONNAISSANCE D'IDENTIFICATION D'UTILISATEUR COMMENTEE, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] WANG, JIXUAN, CN
[72] GU, YANG, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-08-17
[41] 2023-02-20
[30] CN (202110963292.9) 2021-08-20

[21] **3,170,618**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 7/00 (2006.01)**
[25] EN
[54] **DATA PROCESSING METHOD AND DEVICE**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE DONNEES**
[72] SUN, HUAWEI, CN
[72] LIU, PEIBIN, CN
[72] LI, JIAQING, CN
[72] LI, XUYUE, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-08-17
[41] 2023-02-23
[30] CN (202110971622.9) 2021-08-23

[21] **3,170,622**
[13] A1

[51] **Int.Cl. G06F 40/40 (2020.01) G06F 40/35 (2020.01)**
[25] EN
[54] **METHOD OF INTELLIGENTLY PROCESSING Q&A ABNORMALITY, DEVICE AND ELECTRONIC EQUIPMENT**
[54] **METHODE DE TRAITEMENT INTELLIGENT DES ANOMALIES DES QUESTIONS ET REPONSES, DISPOSITIF ET MATERIEL ELECTRONIQUE**
[72] CHEN, CHAO, CN
[72] YANG, MENG YING, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-08-17
[41] 2023-02-25
[30] CN (202110985077.9) 2021-08-25

[21] **3,170,721**
[13] A1

[51] **Int.Cl. B65H 37/00 (2006.01) C09J 7/30 (2018.01) C09J 7/32 (2018.01) B65H 35/07 (2006.01)**
[25] EN
[54] **TAPE DISPENSER**
[54] **DISTRIBUTEUR DE RUBAN**
[72] CLARKE, MARCUS, GB
[71] GRIP SYSTEMS LIMITED, GB
[22] 2022-08-17
[41] 2023-02-19
[30] GB (2111927.6) 2021-08-19

[21] **3,170,726**
[13] A1

[51] **Int.Cl. A44B 11/00 (2006.01)**
[25] EN
[54] **BUCKLE DEVICE CAPABLE OF DISPLAYING LOCKED STATE**
[54] **DISPOSITIF DE BOUCLE CAPABLE D'AFFICHER UN ETAT VERROUILLE**
[72] CHIU, SHIH-KUANG, TW
[72] YEH, CHIA-WEI, TW
[72] CHEN, JUEI-TSUNG, TW
[71] BROGENT TECHNOLOGIES INC., TW
[22] 2022-08-18
[41] 2023-02-19
[30] TW (110130748) 2021-08-19

[21] **3,170,728**
[13] A1

[51] **Int.Cl. E04B 9/00 (2006.01)**
[25] EN
[54] **CEILING BAFFLE ATTACHMENT STRUCTURE AND CEILING SYSTEM**
[54] **STRUCTURE DE FIXATION DE CHICANE DE PLAFOND ET SYSTEME DE PLAFOND**
[72] BAILEY, DAVID A., US
[72] MAGIN, MICHAEL, US
[71] CERTAINTEED CEILINGS CORPORATION, US
[22] 2022-08-18
[41] 2023-02-20
[30] US (63/235,517) 2021-08-20

[21] **3,170,744**
[13] A1

[51] **Int.Cl. F24H 9/13 (2022.01) F16L 5/00 (2006.01) F24H 4/04 (2006.01)**
[25] EN
[54] **FLEXIBLE CONNECTORS FOR WATER HEATER**
[54] **RACCORDES FLEXIBLES POUR CHAUFFE-EAU**
[72] MURPHY, MARK, US
[71] A. O. SMITH CORPORATION, US
[22] 2022-08-18
[41] 2023-02-19
[30] US (63/234,758) 2021-08-19

[21] **3,170,754**
[13] A1

[51] **Int.Cl. B64F 5/60 (2017.01) B64D 33/00 (2006.01) F01D 17/02 (2006.01) F01D 25/02 (2006.01)**
[25] EN
[54] **PRESSURE MEASUREMENT SYSTEM AND METHOD FOR OPERATING SAME**
[54] **SYSTEME DE MESURE DE PRESSION ET PROCEDE POUR SON FONCTIONNEMENT**
[72] REMY, PATRICE, CA
[72] DOUCET, FREDERIC, CA
[72] BISSONNETTE, CHRISTIAN, CA
[72] ARCHAMBAULT, LUC, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-17
[41] 2023-02-20
[30] US (17/407,580) 2021-08-20

Demandes canadiennes mises à la disponibilité du public
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[21] **3,170,756**
[13] A1

[51] **Int.Cl. F02C 7/06 (2006.01) B01D 35/02 (2006.01) F01D 25/16 (2006.01) F01D 25/18 (2006.01) F01M 11/03 (2006.01)**

[25] EN
[54] **LUBRICANT FILTER FOR A TURBINE ENGINE**
[54] **FILTRE A LUBRIFIANT POUR UN MOTEUR A TURBINE**

[72] MARTIN, BRUNO, CA
[72] DESJARDINS, MICHEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-08-17
[41] 2023-02-20
[30] US (17/407,991) 2021-08-20

[21] **3,170,760**
[13] A1

[51] **Int.Cl. F04D 29/66 (2006.01) F01D 9/02 (2006.01) F01D 25/04 (2006.01) F04D 29/44 (2006.01)**

[25] EN
[54] **IMPELLER SHROUD FREQUENCY TUNING RIB**
[54] **NERVURE D'ACCORD DE FREQUENCE DE CARENAGE DE ROTOR**

[72] HOULE, NICOLA, CA
[72] CHOW, BERNARD, CA
[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-08-17
[41] 2023-02-20
[30] US (17/407,277) 2021-08-20

[21] **3,170,765**
[13] A1

[51] **Int.Cl. C09J 7/21 (2018.01) C09J 7/38 (2018.01)**

[25] EN
[54] **POST CONSUMER WASTE THERMAL FACE SHEET**
[54] **FEUILLE AVANT THERMIQUE DE DECHETS DE PAPIER DE CONSOMMATION**

[72] TOMLINSON, BRIAN, CA
[71] LABELCRAFT PRODUCTS LTD., CA

[22] 2022-08-19
[41] 2023-02-25
[30] US (63/236,760) 2021-08-25

[21] **3,170,770**
[13] A1

[51] **Int.Cl. B60P 3/22 (2006.01) B60R 16/03 (2006.01) B60R 16/033 (2006.01)**

[25] EN
[54] **VEHICLE-MOUNTED POWER SUPPLY SYSTEM AND CORRESPONDING METHOD**
[54] **SYSTEME D'ALIMENTATION INSTALLE SUR VEHICULE ET METHODE CORRESPONDANTE**

[72] BOUCHER, PATRICK, CA
[72] FOURNEL VEZINA, DANNY, CA
[72] MATHURIN, JEAN-FRANCOIS, CA
[71] BEL-O TRANSPORTS INC., CA

[22] 2022-08-19
[41] 2023-02-20
[30] US (US 63/260,449) 2021-08-20

[21] **3,170,775**
[13] A1

[25] EN
[54] **RETAIL METHODS AND SYSTEMS**
[54] **METHODES ET SYSTEMES DE DETAIL**

[72] VEILLEUX, MICHEL, CA
[71] VEILLEUX, MICHEL, CA

[22] 2022-08-19
[41] 2023-02-19
[30] US (63/234,897) 2021-08-19

[21] **3,170,793**
[13] A1

[51] **Int.Cl. C10L 1/233 (2006.01) C07C 215/66 (2006.01) C07D 265/14 (2006.01) C07D 265/18 (2006.01) C10L 1/222 (2006.01)**

[25] EN
[54] **MANNICH-BASED QUATERNARY AMMONIUM SALT FUEL ADDITIVES**
[54] **ADDITIFS DE CARBURANT FAITS DE SEL D'AMMONIUM QUATERNAIRE A BASE DE MANNICH**

[72] SCHWAB, SCOTT D., US
[72] VADEHRA, GEETA, US
[72] NUCKOLS, MICHEL, US
[71] AFTON CHEMICAL CORPORATION, US

[22] 2022-08-19
[41] 2023-02-25
[30] US (17/445932) 2021-08-25

[21] **3,170,794**
[13] A1

[51] **Int.Cl. C10L 1/233 (2006.01) C07C 215/66 (2006.01) C07D 265/14 (2006.01) C07D 265/18 (2006.01) C10L 1/222 (2006.01)**

[25] EN
[54] **MANNICH-BASED QUATERNARY AMMONIUM SALT FUEL ADDITIVES**
[54] **ADDITIFS DE CARBURANT FAITS DE SEL D'AMMONIUM QUATERNAIRE A BASE DE MANNICH**

[72] SCHWAB, SCOTT D., US
[72] VADEHRA, GEETA, US
[72] NUCKOLS, MICHEL, US
[71] AFTON CHEMICAL CORPORATION, US

[22] 2022-08-19
[41] 2023-02-25
[30] US (17/445926) 2021-08-25

[21] **3,170,797**
[13] A1

[51] **Int.Cl. B65D 43/02 (2006.01) A47J 47/02 (2006.01) B65D 1/10 (2006.01)**

[25] EN
[54] **CANISTER APPARATUS**
[54] **APPAREIL DE CARTOUCHE**

[72] LEE, PATRICK, US
[71] ALCHEMY JARS LLC, US

[22] 2022-08-19
[41] 2023-02-19
[30] US (63/235,094) 2021-08-19

[21] **3,170,801**
[13] A1

[25] EN
[54] **BATTERY CELL BALANCING CIRCUIT SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE CIRCUIT D'EQUILIBRAGE D'ELEMENT DE BATTERIE**

[72] GOURARI, ALEXANDRE, CA
[72] WOJTKOWICZ, JOHN, CA
[72] STUBBS, DAVID, CA
[71] NEUTRON AUTOMOTIVE CONTROLS INC., CA

[22] 2022-08-18
[41] 2023-02-19
[30] US (63/234,920) 2021-08-19

**Canadian Applications Open to Public Inspection
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[21] **3,170,816**

[13] A1

- [51] **Int.Cl. A47G 7/06 (2006.01) A47G 33/00 (2006.01) E04H 13/00 (2006.01)**
 [25] EN
 [54] **CEMETERY VASE**
 [54] **VASE FUNERAIRE**
 [72] DELLINGER, LINDSEY, US
 [72] RICHARDSON, DONDI, US
 [72] OLSON, AMY STEIDL, US
 [72] ERWIN, ERIC, US
 [72] KINCAID, BRETT, US
 [71] FLORACRAFT CORPORATION, US
 [22] 2022-08-18
 [41] 2023-02-19
 [30] US (17/889,581) 2022-08-17
 [30] US (63/234,734) 2021-08-19

[21] **3,170,822**

[13] A1

- [51] **Int.Cl. E04H 4/00 (2006.01)**
 [25] EN
 [54] **SWIMMING POOL ALIGNMENT**
 [54] **ALIGNEMENT DE PISCINE**
 [72] PANDOLFO, JASON, AU
 [72] CROSS, ANTHONY, AU
 [71] MP HYDRO PTY LIMITED, AU
 [22] 2022-08-18
 [41] 2023-02-24
 [30] AU (2021221535) 2021-08-24

[21] **3,170,827**

[13] A1

- [51] **Int.Cl. E01D 19/02 (2006.01) E01D 19/14 (2006.01) E02D 27/50 (2006.01)**
 [25] EN
 [54] **FLARED REINFORCED PIER AND PIER BRACKET ASSEMBLY AND METHODS OF MANUFACTURING AND USE**
 [54] **QUAI EVASE RENFORCE ET ASSEMBLAGE DE SUPPORT DE QUAI ET METHODES DE FABRICATION ET D'UTILISATION**
 [72] GANTT, WILLIAM A., US
 [71] INDEPENDENCE MATERIALS GROUP, LLC, US
 [22] 2022-08-19
 [41] 2023-02-24
 [30] US (17/889,302) 2022-08-16
 [30] US (63/236,273) 2021-08-24

[21] **3,170,842**

[13] A1

- [51] **Int.Cl. C11B 3/10 (2006.01) A23D 9/00 (2006.01) A23D 9/007 (2006.01) C11B 1/08 (2006.01) C11B 1/10 (2006.01) C11B 3/00 (2006.01)**
 [25] EN
 [54] **HIGH-POLYPHENOL RAPESEED OIL AND PREPARATION METHOD THEREOF**
 [54] **HUILE DE COLZA HAUTE EN POLYPHENOL ET METHODE DE PREPARATION**
 [72] YAO, YINGZHENG, CN
 [72] LIANG, QIANG, CN
 [72] XIONG, WEI, CN
 [72] XUAN, PU, CN
 [72] XU XIA, CN
 [72] ZHAO, LING, US
 [72] LI, PU, CN
 [72] LI, YANLIN, CN
 [71] INSTITUTE OF AGRO-PRODUCTS PROCESSING SCIENCE AND TECHNOLOGY, SICHUAN ACADEMY OF AGRICULTURAL SCIENCES, CN
 [22] 2022-08-18
 [41] 2023-02-19
 [30] CN (202110952235.0) 2021-08-19

[21] **3,170,862**

[13] A1

- [51] **Int.Cl. H01M 8/04111 (2016.01) H01M 8/04791 (2016.01)**
 [25] EN
 [54] **SYSTEMS AND METHODS FOR VENTILATING A FUEL CELL ENCLOSURE**
 [54] **SYSTEMES ET METHODES DE VENTILATION D'UNE ENCEINTE DE RESERVOIR CARBURANT**
 [72] RIZZI, JUSTIN, CA
 [72] FORTE, PAOLO, CA
 [71] HYDROGENICS CORPORATION, CA
 [22] 2022-08-19
 [41] 2023-02-24
 [30] US (63/236,529) 2021-08-24

[21] **3,170,865**

[13] A1

- [51] **Int.Cl. F16C 33/10 (2006.01) F16H 57/04 (2010.01)**
 [25] EN
 [54] **FEED CIRCUIT WITH SLOT(S) AT INTERFACE BETWEEN JOURNAL BEARING AND ROTOR**
 [54] **CIRCUIT D'ALIMENTATION COMPRENANT UNE OU DES FENTES A UNE INTERFACE ENTRE LE PALIER LISSE ET LE ROTOR**
 [72] MARTIN, BRUNO, CA
 [71] PRATT & WHITNEY CANADA CORP., CA
 [22] 2022-08-19
 [41] 2023-02-20
 [30] US (17/408,029) 2021-08-20

[21] **3,170,867**

[13] A1

- [51] **Int.Cl. C01B 3/34 (2006.01) B01D 46/00 (2022.01) C01B 3/02 (2006.01)**
 [25] EN
 [54] **PROCESS FOR H2 AND SYNGAS PRODUCTION**
 [54] **PROCEDE POUR LA PRODUCTION DE H2 ET DE GAZ SYNTHETIQUE**
 [72] PENG, XIANG-DONG, US
 [72] CHAN, HENRY CHOISUN, US
 [72] AGUILAR, KELLY DANIELLE, US
 [72] YAN, SHIHONG, US
 [72] ZHOU, QIONG, US
 [72] GOWDA, SHYLAJA, US
 [71] AIR PRODUCTS AND CHEMICALS, INC., US
 [22] 2022-08-18
 [41] 2023-02-20
 [30] US (17/407,434) 2021-08-20

**Demandes canadiennes mises à la disponibilité du public
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[21] **3,170,876**
[13] A1

[51] **Int.Cl. F02C 7/06 (2006.01) F01D 25/16 (2006.01) F01D 25/18 (2006.01)**
[25] EN
[54] **SHAPED CAVITY AT INTERFACE BETWEEN JOURNAL BEARING AND ROTOR**
[54] **CAVITE FORMEE A UNE INTERFACE ENTRE LE PALIER LISSE ET LE ROTOR**
[72] MARTIN, BRUNO, CA
[72] SIMARD-BERGERON, JULIEN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-19
[41] 2023-02-20
[30] US (17/408,010) 2021-08-20

[21] **3,170,880**
[13] A1

[51] **Int.Cl. G01N 21/69 (2006.01)**
[25] EN
[54] **SOLUTION GLOW DISCHARGE PLASMA CHAMBER WITH LENS**
[54] **CHAMBRE DE PLASMA DE DECHARGE LUMINESCENTE DE SOLUTION AVEC LENTILLE**
[72] CHERAMY, JOSEPH JOHN, CA
[72] PALMGREN, ANDERS JAUQUES, CA
[72] NELSON, AVRO ANTHONY SARGEANT NELSON, CA
[72] JOHNSON, NEIL WALLACE, CA
[72] SUISSA, HOWARD ANDREW, CA
[72] NELSON, ANTHONY BRENT, CA
[71] 2S WATER INCORPORATED, CA
[22] 2022-08-18
[41] 2023-02-19
[30] US (17406594) 2021-08-19

[21] **3,170,921**
[13] A1

[51] **Int.Cl. A63B 59/50 (2015.01) B29C 70/30 (2006.01)**
[25] EN
[54] **COMPOSITE BALL BATS WITH TRANSVERSE INTERLAMINAR INTERFACES**
[54] **BATONS DE BASEBALL COMPOSITES COMPRENANT DES INTERFACES INTERLAMELLAIRES TRANSVERSALES**
[72] ST-LAURENT, FREDERIC, US
[72] CHAUVIN, DEWEY, US
[71] EASTON DIAMOND SPORTS, LLC, US
[22] 2022-08-19
[41] 2023-02-20
[30] US (17/408,189) 2021-08-20

[21] **3,170,963**
[13] A1

[51] **Int.Cl. E04G 1/17 (2006.01) E04G 1/00 (2006.01) E04G 5/00 (2006.01) E04G 7/00 (2006.01)**
[25] EN
[54] **SCAFFOLDING TRUSS**
[54] **FERME D'ECHAFAUDAGE**
[72] STEFAN, CRISTIAN, CA
[72] ROZIC, UROS, SI
[71] PROSCAFF ENTERPRISES INC., CA
[22] 2022-08-22
[41] 2023-02-23
[30] US (17/408,604) 2021-08-23

[21] **3,170,965**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING ARCHITECTURE WITH MULTIPLE POLICY HEADS**
[54] **SYSTEME ET METHODE POUR L'ARCHITECTURE D'APPRENTISSAGE AUTOMATIQUE AVEC DE MULTIPLES TETES DE POLITIQUE**
[72] SHI, XIAO QI, CA
[72] BURHANI, HASHAM, CA
[72] BALICKI, DANIEL, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-08-23
[41] 2023-02-24
[30] US (63/236,424) 2021-08-24

[21] **3,170,971**
[13] A1

[25] EN
[54] **PTP TRANSPARENT CLOCK WITH INTER-VLAN FORWARDING**
[54] **HORLOGE TRANSPARENTE PTP AVEC TRANSMISSION ENTRE LES RESEAUX LOCAUX VIRTUELS**
[72] PUSTYLNIAK, MICHAEL, CA
[72] SHANMUGAM, VIGNESH, CA
[72] UMASUTHAN, VIVEKANANDAN, CA
[71] SIEMENS CANADA LIMITED, CA
[22] 2022-08-23
[41] 2023-02-25
[30] US (17/411970) 2021-08-25

[21] **3,170,981**
[13] A1

[51] **Int.Cl. A61M 39/28 (2006.01) F16G 11/04 (2006.01) F16K 7/06 (2006.01)**
[25] EN
[54] **LOCKING SLIDE CLAMP**
[54] **PINCE A GLISSIERE VERROUILLABLE**
[72] FEITH, RAYMOND P., US
[72] PARK, SOON Y., US
[71] CAREFUSION 303, INC., US
[22] 2022-08-22
[41] 2023-02-23
[30] US (63/236162) 2021-08-23

[21] **3,170,991**
[13] A1

[51] **Int.Cl. G01K 11/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR REAL-TIME WIDE-FIELD DYNAMIC TEMPERATURE SENSING**
[54] **METHODE ET SYSTEME POUR LA DETECTION DE TEMPERATURE DYNAMIQUE A CHAMP LARGE EN TEMPS REEL**
[72] LIANG, JINYANG, CA
[72] LIU, XIANGLEI, CA
[72] SKRIPKA, ARTIOM, US
[72] VETRONE, FIORENZO, CA
[72] LAI, YINGMING, CA
[72] LIU, MIAO, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[22] 2022-08-23
[41] 2023-02-23
[30] US (63/260,511) 2021-08-23

**Canadian Applications Open to Public Inspection
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[21] **3,170,992**
[13] A1

[51] **Int.Cl. A01K 1/02 (2006.01) E06B 11/02 (2006.01)**
[25] EN
[54] **FREE ACCESS SOW GESTATION STALL GATE ASSEMBLY**
[54] **ASSEMBLAGE DE PORTE DE STALLE DE GESTATION POUR TRUIE A LIBRE ACCES**
[72] WHEATLEY, JACOB, US
[72] ELVIDGE, CHRISTOPHER, US
[71] CTB, INC., US
[22] 2022-08-22
[41] 2023-02-23
[30] US (17/892502) 2022-08-22
[30] US (63/236016) 2021-08-23

[21] **3,170,997**
[13] A1

[51] **Int.Cl. C01B 3/34 (2006.01) B01J 19/24 (2006.01) C01B 3/02 (2006.01) C01B 3/12 (2006.01) C01B 3/48 (2006.01)**
[25] EN
[54] **PROCESS FOR H2 AND SYNGAS PRODUCTION**
[54] **PROCEDE POUR LA PRODUCTION DE H2 ET DE GAZ SYNTHETIQUE**
[72] PENG, XIANG-DONG, US
[72] ZHANG, YU, US
[72] COURTNEY, TORI DAWN, US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2022-08-18
[41] 2023-02-20
[30] US (17/407,422) 2021-08-20

[21] **3,171,002**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR CONFIGURING MULTIPLE PTP PORTS OF A NETWORK DEVICE**
[54] **SYSTEME ET METHODE POUR CONFIGURER DES PORTS PTP D'UN DISPOSITIF RESEAU**
[72] UMASUTHAN, VIVEKANANDAN, CA
[72] SHANMUGAM, VIGNESH, CA
[72] PUSTYLNIAK, MICHAEL, CA
[71] SIEMENS CANADA LIMITED, CA
[22] 2022-08-23
[41] 2023-02-25
[30] US (17/412,053) 2021-08-25

[21] **3,171,003**
[13] A1

[51] **Int.Cl. C12M 1/40 (2006.01) C12M 1/00 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01) C12Q 1/46 (2006.01)**
[25] EN
[54] **TEST KIT FOR DETECTING ACETYLCHOLINESTERASE INHIBITORS**
[54] **TROUSSE D'ESSAI POUR DETECTER LES INHIBITEURS D'ACETYLCHOLINESTERASE**
[72] KOHLER, GERNOT, DE
[72] WEIB, FRAUKE, DE
[71] DR. FRANZ KOHLER CHEMIE GMBH, DE
[22] 2022-08-23
[41] 2023-02-24
[30] DE (20 2021 104 545.0) 2021-08-24

[21] **3,171,023**
[13] A1

[51] **Int.Cl. B62D 55/08 (2006.01) B60B 9/00 (2006.01) B60B 19/00 (2006.01)**
[25] EN
[54] **DEFORMABLE WHEELS AND TRACK SYSTEMS COMPRISING SAME**
[54] **ROUES DEFORMABLES ET SYSTEMES DE CHENILLES LES COMPRENANT**
[72] AUBIN-MARCHAND, JEREMIE, CA
[72] LEBLANC, ETIENNE, CA
[72] FRENETTE-MARCOUX, JONATHAN, CA
[72] CHARRETTE, MICHAEL, CA
[72] ROY, NORMAND, CA
[72] LEMELIN, MANUEL, CA
[72] MORIN, VINCENT, CA
[71] SOUCY INTERNATIONAL INC., CA
[22] 2022-08-24
[41] 2023-02-25
[30] US (63/236,790) 2021-08-25

[21] **3,171,026**
[13] A1

[51] **Int.Cl. E21B 43/38 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **SHROUDED BAND-PASS FILTER FOR OIL WELL**
[54] **FILTRE PASSE-BANDE BLINDE POUR UN Puits DE PETROLE**
[72] FOTIADES, W. TRACY, US
[72] CRANE, DON ALLEN, US
[71] REVELANT IP HOLDINGS LLC, US
[22] 2022-08-24
[41] 2023-02-24
[30] US (63/236,644) 2021-08-24
[30] US (17/893,926) 2022-08-23

[21] **3,171,055**
[13] A1

[51] **Int.Cl. B65D 5/50 (2006.01) B65D 25/10 (2006.01) B65D 81/02 (2006.01)**
[25] EN
[54] **PACKAGING SYSTEMS AND ASSOCIATED CONTAINERS, DUNNAGE PANELS, BLANKS, AND METHODS**
[54] **SYSTEMES D'EMBALLAGE ET CONTENANTS, PANNEAUX DE FARDAGE, DECOUPES ET METHODES CONNEXES**
[72] LYON, JONATHAN, US
[72] JAMES, JEFFREY S., US
[72] SMITH, KENNETH C., US
[71] WESTROCK SHARED SERVICES, LLC, US
[22] 2022-08-23
[41] 2023-02-23
[30] US (63/235,983) 2021-08-23

**Demandes canadiennes mises à la disponibilité du public
19 février 2023 au 25 février 2023**

[21] **3,171,073**
[13] A1

[51] **Int.Cl. G09B 23/20 (2006.01)**
[25] EN
[54] **A 3-DIMENSIONAL ATOMIC STRUCTURE MODEL COMPRISED OF MAGNETICALLY ATTACHED SUB-ATOMIC PARTICLE MODELS.**
[54] **MODELE DE STRUCTURE ATOMIQUE TRIDIMENSIONNELLE CONSTITUE DE MODELES DE PARTICULES SUB-ATOMIQUES ATTACHES MAGNETIQUEMENT**
[72] STUART, IAN, AT
[71] STUART, IAN, AT
[22] 2022-08-23
[41] 2023-02-24
[30] AU (2021221559) 2021-08-24

[21] **3,171,156**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR LEARNING ONLINE TO PREDICT TIME-SERIES DATA**
[54] **METHODES ET SYSTEMES POUR L'APPRENTISSAGE EN LIGNE POUR PREVOIR DES DONNEES EN SERIE CHRONOLOGIQUE**
[72] STEWART, TERRY, CA
[72] STOECKEL, ANDREAS, CA
[72] ELIASMITH, CHRISTOPHER DAVID, CA
[71] APPLIED BRAIN RESEARCH INC., CA
[71] NATIONAL RESEARCH COUNCIL CANADA, CA
[22] 2022-08-25
[41] 2023-02-25
[30] US (63/237,016) 2021-08-25

[21] **3,171,325**
[13] A1

[25] EN
[54] **MOTOR LEAKAGE CURRENT DETECTOR, DEVICES USING SAME AND RELATED METHODS**
[54] **DETECTEUR DE COURANT DE FUITE DE MOTEUR, DISPOSITIFS L'UTILISANT ET METHODES CONNEXES**
[72] MAYLEBEN, PHILIP ANTHONY, US
[72] FLIPPIN, THOMAS KENT, US
[72] CODREANU, CRISTIAN, US
[71] WAYNE/SCOTT FETZER COMPANY, US
[71] GRID CONNECT, INC., US
[22] 2022-08-24
[41] 2023-02-25
[30] US (63/237,056) 2021-08-25
[30] US (17/494,767) 2021-10-05

[21] **3,171,081**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING ARCHITECTURE WITH SELECTIVE LEARNING**
[54] **SYSTEME ET METHODE POUR L'ARCHITECTURE D'APPRENTISSAGE AUTOMATIQUE AVEC APPRENTISSAGE SELECTIF**
[72] BURHANI, HASHAM, CA
[72] SHI, XIAO QI, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-08-23
[41] 2023-02-24
[30] US (63/236,429) 2021-08-24

[21] **3,171,205**
[13] A1

[51] **Int.Cl. G01N 21/69 (2006.01) G01N 21/15 (2006.01)**
[25] EN
[54] **SOLUTION GLOW DISCHARGE PLASMA CHAMBER WITH VENTILATION**
[54] **CHAMBRE DE PLASMA DE DECHARGE LUMINESCENTE DE SOLUTION AVEC VENTILATION**
[72] CHERAMY, JOSEPH JOHN, CA
[72] PALGREN, ANDERS JAKUES, CA
[72] NELSON, AVRO ANTHONY SARGEAUNT, CA
[72] JOHNSON, NEIL WALLACE, CA
[72] SUISSA, HOWARD ANDREW, CA
[72] NELSON, ANTHONY BRENT, CA
[71] 2S WATER INCORPORATED, CA
[22] 2022-08-18
[41] 2023-02-19
[30] US (17406603) 2021-08-19

[21] **3,171,366**
[13] A1

[51] **Int.Cl. A45C 5/03 (2006.01) A44B 19/26 (2006.01) A45C 13/00 (2006.01)**
[25] EN
[54] **LUGGAGE CASES AND EXPANSION ZIPPER ASSEMBLIES AND OTHER PARTS FOR LUGGAGE CASES**
[54] **BOITIERS A BAGAGES ET ASSEMBLAGES DE FERMETURES A GLISSIERE D'EXPANSION ET D'AUTRES PIECES DE BOITIERS A BAGAGES**
[72] MEERSSCHAERT, REINHARD, BE
[71] SAMSONITE IP HOLDINGS S.A R.L., LU
[22] 2022-08-25
[41] 2023-02-25
[30] EP (21193031.8) 2021-08-25

[21] **3,171,082**
[13] A1

[51] **Int.Cl. G01S 7/521 (2006.01) B33Y 10/00 (2015.01) B33Y 50/02 (2015.01) B63B 3/00 (2006.01) B63G 8/42 (2006.01)**
[25] EN
[54] **A MODULE FOR A TOWABLE SONAR APPARATUS**
[54] **MODULE POUR APPAREIL DE SONAR REMORQUABLE**
[72] SQUIRE, JEREMY, GB
[71] THALES HOLDINGS UK PLC, GB
[22] 2022-08-23
[41] 2023-02-25
[30] GB (2112159.5) 2021-08-25

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[21] **3,171,375**
[13] A1

[51] **Int.Cl. A47D 1/00 (2006.01) A47C 3/20 (2006.01) A47C 4/02 (2006.01) A47C 13/00 (2006.01)**

[25] EN
[54] **ADJUSTABLE CHAIR ASSEMBLY**
[54] **ASSEMBLAGE DE FAUTEUIL AJUSTABLE**

[72] PACELLA, JONATHAN M., US
[72] CLEMMER, LANCE J., US
[72] BOWERS, PATRICK J.G., US
[71] WONDERLAND SWITZERLAND AG, CH
[22] 2022-08-25
[41] 2023-02-25
[30] US (63/237,070) 2021-08-25

[21] **3,171,697**
[13] A1

[51] **Int.Cl. F41B 5/20 (2006.01)**

[25] EN
[54] **BOW STABILIZERS WITH MAGNETIC DAMPING**
[54] **STABILISATEURS D'ARC AVEC AMORTISSEMENT MAGNETIQUE**

[72] KEENEY, SEAN, US
[72] ALSIP, DAVID, US
[72] MOGLE, JAMES, US
[71] BEAR ARCHERY, INC., US
[22] 2022-08-22
[41] 2023-02-23
[30] US (17/445,634) 2021-08-23

[21] **3,176,711**
[13] A1

[51] **Int.Cl. A61H 99/00 (2006.01) A47G 21/00 (2006.01)**

[25] EN
[54] **EATING ASSISTANCE DEVICE**
[54] **DISPOSITIF D'AIDE A MANGER**

[72] SMITH, LESLIE G., CA
[71] SMITH, LESLIE G., CA
[22] 2022-08-22
[41] 2023-02-25
[30] US (17/411,806) 2021-08-25

[21] **3,171,578**
[13] A1

[25] EN
[54] **A MOBILE AUTONOMOUS AGRICULTURAL SYSTEM AND METHOD**
[54] **SYSTEME AGRICOLE AUTONOME MOBILE ET METHODE**

[72] PALMER, EDWARD JOHN FRANCIS, GB
[72] KHODABANDEHLOO, KOOROSH, GB
[71] S&A GROUP HOLDINGS LIMITED, GB
[22] 2022-08-22
[41] 2023-02-23
[30] GB (2112083.7) 2021-08-23

[21] **3,171,704**
[13] A1

[51] **Int.Cl. H01M 8/248 (2016.01) C25B 9/73 (2021.01)**

[25] EN
[54] **FUEL CELL, ELECTROCHEMICAL DEVICE, AND METHOD OF TIGHTENING AND ADJUSTING FUEL CELL**
[54] **PILE A COMBUSTIBLE, DISPOSITIF ELECTROCHIMIQUE ET METHODE DE SERRAGE ET D'AJUSTEMENT DE PILE A COMBUSTIBLE**

[72] TANAKA, TAKAYUKI, JP
[72] KIKUCHI, ISAMU, JP
[71] KABUSHIKI KAISHA TOSHIBA, JP
[71] TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION, JP
[22] 2022-08-22
[41] 2023-02-23
[30] JP (2021-135899) 2021-08-23

[21] **3,171,614**
[13] A1

[51] **Int.Cl. A47K 4/00 (2006.01) A47K 11/00 (2006.01) B60P 3/36 (2006.01) B60R 15/02 (2006.01) B60R 15/04 (2006.01)**

[25] EN
[54] **REPOSITIONABLE TOILET FOR PORTABLE LIVING QUARTERS**
[54] **TOILETTE REPOSITIONNABLE POUR DES LOGEMENTS PORTATIFS**

[72] NIEMELA, MARCUS, US
[72] JACKSON, MICHAEL R., US
[71] NB4 BRAND L.L.C., US
[22] 2022-08-24
[41] 2023-02-24
[30] US (63/236,309) 2021-08-24

[21] **3,172,152**
[13] A1

[51] **Int.Cl. E03D 1/34 (2006.01) F16K 1/20 (2006.01) F16K 1/28 (2006.01) F16K 1/32 (2006.01)**

[25] EN
[54] **RECONFIGURABLE FLAPPER FOR DIFFERENT SIZED FLUSH VALVES**
[54] **CLAPET RECONFIGURABLE POUR DES ROBINETS DE CHASSE DE DIFFERENTES TAILLES**

[72] SMITH, JORDAN D., US
[72] BROWN, GLENN W., US
[71] LAVELLE INDUSTRIES, INC., US
[22] 2022-08-25
[41] 2023-02-25
[30] US (17/411,272) 2021-08-25

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[21] **3,079,355**
[13] A1
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/142 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **END-OF-DOSE DETECTION FOR DRUG DELIVERY SYSTEM**
[54] **DETECTION DE FIN DE DOSE POUR SYSTEME D'ADMINISTRATION DE MEDICAMENT**
[72] BOOTH, DAVID E., US
[72] QUINN, MICHAEL VINCENT, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2020-04-16
[86] 2018-10-15 (PCT/US2018/055879)
[87] (WO2019/079181)
[30] US (62/572,722) 2017-10-16

[21] **3,150,448**
[13] A1
[51] **Int.Cl. F25D 23/02 (2006.01)**
[25] EN
[54] **REFRIGERATOR**
[54] **REFRIGERATEUR**
[72] JIA, ZHENFEI, CN
[72] ZHANG, WEILUN, CN
[72] ZHANG, XIANGPING, CN
[72] GUO, DONG, CN
[71] HISENSE (SHANDONG) REFRIGERATOR CO., LTD., CN
[85] 2022-03-08
[86] 2022-01-11 (PCT/CN2022/071408)
[87] (3150448)
[30] CN (202110974363.5) 2021-08-24
[30] CN (PCT/CN2021/118611) 2021-09-15
[30] CN (202122263810.4) 2021-09-17

[21] **3,175,945**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING LUNG DISEASE**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT ET LA PREVENTION DES MALADIES PULMONAIRES**
[72] LEDFORD, JULIE, US
[72] KRAFT, MONICA, US
[72] VAGNER, JOSEF, US
[71] ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US
[71] RAESEDO, LLC, US
[85] 2022-09-23
[86] 2022-08-23 (PCT/US2022/075356)
[87] (3175945)
[30] US (17/409,642) 2021-08-23

[21] **3,177,927**
[13] A1
[51] **Int.Cl. C12N 15/13 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-IGSF1 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS CONTRE IGSF1 ET UTILISATIONS CONNEXES**
[72] KIM, SEONG-RAK, KR
[72] SON, HYE-JIN, KR
[72] LEE, MI-SO, KR
[72] KIM, HA-NA, KR
[72] LEE, JUN-HYUNG, KR
[72] SHIN, WON-HWA, KR
[71] WELLMARKER BIO CO., LTD., KR
[85] 2022-09-29
[86] 2021-08-20 (PCT/KR2021/011139)
[87] (3177927)

[21] **3,177,998**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 47/60 (2017.01) A61K 31/7088 (2006.01) A61P 7/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING SICKLE CELL DISEASE OR BETA THALASSEMIA USING A COMPLEMENT ALTERNATIVE PATHWAY INHIBITOR**
[54] **METHODES DE TRAITEMENT DE LA DREPANOCYTOSE OU DE LA BETA-THALASSEMIE AU MOYEN D'UN INHIBITEUR DE VOIE ALTERNE COMPLEMENTAIRE**
[72] KIM, SUNGKWON, US
[72] BEQ, STEPHANIE L., FR
[71] ALEXION PHARMACEUTICALS, INC., US
[85] 2022-09-29
[86] 2022-08-18 (PCT/US2022/040710)
[87] (3177998)
[30] US (63/235,383) 2021-08-20
[30] US (63/349,291) 2022-06-06

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[21] **3,178,003**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 7/00 (2006.01) C07K 16/18 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING SICKLE CELL DISEASE OR BETA THALASSEMIA USING COMPLEMENT ALTERNATIVE PATHWAY INHIBITORS**

[54] **METHODES DE TRAITEMENT DE LA DREPANOCYTOSE OU DE LA BETA-THALASSEMIE AU MOYEN D'INHIBITEURS DE VOIE ALTERNE COMPLEMENTAIRE**

[72] KIM, SUNGKWON, US

[72] BEQ, STEPHANIE L., US

[71] ALEXION PHARMACEUTICALS, INC., US

[85] 2022-09-29

[86] 2022-08-18 (PCT/US2022/040720)

[87] (3178003)

[30] US (63/235,320) 2021-08-20

[30] US (63/349,270) 2022-06-06

[21] **3,181,445**
[13] A1

[51] **Int.Cl. G01V 3/08 (2006.01) G06Q 50/08 (2012.01)**

[25] EN

[54] **STRUCTURAL MEMBER FINDER**

[54] **LOCALISATEUR D'ELEMENT STRUCTURAL**

[72] JARVIS, LUKE, US

[71] JARVIS, LUKE, US

[85] 2022-12-05

[86] 2021-06-04 (PCT/US2021/036001)

[87] (WO2021/248067)

[21] **3,181,870**
[13] A1

[51] **Int.Cl. D03D 3/02 (2006.01) F16L 11/02 (2006.01)**

[25] EN

[54] **TUBULAR WOVEN LINER**

[54] **DOUBLURE TISSEE TUBULAIRE**

[72] MORISSETTE, SYLVAIN, CA

[72] HERAUD, JOEL, CA

[72] BUREAU, MARTIN, CA

[72] CARRIER, SEBASTIEN, CA

[72] MICHAUD, PASCAL, CA

[71] SANEXEN ENVIRONMENTAL SERVICES INC., CA

[85] 2022-12-07

[86] 2021-08-06 (PCT/CA2021/051095)

[87] (WO2022/040778)

[30] US (63/071,242) 2020-08-27

[21] **3,181,880**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROCESSING MEDICAL DATA**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE DONNEES MEDICALES**

[72] CHEN, TINA, US

[72] STOLYAROV, ROMAN, US

[72] CALEF, THOMAS, US

[72] CHEN, TONY, US

[72] DALTON, NIAL, US

[72] BINNEY, JILL, US

[72] BUHARIN, VASILYI, US

[72] MITREA, BOGDAN, US

[72] DEHGhani, HOSSEIN, US

[72] OBERLIN, JOHN, US

[71] ACTIV SURGICAL, INC., US

[85] 2022-12-07

[86] 2021-06-07 (PCT/US2021/036236)

[87] (WO2021/252384)

[30] US (63/036,293) 2020-06-08

[30] US (63/166,842) 2021-03-26

[21] **3,181,893**
[13] A1

[51] **Int.Cl. C25B 1/04 (2021.01) C25B 1/23 (2021.01) C25B 3/03 (2021.01) C25B 3/25 (2021.01) C25B 3/26 (2021.01) C25B 9/23 (2021.01) C25B 9/70 (2021.01) C25B 9/77 (2021.01) C25B 11/075 (2021.01) C25B 11/081 (2021.01) C25B 1/22 (2006.01) C25B 13/08 (2006.01) C25B 15/08 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR HIGH CONCENTRATION OF MULTIELECTRON PRODUCTS OR CO IN ELECTROLYZER OUTPUT**

[54] **SYSTEME ET PROCEDE POUR AUGMENTER LA CONCENTRATION DE PRODUITS A ELECTRONS MULTIPLES OU DE CO DANS UNE SORTIE D'ELECTROLYSEUR**

[72] KASHI, AJAY R., US

[72] BUCKLEY, AYA K., US

[72] MA, SICHAO, US

[72] KUHL, KENDRA P., US

[72] HUNEGNAW, SARA, US

[71] TWELVE BENEFIT CORPORATION, US

[85] 2022-12-07

[86] 2021-06-08 (PCT/US2021/036475)

[87] (WO2021/252535)

[30] US (62/705,067) 2020-06-09

[21] **3,181,934**
[13] A1

[51] **Int.Cl. C03C 13/00 (2006.01) C08J 5/08 (2006.01) C08K 7/14 (2006.01) C03C 3/087 (2006.01)**

[25] EN

[54] **GLASS COMPOSITIONS, FIBERIZABLE GLASS COMPOSITIONS, AND GLASS FIBERS MADE THEREFROM**

[54] **COMPOSITIONS DE VERRE, COMPOSITIONS DE VERRE POUVANT ETRE FORMEES EN FIBRES ET FIBRES DE VERRE PREPAREES A PARTIR DE CELLES-CI**

[72] LI, HONG, US

[71] ELECTRIC GLASS FIBER AMERICA, LLC, US

[85] 2022-12-08

[86] 2021-06-24 (PCT/US2021/038888)

[87] (WO2021/262973)

[30] US (63/043,874) 2020-06-25

[21] **3,181,955**
[13] A1

[51] **Int.Cl. B66B 1/10 (2006.01) B66B 19/00 (2006.01) E21F 13/00 (2006.01)**

[25] EN

[54] **METHOD OF OPERATING A MINING HOIST**

[54] **PROCEDE POUR FAIRE FONCTIONNER UN TREUIL D'EXTRACTION MINIERE**

[72] GARTNER, TIM, CA

[72] KATOLIK, JERZY, CA

[71] ABB SCHWEIZ AG, CH

[85] 2022-12-08

[86] 2021-06-09 (PCT/IB2021/055071)

[87] (WO2021/250591)

[30] EP (20179280.1) 2020-06-10

[21] **3,181,960**
[13] A1

[51] **Int.Cl. A61L 9/03 (2006.01)**

[25] EN

[54] **SANITISATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE DESINFECTION**

[72] FOCAS, JOHN, AU

[72] MORROW-WOODS, MARTIN, AU

[71] PANDEMIC ADVISORY & AUDIT PTY LTD, AU

[85] 2022-12-08

[86] 2021-06-08 (PCT/AU2021/050570)

[87] (WO2021/248179)

[30] AU (2020901877) 2020-06-08

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[21] **3,181,964**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/573 (2006.01) A61K 45/06 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **TLR7 INHIBITOR IN COMBINATION WITH PREDNISOLONE OR HYDROXYCHLOROQUINE FOR TREATING CUTANEOUS LUPUS ERYTHEMATOSUS**

[54] **INHIBITEUR DE TLR7 EN COMBINAISON AVEC DE LA PREDNISOLONE OU DE L'HYDROXYCHLOROQUINE POUR LE TRAITEMENT DU LUPUS ERYTHEMATEUX CUTANE**

[72] SCHIEVEN, GARY L., US
[72] DUDHGAONKAR, SHAILESH, IN
[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2022-12-08
[86] 2021-06-10 (PCT/US2021/036740)
[87] (WO2021/252718)
[30] IN (202011024586) 2020-06-11

[21] **3,181,979**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/18 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **TARGETED ABERRANT ALPHA-SYNUCLEIN SPECIES AND INDUCED UBIQUITINATION AND PROTEOSOMAL CLEARANCE VIA CO-RECRUITMENT OF AN E3-LIGASE SYSTEM**

[54] **ESPECE D'ALPHA-SYNUCLEINE ABERRANTE CIBLEE ET UBIQUITINATION INDUITE ET CLAIRANCE PROTEOSOMIQUE PAR CO-RECRUTEMENT D'UN SYSTEME E3-LIGASE**

[72] FERGUSON, FLEUR M., US
[72] GRAY, NATHANAEL S., US
[72] ZHANG, TINGHU, US
[72] HAGGARTY, STEPHEN J., US
[71] DANA FARBER CANCER INSTITUTE, INC., US
[71] THE GENERAL HOSPITAL CORPOATION, US

[85] 2022-12-08
[86] 2021-06-16 (PCT/US2021/037551)
[87] (WO2021/257650)
[30] US (63/040,105) 2020-06-17

[21] **3,181,982**
[13] A1

[51] **Int.Cl. A61K 31/4985 (2006.01) C07D 241/08 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **ALLOSTERIC EGFR INHIBITORS AND METHODS OF USE THEREOF**

[54] **INHIBITEURS ALLOSTERIQUES D'EGFR ET LEURS METHODES D'UTILISATION**

[72] SCOTT, DAVID A., US
[72] GERO, THOMAS, US
[72] BEYETT, TYLER, US
[72] HEPPNER, DAVID, US
[72] GIPSON, KRISTA E., US
[72] HUANG, SHIH-CHUNG, US
[72] STROUD, STEVE, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US

[85] 2022-12-08
[86] 2021-06-09 (PCT/US2021/036657)
[87] (WO2021/252661)
[30] US (63/036,622) 2020-06-09
[30] US (63/111,429) 2020-11-09

[21] **3,181,983**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) C12N 9/14 (2006.01) C12N 9/16 (2006.01)**

[25] EN

[54] **SOLUBLE ENPP1 OR ENPP3 PROTEINS AND USES THEREOF**

[54] **PROTEINES ENPP1 SOLUBLES ET LEURS UTILISATIONS**

[72] CHENG, ZHILIANG, US
[72] BRADDOCK, DEMETRIOS, US
[72] STABACH, PAUL, US
[72] JUNGLES, STEVEN, US
[71] INOZYME PHARMA, INC., US
[71] YALE UNIVERSITY, US

[85] 2022-12-08
[86] 2021-06-08 (PCT/US2021/036494)
[87] (WO2021/252549)
[30] US (63/036,833) 2020-06-09

[21] **3,181,984**
[13] A1

[51] **Int.Cl. B65H 54/71 (2006.01) B65H 51/22 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PRODUCING A BUNDLE OF FILAMENTS AND/OR A YARN**

[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'UN FAISCEAU DE FILAMENTS ET/OU D'UN FIL**

[72] CASCIO, ANTHONY, US
[72] MASON, JAMES, US
[72] AMOS, DANIEL, US
[72] JONES, LUCINDA, US
[71] ALADDIN MANUFACTURING CORPORATION, US

[85] 2022-12-08
[86] 2021-06-16 (PCT/US2021/037687)
[87] (WO2021/257739)
[30] US (63/039,626) 2020-06-16
[30] US (63/039,637) 2020-06-16

[21] **3,181,986**
[13] A1

[51] **Int.Cl. B02C 17/00 (2006.01) B02C 17/18 (2006.01) B02C 23/00 (2006.01) B02C 23/02 (2006.01)**

[25] EN

[54] **LAB-SCALE CONTINUOUS SEMI-AUTOGENOUS (SAG) GRINDING MILL**

[54] **BROYEUR SEMI-AUTOGENE (SAG) CONTINU A L'ECHELLE DU LABORATOIRE**

[72] STARKEY, JOHN H., CA
[71] STARKEY & ASSOCIATES INC., CA

[85] 2022-12-08
[86] 2021-06-07 (PCT/CA2021/050779)
[87] (WO2021/248233)
[30] US (63/037,892) 2020-06-11

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[21] **3,181,991**
[13] A1

[51] **Int.Cl. A61H 9/00 (2006.01) A61K 31/197 (2006.01) A61P 25/14 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING SPASTICITY USING ANTI-SPASMODIC COMPOSITIONS AND NEGATIVE PRESSURE THERAPY**

[54] **METHODES DE TRAITEMENT DE LA SPASTICITE AU MOYEN DE COMPOSITIONS ANTISPASMODIQUES ET DE LA THERAPIE PAR PRESSION NEGATIVE**

[72] MATHIESEN, IACOB, NO
[72] INMAN, LAURA ANNE, NO
[71] OTIVIO AS, NO
[85] 2022-12-08
[86] 2021-06-22 (PCT/IB2021/055515)
[87] (WO2021/260556)
[30] US (63/042,246) 2020-06-22

[21] **3,181,993**
[13] A1

[51] **Int.Cl. A47C 7/38 (2006.01)**

[25] EN

[54] **HEAD SUPPORT ASSEMBLY AND HEAD SUPPORT UNIT**

[54] **ENSEMBLE SUPPORT DE TETE ET UNITE DE SUPPORT DE TETE**

[72] COHEN GAZIT, BEN, IL
[72] SHAHAM, KALMAN, IL
[72] LIBRUS, MICHAEL, IL
[71] HEADOVATIONS LTD., IL
[85] 2022-12-08
[86] 2021-06-16 (PCT/IL2021/050726)
[87] (WO2021/255734)
[30] IL (275441) 2020-06-17

[21] **3,181,995**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/61 (2017.01) A61K 47/69 (2017.01) A61K 31/445 (2006.01) A61K 47/40 (2006.01) A61K 47/42 (2017.01) A61L 24/00 (2006.01)**

[25] EN

[54] **IMPROVED ADHESIVE DRUG CARRIER**

[54] **SUPPORT DE MEDICAMENT ADHESIF AMELIORE**

[72] PILUSO, SUSANNA, NL
[72] STEVERINK, JASPER GERARD, NL
[72] VAN TOL, FLORIS RUDOLF, NL
[72] SCHIFFEELERS, RAYMOND MICHEL, NL
[72] OOSTERMAN, BAS JEROEN, NL
[72] VERLAAN, JOANNES JACOBUS, NL
[71] UMC UTRECHT HOLDING B.V., NL
[71] SENTRYX B.V., NL
[85] 2022-12-08
[86] 2021-06-10 (PCT/EP2021/065707)
[87] (WO2021/250205)
[30] NL (2025818) 2020-06-11

[21] **3,181,997**
[13] A1

[51] **Int.Cl. B21C 51/00 (2006.01) G01N 27/80 (2006.01)**

[25] EN

[54] **MECHANICAL PROPERTY MEASURING APPARATUS, MECHANICAL PROPERTY MEASURING METHOD, SUBSTANCE MANUFACTURING EQUIPMENT, SUBSTANCE MANAGEMENT METHOD, AND SUBSTANCE MANUFACTURING METHOD**

[54] **DISPOSITIF DE MESURE DE PROPRIETE MECANIQUE, PROCEDE DE MESURE DE PROPRIETE MECANIQUE, INSTALLATION DE FABRICATION DE SUBSTANCE, PROCEDE DE GESTION DE SUBSTANCE ET PROCEDE DE FABRICATION DE SUBSTANC**

[72] MATSUI, YUTAKA, JP
[72] OZEKI, TAKAFUMI, JP
[72] TERADA, KAZUKI, JP
[72] ADACHI, KENJI, JP
[72] IMANAKA, HIROKI, JP
[72] IZUMI, DAICHI, JP
[72] SHIMAMURA, JUNJI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2022-12-08
[86] 2021-06-14 (PCT/JP2021/022593)
[87] (WO2021/256442)
[30] JP (2020-103334) 2020-06-15

[21] **3,182,002**
[13] A1

[51] **Int.Cl. C07K 1/14 (2006.01) B82Y 5/00 (2011.01) C07K 1/18 (2006.01) C07K 1/36 (2006.01)**

[25] EN

[54] **METHOD OF MAKING VIRUS-LIKE PARTICLE**

[54] **PROCEDE DE PREPARATION DE PARTICULES DE TYPE VIRAL**

[72] RICHARDSON, CHARLES, US
[72] LIEN, HANS R., US
[71] ICOSAVAX, INC., US
[85] 2022-12-08
[86] 2021-06-09 (PCT/US2021/036688)
[87] (WO2021/252687)
[30] US (63/036,535) 2020-06-09

Demandes PCT entrant en phase nationale

[21] **3,182,003**
[13] A1

[51] **Int.Cl. B01D 33/073 (2006.01) B01D 33/37 (2006.01) B01D 33/46 (2006.01) B01D 33/64 (2006.01) B01D 33/72 (2006.01)**

[25] EN

[54] **ROLLER FILTRATION APPARATUS**

[54] **APPAREIL DE FILTRATION A ROULEAU**

[72] HANSEN, PREBEN BOJE, DK

[72] STUBBE, PETER REIMER, DK

[71] DANMARKS TEKNISKE UNIVERSITET, DK

[85] 2022-12-08

[86] 2021-07-02 (PCT/EP2021/068371)

[87] (WO2022/003172)

[30] EP (20183703.6) 2020-07-02

[21] **3,182,005**
[13] A1

[51] **Int.Cl. F01B 7/08 (2006.01) F01P 3/08 (2006.01) F02B 75/28 (2006.01)**

[25] EN

[54] **FOUR-STROKE OPPOSED PISTON ENGINE ARCHITECTURE AND RELATED METHODS**

[54] **ARCHITECTURE DE MOTEUR A PISTONS OPPOSES A QUATRE TEMPS ET PROCEDES ASSOCIES**

[72] MEHAR, BADE, US

[72] MEYERS, WILLIAM VINCENT JR., US

[72] WARREN, JAMES, US

[71] ENGINUITY POWER SYSTEMS, US

[85] 2022-12-08

[86] 2021-02-21 (PCT/US2021/018943)

[87] (WO2021/168382)

[30] US (62/980,167) 2020-02-22

[21] **3,182,006**
[13] A1

[51] **Int.Cl. A01N 63/20 (2020.01) A01N 63/30 (2020.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PROMOTING PLANT HEALTH**

[54] **COMPOSITIONS ET PROCEDES POUR FAVORISER LA SANTE DES PLANTES**

[72] ZORNER, PAUL, US

[72] FARMER, SEAN, US

[72] ALIBEK, KEN, US

[71] LOCUS SOLUTIONS IPCO, LLC, US

[85] 2022-12-08

[86] 2021-06-15 (PCT/US2021/037316)

[87] (WO2021/257499)

[30] US (63/039,184) 2020-06-15

[21] **3,182,011**
[13] A1

[51] **Int.Cl. B60P 1/48 (2006.01)**

[25] EN

[54] **APPARATUS FOR MOVING A CONTAINER ON A VEHICLE**

[54] **APPAREIL DE DEPLACEMENT D'UN CONTENANT SUR UN VEHICULE**

[72] LAVOIE, PIERRE, CA

[71] LAVOIE, PIERRE, CA

[85] 2022-12-08

[86] 2021-04-14 (PCT/CA2021/050347)

[87] (3182011)

[30] US (63/037,678) 2020-06-11

[21] **3,182,013**
[13] A1

[51] **Int.Cl. F41G 1/30 (2006.01) F41G 1/34 (2006.01)**

[25] EN

[54] **DIFFRACTIVE OPTIC REFLEX SIGHT**

[54] **VISEUR REFLEX A OPTIQUE DIFFRACTIVE**

[72] PARKER, WILLIAM P., US

[71] CIPO, CA

[71] MARSUPIAL HOLDINGS, INC., US

[85] 2022-12-08

[86] 2021-06-16 (PCT/US2021/037696)

[87] (WO2021/257743)

[30] US (62/705,215) 2020-06-16

[21] **3,182,015**
[13] A1

[51] **Int.Cl. A61K 31/4025 (2006.01) A61P 9/06 (2006.01)**

[25] EN

[54] **SULCARDINE ADMINISTRATION FOR TREATMENT OF ACUTE ATRIAL FIBRILLATION**

[54] **ADMINISTRATION DE SULCARDINE POUR LE TRAITEMENT DE LA FIBRILLATION AURICULAIRE AIGUE**

[72] ELLIOTT, GARY, US

[72] GILLINGS, MIREILLE, US

[72] GOODENOW, ROBERT, US

[72] MASON, JAY, US

[72] RADZISZEWSKI, WALDEMAR, US

[72] ROMANO, SUZANNE, US

[71] HUYABIO INTERNATIONAL, LLC, US

[85] 2022-12-08

[86] 2021-06-11 (PCT/US2021/037098)

[87] (WO2021/252959)

[30] US (63/038,664) 2020-06-12

[21] **3,182,016**
[13] A1

[51] **Int.Cl. G21F 5/015 (2006.01) H05H 6/00 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR BEAM TARGET EXCHANGE AND VOLATILE OBJECT STORAGE**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES D'ECHANGE DE CIBLE DE FAISCEAU ET DE STOCKAGE D'OBJET VOLATIL**

[72] MEEKINS, MICHAEL, US

[72] STYRON, JEDEDIAH, US

[72] PATEL, VIJAY, US

[72] LEE, CHARLES, US

[72] JAUREGUI, FRANK, US

[72] ASSAF, ALAIN, US

[72] WEBBER, LESLIE, US

[72] MUCHNIKOV, ANATOLY, US

[72] SCHROEDER, JON, US

[71] TAE TECHNOLOGIES, INC., US

[85] 2022-12-08

[86] 2021-07-02 (PCT/US2021/040345)

[87] (WO2022/010795)

[30] US (63/048,633) 2020-07-06

[30] US (63/060,831) 2020-08-04

[30] US (63/173,275) 2021-04-09

[30] US (63/173,285) 2021-04-09

PCT Applications Entering the National Phase

[21] **3,182,017**
[13] A1

[51] **Int.Cl. F24S 10/50 (2018.01) H02S 40/44 (2014.01) F24S 10/55 (2018.01) F24S 80/30 (2018.01)**

[25] EN

[54] **BASE TROUGH FOR A THERMAL MODULE, THERMAL MODULE COMPRISING SUCH BASE TROUGH, A SYSTEM FOR EXTRACTING THERMAL ENERGY AND THE USE OF SUCH BASE TROUGH FOR EXTRACTING THERMAL ENERGY FROM SUNLIGHT**

[54] **BAC DE BASE POUR MODULE THERMIQUE, MODULE THERMIQUE COMPORTANT UN TEL BAC DE BASE, SYSTEME D'EXTRACTION D'ENERGIE THERMIQUE ET UTILISATION D'UN TEL BAC DE BASE POUR L'EXTRACTION D'ENERGIE THERMIQUE A PARTIR DE LA LUMIERE SOLAIRE**

[72] SCHWERTNER, HEIKO, CH
[71] LOGIC IP AG, CH
[85] 2022-12-08
[86] 2020-06-09 (PCT/EP2020/065908)
[87] (WO2021/249620)

[21] **3,182,019**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/50 (2006.01) A61K 31/00 (2006.01) A61K 47/10 (2017.01) A61K 47/36 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS CONTAINING ENTEROKINE-RELEASING SUBSTANCES IN MULTIPLE DOSAGE FORMS IN COMBINATION WITH GELLING AGENTS**

[54] **COMPOSITIONS PHARMACEUTIQUES CONTENANT DES SUBSTANCES LIBERANT DE L'ENTEROKINE SOUS DE MULTIPLES FORMES POSOLOGIQUES EN COMBINAISON AVEC DES AGENTS GELIFIANTS**

[72] BOLZ, STEFFEN-SEBASTIAN, DE
[72] DEUSCH, KAI, DE
[71] APHAIA IP AG, CH
[85] 2022-12-08
[86] 2020-06-10 (PCT/EP2020/066149)
[87] (WO2021/249641)

[21] **3,182,021**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) B82Y 5/00 (2011.01) C07K 14/005 (2006.01) C07K 14/115 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **METHOD OF ASSEMBLYING TWO-COMPONENT VIRUS-LIKE PARTICLE**

[54] **PROCEDE D'ASSEMBLAGE DE PARTICULES DE TYPE VIRAL A DEUX CONSTITUANTS**

[72] SHEPARD, SCOT R., US
[72] LIEN, HANS R., US
[72] TAYLOR, ROSS M., US
[72] RICHARDSON, CHARLES, US
[71] ICOSAVAX, INC., US
[85] 2022-12-08
[86] 2021-06-09 (PCT/US2021/036689)
[87] (WO2021/252688)
[30] US (63/036,505) 2020-06-09

[21] **3,182,022**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/502 (2006.01) A61K 45/06 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **COMPOUND FOR THE TREATMENT OF CORONAVIRAL INFECTIONS**

[54] **COMPOSE POUR LE TRAITEMENT D'INFECTIONS CORONAVIRALES**

[72] BRYSCH, WOLFGANG, DE
[72] KAISER, ASTRID, DE
[72] SCHULZ, PETRA, DE
[72] SCHUMANN, SARA, DE
[72] VON WEGERER, JORG, DE
[72] SETZ, CHRISTIAN, DE
[72] SCHUBERT, ULRICH, DE
[71] METRIOPHARM AG, CH
[85] 2022-12-08
[86] 2021-06-09 (PCT/EP2021/000071)
[87] (WO2021/249667)
[30] EP (20000212.9) 2020-06-10
[30] EP (20000366.3) 2020-10-08

[21] **3,182,024**
[13] A1

[51] **Int.Cl. D06F 34/18 (2020.01) D06F 34/05 (2020.01) D06F 58/38 (2020.01)**

[25] EN

[54] **EMBEDDED TEMPERATURE SENSORS FOR MONITORING TEMPERATURE OF ARTICLES AND STATUS OF DRYING OR CLEANING CYCLES**

[54] **CAPTEURS DE TEMPERATURE INTEGRES PERMETTANT DE SURVEILLER LA TEMPERATURE D'ARTICLES ET L'ETAT DE CYCLES DE SECHAGE OU DE NETTOYAGE**

[72] MCGRANE, PETER J., US
[72] WOOD, KYLE D., US
[72] GHOSH, KAUSTAV, US
[72] WHITE, BRUCE W., US
[71] ECOLAB USA INC., US
[85] 2022-12-08
[86] 2021-06-04 (PCT/US2021/035934)
[87] (WO2021/257297)
[30] US (63/041,295) 2020-06-19

[21] **3,182,029**
[13] A1

[51] **Int.Cl. F24F 3/14 (2006.01)**

[25] EN

[54] **MODULAR RECYCLING AIR CURTAIN DEVICE**

[54] **DISPOSITIF RIDEAU D'AIR DE RECYCLAGE MODULAIRE**

[72] CASH, JAMES T., US
[72] CASH, OLIVIA Z., US
[71] CASH, JAMES T., US
[71] CASH, OLIVIA Z., US
[85] 2022-12-08
[86] 2021-06-15 (PCT/US2021/037383)
[87] (WO2022/010621)
[30] US (16/923,681) 2020-07-08

Demandes PCT entrant en phase nationale

[21] **3,182,035**
[13] A1

[51] **Int.Cl. A61B 17/15 (2006.01) A61B 17/17 (2006.01)**
[25] EN
[54] **TOOL FOR A MULTILIGAMENT RECONSTRUCTION SURGERY**
[54] **OUTIL POUR CHIRURGIE DE RECONSTRUCTION MULTILIGAMENTAIRE**
[72] VANDEVENNE, JAN, BE
[72] SMEETS, KRISTOF, BE
[72] GRYSPEIRT, FERNAND, BE
[71] DR. VANDEVENNE RADIOLOGIE BV, BE
[85] 2022-12-08
[86] 2021-06-30 (PCT/IB2021/055847)
[87] (WO2022/003581)
[30] BE (BE2020/5487) 2020-06-30

[21] **3,182,036**
[13] A1

[51] **Int.Cl. C07C 13/465 (2006.01) A61K 31/015 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **INDENE COMPOUNDS, PHARMACEUTICAL COMPOSITIONS THEREOF, AND THEIR THERAPEUTIC APPLICATIONS**
[54] **COMPOSES D'INDENE, COMPOSITIONS PHARMACEUTIQUES DE CEUX-CI ET LEURS APPLICATIONS THERAPEUTIQUES**
[72] SU, YING, CN
[72] ZHANG, XIAOKUN, CN
[72] CHEN, ZIWEN, CN
[72] CHEN, QIANGZHEN, CN
[72] WANG, HAISHAN, CN
[72] ZHANG, XINDAO, CN
[72] ZENG, ZHIPING, CN
[72] CAI, LIJUN, CN
[72] ZHOU, YUQI, CN
[72] YAN, ZHIQIANG, CN
[71] NUCMITO PHARMACEUTICALS CO., LTD., CN
[85] 2022-12-08
[86] 2021-06-11 (PCT/CN2021/099626)
[87] (WO2021/249529)
[30] US (63/038,737) 2020-06-12

[21] **3,182,039**
[13] A1

[51] **Int.Cl. B60P 7/15 (2006.01) B60R 11/00 (2006.01) H02J 7/14 (2006.01) H05K 5/02 (2006.01) H05K 5/06 (2006.01)**
[25] EN
[54] **PORTABLE POWER SYSTEM DOCKING ASSEMBLY**
[54] **ENSEMBLE D'ACCUEIL DE SYSTEME D'ALIMENTATION PORTABLE**
[72] PINKARD, DYLAN LLEWELLYN, AU
[72] ALBRECHTSEN, JAMES, AU
[71] REDARC TECHNOLOGIES PTY LTD, AU
[85] 2022-12-08
[86] 2021-06-25 (PCT/AU2021/050666)
[87] (WO2021/258153)
[30] AU (2020902139) 2020-06-26

[21] **3,182,041**
[13] A1

[51] **Int.Cl. G06N 3/02 (2006.01) G06N 3/08 (2023.01) G06T 1/40 (2006.01) G06T 7/00 (2017.01) G06T 15/50 (2011.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DYNAMICALLY ESTIMATING LIGHT-SOURCE PARAMETERS FROM MULTIPLE IMAGES**
[54] **PROCEDE ET SYSTEME D'ESTIMATION DYNAMIQUE DE PARAMETRES DE SOURCE DE LUMIERE A PARTIR DE MULTIPLES IMAGES**
[72] LALONDE, JEAN-FRANCOIS, CA
[72] GAGNE, CHRISTIAN, CA
[72] GARDNER, MARC-ANDRE, CA
[71] DEPIX TECHNOLOGIES INC., CA
[85] 2022-12-08
[86] 2021-06-14 (PCT/CA2021/050805)
[87] (WO2021/248252)
[30] US (63/038,214) 2020-06-12

[21] **3,182,042**
[13] A1

[51] **Int.Cl. C12N 7/02 (2006.01)**
[25] EN
[54] **GENERATION OF DIVERSE VIRAL LIBRARIES**
[54] **GENERATION DE BIBLIOTHEQUES VIRALES DIVERSES**
[72] DUFFY, MARGARET, GB
[71] THEOLYTICS LTD, GB
[85] 2022-12-08
[86] 2021-06-24 (PCT/GB2021/051609)
[87] (WO2021/260385)
[30] GB (2009701.0) 2020-06-25

[21] **3,182,045**
[13] A1

[51] **Int.Cl. G01N 21/65 (2006.01)**
[25] EN
[54] **METHODS FOR ANALYSING VIRUSES USING RAMAN SPECTROSCOPY**
[54] **METHODES D'ANALYSE DE VIRUS PAR SPECTROSCOPIE RAMAN**
[72] CHURCHWELL, JOHN, GB
[72] BARADEZ, MARC OLIVIER, GB
[72] MARSHALL, DAMIAN, GB
[71] CELL THERAPY CATAPULT LIMITED, GB
[85] 2022-12-08
[86] 2021-07-01 (PCT/GB2021/051673)
[87] (WO2022/003359)
[30] GB (2010104.4) 2020-07-01

PCT Applications Entering the National Phase

[21] **3,182,046**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/6869 (2018.01) G16B 5/00 (2019.01)**

[25] EN

[54] **PARALLEL ANALYSIS OF INDIVIDUAL CELLS FOR RNA EXPRESSION AND DNA FROM TARGETED TAGMENTATION BY SEQUENCING**

[54] **ANALYSE PARALLELE DE CELLULES INDIVIDUELLES POUR L'EXPRESSION DE L'ARN ET DE L'ADN A PARTIR D'UNE TAGMENTATION CIBLEE PAR SEQUENCAGE**

[72] REN, BING, US

[72] ZHU, CHENXU, US

[71] LUDWIG INSTITUTE FOR CANCER RESEARCH LTD, CH

[85] 2022-12-08

[86] 2021-06-22 (PCT/US2021/038409)

[87] (WO2021/262671)

[30] US (63/042,761) 2020-06-23

[21] **3,182,047**
[13] A1

[51] **Int.Cl. B29C 49/04 (2006.01) B29C 31/00 (2006.01) B29C 49/22 (2006.01) B29C 49/48 (2006.01) B29C 49/56 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR MANUFACTURING PLASTIC CONTAINERS**

[54] **DISPOSITIF ET METHODE POUR LA FABRICATION DE CONTENANTS EN PLASTIQUE**

[72] SCHNELL, MICHAEL, DE

[71] KOCHER-PLASTIK MASCHINENBAU GMBH, DE

[85] 2022-12-08

[86] 2021-06-28 (PCT/EP2021/067718)

[87] (WO2022/022925)

[30] DE (10 2020 004 564.2) 2020-07-28

[21] **3,182,051**
[13] A1

[51] **Int.Cl. A61L 2/06 (2006.01)**

[25] EN

[54] **SANITIZATION DEVICE AND SYSTEMS FOR THE PASSENGER COMPARTMENT OF VEHICLES AND METHOD OF USING SAME**

[54] **DISPOSITIF ET SYSTEMES DE DESINFECTION POUR LE COMPARTIMENT PASSAGER DE VEHICULES ET LEUR PROCEDE D'UTILISATION**

[72] BASSINDALE, BRIAN, CA

[71] BASSINDALE, BRIAN, CA

[85] 2022-12-08

[86] 2021-06-25 (PCT/CA2021/050881)

[87] (WO2022/000075)

[30] US (63/045,305) 2020-06-29

[21] **3,182,052**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/165 (2006.01) C12N 1/19 (2006.01) C12N 15/50 (2006.01) C12N 15/81 (2006.01)**

[25] EN

[54] **ORAL SCARS-COV-2 VACCINE, PREPARATION THEREFOR, AND APPLICATION THEREOF**

[54]

[72] HUANG, JINHAI, CN

[72] ZHANG, LILIN, CN

[72] GUO, YANYU, CN

[71] TIANJIN UNIVERSITY, CN

[85] 2022-12-08

[86] 2021-04-21 (PCT/CN2021/088592)

[87] (WO2021/249031)

[30] CN (202010529961.7) 2020-06-11

[21] **3,182,053**
[13] A1

[51] **Int.Cl. G16H 20/17 (2018.01) G16H 40/67 (2018.01) G16H 50/20 (2018.01)**

[25] EN

[54] **CLOSED-LOOP DIABETES TREATMENT SYSTEM DETECTING MEAL OR MISSED BOLUS**

[54] **SYSTEME DE TRAITEMENT DU DIABETE EN BOUCLE FERMEE DETECTANT UN REPAS OU UN BOLUS MANQUE**

[72] WIKTOROWICZ, BARTHOLOMEW, US

[72] BENNETT, PAUL CURTIS, US

[72] MAZLISH, BRYAN, US

[71] BIGFOOT BIOMEDICAL, INC., US

[85] 2022-12-08

[86] 2021-06-10 (PCT/US2021/070689)

[87] (WO2021/253045)

[30] US (62/705,091) 2020-06-10

[21] **3,182,054**
[13] A1

[51] **Int.Cl. H01M 4/525 (2010.01)**

[25] EN

[54] **METHOD FOR PRODUCING POSITIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY**

[54] **PROCEDE DE PRODUCTION DE MATERIAU ACTIF D'ELECTRODE POSITIVE POUR BATTERIE SECONDAIRE A ELECTROLYTE NON AQUEUX**

[72] MASAKI, RYUTA, JP

[71] BASF TODA BATTERY MATERIALS LLC, JP

[85] 2022-12-08

[86] 2021-06-17 (PCT/JP2021/022973)

[87] (WO2021/256526)

[30] JP (2020-104550) 2020-06-17

Demandes PCT entrant en phase nationale

[21] **3,182,055**
[13] A1

[51] **Int.Cl. C12Q 1/6837 (2018.01) C12Q 1/6869 (2018.01)**
[25] EN
[54] **FLOW CELL SYSTEMS AND DEVICES**
[54] **SYSTEMES ET DISPOSITIFS DE CUVE A CIRCULATION**
[72] GUO, MINGHAO, US
[72] ZHANG, LEON ZILUN, US
[72] ZHOU, CHUNHONG, US
[72] KELLINGER, MATTHEW, US
[72] PREVITE, MICHAEL, US
[72] ARSLAN, SINAN, US
[72] HE, MOLLY, US
[72] MAH, HUIZHEN, US
[72] SUN, LEI, US
[72] KRUGLYAK, SEMYON, US
[72] SNOW, SAMANTHA, US
[72] YU, HUA, US
[71] ELEMENT BIOSCIENCES, INC., US
[85] 2022-12-08
[86] 2021-06-09 (PCT/US2021/036670)
[87] (WO2021/252671)
[30] US (63/037,558) 2020-06-10

[21] **3,182,056**
[13] A1

[51] **Int.Cl. C08G 63/668 (2006.01) C09D 167/00 (2006.01) C09D 183/04 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING COATED SUBSTRATES AND NON-AQUEOUS, CURABLE FILM-FORMING COMPOSITIONS USED THEREFOR**
[54] **PROCEDES DE PREPARATION DE SUBSTRATS REVETUS ET COMPOSITIONS FILMOGENES DURCISSABLES NON AQUEUSES S'Y RAPPORTANT**
[72] WALTERS, DAVID N., US
[72] FORTMAN, DAVID JOSEPH, US
[72] SISCO, SCOTT WILLIAM, US
[71] PPG INDUSTRIES OHIO, INC., US
[85] 2022-12-08
[86] 2021-07-01 (PCT/US2021/040131)
[87] (WO2022/006423)
[30] US (63/046,863) 2020-07-01

[21] **3,182,058**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL CABLE AND OPTICAL-CABLE MANUFACTURING METHOD**
[54] **CABLE OPTIQUE ET SON PROCEDE DE FABRICATION**
[72] SATO, HIRONORI, JP
[72] NAMAZUE, AKIRA, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2022-12-08
[86] 2021-06-15 (PCT/JP2021/022747)
[87] (WO2022/004362)
[30] JP (2020-114332) 2020-07-01

[21] **3,182,059**
[13] A1

[51] **Int.Cl. C25B 3/05 (2021.01) C25B 3/25 (2021.01)**
[25] EN
[54] **PROCESSES FOR PREPARING NOR-OPIOID COMPOUNDS AND OPIOID ANTAGONISTS BY ELECTROCHEMICAL N-DEMETHYLATION**
[54] **PROCEDES DE PREPARATION DE COMPOSES OPIOIDES NOR ET D'ANTAGONISTES OPIOIDES PAR N-DEMETHYLATION ELECTROCHIMIQUE**
[72] GLOTZ, GABRIEL, AT
[72] CANTILLO NIEVES, DAVID, AT
[72] KAPPE, CHRISTIAN OLIVER, AT
[71] RESEARCH CENTER PHARMACEUTICAL ENGINEERING GMBH, AT
[71] KARL-FRANZENS-UNIVERSITAT GRAZ, AT
[85] 2022-12-08
[86] 2021-05-10 (PCT/EP2021/062298)
[87] (WO2021/249708)
[30] DE (10 2020 115 418.6) 2020-06-10

[21] **3,182,060**
[13] A1

[51] **Int.Cl. B60K 31/00 (2006.01) B60W 40/105 (2012.01) B60W 40/02 (2006.01) B60W 40/08 (2012.01) B60W 40/12 (2012.01) B60W 50/00 (2006.01)**
[25] EN
[54] **USING ISA SYSTEM TO IMPLEMENT A SPEED POLICY IDENTIFIED BASED ON PROFILE OF A DRIVING INSTANCE**
[54] **UTILISATION D'UN SYSTEME ISA POUR METTRE EN ?UVRE UNE POLITIQUE DE VITESSE IDENTIFIEE SUR LA BASE D'UN PROFIL D'UNE INSTANCE DE CONDUITE**
[72] LEFEBVRE, GABRIEL PAQUIN, CA
[72] BASSILY, GEORGE, CA
[72] BOIVIN, MATHIEU, CA
[71] 7980302 CANADA INC., CA
[85] 2022-12-08
[86] 2020-06-11 (PCT/CA2020/050801)
[87] (WO2021/248222)

[21] **3,182,061**
[13] A1

[51] **Int.Cl. C10G 9/20 (2006.01) C10G 9/14 (2006.01) C10G 49/22 (2006.01) F17D 1/18 (2006.01)**
[25] EN
[54] **PROCESS TO TREAT HEAVY OIL OR BITUMEN OR MIXTURES OF DILUTANTS AND HEAVY OIL OR BITUMEN**
[54] **PROCEDE DE TRAITEMENT DE PETROLE LOURD OU DE BITUME OU DE MELANGES DE DILUANTS ET DE PETROLE LOURD OU DE BITUME**
[72] GATES, IAN DONALD, CA
[72] WANG, JINGYI, CA
[71] GATES, IAN DONALD, CA
[71] WANG, JINGYI, CA
[85] 2022-12-08
[86] 2021-06-29 (PCT/CA2021/050890)
[87] (WO2022/000081)
[30] US (63/045,594) 2020-06-29

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[21] **3,182,062**
[13] A1

[51] **Int.Cl. B32B 7/02 (2019.01) B32B 27/08 (2006.01) B65D 30/08 (2006.01) B65D 30/16 (2006.01) B65D 33/00 (2006.01) B65D 75/26 (2006.01)**

[25] EN

[54] **RECYCLE-READY RETORTABLE LAMINATED POLYESTER-BASED GUSSETED POUCHES**

[54] **POCHES A SOUFFLETS A BASE DE POLYESTER STRATIFIE, SOUPLES, PRETES A ETRE RECYCLEES**

[72] SAFFAR, AMIR, US

[72] TABATABAEI, SEYED HESAMODDIN, US

[72] JAGGI, MANUEL, CH

[72] HAEBERLI, ADRIAN, CH

[71] PROAMPAC HOLDINGS INC., US

[85] 2022-12-08

[86] 2021-06-04 (PCT/US2021/035899)

[87] (WO2021/257294)

[30] US (63/041,357) 2020-06-19

[30] US (63/127,925) 2020-12-18

[21] **3,182,064**
[13] A1

[51] **Int.Cl. E04H 3/08 (2006.01) A47B 41/00 (2006.01) A47B 85/00 (2006.01) A47C 13/00 (2006.01) E04B 1/343 (2006.01) E04H 1/12 (2006.01) E04H 3/10 (2006.01)**

[25] EN

[54] **OUTDOOR CLASSROOM SYSTEM AND EARLY LEARNING PODS**

[54] **SYSTEME DE SALLE DE CLASSE EXTERIEURE ET CELLULES D'APPRENTISSAGE PRECOCE**

[72] BIENENSTOCK, ADAM, CA

[71] BIENENSTOCK NATURAL PLAYGROUNDS, INC., CA

[85] 2022-12-08

[86] 2021-07-15 (PCT/CA2021/050984)

[87] (WO2022/011478)

[30] CA (3,086,851) 2020-07-15

[30] CA (3,097,171) 2020-10-27

[21] **3,182,065**
[13] A1

[51] **Int.Cl. A61L 2/04 (2006.01) B01D 53/86 (2006.01)**

[25] EN

[54] **AIR TREATMENT SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE L'AIR**

[72] NIDAM, OFER, IL

[71] DUSMIT LTD, IL

[85] 2022-12-08

[86] 2021-06-08 (PCT/IL2021/050682)

[87] (WO2021/260677)

[30] US (63/043,134) 2020-06-24

[30] US (63/043,140) 2020-06-24

[30] US (63/043,141) 2020-06-24

[30] US (63/064,973) 2020-08-13

[30] US (63/093,217) 2020-10-18

[21] **3,182,066**
[13] A1

[51] **Int.Cl. B60C 9/07 (2006.01) B29D 30/22 (2006.01) B29D 30/24 (2006.01) B60C 9/08 (2006.01)**

[25] FR

[54] **METHOD FOR SIMPLIFIED MANUFACTURE OF A TYRE WITH A SINGLE WORKING LAYER**

[54] **PROCEDE DE FABRICATION SIMPLIFIE D'UN PNEUMATIQUE A UNE SEULE COUCHE DE TRAVAIL**

[72] ROTY, GAEL, FR

[72] FERIGO, HERVE, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2022-12-08

[86] 2021-04-01 (PCT/FR2021/050581)

[87] (WO2022/008807)

[30] FR (FR2007226) 2020-07-08

[21] **3,182,067**
[13] A1

[51] **Int.Cl. A47F 3/00 (2006.01) A47F 3/04 (2006.01) E06B 3/67 (2006.01)**

[25] EN

[54] **DOOR FOR MOUNTING A REMOVABLE ELECTRONIC DISPLAY**

[54] **PORTE POUR LE MONTAGE D'UN AFFICHEUR ELECTRONIQUE AMOVIBLE**

[72] NICHOLSON, JEFFERY W., US

[72] FLORES RIVERA, JUAN FRANCISCO, US

[72] SANDNES, MARK, US

[72] BAUGH, DAVID BRIGGS, US

[72] ALMAGUER, PEDRO, US

[72] ROLEK, MATTHEW, US

[71] ANTHONY, INC., US

[85] 2022-12-08

[86] 2021-06-08 (PCT/US2021/036413)

[87] (WO2021/252497)

[30] US (63/036,802) 2020-06-09

[21] **3,182,068**
[13] A1

[51] **Int.Cl. H01M 8/00 (2016.01)**

[25] EN

[54] **PROTON FLOW REACTOR SYSTEM**

[54] **SYSTEME DE REACTEUR A FLUX DE PROTONS**

[72] ANDREWS, JOHN, AU

[72] ROSENGARTEN, GARY, AU

[72] REZAEI NIYA, SEYED MOHAMMAD, AU

[72] HEIDARI, SHAHIN, AU

[72] DU TOIT, FRANCOIS, AU

[72] SHABANI, BAHMAN, AU

[72] OJHA, RUCHIKA, AU

[72] HEIDARIAN, ALIREZA, AU

[72] MOHAMMADI, SAEED SEIF, AU

[71] ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, AU

[85] 2022-12-08

[86] 2021-06-25 (PCT/AU2021/050670)

[87] (WO2021/258157)

[30] AU (2020902128) 2020-06-25

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[21] **3,182,069**
[13] A1

[51] **Int.Cl. G16H 20/17 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **DETECTING MEAL INGESTION OR MISSED BOLUS**
[54] **DETECTION D'INGESTION DE REPAS OU DE BOLUS MANQUE**
[72] BENNETT, PAUL CURTIS, US
[71] BIGFOOT BIOMEDICAL, INC., US
[85] 2022-12-08
[86] 2021-06-10 (PCT/US2021/070690)
[87] (WO2021/253046)
[30] US (62/705,089) 2020-06-10

[21] **3,182,070**
[13] A1

[51] **Int.Cl. B29C 31/04 (2006.01) B29C 45/03 (2006.01) B29C 45/13 (2006.01)**
[25] EN
[54] **SHEAR-INDUCING INJECTION MOLDING SYSTEM**
[54] **SYSTEME DE MOULAGE PAR INJECTION GENERANT UN CISAILLEMENT**
[72] COULTER, JOHN P., US
[71] LEHIGH UNIVERSITY, US
[85] 2022-12-08
[86] 2021-10-20 (PCT/US2021/055819)
[87] (WO2022/087114)
[30] US (63/093,908) 2020-10-20
[30] US (17/342,621) 2021-06-09

[21] **3,182,072**
[13] A1

[51] **Int.Cl. A61M 21/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TREATING POST TRAUMATIC STRESS DISORDER (PTSD) AND PHOBIAS**
[54] **SYSTEME ET METHODE POUR LE TRAITEMENT D'UN TROUBLE DE STRESS POST-TRAUMATIQUE (PTSD) ET DE PHOBIES**
[72] EMMA, MATTHEW, US
[72] BONANNO, DAVID, US
[72] EMMA, ROBERT, US
[72] DENNIS, AMBER, US
[72] COX, LUCERA, US
[71] WAJI, LLC, US
[85] 2022-12-08
[86] 2021-06-14 (PCT/IB2021/055230)
[87] (WO2021/250642)
[30] US (63/038,368) 2020-06-12

[21] **3,182,074**
[13] A1

[51] **Int.Cl. A61B 17/24 (2006.01) A61F 2/00 (2006.01) A61F 2/18 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ALTERING THE SHAPE OF NASAL TISSUES**
[54] **SYSTEMES ET PROCEDES POUR MODIFIER LA FORME DE TISSUS NASAUX**
[72] KINTZING, JAMES, US
[72] MCCUTCHEON, BRADON, US
[72] NAYAK, JAYAKAR, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] THE U.S. GOVERNMENT DEPARTMENT OF VETERANS AFFAIRS, US
[71] THE MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2022-12-08
[86] 2021-06-10 (PCT/US2021/036881)
[87] (WO2021/252806)
[30] US (63/037,532) 2020-06-10
[30] US (63/110,898) 2020-11-06
[30] US (63/068,308) 2020-08-20

[21] **3,182,076**
[13] A1

[51] **Int.Cl. A01G 18/70 (2018.01) A01G 18/62 (2018.01)**
[25] EN
[54] **MUSHROOM HANDLING APPARATUS**
[54] **APPAREIL DE MANIPULATION DE CHAMPIGNONS**
[72] DOAKE, GEORGE IVAN, GB
[71] AXIS TECHNOLOGY AND DEVELOPMENT LIMITED, GB
[85] 2022-12-08
[86] 2021-06-10 (PCT/EP2021/065666)
[87] (WO2021/250185)
[30] GB (2008949.6) 2020-06-12

[21] **3,182,077**
[13] A1

[51] **Int.Cl. G06T 13/60 (2011.01)**
[25] EN
[54] **METHOD FOR GENERATING SIMULATIONS OF THIN FILM INTERFACES FOR IMPROVED ANIMATION**
[54] **PROCEDE DE GENERATION DE SIMULATIONS D'INTERFACES A FILM MINCE POUR UNE ANIMATION AMELIOREE**
[72] STOMAKHIN, ALEXEY, NZ
[71] WETA DIGITAL LIMITED, NZ
[71] STOMAKHIN, ALEXEY, NZ
[85] 2022-12-08
[86] 2021-02-26 (PCT/NZ2021/050027)
[87] (WO2021/251833)
[30] US (63/038,477) 2020-06-12
[30] US (17/184,530) 2021-02-24

[21] **3,182,082**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **ANONYMIZED INTERFACE FOR TICKET BASED AUTHENTICATION**
[54] **INTERFACE ANONYMISEE POUR AUTHENTIFICATION A BASE DE TICKET**
[72] NICHOLS, CHRISTIAN, US
[71] DRFIRST.COM, INC., US
[85] 2022-12-08
[86] 2021-06-04 (PCT/US2021/070664)
[87] (WO2021/253034)
[30] US (62/705,070) 2020-06-09
[30] US (16/948,596) 2020-09-24

[21] **3,182,083**
[13] A1

[51] **Int.Cl. G16B 20/20 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINATION OF GENE SIMILARITY**
[54] **PROCEDES ET SYSTEMES DE DETERMINATION DE LA SIMILITUDE ENTRE DES GENES**
[72] WU, BIMING, US
[72] BALASUBRAMANIAN, SUGANTHI, US
[72] REID, JEFFREY, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-12-08
[86] 2021-06-11 (PCT/US2021/036987)
[87] (WO2021/252883)
[30] US (63/038,504) 2020-06-12

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[21] **3,182,086**
[13] A1

[51] **Int.Cl. C12Q 1/6825 (2018.01) C12Q 1/6869 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR SEQUENCING USING AT LEAST ALTERING ELECTRICAL CHARACTERISTICS OF BRIDGES BETWEEN ELECTRODES**
[54] **COMPOSITIONS ET PROCEDES DE SEQUENCAGE UTILISANT AU MOINS LA MODIFICATION DE CARACTERISTIQUES ELECTRIQUES DE PONTS ENTRE DES ELECTRODES**
[72] BOHRA, HASSAN, SG
[72] TEO, YIN NAH, SG
[71] ILLUMINA SINGAPORE PTE. LTD., SG
[85] 2022-12-08
[86] 2021-06-24 (PCT/SG2021/050367)
[87] (WO2022/005395)
[30] US (63/046,663) 2020-06-30

[21] **3,182,087**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR SEQUENCING USING AT LEAST ELECTRICAL CHARACTERISTICS**
[54] **COMPOSITIONS ET PROCEDES DE SEQUENCAGE UTILISANT AU MOINS DES CARACTERISTIQUES ELECTRIQUES**
[72] MANDELL, JEFFREY, US
[72] ROBERT BACIGALUPO, MARIA CANDELARIA, US
[71] ILLUMINA, INC., US
[85] 2022-12-08
[86] 2021-06-24 (PCT/US2021/038887)
[87] (WO2022/005868)
[30] US (63/046,618) 2020-06-30

[21] **3,182,088**
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) C12Q 1/6869 (2018.01) C07D 405/04 (2006.01) C07D 405/14 (2006.01) C07D 407/04 (2006.01) C07D 409/04 (2006.01) C07D 417/04 (2006.01) C09B 62/465 (2006.01)**
[25] EN
[54] **SUBSTITUTED COUMARIN DYES AND USES AS FLUORESCENT LABELS**
[54] **COLORANTS A BASE DE COUMARINE SUBSTITUES ET LEURS UTILISATIONS EN TANT QUE MARQUEURS FLUORESCENTS**
[72] ROMANOV, NIKOLAI NIKOLAEVICH, GB
[72] CALLINGHAM, MICHAEL, GB
[72] ANASTASI, CAROLE, GB
[72] MCCAULEY, PATRICK, IE
[72] HYNES, NIALL, IE
[72] CRAKE, NATASHA, GB
[72] WU, XIAOLIN, GB
[72] LIU, XIAOHAI, GB
[71] CIPO, CA
[71] ILLUMINA CAMBRIDGE LIMITED, GB

[21] **3,182,089**
[13] A1

[51] **Int.Cl. C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/12 (2006.01) C22C 38/18 (2006.01) C22C 38/24 (2006.01) C22C 38/38 (2006.01)**
[25] EN
[54] **HOT WORK TOOL STEEL**
[54] **ACIER POUR OUTIL DE TRAVAIL A CHAUD**
[72] EJNERMARK, SEBASTIAN, SE
[72] KVARNED, ANDERS, SE
[72] OLIVER, RICHARD, SE
[71] UDDEHOLMS A.B., SE
[85] 2022-12-08
[86] 2021-06-11 (PCT/SE2021/050562)
[87] (WO2021/251892)
[30] SE (2050705-9) 2020-06-12

[21] **3,182,091**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **A METHOD TO CALIBRATE NUCLEIC ACID LIBRARY SEEDING EFFICIENCY IN FLOWCELLS**
[54] **PROCEDE D'ETALONNAGE DE L'EFFICACITE D'ENSEMENCEMENT D'UNE BIBLIOTHEQUE D'ACIDES NUCLEIQUES DANS DES CUVES A CIRCULATION**
[72] WU, YIR-SHYUAN, US
[72] GORPE-YASAR, FILIZ, US
[72] FISHER, JEFF, US
[72] BRODIN, JEFF, US
[71] ILLUMINA INC., US
[85] 2022-12-08
[86] 2021-07-02 (PCT/US2021/040245)
[87] (WO2022/006495)
[30] US (63/047,817) 2020-07-02

[21] **3,182,093**
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/4375 (2006.01) A61P 25/28 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **TRICYCLIC PSYCHOPLASTOGENS AND USES THEREOF**
[54] **PSYCHOPLASTOGENES TRICYCLIQUES ET LEURS UTILISATIONS**
[72] WAGNER, FLORENCE, US
[72] POWELL, NOEL AARON, US
[72] CHYTIL, MILAN, US
[71] DELIX THERAPEUTICS, INC., US
[85] 2022-12-08
[86] 2021-06-09 (PCT/US2021/036692)
[87] (WO2021/252691)
[30] US (63/037,470) 2020-06-10

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[21] **3,182,095**
[13] A1

[51] **Int.Cl. E05D 15/44 (2006.01)**
[25] EN
[54] **HIGH-CAPACITY MULTI-BAR LINKAGE HINGE ASSEMBLY FOR PIVOTALLY MOUNTED WINDOW VENT**

[54] **ENSEMBLE CHARNIERE DE LIAISON A BARRES MULTIPLES A HAUTE CAPACITE POUR EVENT DE FENETRE MONTE PIVOTANT**

[72] SERFASS, NATHAN C., US
[72] MCINNIS, JAMES M., US
[72] MILLIGAN, PATRICK E., US
[72] BRADY, MATTHEW N., US
[71] CALDWELL MANUFACTURING COMPANY NORTH AMERICA, LLC, US

[85] 2022-12-08
[86] 2021-06-04 (PCT/US2021/035862)
[87] (WO2021/257291)
[30] US (63/038,979) 2020-06-15

[21] **3,182,097**
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **SYSTEMS AND DEVICES FOR CONTROLLED DRUG DELIVERY**

[54] **SYSTEMES ET DISPOSITIFS POUR DISTRIBUTION DE MEDICAMENT REGULEE**

[72] MOBERG, SHELDON BLAIN, US
[72] BARKAN, MOSHE, US
[72] BECKER, JEFFREY, US
[72] PETERSON, GREGG, US
[71] BEXSON BIOMEDICAL, INC., US

[85] 2022-12-08
[86] 2021-06-11 (PCT/US2021/037114)
[87] (WO2021/252971)
[30] US (63/038,618) 2020-06-12
[30] US (63/081,085) 2020-09-21

[21] **3,182,099**
[13] A1

[51] **Int.Cl. H02S 20/00 (2014.01) H02S 20/10 (2014.01) H02S 30/10 (2014.01) H02S 40/22 (2014.01)**
[25] EN
[54] **THREE-DIMENSIONAL SOLAR ELECTRICAL GENERATION SYSTEMS AND METHODS OF DEPLOYMENT**

[54] **SYSTEMES DE GENERATION D'ENERGIE SOLAIRE EN TROIS DIMENSIONS ET PROCEDES DE DEPLOIEMENT**

[72] LEBIODA, KENNETH EUGENE, CA
[72] GOETZ, JOHN CHARLES, CA
[72] LEBIODA, CHRISTIAN BENNETT, CA
[72] LEBIODA, NOLAN KENNETH, CA
[72] HALLIDAY, CHRISTOPHER ROSS ARMSTRONG, CA

[71] STELLA POWER INC., CA
[85] 2022-12-08
[86] 2021-06-15 (PCT/CA2021/050817)
[87] (WO2021/253118)
[30] US (63/039,775) 2020-06-16

[21] **3,182,125**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING INDIVIDUALS WITH A SLEEPING DISORDER AND A DISPOSITION FOR TREATMENT**

[54] **SYSTEMES ET PROCEDES POUR IDENTIFIER DES INDIVIDUS PRESENTANT UN TROUBLE DU SOMMEIL ET UNE DISPOSITION AU TRAITEMENT**

[72] ZOTELO, NATALIE, AU
[71] RESMED LIMITED, AU

[85] 2022-12-09
[86] 2021-06-26 (PCT/IB2021/055727)
[87] (WO2022/003521)
[30] US (63/045,397) 2020-06-29

[21] **3,182,129**
[13] A1

[51] **Int.Cl. A01J 5/007 (2006.01)**
[25] EN
[54] **SYSTEM AND COMPUTER-IMPLEMENTED METHOD FOR MONITORING OPERATING PRESSURE IN A MILKING INSTALLATION, COMPUTER PROGRAM AND NON-VOLATILE DATA CARRIER**

[54] **SYSTEME ET PROCEDE INFORMATISE DE SURVEILLANCE D'UNE PRESSION DE FONCTIONNEMENT DANS UNE INSTALLATION DE TRAITE, PROGRAMME INFORMATIQUE ET SUPPORT DE DONNEES NON VOLATIL**

[72] REHNSTROM, PETER, SE
[71] DELAVAL HOLDING AB, SE

[85] 2022-12-09
[86] 2021-06-18 (PCT/SE2021/050600)
[87] (WO2021/262069)
[30] SE (2050741-4) 2020-06-22

PCT Applications Entering the National Phase

[21] **3,182,137**
[13] A1

[51] **Int.Cl. A23L 7/10 (2016.01) A23L 11/50 (2021.01) A23L 11/60 (2021.01) A23C 11/10 (2021.01) A23G 1/48 (2006.01) A23J 1/12 (2006.01) A23J 1/14 (2006.01) A23L 2/66 (2006.01)**

[25] EN

[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT COMPRISING CEREAL AND LEGUME**

[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE DE LAIT COMPRENANT UNE CEREALE ET UNE LEGUMINEUSE**

[72] SAGALOWICZ, LAURENT, CH
[72] STUDER, MARIANNE, CH
[72] ROSSI (VAUTHEY), PATRICIA, CH
[72] SOUSSAN, ELODIEAUDREY, CH
[72] SANDOZ, LAURENCE, CH
[72] MOCCAND, CYRIL, CH
[72] HAAS, KLARA, CH
[72] DE WEERT, EVELIEN, CH
[72] CHISHOLM, HELEN, CH
[72] KAMMERHOFER, JANA CHRISTINA, CH
[72] KURTZ, TERESA, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-12-09
[86] 2021-06-18 (PCT/EP2021/066717)
[87] (WO2021/259812)
[30] EP (20181846.5) 2020-06-24

[21] **3,182,141**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/018 (2006.01) A61B 1/05 (2006.01) A61B 1/31 (2006.01) A61B 1/32 (2006.01)**

[25] EN

[54] **PROCTOSCOPE**

[54] **PROCTOSCOPE**

[72] IQBAL, FAREED, GB
[72] MAHMOOD, AMINA, GB
[72] MECHERAOUI, CHOUKRI, GB
[71] SURGEASE INNOVATIONS LIMITED, GB
[85] 2022-12-09
[86] 2021-06-10 (PCT/GB2021/051450)
[87] (WO2021/250417)
[30] GB (2008829.0) 2020-06-10

[21] **3,182,153**
[13] A1

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

[25] EN

[54] **METHODS TO CONTROL THE RATE OF RELEASE OF THERAPEUTIC AGENTS FROM IMPLANTABLE DEVICES**

[54] **PROCEDES POUR REGULER LA VITESSE DE LIBERATION D'AGENTS THERAPEUTIQUES A PARTIR DE DISPOSITIFS IMPLANTABLES**

[72] OLF, RYAN, US
[72] GORDON, LYLE, US
[72] ROORDA, WOUTER, US
[71] NANO PRECISION MEDICAL, INC., US
[85] 2022-12-09
[86] 2021-07-06 (PCT/US2021/040444)
[87] (WO2022/010846)
[30] US (63/049,573) 2020-07-08

[21] **3,182,157**
[13] A1

[51] **Int.Cl. A61B 3/12 (2006.01) A61B 3/10 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR IMAGING, ANALYSING IMAGES AND CLASSIFYING PRESUMED PROTEIN DEPOSITS IN THE RETINA**

[54] **PROCEDES ET APPAREIL D'IMAGERIE, D'ANALYSE D'IMAGES ET DE CLASSIFICATION DE DEPOTS DE PROTEINES PRESUMES DANS LA RETINE**

[72] CAMPBELL, MELANIE CROMBIE WILLIAMS, CA
[72] QIU, YUNYI, CN
[72] NEATHWAY, PETER ANDREW CHARLES, CA
[71] CAMPBELL, MELANIE CROMBIE WILLIAMS, CA
[71] QIU, YUNYI, CA
[71] NEATHWAY, PETER ANDREW CHARLES, CA
[85] 2022-12-09
[86] 2021-06-14 (PCT/CA2021/050812)
[87] (WO2021/248253)
[30] US (63/038,256) 2020-06-12

[21] **3,182,163**
[13] A1

[51] **Int.Cl. G06V 20/64 (2022.01) G06T 7/70 (2017.01) G06V 10/14 (2022.01)**

[25] EN

[54] **MULTI-SOURCE 3-DIMENSIONAL DETECTION AND TRACKING**

[54] **DETECTION ET SUIVI TRIDIMENSIONNELS A SOURCES MULTIPLES**

[72] KERST, JULIA F., US
[72] ZOGAKIS, THOMAS N., US
[72] RIVERA, RACHEL A., US
[72] MARTIN, MICHAEL W., US
[72] HARRIS, JOSEPH E., US
[72] SCOTT, ADAM E., US
[72] RAY, JONATHAN E., US
[71] INNOVATIVE SIGNAL ANALYSIS, INC., US
[85] 2022-12-09
[86] 2021-06-24 (PCT/US2021/038936)
[87] (WO2022/072021)
[30] US (63/044,213) 2020-06-25

[21] **3,182,166**
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/4439 (2006.01) A61K 31/5377 (2006.01) A61K 47/04 (2006.01) A61K 47/18 (2017.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**

[25] EN

[54] **ORAL PHARMACEUTICAL COMPOSITION AND METHOD FOR PRODUCING SAME**

[54] **COMPOSITION PHARMACEUTIQUE ORALE ET SON PROCEDE DE FABRICATION**

[72] TANAKA, AKIRA, JP
[72] FUNATANI, CHIAKI, JP
[72] KURA, KENICHI, JP
[72] KIMURA, NAOKI, JP
[71] ARTHAM THERAPEUTICS INC., JP
[85] 2022-12-09
[86] 2021-07-01 (PCT/JP2021/025019)
[87] (WO2022/004859)
[30] JP (2020-114978) 2020-07-02
[30] JP (2021-011901) 2021-01-28

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,182,167 [13] A1</p> <p>[51] Int.Cl. A23G 3/36 (2006.01) A23G 3/38 (2006.01) A23G 3/42 (2006.01) A23G 3/48 (2006.01) A23G 3/52 (2006.01) A23G 3/54 (2006.01)</p> <p>[25] EN</p> <p>[54] A NON-BAKED FOOD PRODUCT COMPRISING A CHOCOLATE NOUGAT COMPOSITION</p> <p>[54] PRODUIT ALIMENTAIRE NON CUIT COMPRENANT UNE COMPOSITION DE NOUGAT DE CHOCOLAT</p> <p>[72] HUIJS, LINDA, US</p> <p>[72] DONNELLY, SUSIE, US</p> <p>[72] VAN DEURZEN, PETER, US</p> <p>[72] PRINSEN, THEODOR, US</p> <p>[72] LITTLE, RAYMOND, US</p> <p>[72] VAN HOUTUM, HANS, US</p> <p>[71] MARS, INCORPORATED, US</p> <p>[85] 2022-12-09</p> <p>[86] 2021-06-15 (PCT/US2021/037355)</p> <p>[87] (WO2021/257519)</p> <p>[30] US (63/039,718) 2020-06-16</p>	<p style="text-align: center;">[21] 3,182,170 [13] A1</p> <p>[25] EN</p> <p>[54] REGISTERING AN ENDPOINT WITH MULTIPLE HEADEND SYSTEMS</p> <p>[54] ENREGISTREMENT D'UN POINT D'EXTREMITE AVEC DE MULTIPLES SYSTEMES DE TETE DE RESEAU</p> <p>[72] DESHMUKH, PUSHPESH, US</p> <p>[71] LANDIS+GYR INNOVATIONS, INC., US</p> <p>[85] 2022-12-09</p> <p>[86] 2021-06-11 (PCT/US2021/037060)</p> <p>[87] (WO2021/257404)</p> <p>[30] US (16/902,844) 2020-06-16</p>	<p style="text-align: center;">[21] 3,182,174 [13] A1</p> <p>[51] Int.Cl. B29C 67/24 (2006.01) D04H 1/4209 (2012.01) D04H 1/4226 (2012.01)</p> <p>[25] FR</p> <p>[54] OVEN PROVIDED WITH A MEASUREMENT SYSTEM INSIDE THE FIBROUS MAT</p> <p>[54] ETUVE MUNIE D'UN SYSTEME DE MESURE A L'INTERIEUR DU MATELAS FIBREUX</p> <p>[72] DUBAELE, BRICE, FR</p> <p>[72] METROPE, CHRISTIAN, FR</p> <p>[72] BAUCHARD, JONATHAN, FR</p> <p>[72] GUYOT, PIERRICK, FR</p> <p>[71] SAINT-GOBAIN ISOVER, FR</p> <p>[85] 2022-12-09</p> <p>[86] 2021-07-27 (PCT/FR2021/051399)</p> <p>[87] (WO2022/023662)</p> <p>[30] FR (FR2008019) 2020-07-29</p>
<p style="text-align: center;">[21] 3,182,168 [13] A1</p> <p>[51] Int.Cl. A61K 31/351 (2006.01) A61K 31/4468 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01)</p> <p>[25] EN</p> <p>[54] THERAPEUTICS FOR TREATMENT OF COVID-19 SYMPTOMS</p> <p>[54] AGENTS THERAPEUTIQUES POUR LE TRAITEMENT DE SYMPTOMES DE LA COVID-19</p> <p>[72] GOMER, RICHARD H., US</p> <p>[72] PILLING, DARRELL, US</p> <p>[72] KARHADKAR, TEJAS, US</p> <p>[71] THE TEXAS A & M UNIVERSITY SYSTEM, US</p> <p>[85] 2022-12-09</p> <p>[86] 2021-06-07 (PCT/US2021/036152)</p> <p>[87] (WO2021/252347)</p> <p>[30] US (63/036,915) 2020-06-09</p>	<p style="text-align: center;">[21] 3,182,172 [13] A1</p> <p>[51] Int.Cl. G01D 3/08 (2006.01) G01D 4/00 (2006.01)</p> <p>[25] EN</p> <p>[54] DETECTING UTILITY METER ORIENTATION BASED ON A TEMPERATURE GRADIENT OF THE UTILITY METER</p> <p>[54] DETECTION D'ORIENTATION DE COMPTEUR DE SERVICE PUBLIC EN FONCTION D'UN GRADIENT DE TEMPERATURE DU COMPTEUR DE SERVICE PUBLIC</p> <p>[72] KRAUS, MATTHEW E., US</p> <p>[72] BOUDREAU, FRANK J. JR., US</p> <p>[71] LANDIS+GYR INNOVATIONS, INC., US</p> <p>[85] 2022-12-09</p> <p>[86] 2021-07-06 (PCT/US2021/040521)</p> <p>[87] (WO2022/010903)</p> <p>[30] US (16/925,927) 2020-07-10</p>	<p style="text-align: center;">[21] 3,182,175 [13] A1</p> <p>[51] Int.Cl. A01J 5/017 (2006.01)</p> <p>[25] EN</p> <p>[54] A MILKING ARRANGEMENT AND MILKING PARLOR FOR AN ANIMAL</p> <p>[54] AGENCEMENT DE TRAITE ET SALLE DE TRAITE POUR UN ANIMAL</p> <p>[72] HAMERTON, LANCE, SE</p> <p>[71] DELAVAL HOLDING AB, SE</p> <p>[85] 2022-12-09</p> <p>[86] 2021-06-14 (PCT/SE2021/050577)</p> <p>[87] (WO2021/262066)</p> <p>[30] SE (2050760-4) 2020-06-25</p>
		<p style="text-align: center;">[21] 3,182,176 [13] A1</p> <p>[51] Int.Cl. G16H 20/10 (2018.01) G16H 20/13 (2018.01) G16H 20/17 (2018.01) G16H 40/20 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01)</p> <p>[25] EN</p> <p>[54] HANDS-FREE MEDICATION TRACKING</p> <p>[54] SUIVI DE MEDICAMENT MAINS LIBRES</p> <p>[72] LANGAN, JOHN, US</p> <p>[72] CHEN, EVAN, US</p> <p>[71] CAREFUSION 303, INC., US</p> <p>[85] 2022-12-09</p> <p>[86] 2021-06-09 (PCT/US2021/036542)</p> <p>[87] (WO2021/252580)</p> <p>[30] US (63/038,054) 2020-06-11</p>

PCT Applications Entering the National Phase

[21] **3,182,178**
[13] A1

[51] **Int.Cl. C02F 1/00 (2006.01) B08B 5/02 (2006.01) B08B 9/027 (2006.01) C02F 1/52 (2006.01)**

[25] EN

[54] **COANDA EFFECT INDUCED LAMELLAE CLEANING SYSTEM FOR WASTEWATER AND DRINKING WATER TREATMENT CLARIFIER**

[54] **SYSTEME DE NETTOYAGE DE LAMELLES INDUITE PAR EFFET COANDA POUR EAUX USEES ET CLARIFICATEUR DE TRAITEMENT D'EAU POTABLE**

[72] PERIN, GUILLAUME, CA
[72] SCOTT, CHRISTIAN, CA
[72] JEUDY, GUILLAUME, CA
[72] CASPAR, MARTIN, CA
[71] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR

[85] 2022-12-09
[86] 2021-06-22 (PCT/CA2021/050848)
[87] (WO2022/011451)
[30] US (63/051,509) 2020-07-14

[21] **3,182,179**
[13] A1

[51] **Int.Cl. C07F 9/6561 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **NOVEL CRYSTALLINE FORM OF REMDESIVIR**

[54] **NOUVELLE FORME CRISTALLINE DE REMDESIVIR**

[72] SOUZA, FABIO E.S., CA
[72] STIRK, ALEXANDER J., CA
[72] REY, ALLAN W., CA
[71] APOTEX INC, CA

[85] 2022-12-09
[86] 2021-05-25 (PCT/CA2021/050702)
[87] (WO2021/248229)
[30] US (63/037,728) 2020-06-11

[21] **3,182,182**
[13] A1

[51] **Int.Cl. C07D 491/056 (2006.01) A61K 31/437 (2006.01) C07D 209/04 (2006.01) C07D 235/04 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/052 (2006.01) C07D 491/147 (2006.01)**

[25] EN

[54] **ISOTRYPTAMINE PSYCHOPLASTOGENS AND USES THEREOF**

[54] **PSYCHOPLASTOGENES D'ISOTRYPTAMINE ET LEURS UTILISATIONS**

[72] WAGNER, FLORENCE, US
[72] POWELL, NOEL AARON, US
[72] CHYTIL, MILAN, US
[72] OLSON, DAVID E., US
[71] DELIX THERAPEUTICS, INC., US

[85] 2022-12-09
[86] 2021-06-09 (PCT/US2021/036693)
[87] (WO2021/252692)
[30] US (63/037,478) 2020-06-10
[30] US (63/070,502) 2020-08-26

[21] **3,182,183**
[13] A1

[51] **Int.Cl. B60J 7/06 (2006.01)**

[25] EN

[54] **AUTOMOTIVE CARGO/TRAY COVER ASSEMBLY**

[54] **ENSEMBLE COUVERCLE DE CHARGEMENT/PLATEAU D'AUTOMOBILE**

[72] WELLS, SIMON LEE OWEN, AU
[71] RETRACT CANOPY SYSTEMS PTY LTD, AU

[85] 2022-12-09
[86] 2021-07-01 (PCT/AU2021/050708)
[87] (WO2022/000044)
[30] AU (2020902254) 2020-07-02

[21] **3,182,184**
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) C07K 14/775 (2006.01)**

[25] EN

[54] **A FUSION PROTEIN**

[54] **PROTEINE DE FUSION**

[72] MOBLI, MOHAMMADMEHDI, AU
[72] JIA, XINYING, AU
[72] CHIN, YANNI KA-YAN, AU
[72] ZHANG, ALAN HARRY, AU
[72] CRAWFORD, THEO GENE, AU
[71] THE UNIVERSITY OF QUEENSLAND, AU

[85] 2022-12-09
[86] 2021-06-09 (PCT/AU2021/050578)
[87] (WO2021/248185)
[30] AU (2020901892) 2020-06-09

[21] **3,182,185**
[13] A1

[51] **Int.Cl. F16L 55/16 (2006.01)**

[25] FR

[54] **SEALING DEVICE FOR PLUGGING A LEAK IN THE WALL OF A PIPE OR OF A TANK COMPRISING A PART FOR DRILLING AND A PART FOR TAPPING AND SEALING METHOD**

[54] **DISPOSITIF D'OBTURATION POUR COLMATER UNE FUITE DANS LA PAROI D'UNE CANALISATION OU D'UN RESERVOIR COMPRENANT UNE PARTIE POUR PERCER ET UNE PARTIE POUR TARAUDER ET PROCEDE D'OBTURATION**

[72] BOULET D'AURIA, STANISLAS, FR
[72] SLIMANI, HACEN, FR
[71] 3X ENGINEERING, MC

[85] 2022-12-09
[86] 2021-07-02 (PCT/EP2021/068339)
[87] (WO2022/003160)
[30] FR (2007060) 2020-07-03

Demandes PCT entrant en phase nationale

[21] **3,182,186**
[13] A1

[51] **Int.Cl. B64D 41/00 (2006.01) F01D 21/00 (2006.01) H02H 7/06 (2006.01) H02J 4/00 (2006.01) H02P 3/00 (2006.01) F01D 15/10 (2006.01)**

[25] EN

[54] **ELECTROMECHANICAL INSTALLATION FOR AN AIRCRAFT WITH A TURBOGENERATOR, METHOD FOR EMERGENCY SHUTDOWN OF AN AIRCRAFT TURBOGENERATOR AND CORRESPONDING COMPUTER PROGRAM**

[54] **INSTALLATION ELECTROMECANIQUE D'AERONEF AVEC TURBOGENERATEUR, PROCEDE D'ARRET D'URGENCE D'UN TURBOGENERATEUR D'AERONEF ET PROGRAMME D'ORDINATEUR CORRESPONDANT**

[72] THIRIET, ROMAIN JEAN GILBERT, FR

[72] LEMAY, DAVID BERNARD MARTIN, FR

[71] SAFRAN HELICOPTER ENGINES, FR

[85] 2022-12-09

[86] 2021-06-14 (PCT/FR2021/051055)

[87] (WO2021/255371)

[30] FR (2006328) 2020-06-17

[21] **3,182,189**
[13] A1

[51] **Int.Cl. B65B 3/02 (2006.01) B31B 70/26 (2017.01) B31B 70/84 (2017.01) B65B 29/02 (2006.01) B65B 43/02 (2006.01) B65D 75/58 (2006.01)**

[25] EN

[54] **BEVERAGE PREPARATION SYSTEM**

[54] **SYSTEME DE PREPARATION DE BOISSONS**

[72] ABRAHAM, SOPHIE, FR

[72] BONIN, MARILYNE ISABELLE, FR

[72] FIORE, GINA, CH

[72] PELLEGRINI, STEPHANE, FR

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2022-12-09

[86] 2021-07-30 (PCT/EP2021/071506)

[87] (WO2022/023578)

[30] EP (20188741.1) 2020-07-30

[30] EP (20188733.8) 2020-07-30

[30] EP (20188738.7) 2020-07-30

[21] **3,182,193**
[13] A1

[51] **Int.Cl. A01D 41/133 (2006.01) A01D 43/00 (2006.01) A01D 45/00 (2018.01) F26B 17/16 (2006.01) F26B 19/00 (2006.01)**

[25] EN

[54] **HARVESTING SYSTEM INCLUDING MODULAR UNITES**

[54] **SYSTEME DE RECOLTE COMPRENANT DES UNITES MODULAIRES**

[72] GROTH, ROBERT PAUL, US

[71] SQUARE HEAD INC., US

[85] 2022-12-09

[86] 2020-11-16 (PCT/US2020/060767)

[87] (WO2021/262221)

[30] US (16/912,650) 2020-06-25

[21] **3,182,194**
[13] A1

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

[25] EN

[54] **PSMA TARGETING UREA-BASED LIGANDS FOR PROSTATE CANCER RADIOTHERAPY AND IMAGING**

[54] **LIGANDS A BASE D'UREE CIBLANT LE PSMA POUR LA RADIOTHERAPIE ET L'IMAGERIE DU CANCER DE LA PROSTATE**

[72] KJAER, ANDREAS, DK

[72] HERTH, MATTHIAS MANFRED, SE

[72] JENSEN, ANDREAS INGEMANN, DK

[72] EDER, MATTHIAS, DE

[72] EDER, ANN-CHRISTIN, DE

[71] UNIVERSITY OF COPENHAGEN, DK

[71] DANMARKS TEKNISKE UNIVERSITET, DK

[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES OFFENTLICHEN RECHTS, DE

[71] ALBERT-LUDWIGS-UNIVERSITAT FREIBURG, DE

[85] 2022-12-09

[86] 2021-06-04 (PCT/EP2021/065056)

[87] (WO2021/245263)

[30] EP (20178179.6) 2020-06-04

[21] **3,182,195**
[13] A1

[51] **Int.Cl. B65D 75/58 (2006.01)**

[25] EN

[54] **MULTI-USE, REUSABLE, SPILL PROOF PACKAGE FOR FLUIDS WITHOUT A REMOVABLE OR SEPARABLE CLOSURE**

[54] **EMBALLAGE ANTI-GOUTTES A USAGES MULTIPLES ET REUTILISABLE POUR FLUIDES SANS FERMETURE AMOVIBLE OU SEPARABLE**

[72] PERELL, WILLIAM S., US

[72] HARRISON, CHERYL ELIZABETH, US

[71] POPPACK LLC, US

[85] 2022-12-09

[86] 2021-06-10 (PCT/US2021/036784)

[87] (WO2021/252746)

[30] US (63/038,028) 2020-06-11

[21] **3,182,196**
[13] A1

[51] **Int.Cl. A61K 31/196 (2006.01) A61K 31/573 (2006.01) A61P 27/02 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND USES IN METHOD FOR POST-OPERATIVE OCULAR CARE**

[54] **COMPOSITIONS ET UTILISATIONS DANS UN PROCEDE DE SOINS OCULAIRES POST-OPERATOIRES**

[72] SAMPIETRO, ANTHONY, US

[72] GOLDBERG, DAMIEN, US

[72] FROST, AMY, US

[72] HOLDORF, BRIAN, US

[72] MAH, FRANCIS, US

[71] OCULAR SCIENCE, INC., US

[85] 2022-12-09

[86] 2021-04-05 (PCT/US2021/025754)

[87] (WO2021/252054)

[30] US (63/037,171) 2020-06-10

PCT Applications Entering the National Phase

[21] **3,182,197**
[13] A1

[51] **Int.Cl. A61K 45/00 (2006.01) A61K 47/68 (2017.01) A61P 27/02 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **DNA STRUCTURE FOR TREATING OCULAR PATHOLOGIES**

[54] **CONSTRUCTION D'ADN POUR LE TRAITEMENT DE PATHOLOGIES OCULAIRES**

[72] BORDET, THIERRY, FR
[72] ORHAN, ELISE, FR
[72] BIGOT, KARINE, FR
[72] BUGGAGE, RONALD, FR
[71] EYEVENSY, FR
[85] 2022-12-09
[86] 2021-06-30 (PCT/EP2021/068085)
[87] (WO2022/003063)
[30] FR (FR2006898) 2020-06-30

[21] **3,182,199**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 21/25 (2006.01) G01N 21/64 (2006.01) G01N 33/50 (2006.01) G01N 35/08 (2006.01)**

[25] EN

[54] **DEVICES, METHODS, AND APPLICATIONS FOR RECIRCULATION OF FLUIDS IN MICROFLUIDIC CHANNELS**

[54] **DISPOSITIFS, PROCES ET APPLICATIONS POUR LA RECIRCULATION DE FLUIDES DANS DES CANAUX MICROFLUIDIQUES**

[72] SIMMONS, GLENNON W., US
[71] NEW YORK UNIVERSITY, US
[85] 2022-12-09
[86] 2021-06-11 (PCT/US2021/036951)
[87] (WO2021/252856)
[30] US (63/037,967) 2020-06-11

[21] **3,182,200**
[13] A1

[51] **Int.Cl. G01N 21/25 (2006.01) G01N 21/78 (2006.01) G01N 33/18 (2006.01)**

[25] EN

[54] **LINEARIZED OPTICAL SENSOR CALIBRATION FOR MEASURING CALCIUM**

[54] **ETALONNAGE DE CAPTEURS OPTIQUES LINEARISES DE MESURE DE CALCIUM**

[72] LI, HUI, US
[72] CHEN, BINGZHI, US
[72] DAVIS, BRANDON, US
[71] ECOLAB USA INC., US
[85] 2022-12-09
[86] 2021-06-30 (PCT/US2021/039830)
[87] (WO2022/006234)
[30] US (63/046,286) 2020-06-30

[21] **3,182,201**
[13] A1

[51] **Int.Cl. C08G 18/24 (2006.01) C08G 18/36 (2006.01) C08G 18/38 (2006.01) C08G 18/48 (2006.01) C08G 18/66 (2006.01) C08G 18/79 (2006.01)**

[25] EN

[54] **POLYURETHANE COMPOSITION HAVING AN ADJUSTABLE POT LIFE AND SUITABLE AS A FLOOR COATING**

[54] **COMPOSITION DE POLYURETHANE A DUREE DE VIE EN POT AJUSTABLE POUVANT ETRE UTILISEE EN TANT QUE REVETEMENT DE SOL**

[72] LEEDLE, LINDA, DE
[72] SALEWSKI, CHRISTINE, DE
[72] PUSEL, THOMAS, DE
[72] GROTZINGER, JOCHEN, DE
[72] FEILE, MARINA, DE
[71] SIKA TECHNOLOGY AG, CH
[85] 2022-12-09
[86] 2021-08-25 (PCT/EP2021/073516)
[87] (WO2022/043383)
[30] EP (20193104.5) 2020-08-27

[21] **3,182,204**
[13] A1

[51] **Int.Cl. H04N 13/00 (2018.01)**

[25] EN

[54] **SIGNALING CONSTRAINTS IN NON-SCALABLE NESTED VIDEO SYNTAX ELEMENTS**

[54] **CONTRAINTES DE SIGNALISATION DANS DES ELEMENTS DE SYNTAXE VIDEO IMBRIQUES NON EXTENSIBLES**

[72] WANG, YE-KUI, US
[71] BYTEDANCE INC., US
[85] 2022-12-09
[86] 2021-06-08 (PCT/US2021/036489)
[87] (WO2021/252545)
[30] US (63/036,808) 2020-06-09

[21] **3,182,205**
[13] A1

[51] **Int.Cl. G06Q 40/06 (2012.01) G06Q 40/08 (2012.01)**

[25] EN

[54] **FINANCIAL RISK ASSESSMENT EVALUATION DE RISQUE FINANCIER**

[72] ERDMAN, DONALD JAMES, US
[72] CULLEN, RORY THOMAS, US
[72] BELL, JOHN CLAYTON, US
[71] THE FINANCIAL RISK GROUP INC., US
[85] 2022-12-09
[86] 2021-06-15 (PCT/US2021/037408)
[87] (WO2021/257545)
[30] US (16/902,493) 2020-06-16

[21] **3,182,206**
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/02 (2006.01) C07K 14/705 (2006.01) C07K 16/44 (2006.01)**

[25] EN

[54] **ALLOGENEIC TUMOR CELL VACCINE**

[54] **VACCIN A BASE DE CELLULES TUMORALES ALLOGENIQUES**

[72] BORRIELLO, FRANK, US
[71] ALLOPLEX BIOTHERAPEUTICS, US
[85] 2022-12-09
[86] 2020-06-11 (PCT/US2020/037283)
[87] (WO2021/251975)

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[21] **3,182,207**
[13] A1

[51] **Int.Cl. A45C 5/00 (2006.01) A45C 11/00 (2006.01) A45C 13/02 (2006.01) A47B 3/10 (2006.01) A47B 21/00 (2006.01) A47B 37/00 (2006.01) G06F 1/16 (2006.01)**

[25] EN
[54] **PORTABLE OFFICE IN-A-BOX**
[54] **BUREAU-DANS-UNE-BOITE PORTABLE**

[72] SMULLEN, RICHARD ADAM, US
[72] MARGULIS, JOSE, US
[72] ZABAKHINA, ILMA, US
[71] WORKY LIFE LLC, US
[71] SMULLEN, RICHARD ADAM, US
[71] MARGULIS, JOSE, US
[71] ZABAKHINA, ILMA, US
[85] 2022-12-09
[86] 2021-06-14 (PCT/US2021/037163)
[87] (WO2021/257422)
[30] US (63/039,451) 2020-06-15
[30] US (17/000,361) 2020-08-23

[21] **3,182,209**
[13] A1

[51] **Int.Cl. H01M 50/50 (2021.01) H01R 4/28 (2006.01)**

[25] EN
[54] **STORAGE BATTERY BOLT TERMINAL**
[54] **BATTERIE DE STOCKAGE ET BORNE DE BOULON**

[72] WANG, CHAO, CN
[71] CHANGCHUN JETTY AUTOMOTIVE PARTS CORPORATION, CN
[85] 2022-12-09
[86] 2021-06-25 (PCT/CN2021/102279)
[87] (WO2022/022184)
[30] CN (202021561663.8) 2020-07-31

[21] **3,182,210**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12N 15/113 (2010.01) A61K 38/05 (2006.01) A61K 38/06 (2006.01) A61K 38/17 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) C07K 16/28 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING CORONAVIRUS INFECTIOUS DISEASE**
[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT D'UNE MALADIE INFECTIEUSE A CORONAVIRUS**

[72] CHATILA, TALAL, US
[72] HARB, HANI, US
[72] BENAMAR, MEHDI, US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2022-12-09
[86] 2021-06-11 (PCT/US2021/037009)
[87] (WO2021/252896)
[30] US (63/038,186) 2020-06-12

[21] **3,182,213**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 11/00 (2006.01) C12N 7/00 (2006.01) G01N 33/68 (2006.01)**

[25] EN
[54] **THERAPEUTICS FOR TREATMENT OF COVID-19 SYMPTOMS**
[54] **AGENTS THERAPEUTIQUES POUR LE TRAITEMENT DE SYMPTOMES DE LA COVID-19**

[72] GOMER, RICHARD H., US
[72] PILLING, DARRELL, US
[72] KARHADKAR, TEJAS, US
[71] THE TEXAS A&M UNIVERSITY SYSTEM, US
[85] 2022-12-09
[86] 2021-06-07 (PCT/US2021/036147)
[87] (WO2021/252344)
[30] US (63/036,907) 2020-06-09

[21] **3,182,216**
[13] A1

[51] **Int.Cl. H04Q 1/02 (2006.01)**

[25] EN
[54] **LOCALIZED INTELLIGENT EDGE FOR FIBER DISTRIBUTION SOLUTIONS**
[54] **BORD INTELLIGENT LOCALISE POUR SOLUTIONS DE DISTRIBUTION DE FIBRES**

[72] ADAM, SEAN PATRICK, US
[71] AFL TELECOMMUNICATIONS LLC, US
[85] 2022-12-09
[86] 2021-06-08 (PCT/US2021/036385)
[87] (WO2021/252479)
[30] US (63/036,572) 2020-06-09

[21] **3,182,217**
[13] A1

[51] **Int.Cl. G01S 19/11 (2010.01) G01S 19/21 (2010.01) G06F 9/38 (2018.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR GLOBAL SYNCHRONIZATION OF TIME IN A DISTRIBUTED PROCESSING ENVIRONMENT**
[54] **SYSTEME ET PROCEDE DE SYNCHRONISATION GLOBALE DU TEMPS DANS UN ENVIRONNEMENT A TRAITEMENT REPARTI**

[72] BISMUTH, ROBERT, US
[72] STENGLE, MIKE, CH
[71] FERMAT INTERNATIONAL, INC., US
[85] 2022-12-09
[86] 2021-07-22 (PCT/US2021/042690)
[87] (WO2022/035575)
[30] US (63/065,011) 2020-08-13

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[21] **3,182,218**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING DIGITAL AUTHENTICATION AS A SERVICE**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR UN SERVICE D'AUTHENTIFICATION NUMERIQUE**
[72] MIAH, MIZAN, US
[72] BANGA, JASBIR, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2022-12-09
[86] 2021-06-10 (PCT/US2021/036853)
[87] (WO2021/252787)
[30] US (63/037,653) 2020-06-11

[21] **3,182,222**
[13] A1

[51] **Int.Cl. A41D 13/005 (2006.01) A47G 9/02 (2006.01) A47G 9/08 (2006.01) A61B 5/00 (2006.01) A61B 5/01 (2006.01)**
[25] EN
[54] **ARTICLES WITH EMBEDDED SENSORS**
[54] **ARTICLES AVEC CAPTEURS INTEGRES**
[72] MAKOWSKY, JOHN, CA
[72] LY, WILLIAM, CA
[72] MURNAGHAN, CHANTELE DAWN, CA
[72] WALLER, THOMAS MCCARTHY, CA
[72] LAI, ADRIAN KA MING, CA
[71] LULULEMON ATHLETICA CANADA INC., CA
[85] 2022-12-09
[86] 2021-06-18 (PCT/CA2021/050841)
[87] (WO2021/253137)
[30] US (63/041,444) 2020-06-19

[21] **3,182,223**
[13] A1

[51] **Int.Cl. B60D 1/30 (2006.01)**
[25] EN
[54] **FORCE AND POSITION SENSING SYSTEM FOR A TOWED VEHICLE**
[54] **SYSTEME DE DETECTION DE FORCE ET DE POSITION POUR VEHICULE REMORQUE**
[72] HUETT, ANDREW, AU
[72] SILKE, NEIL, AU
[71] OZX IP PTY LTD, AU
[85] 2022-12-09
[86] 2021-06-10 (PCT/AU2021/000041)
[87] (WO2021/248175)
[30] AU (2020901908) 2020-06-10

[21] **3,182,224**
[13] A1

[51] **Int.Cl. C02F 1/52 (2006.01) C02F 1/76 (2006.01) C02F 1/56 (2006.01)**
[25] EN
[54] **USE OF CHLORAMINES AND CATIONIC POLYMERS IN WATER TREATMENT**
[54] **UTILISATION DE CHLORAMINES ET DE POLYMERES CATIONIQUES DANS LE TRAITEMENT DES EAUX**
[72] CALL, FRED, US
[71] BUCKMAN LABORATORIES INTERNATIONAL, INC., US
[85] 2022-12-09
[86] 2021-06-10 (PCT/US2021/036704)
[87] (WO2021/252700)
[30] US (63/038,367) 2020-06-12

[21] **3,182,225**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **ONLINE SOFTWARE PLATFORM (OSP) GENERATING RECOMMENDATION OF POSSIBLE DIFFERENT PRODUCTION OF RESOURCES FOR IMPENDING RELATIONSHIP INSTANCE**
[54] **PLATE-FORME LOGICIELLE EN LIGNE (OSP) GENERANT UNE RECOMMANDATION DE PRODUCTION DIFFERENTE POSSIBLE DE RESSOURCES POUR UNE INSTANCE DE RELATION IMMINENTE**
[72] AGRAWAL, NAVEEN KUMAR, US
[72] SANFORD, PAUL R. II, US
[71] AVALARA, INC., US
[85] 2022-12-09
[86] 2021-07-01 (PCT/US2021/040188)
[87] (WO2022/006460)
[30] US (63/047,849) 2020-07-02

[21] **3,182,226**
[13] A1

[51] **Int.Cl. E21B 17/10 (2006.01) E21B 17/22 (2006.01)**
[25] EN
[54] **RUGGEDIZED BIDIRECTIONAL CUTTING SYSTEM**
[54] **SYSTEME DE COUPE BIDIRECTIONNEL RENFORCE**
[72] SMITH, LEE MORGAN, US
[71] FRANK'S INTERNATIONAL LLC., US
[85] 2022-12-09
[86] 2021-06-08 (PCT/US2021/036404)
[87] (WO2021/252492)
[30] US (16/899,451) 2020-06-11

Demandes PCT entrant en phase nationale

[21] **3,182,230**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **SMART ALERTING OF ENTITY OF ONLINE SOFTWARE PLATFORM (OSP) ABOUT THEIR USER PROFILE AND CUSTOM RULES BEING IMPACTED BY UNDERLYING CHANGES IN DATA THAT THE OSP USES TO PROCESS THE ENTITY DATA**

[54] **ALERTE INTELLIGENTE D'ENTITE DE PLATEFORME LOGICIELLE EN LIGNE (OSP) CONCERNANT LE FAIT QUE SON PROFIL D'UTILISATEUR ET SES REGLES PERSONNALISEES SONT IMPACTES PAR DES CHANGEMENTS SOUS-JACENTS DANS DES DONNEES QUE L'OSP UTILISE POUR TRAITER LES DONNEES D'ENTIT**

[72] LINGERFELT, CHARLES DAVID, US
[72] NASH, NIKKI, US
[72] KIM, STEFAN, US
[71] AVALARA, INC., US
[85] 2022-12-09
[86] 2021-07-01 (PCT/US2021/040187)
[87] (WO2022/006459)
[30] US (63/047,876) 2020-07-02

[21] **3,182,232**
[13] A1

[51] **Int.Cl. E21B 29/02 (2006.01) E21B 23/04 (2006.01)**
[25] EN
[54] **THERMITE METHOD OF ABANDONING A WELL**

[54] **PROCEDE D'ABANDON DE Puits FAISANT APPEL A DE LA THERMITE**

[72] HEAD, PHILIP, GB
[71] PANDA-SEAL INTERNATIONAL LTD, BZ
[85] 2022-12-09
[86] 2021-06-09 (PCT/GB2021/051431)
[87] (WO2021/250401)
[30] GB (2008656.7) 2020-06-09
[30] GB (2008658.3) 2020-06-09
[30] GB (2011982.2) 2020-07-31

[21] **3,182,233**
[13] A1

[51] **Int.Cl. C07K 14/48 (2006.01) A61P 17/02 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **NGF VARIANTS, PRODUCTION, COMPOSITIONS, AND THERAPEUTIC USES**

[54] **VARIANTS DE NGF, PRODUCTION, COMPOSITIONS ET UTILISATIONS THERAPEUTIQUES**

[72] CHEN, RIDONG, US
[72] JEONG, SOON SEOG, US
[71] HUMAN CELL CO., US
[85] 2022-12-09
[86] 2021-07-27 (PCT/US2021/043316)
[87] (WO2022/026468)
[30] US (63/056,838) 2020-07-27

[21] **3,182,237**
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 33/12 (2006.01) E21B 36/00 (2006.01) E21B 36/04 (2006.01)**
[25] EN
[54] **BISMUTH METHOD OF ABANDONING A WELL**

[54] **PROCEDE AU BISMUTH POUR L'ABANDON D'UN Puits**

[72] HEAD, PHILIP, GB
[71] PANDA-SEAL INTERNATIONAL LTD, BZ
[85] 2022-12-09
[86] 2021-06-09 (PCT/GB2021/051434)
[87] (WO2021/250404)
[30] GB (2008660.9) 2020-06-09
[30] GB (2015348.2) 2020-09-28

[21] **3,182,238**
[13] A1

[51] **Int.Cl. F16K 11/16 (2006.01) F16K 11/07 (2006.01) F16K 11/22 (2006.01)**
[25] EN
[54] **VALVE DEVICE**

[54] **SCHNEIDER, WOLFGANG FRIEDRICH WILHELM, CH**

[72] TANNER, ROGER DANIEL, CH
[71] BIERI HYDRAULIK AG, CH
[85] 2022-12-09
[86] 2021-06-11 (PCT/EP2021/065746)
[87] (WO2021/259667)
[30] DE (10 2020 003 751.8) 2020-06-23

[21] **3,182,240**
[13] A1

[51] **Int.Cl. A61B 5/398 (2021.01) G16H 50/20 (2018.01) G16H 50/50 (2018.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COLLECTING RETINAL SIGNAL DATA AND REMOVING ARTIFACTS**

[54] **SYSTEMES ET PROCEDES POUR LA COLLECTE DE DONNEES DE SIGNAL RETINIEN ET L'ELIMINATION D'ARTEFACTS**

[72] HARITON, CLAUDE, CA
[71] DIAMENTIS INC., CA
[85] 2022-12-09
[86] 2021-06-11 (PCT/CA2021/050796)
[87] (WO2021/248248)
[30] US (63/038,257) 2020-06-12
[30] US (63/149,508) 2021-02-15
[30] CA (PCT/CA2021/050390) 2021-03-25
[30] US (17/212,410) 2021-03-25

[21] **3,182,241**
[13] A1

[51] **Int.Cl. G05B 19/418 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **COLLISION DETECTION AND AVOIDANCE INSIDE A MINE**

[54] **DETECTION ET EVITEMENT DE COLLISION A L'INTERIEUR D'UNE MINE**

[72] MANNONEN, PETRI, FI
[72] MARTIKAINEN, PEKKA, FI
[72] MURPHY, PATRICK, FI
[72] CERVINKA, ALEXANDRE, CA
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[71] NEWTRAX TECHNOLOGIES INC., CA
[85] 2022-12-09
[86] 2021-06-30 (PCT/EP2021/068088)
[87] (WO2022/003064)
[30] EP (20183073.4) 2020-06-30
[30] US (63/046,056) 2020-06-30

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[21] **3,182,243**
[13] A1

[51] **Int.Cl. C07D 217/24 (2006.01) A61K 31/4184 (2006.01) A61P 25/28 (2006.01) C07D 235/26 (2006.01) C07D 277/68 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **NOVEL FUSED-HETEROCYCLYL-CARBONOHYDRAZONOYL DICYANIDE COMPOUNDS AND USE THEREOF**

[54] **NOUVEAU COMPOSE HETEROCYCLIQUE FUSIONNE DE DICYANURE DE CARBONOHYDRAZONOYLE ET SON UTILISATION**

[72] PAE, AE NIM, KR
[72] KIM, YUN KYUNG, KR
[72] LIM, SANG MIN, KR
[72] LIM, SUNGSU, KR
[72] LEE, HAEUN, KR
[72] SON, WOO SEUNG, KR
[72] LEE, HYE YEON, KR
[71] KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY, KR
[85] 2022-12-09
[86] 2021-06-18 (PCT/KR2021/007691)
[87] (WO2021/256899)
[30] KR (10-2020-0075041) 2020-06-19

[21] **3,182,245**
[13] A1

[51] **Int.Cl. A61K 31/4184 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING BENZIMIDAZOLE DERIVATIVE COMPOUND**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN COMPOSE DERIVE DE BENZIMIDAZOLE**

[72] CHEON, JAE HEE, KR
[72] KIM, SEUNG WON, KR
[72] SON, MI JEONG, KR
[72] PARK, I SEUL, KR
[72] KIM, DONGKYU, KR
[72] KIM, BONG TAE, KR
[72] KIM, EUN JI, KR
[72] HAN, JAE YONG, KR
[71] HK INNO.N CORPORATION, KR
[85] 2022-12-09
[86] 2020-10-30 (PCT/KR2020/015099)
[87] (WO2021/251565)
[30] KR (10-2020-0071909) 2020-06-12

[21] **3,182,246**
[13] A1

[51] **Int.Cl. F16B 43/00 (2006.01) F16L 33/035 (2006.01) H02G 3/08 (2006.01) H02G 15/00 (2006.01)**

[25] EN

[54] **UNITARY PIECE DUAL LOCK SPLIT WASHER**

[54] **RONDELLE FENDUE A DOUBLE VERROUILLAGE EN UNE SEULE PIECE**

[72] BYRNE, TIMOTHY ADAM, AU
[72] SMITH, HENRY, AU
[71] WOODSIDE ENERGY TECHNOLOGIES PTY LTD, AU
[85] 2022-12-09
[86] 2021-06-15 (PCT/AU2021/050610)
[87] (WO2021/253074)
[30] AU (2020901978) 2020-06-15

[21] **3,182,251**
[13] A1

[51] **Int.Cl. G07B 15/02 (2011.01) G08G 1/14 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DYNAMIC MOBILE DATA COMMUNICATION**

[54] **PROCEDE ET SYSTEME DE COMMUNICATION DYNAMIQUE DE DONNEES MOBILES**

[72] SEN, SOURABH, US
[72] QUINTANA, BEN, US
[71] SPACES OPERATIONS, LLC, US
[85] 2022-12-09
[86] 2021-06-10 (PCT/IB2021/055099)
[87] (WO2021/250601)
[30] US (16/897,649) 2020-06-10

[21] **3,182,253**
[13] A1

[51] **Int.Cl. C09B 57/02 (2006.01) C12Q 1/686 (2018.01) C07H 19/10 (2006.01) C07H 19/14 (2006.01) C09B 62/00 (2006.01)**

[25] EN

[54] **ALKYLPYRIDINIUM COUMARIN DYES AND USES IN SEQUENCING APPLICATIONS**

[54] **COLORANTS A BASE DE COUMARINE A ALKYLPYRIDINIUM ET LEURS UTILISATIONS DANS DES APPLICATIONS DE SEQUENCAGE**

[72] CRESSINA, ELENA, GB
[72] FRANCAIS, ANTOINE, GB
[72] LIU, XIAOHAI, GB
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2022-12-09
[86] 2021-12-16 (PCT/GB2021/053343)
[87] (WO2022/129930)
[30] US (63/127,044) 2020-12-17

[21] **3,182,256**
[13] A1

[51] **Int.Cl. B65G 59/10 (2006.01) B64F 1/36 (2017.01)**

[25] EN

[54] **TRAY RETURN MODULE FOR AN INSPECTION FACILITY, AND INSPECTION FACILITY COMPRISING AT LEAST ONE SUCH MODULE**

[54] **MODULE DE RENVOI DE PLATEAU POUR UNE INSTALLATION D'INSPECTION, ET INSTALLATION D'INSPECTION COMPRENANT AU MOINS UN TEL MODULE**

[72] DOWE, ANDY, GB
[71] SELFCAIR UK LTD, GB
[85] 2022-12-09
[86] 2021-06-30 (PCT/EP2021/068091)
[87] (WO2022/008327)
[30] EP (20184919.7) 2020-07-09

Demandes PCT entrant en phase nationale

[21] **3,182,258**
[13] A1

[51] **Int.Cl. A63B 6/00 (2006.01) A01N 25/34 (2006.01) A01N 63/00 (2020.01) A01N 65/00 (2009.01) A01P 1/00 (2006.01) A61K 35/66 (2015.01) A61P 43/00 (2006.01)**

[25] EN
[54] **PRO-MICROBIAL SURFACE**
[54] **SURFACE PRO-MICROBIENNE**
[72] WAN, LYNN YUQIN, CA
[72] GATHERCOLE, ROBERT JOHN, CA
[72] MCGEE, TIMOTHY RYAN, CA
[71] LULULEMON ATHLETICA CANADA INC., CA
[85] 2022-12-09
[86] 2021-06-23 (PCT/CA2021/050863)
[87] (WO2021/258205)
[30] US (63/042,820) 2020-06-23

[21] **3,182,259**
[13] A1

[25] EN
[54] **SECURE COMMUNICATION METHOD, RELATED APPARATUS, AND SYSTEM**
[54] **PROCEDE DE COMMUNICATION SECURISEE, APPAREIL ASSOCIE, ET SYSTEME**
[72] SHAO, GUOQIANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-12-09
[86] 2021-06-10 (PCT/CN2021/099508)
[87] (WO2021/249512)
[30] CN (202010537382.7) 2020-06-12

[21] **3,182,263**
[13] A1

[51] **Int.Cl. E04H 15/46 (2006.01)**

[25] EN
[54] **COLLAPSIBLE CANOPY**
[54] **TENTE PLIABLE**
[72] YUAN, CHUNLIANG, CN
[72] YANG, SHENGYONG, CN
[71] ZHEJIANG HUIGUAN LEISURE PRODUCTS CO., LTD., CN
[85] 2022-12-09
[86] 2021-06-10 (PCT/CN2021/099395)
[87] (WO2021/249483)
[30] CN (202021090731.7) 2020-06-12

[21] **3,182,264**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 50/00 (2012.01)**

[25] EN
[54] **EVENT MODEL TRAINING USING IN SITU DATA**
[54] **ENTRAINEMENT DE MODELE D'EVENEMENTS A L'AIDE DE DONNEES IN SITU**
[72] CERRAHOGLU, CAGRI, GB
[72] THIRUVENKATANATHAN, PRADYUMNA, GB
[71] LYTT LIMITED, GB
[85] 2022-12-09
[86] 2020-06-18 (PCT/EP2020/067044)
[87] (WO2021/254632)

[21] **3,182,278**
[13] A1

[51] **Int.Cl. C05G 3/90 (2020.01) C05G 5/20 (2020.01) C08F 222/06 (2006.01)**

[25] EN
[54] **FORMULATION SYSTEM FOR COMPOSITIONS FOR ENHANCING NITROGEN STABILIZERS**
[54] **SYSTEME DE FORMULATION POUR COMPOSITIONS DESTINEES A AMELIORER DES STABILISATEURS D'AZOTE**
[72] MUNION, ROBERT, US
[72] QIN, KUIDE, US
[71] VERDESIAN LIFE SCIENCES U.S., LLC, US
[71] HOCKING INTERNATIONAL LABS, LLC, US
[85] 2022-12-12
[86] 2021-06-15 (PCT/US2021/037427)
[87] (WO2021/257560)
[30] US (63/039,562) 2020-06-16

[21] **3,182,284**
[13] A1

[51] **Int.Cl. G08G 1/01 (2006.01) G08G 1/017 (2006.01) G08G 1/04 (2006.01) G08G 1/0967 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR INTERACTIVE VEHICLE TRANSPORT NETWORKS**
[54] **SYSTEMES ET PROCEDES POUR RESEAUX DE TRANSPORT DE VEHICULES INTERACTIFS**
[72] GARDNER, DAVID, GB
[72] BRADLEY, ANDREW, GB
[71] I R KINETICS LIMITED, GB
[85] 2022-12-12
[86] 2021-06-29 (PCT/GB2021/051647)
[87] (WO2022/003343)
[30] GB (2009916.4) 2020-06-29
[30] GB (2015236.9) 2020-09-25
[30] GB (2016886.0) 2020-10-23

[21] **3,182,288**
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) C07D 457/14 (2006.01) C07H 21/00 (2006.01) C09B 57/00 (2006.01) G01N 33/50 (2006.01)**

[25] EN
[54] **LONG STOKES SHIFT CHROMENOQUINOLINE DYES AND USES IN SEQUENCING APPLICATIONS**
[54] **COLORANTS DE CHROMENOQUINOLINE A DEPLACEMENT DE STOKES LONG ET LEURS UTILISATIONS DANS DES APPLICATIONS DE SEQUENCAGE**
[72] CRESSINA, ELENA, GB
[72] FRANCAIS, ANTOINE, GB
[72] LIU, XIAOHAI, GB
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2022-12-12
[86] 2021-12-16 (PCT/EP2021/086344)
[87] (WO2022/129437)
[30] US (63/127,061) 2020-12-17

PCT Applications Entering the National Phase

[21] **3,182,291**
[13] A1

[51] **Int.Cl. G01N 27/414 (2006.01)**
[25] EN
[54] **DEVICES WITH FIELD EFFECT TRANSISTORS**
[54] **DISPOSITIFS A TRANSISTORS A EFFET DE CHAMP**
[72] BOYANOV, BOYAN, US
[72] OTTO, RICO, US
[72] MANDELL, JEFFREY G., US
[71] ILLUMINA, INC., US
[85] 2022-12-12
[86] 2021-06-18 (PCT/US2021/038125)
[87] (WO2022/005780)
[30] US (63/047,743) 2020-07-02

[21] **3,182,294**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **NUCLEIC ACID CAPTURE, CONCENTRATION, AND PURIFICATION**
[54] **CAPTURE, CONCENTRATION ET PURIFICATION D'ACIDE NUCLEIQUE**
[72] RAMIREZ, SEAN M., US
[72] PRABHU, ANMIV, US
[72] PANTOJA, RIGO, US
[72] HIGGINS, MICHELLE, US
[71] ILLUMINA, INC., US
[85] 2022-12-12
[86] 2021-06-25 (PCT/US2021/039123)
[87] (WO2022/005900)
[30] US (63/047,103) 2020-07-01
[30] NL (2026080) 2020-07-17

[21] **3,182,296**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR AMPLIFYING POLYNUCLEOTIDES**
[54] **COMPOSITIONS ET METHODES D'AMPLIFICATION DE POLYNUCLEOTIDES**
[72] FISHER, JEFFREY, US
[72] BETLEY, JASON, GB
[71] ILLUMINA, INC., US
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2022-12-12
[86] 2021-08-27 (PCT/US2021/048064)
[87] (WO2022/055729)
[30] US (63/077,857) 2020-09-14

[21] **3,182,300**
[13] A1

[25] EN
[54] **INFORMATION TRANSMISSION METHOD AND APPARATUS, RELATED DEVICE AND STORAGE DEVICE**
[54] **PROCEDE DE TRANSMISSION D'INFORMATIONS, APPAREIL, DISPOSITIF ASSOCIE ET SUPPORT DE STOCKAGE**
[72] WANG, FEI, CN
[72] WANG, DAPENG, CN
[72] LI, YAN, CN
[72] LI, NAN, CN
[72] LIU, GUANGYI, CN
[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN
[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN
[85] 2022-12-12
[86] 2021-06-16 (PCT/CN2021/100275)
[87] (WO2021/254365)
[30] CN (202010550868.4) 2020-06-16

[21] **3,182,301**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) B01L 3/00 (2006.01) C12Q 1/68 (2018.01) G01N 21/05 (2006.01)**
[25] EN
[54] **METHODS FOR MAKING FLOW CELLS**
[54] **PROCEDES DE FABRICATION DE CELLULES D'ECOULEMENT**
[72] KODIRA CARIAPPA, BRINDA, US
[72] FISHER, JEFFREY S., US
[72] HONG, SAHNGKI, US
[72] KRAFT, LEWIS J., US
[72] MATHER, BRIAN D., US
[72] MONTANO-MACHADO, VANESSA, US
[71] ILLUMINA, INC., US
[85] 2022-12-12
[86] 2021-09-27 (PCT/US2021/052178)
[87] (WO2022/072274)
[30] US (63/084,983) 2020-09-29

[21] **3,182,305**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **BASE-MODIFIED NUCLEOTIDES AS SUBSTRATES FOR TDT-BASED ENZYMATIC NUCLEIC ACID**
[54] **NUCLEOTIDES MODIFIES PAR UNE BASE EN TANT QUE SUBSTRATS POUR ACIDE NUCLEIQUE ENZYMATIQUE A BASE DE TDT**
[72] EE, PIN KOON, SG
[72] TEO, YIN NAH, SG
[72] CHIBA, SHUNSUKE, SG
[71] ILLUMINA SINGAPORE PTE LTD, SG
[71] NANYANG TECHNOLOGICAL UNIVERSITY, SG
[85] 2022-12-12
[86] 2021-07-20 (PCT/SG2021/050425)
[87] (WO2022/019836)
[30] US (63/054,766) 2020-07-21

[21] **3,182,307**
[13] A1

[51] **Int.Cl. A23G 1/46 (2006.01) A23G 1/48 (2006.01) A23G 1/52 (2006.01) A23G 1/56 (2006.01)**
[25] EN
[54] **FREEZE DRIED, SOLUBLE THREE-DIMENSIONAL SHAPE COMPRISING COCOA**
[54] **FORME TRIDIMENSIONNELLE SOLUBLE LYOPHILISEE COMPRENANT DU CACAO**
[72] COTARD, AURELIEN, CH
[72] MAGEL, LILIAN K., CH
[72] GLERON, MARIE-AMELIE, CH
[72] IBRAHIM, ABDULAZIZ HASSAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-12-12
[86] 2021-07-06 (PCT/EP2021/068664)
[87] (WO2022/008512)
[30] EP (20184142.6) 2020-07-06

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[21] **3,182,308**
[13] A1

[51] **Int.Cl. A61M 5/31 (2006.01) A61M 5/32 (2006.01) A61M 5/34 (2006.01) A61M 5/42 (2006.01) A61M 5/46 (2006.01)**

[25] EN
[54] **ADAPTER AND INJECTION SYRINGE**
[54] **ADAPTATEUR ET SERINGUE D'INJECTION**

[72] HANG, TIANQI, US
[72] TAM, ELAINE, US
[72] BUIRKLIE, TIMOTHY, US
[72] MASOTTA, AMANDA, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-12-12
[86] 2021-06-18 (PCT/US2021/038100)
[87] (WO2021/262550)
[30] US (63/042,495) 2020-06-22

[21] **3,182,311**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR NUCLEIC ACID SEQUENCING**
[54] **PROCEDES ET COMPOSITIONS POUR LE SEQUENCAGE D'ACIDES NUCLEIQUES**

[72] WU, XIAOLIN, GB
[72] ANASTASI, CAROLE, GB
[72] EVANS, GERAINT, GB
[72] LIU, XIAOHAI, GB
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2022-12-12
[86] 2021-12-21 (PCT/EP2021/087044)
[87] (WO2022/136402)
[30] US (63/129,137) 2020-12-22

[21] **3,182,313**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/86 (2006.01) C12N 15/87 (2006.01)**

[25] EN
[54] **GENE THERAPY EXPRESSION SYSTEM ALLOWING AN ADEQUATE EXPRESSION IN THE MUSCLES AND IN THE HEART OF SGCG**
[54] **SYSTEME D'EXPRESSION DE THERAPIE GENIQUE PERMETTANT UNE EXPRESSION ADEQUATE DANS LES MUSCLES ET DANS LE C?UR DE SGCG**

[72] RICHARD, ISABELLE, FR
[72] POUPIOT, JEROME, 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] 2022-12-12
[86] 2021-06-18 (PCT/EP2021/066626)
[87] (WO2021/255245)
[30] EP (20315308.5) 2020-06-19

[21] **3,182,321**
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01) G16B 20/00 (2019.01) G16B 30/00 (2019.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MULTIMODAL ANALYSIS OF CIRCULATING TUMOR NUCLEIC ACID MOLECULES**
[54] **ANALYSE MULTIMODALE DE MOLECULES D'ACIDE NUCLEIQUE TUMORALES CIRCULANTES**

[72] BRATMAN, SCOTT, CA
[72] BURGNER, JUSTIN MATTHEW, CA
[72] DINIZ DE CARVALHO, DANIEL, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2022-12-12
[86] 2021-06-18 (PCT/CA2021/050842)
[87] (WO2021/253138)
[30] US (63/041,151) 2020-06-19

[21] **3,182,325**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 47/54 (2017.01)**

[25] EN
[54] **CEREBLON BINDING COMPOUNDS, COMPOSITIONS THEREOF, AND METHODS OF TREATMENT THEREWITH**
[54] **COMPOSES DE LIAISON AU CEREBLON, COMPOSITIONS DE CEUX-CI ET PROCEDES DE TRAITEMENT AVEC CEUX-CI**

[72] ALEXANDER, MATTHEW D., US
[72] CORREA, MATTHEW D., US
[72] DALVIE, DEEPAK, US
[72] GRANT, VIRGINIA HEATHER SHARRON, US
[72] HANSEN, JOSHUA, US
[72] HARRIS, III ROY L., US
[72] HORN, EVAN J., US
[72] HUANG, DEHUA, US
[72] MAYNE, CHRISTOPHER, US
[72] NORRIS, STEPHEN, US
[72] PLANTEVIN-KRENITSKY, VERONIQUE, US
[72] SAPIENZA, JOHN J., US
[72] TEHRANI, LIDA, US
[72] WHITEFIELD, BRANDON W., US
[71] CELGENE CORPORATION, US
[85] 2022-12-12
[86] 2021-06-23 (PCT/US2021/038618)
[87] (WO2021/262810)
[30] US (63/043,555) 2020-06-24

[21] **3,182,326**
[13] A1

[51] **Int.Cl. F03G 7/06 (2006.01) G01N 35/10 (2006.01)**

[25] EN
[54] **ACTUATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'ACTIONNEMENT**

[72] SCHOCH, RETO, US
[72] ZHOU, XUANCE, US
[72] KHURANA, TARUN, US
[72] JAIN, CHETANYA, US
[72] SUEMATSU, GREGORY, US
[71] ILLUMINA, INC., US
[85] 2022-12-12
[86] 2021-11-11 (PCT/US2021/058914)
[87] (WO2022/108813)
[30] US (63/116,765) 2020-11-20

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[21] **3,182,330**
[13] A1

[51] **Int.Cl. C12N 1/14 (2006.01) C12N 1/38 (2006.01) C12N 9/24 (2006.01) C12N 15/04 (2006.01) C12P 7/10 (2006.01) C12P 19/14 (2006.01) C12P 21/02 (2006.01)**

[25] FR

[54] **METHOD OF PRODUCING PROTEINS USING A TRICHODERMA FUNGUS STRAIN IN WHICH THE CEL1A GENE IS INVALIDATED**

[54] **PROCEDE DE PRODUCTION DE PROTEINES PAR UNE SOUCHE DE CHAMPIGNON TRICHODERMA DANS LAQUELLE LE GENE CEL1 A EST INVALIDE**

[72] BIDARD-MICHELOT, FREDERIQUE, FR

[72] GRANDPERRET, VINCENT, FR

[72] COHEN, CELINE, FR

[72] JOURDIER, ETIENNE, FR

[72] IVANOVA, CHRISTA, FR

[72] PRIGENT, SABINE, FR

[72] MARGEOT, ANTOINE, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2022-12-12

[86] 2021-06-21 (PCT/FR2021/051117)

[87] (WO2021/260310)

[30] FR (20 06495) 2020-06-22

[21] **3,182,331**
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/08 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **MAPPING OF CAVITATION ACTIVITY**

[54] **CARTOGRAPHIE DE L'ACTIVITE DE CAVITATION**

[72] COVIELLO, CHRISTIAN, GB

[72] COUSSIOS, CONSTANTIN, GB

[72] FINN, SEAN, IE

[72] JACKSON, EDWARD, GB

[71] OXSONICS LIMITED, GB

[85] 2022-12-12

[86] 2021-06-15 (PCT/GB2021/051492)

[87] (WO2021/255433)

[30] GB (2009079.1) 2020-06-15

[21] **3,182,340**
[13] A1

[51] **Int.Cl. H04B 1/40 (2015.01)**

[25] EN

[54] **INTEGRATED ANTENNA ARRAY AND BEAMFORMER IC CHIPS WITH INTER-STAGE AMPLIFICATION**

[54] **RESEAU D'ANTENNES INTEGRE ET PUCES A CIRCUITS INTEGRES DE FORMATION DE FAISCEAUX AVEC AMPLIFICATION INTER-ETAGE**

[72] FRANSON, STEVEN J., US

[71] VIASAT INC., US

[85] 2022-12-12

[86] 2021-03-04 (PCT/US2021/020973)

[87] (WO2021/252036)

[30] US (63/038,091) 2020-06-11

[21] **3,182,345**
[13] A1

[51] **Int.Cl. A01N 37/46 (2006.01) A01N 63/10 (2020.01) A01N 63/50 (2020.01)**

[25] EN

[54] **METHOD FOR VEGETATIVE PROPAGATION OF PLANTS**

[54] **PROCEDE DE PROPAGATION VEGETATIVE DE PLANTES**

[72] UVNAS-MOBERG, KERSTIN, SE

[72] LUNDEGARDH, BENGT, SE

[71] LETAVIS AB, SE

[85] 2022-12-12

[86] 2021-06-15 (PCT/SE2021/050583)

[87] (WO2021/256979)

[30] SE (2050724-0) 2020-06-16

[21] **3,182,351**
[13] A1

[51] **Int.Cl. C03B 5/425 (2006.01) C03B 5/44 (2006.01)**

[25] EN

[54] **CAST CULLET-BASED LAYER ON WALL PANEL FOR A MELTER**

[54] **COUCHE A BASE DE CALCIN COULE SUR UN PANNEAU MURAL POUR DISPOSITIF DE FUSION**

[72] RASHLEY, SHANE, US

[72] COBURN, BRIAN, US

[71] OWENS-BROCKWAY GLASS CONTAINER INC., US

[85] 2022-12-12

[86] 2021-08-10 (PCT/US2021/045315)

[87] (WO2022/035802)

[30] US (16/993,825) 2020-08-14

[21] **3,182,356**
[13] A1

[51] **Int.Cl. B65D 83/04 (2006.01)**

[25] EN

[54] **DEVICE FOR DISPENSING CONSUMABLES**

[54] **DISPOSITIF DE DISTRIBUTION DE CONSOMMABLES**

[72] KOH, PAUL, US

[72] MAY, WILLIAM THOMAS, US

[72] ENEVER, SIMON, US

[72] KRAUSE, JAMES, US

[72] CANDELA, ADRIAN, US

[72] FRATTI, JONATHAN, US

[71] QUIP NYC INC., US

[85] 2022-12-12

[86] 2021-06-28 (PCT/US2021/039439)

[87] (WO2021/263242)

[30] US (63/044,758) 2020-06-26

[21] **3,182,359**
[13] A1

[51] **Int.Cl. B25J 15/00 (2006.01) B25J 15/02 (2006.01) B25J 15/10 (2006.01) B65G 47/90 (2006.01)**

[25] EN

[54] **CONTAINER FINISH GRIPPER**

[54] **DISPOSITIF DE PREHENSION DE BAGUE DE RECIPIENT**

[72] CHISHOLM, BRIAN J., US

[71] OWENS-BROCKWAY GLASS CONTAINER INC., US

[85] 2022-12-12

[86] 2021-08-10 (PCT/US2021/045313)

[87] (WO2022/035800)

[30] US (63/065,740) 2020-08-14

Demandes PCT entrant en phase nationale

[21] **3,182,365**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 9/04 (2006.01) A61P 13/12 (2006.01) A61P 35/00 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **VASOPRESSIN-2 RECEPTOR ANTAGONIST PEPTIDES AND USES THEREOF**

[54] **PEPTIDES ANTAGONISTES DU RECEPTEUR DE LA VASOPRESSINE-2 ET LEURS UTILISATIONS**

[72] GILLES, NICOLAS, FR

[72] CIOLEK, JUSTYNA, FR

[72] DROCTOVE, LAURA, FR

[72] MAILLERE, BERNARD, FR

[72] NOZACH, HERVE, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2022-12-12

[86] 2021-06-23 (PCT/EP2021/067248)

[87] (WO2021/260068)

[30] EP (20305696.5) 2020-06-24

[21] **3,182,372**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) C07K 14/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **HER-2 TARGETED BISPECIFIC COMPOSITIONS AND METHODS FOR MAKING AND USING THE SAME**

[54] **COMPOSITIONS BISPECIFIQUES CIBLEES HER-2 ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLES-CI**

[72] SCHELLENBERGER, VOLKER, US

[72] JOHANSEN, ERIC, US

[72] HENKENSIEFKEN, ANGELA, US

[72] MACCANN, DARRAGH, GB

[72] MCCLODY, JAMES, GB

[72] KUHN, PHILLIPP, DE

[72] FRENZEL, ANDRE, DE

[72] TO, MILTON, US

[72] FOX, MICHAEL, US

[72] IRVING, BRYAN, US

[72] DERYNCK, MIKA, US

[71] AMUNIX PHARMACEUTICALS, INC., US

[85] 2022-12-12

[86] 2021-06-24 (PCT/US2021/039006)

[87] (WO2021/263058)

[30] US (63/044,301) 2020-06-25

[30] US (63/077,503) 2020-09-11

[30] US (63/166,857) 2021-03-26

[30] US (63/108,783) 2020-11-02

[30] US (63/196,408) 2021-06-03

[21] **3,182,376**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 47/10 (2012.01)**

[25] EN

[54] **EVENT MODEL TRAINING USING IN SITU DATA**

[54] **FORMATION DE MODELE D'EVENEMENT A L'AIDE DE DONNEES IN SITU**

[72] CERRAHOGLU, CAGRI, GB

[72] THIRUVENKATANATHAN, PRADYUMNA, GB

[71] LYTT LIMITED, GB

[85] 2022-12-12

[86] 2021-06-04 (PCT/EP2021/065081)

[87] (WO2021/254799)

[30] EP (PCT/EP2020/067045) 2020-06-18

[21] **3,182,378**
[13] A1

[51] **Int.Cl. B65D 5/02 (2006.01) B65D 5/50 (2006.01)**

[25] EN

[54] **TRANSPORT DEVICE FOR TRANSPORTING A DELICATE OBJECT**

[54] **DISPOSITIF DESTINE AU TRANSPORT D'UN OBJET DELICAT**

[72] VAN DER LAAN, TEUN KORNELIS, NL

[72] KAISER, ALINA, NL

[72] HOOGLAND, PETER, NL

[71] ROLLOR I.P. B.V., NL

[85] 2022-12-12

[86] 2021-06-16 (PCT/NL2021/050378)

[87] (WO2021/256925)

[30] NL (2025839) 2020-06-16

[21] **3,182,384**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 51/10 (2006.01)**

[25] EN

[54] **CONDITIONALLY ACTIVE ANTI-CD46 ANTIBODIES, ANTIBODY FRAGMENTS, THEIR IMMUNOCONJUGATES AND USES THEREOF**

[54] **ANTICORPS ANTI-CD46 CONDITIONNELLEMENT ACTIFS, FRAGMENTS D'ANTICORPS, LEURS IMMUNOCONJUGUES ET UTILISATIONS ASSOCIEES**

[72] SHORT, JAY M., US

[72] FREY, GERHARD, US

[72] CHANG, HWAI WEN, US

[72] WANG, JING, US

[72] XING, CHAO, US

[71] BIOATLA, INC., US

[85] 2022-12-12

[86] 2021-06-15 (PCT/US2021/037400)

[87] (WO2021/257542)

[30] US (63/040,913) 2020-06-18

PCT Applications Entering the National Phase

[21] **3,182,386**
[13] A1

[51] **Int.Cl. A23F 5/04 (2006.01) A23N 12/08 (2006.01) A23N 12/12 (2006.01)**

[25] EN

[54] **METHOD FOR ROASTING COFFEE BEANS**

[54] **PROCEDE DE TORREFACTION DE GRAINS DE CAFE**

[72] DUBIEF, FLAVIENFLORENT, CH

[72] BIGLER, NICOLAS, CH

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2022-12-12

[86] 2021-07-27 (PCT/EP2021/070980)

[87] (WO2022/023328)

[30] EP (20188216.4) 2020-07-28

[21] **3,182,388**
[13] A1

[51] **Int.Cl. C09D 4/02 (2006.01) C08J 7/043 (2020.01) C08J 3/28 (2006.01) C09D 11/00 (2014.01)**

[25] EN

[54] **CAUSTIC WASHABLE COMPOSITIONS FOR PRINTING**

[54] **COMPOSITIONS LAVABLES CAUSTIQUES POUR IMPRESSION**

[72] KENDRA, ELI, US

[72] GRAUNKE, JONATHAN, US

[71] INX INTERNATIONAL INK CO., US

[85] 2022-12-12

[86] 2021-06-17 (PCT/US2021/037883)

[87] (WO2021/257866)

[30] US (63/041,011) 2020-06-18

[21] **3,182,389**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 35/644 (2015.01) A61P 29/00 (2006.01)**

[25] EN

[54] **ANTI-INFLAMMATORY COMPOSITIONS, METHODS AND USES THEREOF**

[54] **COMPOSITIONS ANTI-INFLAMMATOIRES, METHODES ET UTILISATIONS ASSOCIEES**

[72] LIN, BIN, NZ

[72] STEPHENS, JONATHAN MCDONALD COUNSELL, NZ

[72] LOOMES, KERRY, NZ

[72] EVANS, JACQUELINE CAROL, NZ

[72] BRIMBLE, MARGARET, NZ

[72] THOTA, ROHITH, NZ

[72] LOMIWES, DOMINIC, NZ

[72] SHAW, ODETTE MARIANNE, NZ

[71] COMVITA LIMITED, NZ

[85] 2022-12-12

[86] 2021-07-02 (PCT/NZ2021/050103)

[87] (WO2022/005308)

[30] NZ (765957) 2020-07-03

[30] NZ (PCT/NZ2020/050065) 2020-07-03

[21] **3,182,390**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING ALZHEIMER'S DISEASE BY TARGETING MAPT GENE**

[54] **METHODE DE TRAITEMENT DE LA MALADIE D'ALZHEIMER PAR CIBLAGE DU GENE MAPT**

[72] THOMPSON, IAIN ROBERT, US

[72] YAMAGATA, TETSUYA, US

[72] AKBULUT, TALHA, US

[71] MODALIS THERAPEUTICS CORPORATION, JP

[85] 2022-12-12

[86] 2021-07-09 (PCT/JP2021/025974)

[87] (WO2022/009987)

[30] US (63/049,736) 2020-07-09

[30] US (63/212,429) 2021-06-18

[21] **3,182,391**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 10/06 (2006.01)**

[25] EN

[54] **KITS AND METHODS FOR DIAGNOSING CHRONIC WASTING DISEASE**

[54] **KITS ET PROCEDES DE DIAGNOSTIC DE MALADIE DEBILITANTE CHRONIQUE**

[72] HENDERSON, DAVIN, US

[71] HENDERSON, DAVIN, US

[85] 2022-12-12

[86] 2021-07-16 (PCT/US2021/041974)

[87] (WO2022/016054)

[30] US (63/052,682) 2020-07-16

[30] US (63/052,701) 2020-07-16

[30] US (63/052,710) 2020-07-16

[30] US (63/052,721) 2020-07-16

[21] **3,182,392**
[13] A1

[51] **Int.Cl. G01R 31/385 (2019.01) H01M 10/44 (2006.01) H01M 10/48 (2006.01) H02J 7/00 (2006.01) H02J 7/10 (2006.01)**

[25] EN

[54] **BATTERY TEST DEVICE AND BATTERY CHARGE TESTING METHOD**

[54] **DISPOSITIF DE TEST DE BATTERIE ET PROCEDE DE TEST DE CHARGE DE BATTERIE**

[72] TOMIZAWA, YUTAKA, JP

[72] NAKAJIMA, SHIGEKI, JP

[72] TAKAGI, TOSHIHIKO, JP

[72] SHOJI, HIDEKI, JP

[71] TOYO SYSTEM CO., LTD., JP

[85] 2022-12-12

[86] 2022-02-24 (PCT/JP2022/007741)

[87] (WO2022/254827)

[30] JP (2021-094564) 2021-06-04

Demandes PCT entrant en phase nationale

[21] **3,182,393**
[13] A1

[51] **Int.Cl. A22C 25/08 (2006.01) B65G 53/30 (2006.01)**

[25] EN

[54] **SYSTEM FOR TRANSFERRING SOLID FOOD ARTICLES IN LIQUID TO AND FROM A STORAGE**

[54] **SYSTEME DE TRANSFERT D'ARTICLES ALIMENTAIRES SOLIDES DANS UN LIQUIDE VERS ET DEPUIS UN RESERVOIR DE STOCKAGE**

[72] HOSETH, JACOB, NO

[72] HOSETH, KLAUS, NO

[72] UREN, AAGE, NO

[71] HOSETH HOLDING AS, NO

[85] 2022-12-12

[86] 2021-06-11 (PCT/NO2021/050145)

[87] (WO2021/251831)

[30] NO (20200697) 2020-06-12

[21] **3,182,394**
[13] A1

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

[25] EN

[54] **CONTROLLED RELEASE GRANULATIONS OF WATER-SOLUBLE ACTIVE PHARMACEUTICAL INGREDIENTS**

[54] **GRANULATIONS D'ADMINISTRATION CONTROLEE DE PRINCIPES ACTIFS PHARMACEUTIQUES HYDROSOLUBLES**

[72] KARABORNI, SAMI, US

[72] CANAFAX, DANIEL M., US

[72] XIANG, JIA-NING, US

[72] TIEN, JAMES, TW

[72] KIRKLAND, NICOLAS D., US

[72] XIANG, WILLIAM W., US

[71] XWPHARMA LTD., KY

[85] 2022-12-12

[86] 2021-06-17 (PCT/US2021/037909)

[87] (WO2021/257886)

[30] US (63/040,780) 2020-06-18

[30] US (63/059,514) 2020-07-31

[21] **3,182,395**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01)**

[25] EN

[54] **CONDITIONALLY ACTIVE ANTI-NECTIN-4 ANTIBODIES**

[54] **ANTICORPS ANTI-NECTINE-4 CONDITIONNELLEMENT ACTIFS**

[72] SHORT, JAY M., US

[72] FREY, GERHARD, US

[72] CHANG, HWAI WEN, US

[72] WANG, JING, US

[72] XING, CHAO, US

[72] LIU, HAIZHEN, US

[72] CUGNETTI, ANA PAULA, US

[71] BIOATLA, INC., US

[85] 2022-12-12

[86] 2021-06-15 (PCT/US2021/037364)

[87] (WO2021/257525)

[30] US (63/040,894) 2020-06-18

[30] US (63/166,062) 2021-03-25

[21] **3,182,397**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/137 (2006.01) A61P 27/10 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MYOPIA WITH FENOTEROL HYDROBROMIDE, A .BETA.2-ADRENERGIC RECEPTOR AGONIST, AND DERIVATIVES THEREOF**

[54] **METHODES ET COMPOSITIONS POUR PREVENIR ET TRAITER LA MYOPIE A L'AIDE DE BROMHYDRATE DE FENOTEROL, UN AGONISTE DU RECEPTEUR A .BETA.2-ADRENERGIQUE, ET DE SES DERIVES**

[72] TKATCHENKO, ANDREI V., US

[72] TKATCHENKO, TATIANA V., US

[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2022-12-12

[86] 2021-06-09 (PCT/US2021/036614)

[87] (WO2021/252626)

[30] US (63/037,891) 2020-06-11

[21] **3,182,399**
[13] A1

[51] **Int.Cl. B65D 88/74 (2006.01) H05B 3/18 (2006.01) H05B 3/48 (2006.01) H05B 3/82 (2006.01)**

[25] EN

[54] **GRAPHENE HEATER FOR OIL TANK OF OIL FIELD**

[54] **DISPOSITIF DE CHAUFFAGE A BASE DE GRAPHENE POUR RESERVOIR DE PETROLE DE CHAMP PETROLIFERE**

[72] ZHAO, ANPING, CN

[71] ZHAO, ANPING, CN

[85] 2022-12-12

[86] 2021-06-08 (PCT/CN2021/098883)

[87] (WO2021/249388)

[30] CN (202010532424.8) 2020-06-11

[21] **3,182,400**
[13] A1

[51] **Int.Cl. G06Q 20/06 (2012.01) G06Q 20/22 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **METHOD, TERMINAL, AND COIN REGISTER FOR TRANSMITTING ELECTRONIC COIN DATA SETS**

[54] **PROCEDE, TERMINAL ET REGISTRE DE PIECES POUR TRANSMETTRE DES JEUX DE DONNEES DE PIECES ELECTRONIQUES**

[72] ALBERT, DANIEL, DE

[72] HERBORG, RAOUL-THOMAS, DE

[71] GIESECKE+DEVRIENT ADVANCE52 GMBH, DE

[85] 2022-12-12

[86] 2021-06-30 (PCT/EP2021/068063)

[87] (WO2022/008321)

[30] DE (10 2020 004 117.5) 2020-07-08

[21] **3,182,401**
[13] A1

[51] **Int.Cl. G01N 3/24 (2006.01)**

[25] EN

[54] **A MEASURING DEVICE AND METHOD OF USE THEREOF**

[54] **DISPOSITIF DE MESURE ET SON PROCEDE D'UTILISATION**

[72] KEULEMANS, YVO, AU

[71] KEULEMANS, YVO, AU

[85] 2022-12-12

[86] 2021-06-18 (PCT/AU2021/050630)

[87] (WO2021/253088)

[30] AU (2020902022) 2020-06-18

PCT Applications Entering the National Phase

[21] **3,182,403**
[13] A1

[51] **Int.Cl. F41G 1/26 (2006.01) F41G 1/387 (2006.01) F41G 1/40 (2006.01) F41G 1/42 (2006.01) F41G 11/00 (2006.01)**

[25] EN

[54] **A REAR SIGHT ADAPTER AND METHOD OF USE THEREOF**

[54] **ADAPTATEUR DE CRAN DE MIRE ET SON PROCEDE D'UTILISATION**

[72] MCKENZIE, HUGH MALCOLM ROY, AU

[71] MCKENZIE, HUGH MALCOLM ROY, AU

[85] 2022-12-12

[86] 2021-06-17 (PCT/AU2021/050625)

[87] (WO2022/006618)

[30] AU (2020902303) 2020-07-06

[21] **3,182,404**
[13] A1

[51] **Int.Cl. G21B 1/05 (2006.01) G21B 1/01 (2006.01) G21B 1/03 (2006.01) G21B 1/11 (2006.01) G21B 1/13 (2006.01)**

[25] EN

[54] **MIXED NUCLEAR POWER CONVERSION**

[54] **CONVERSION DE PUISSANCE NUCLEAIRE MIXTE**

[72] JACKSON, GERALD PETER, US

[71] BEAM ALPHA, INC., US

[85] 2022-12-12

[86] 2021-08-25 (PCT/US2021/047625)

[87] (WO2022/046953)

[30] US (63/070,587) 2020-08-26

[21] **3,182,407**
[13] A1

[51] **Int.Cl. A61M 11/00 (2006.01) B08B 3/02 (2006.01) B08B 3/12 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM, AND METHOD FOR CLEANING, HEALING, AND TISSUE REGENERATION**

[54] **APPAREIL, SYSTEME ET PROCEDE DE NETTOYAGE, DE CICATRISATION ET DE REGENERATION DE TISSU**

[72] LEIGHTON, TIMOTHY GRANT, GB

[72] DOLDER, CRAIG, GB

[72] BAREHAM, GEORGE, GB

[72] ZHU, MENG YANG, GB

[72] KNOX, CARL, GB

[72] MALCHER, FREYA JANE, GB

[72] MALAKOUTIKHAH, MARYAM, GB

[72] HERBERT, KAY, GB

[71] SLOAN WATER TECHNOLOGY LIMITED, GB

[85] 2022-12-12

[86] 2021-06-15 (PCT/IB2021/055238)

[87] (WO2021/250645)

[30] US (63/038,231) 2020-06-12

[30] US (63/044,628) 2020-06-26

[21] **3,182,409**
[13] A1

[51] **Int.Cl. A61K 38/47 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING LATE-ONSET POMPE DISEASE**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA MALADIE DE POMPE TARDIVE**

[72] FINN, PATRICK, US

[72] HAMED, ALAA, US

[72] AN HAACK, KRISTINA, FR

[72] WILSON, CATHERINE, US

[71] GENZYME CORPORATION, US

[85] 2022-12-12

[86] 2021-06-11 (PCT/US2021/037111)

[87] (WO2021/257409)

[30] US (63/038,857) 2020-06-14

[30] US (63/076,037) 2020-09-09

[30] US (63/147,629) 2021-02-09

[30] US (63/157,490) 2021-03-05

[21] **3,182,411**
[13] A1

[51] **Int.Cl. E03D 1/30 (2006.01)**

[25] EN

[54] **FLUSH VALVE APPARATUS**

[54] **APPAREIL DE SOUPEPE DE CHASSE**

[72] PITSCH, WALTER, US

[72] MARINOV, MARIN, US

[71] AS AMERICA, INC., US

[85] 2022-12-12

[86] 2021-06-29 (PCT/US2021/039596)

[87] (WO2022/006093)

[30] US (63/045,930) 2020-06-30

[21] **3,182,412**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) C07D 409/12 (2006.01) C07D 409/14 (2006.01)**

[25] EN

[54] **ADVANTAGEOUS BENZOTHIOPHENE COMPOSITIONS FOR MENTAL DISORDERS OR ENHANCEMENT**

[54] **COMPOSITIONS DE BENZOTHIOPHENE AVANTAGEUSES POUR TROUBLES MENTAUX OU AMELIORATION MENTALE**

[72] BAGGOTT, MATHEW, US

[71] TACTOGEN INC, US

[85] 2022-12-12

[86] 2021-07-06 (PCT/US2021/040570)

[87] (WO2022/010937)

[30] US (63/048,640) 2020-07-06

[30] US (63/069,135) 2020-08-23

[30] US (63/149,208) 2021-02-12

Demandes PCT entrant en phase nationale

[21] **3,182,415**
[13] A1

[51] **Int.Cl. A61K 31/36 (2006.01) A61K 31/198 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING MILD TRAUMATIC BRAIN INJURY, POST-TRAUMATIC STRESS DISORDER AND MILD TRAUMATIC BRAIN INJURY WITH POST TRAUMATIC STRESS DISORDER**
[54] **METHODES ET COMPOSITIONS POUR TRAITER UNE LESION CEREBRALE TRAUMATIQUE LEGERE, UN TROUBLE DE STRESS POST-TRAUMATIQUE ET UNE LESION CEREBRALE TRAUMATIQUE LEGERE AVEC TROUBLE DE STRESS POST-TRAUMATIQUE**
[72] DARIANI, MAGHSOUD, US
[71] LOBE SCIENCES LTD., CA
[85] 2022-12-12
[86] 2021-06-15 (PCT/US2021/037319)
[87] (WO2021/257500)
[30] US (63/040,032) 2020-06-17

[21] **3,182,416**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **DATA TRANSMISSION METHOD AND APPARATUS, TRANSMITTER, RECEIVER, AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION DE DONNEES, EMETTEUR, RECEPTEUR, ET SUPPORT DE STOCKAGE**
[72] LI, WEIMIN, CN
[72] YUAN, ZHIFENG, CN
[72] MA, YIHUA, CN
[72] LI, ZHIGANG, CN
[71] ZTE CORPORATION, CN
[85] 2022-12-12
[86] 2021-06-10 (PCT/CN2021/099385)
[87] (WO2021/249481)
[30] CN (202010538212.0) 2020-06-12

[21] **3,182,417**
[13] A1

[51] **Int.Cl. H05B 3/28 (2006.01)**
[25] EN
[54] **PLASTERBOARD LOOKALIKE BUILDING PANEL RADIANT HEATER**
[54] **APPAREIL DE CHAUFFAGE PAR RAYONNEMENT A PANNEAU DE CONSTRUCTION SEMBLABLE A UNE PLAQUE DE PLATRE**
[72] SAJIC, PETER, GB
[71] LAMINAHEAT HOLDING LTD., IE
[85] 2022-12-12
[86] 2021-06-22 (PCT/EP2021/066915)
[87] (WO2021/259896)
[30] US (63/042,217) 2020-06-22

[21] **3,182,418**
[13] A1

[51] **Int.Cl. E21B 19/08 (2006.01)**
[25] EN
[54] **A HANDLING DEVICE FOR HANDLING EXPENDABLES FOR A DRILL RIG**
[54] **DISPOSITIF DE MANIPULATION POUR MANIPULER DES CONSOMMABLES POUR UN APPAREIL DE FORAGE**
[72] REUMULLER, BRUNO, AT
[72] GALLER, THOMAS, AT
[71] SANDVIK MINING AND CONSTRUCTION G.M.B.H., AT
[85] 2022-12-12
[86] 2020-05-29 (PCT/EP2020/064954)
[87] (WO2021/239246)

[21] **3,182,419**
[13] A1

[51] **Int.Cl. H04W 48/10 (2009.01) H04W 76/40 (2018.01)**
[25] EN
[54] **METHODS AND DEVICES FOR DETERMINING USER EQUIPMENT TO PERFORM UPLINK FEEDBACK FOR MTCH TRANSMISSION**
[54] **PROCEDES ET DISPOSITIFS POUR DETERMINER UN EQUIPEMENT UTILISATEUR POUR EFFECTUER UNE RETROACTION DE LIAISON MONTANTE POUR UNE TRANSMISSION MTCH**
[72] GOU, WEI, CN
[72] HAO, PENG, CN
[72] ZHANG, CHENCHEN, CN
[72] CHEN, WEI, CN
[72] WEI, XINGGUANG, CN
[71] ZTE CORPORATION, CN
[85] 2022-12-12
[86] 2020-06-30 (PCT/CN2020/099159)
[87] (WO2022/000241)

[21] **3,182,421**
[13] A1

[51] **Int.Cl. B01D 53/34 (2006.01) B01D 53/46 (2006.01) B01D 53/62 (2006.01) C04B 7/00 (2006.01) C04B 7/36 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR FORMING VATERITE FROM CALCINED LIMESTONE USING ELECTRIC KILN**
[54] **PROCEDES ET SYSTEMES DE FORMATION DE VATERITE A PARTIR DE CALCAIRE CALCINE A L'AIDE D'UN FOUR ELECTRIQUE**
[72] GILLIAM, RYAN J., US
[72] WEISS, MICHAEL JOSEPH, US
[71] ARELAC, INC., US
[85] 2022-12-12
[86] 2021-06-30 (PCT/US2021/039825)
[87] (WO2022/006230)
[30] US (63/046,239) 2020-06-30

PCT Applications Entering the National Phase

[21] **3,182,422**
[13] A1

[51] **Int.Cl. H04W 24/02 (2009.01)**
[25] EN
[54] **NON-PUBLIC NETWORK MEASUREMENT METHOD AND APPARATUS, DEVICE, AND STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE MESURE DE RESEAU NON PUBLIC, DISPOSITIF ET SUPPORT DE STOCKAGE**

[72] LIU, ZHUANG, CN
[72] GAO, YIN, CN
[72] LI, DAPENG, CN
[72] CHEN, JIAJUN, CN
[71] ZTE CORPORATION, CN
[85] 2022-12-12
[86] 2021-08-02 (PCT/CN2021/109962)
[87] (WO2022/028345)
[30] CN (202010772505.5) 2020-08-04

[21] **3,182,424**
[13] A1

[51] **Int.Cl. C07C 225/20 (2006.01) A61K 31/277 (2006.01) A61P 25/02 (2006.01) A61P 25/06 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 37/02 (2006.01) C07C 247/14 (2006.01) C07C 255/46 (2006.01) C07C 317/30 (2006.01) C07C 323/30 (2006.01) C07D 213/50 (2006.01)**

[25] EN
[54] **HYDROXYNORKETAMINE ANALOGUES, COMPOSITIONS COMPRISING SAME AND METHODS OF USE THEREOF**

[54] **ANALOGUES D'HYDROXYNORKETAMINE, COMPOSITIONS LES COMPRENANT ET LEURS PROCEDES D'UTILISATION**

[72] WAINER, IRVING WILLIAM, US
[71] SPIRIFY PHARMA INC., US
[85] 2022-12-12
[86] 2021-06-16 (PCT/IL2021/050732)
[87] (WO2021/255737)
[30] US (63/040,142) 2020-06-17

[21] **3,182,425**
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/14 (2006.01) A61K 31/47 (2006.01) A61K 47/02 (2006.01) A61K 47/26 (2006.01) A61P 31/06 (2006.01) A61P 31/08 (2006.01)**

[25] EN
[54] **LONG-ACTING FORMULATIONS**

[54] **FORMULATIONS A ACTION PROLONGEE**

[72] HOLM, RENE, BE
[72] VERVOORT, IWAN CAROLINE F, BE
[72] DONG, WENYU, BE
[72] COLOMBO, MIRIAM, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-12-12
[86] 2021-07-08 (PCT/EP2021/068956)
[87] (WO2022/008643)
[30] EP (20185105.2) 2020-07-09

[21] **3,182,426**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/165 (2006.01) A61P 27/10 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MYOPIA WITH TRICHOSTATIN A, A HISTONE DEACETYLASE (HDAC) INHIBITOR, AND DERIVATIVES THEREOF**

[54] **METHODES ET COMPOSITIONS PERMETTANT DE PREVENIR ET DE TRAITER LA MYOPIE AVEC LA TRICHOSTATINE A, UN INHIBITEUR D'HISTONE DESACETYLASE (HDAC), ET SES DERIVES**

[72] TKATCHENKO, ANDREI V., US
[72] TKATCHENKO, TATIANA V., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[85] 2022-12-12
[86] 2021-06-09 (PCT/US2021/036617)
[87] (WO2021/252628)
[30] US (63/037,901) 2020-06-11

[21] **3,182,428**
[13] A1

[51] **Int.Cl. B41J 11/00 (2006.01)**
[25] EN
[54] **INKJET PRINTING METHOD**

[54] **PROCEDE D'IMPRESSION A JET D'ENCRE**

[72] WOUTERS, PAUL, BE
[72] DE KEGELAER, MARTIN, BE
[71] AGFA NV, BE
[85] 2022-12-12
[86] 2021-06-08 (PCT/EP2021/065229)
[87] (WO2021/254816)
[30] EP (20181011.6) 2020-06-19

[21] **3,182,429**
[13] A1

[51] **Int.Cl. C07K 1/00 (2006.01) C07K 5/00 (2006.01)**

[25] EN
[54] **PROCESS FOR PREPARING A GLP-1/GLUCAGON DUAL AGONIST**

[54] **PROCEDE DE PREPARATION D'UN AGONISTE DOUBLE DE GLP-1/GLUCAGON**

[72] KOBIERSKI, MICHAEL EDWARD, US
[72] KOPACH, MICHAEL EUGENE, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-12-12
[86] 2021-06-11 (PCT/US2021/036914)
[87] (WO2021/252829)
[30] US (63/038,363) 2020-06-12

[21] **3,182,430**
[13] A1

[51] **Int.Cl. G01B 11/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATIC ALIGNMENT OF DRAWINGS**

[54] **SYSTEMES ET PROCEDES D'ALIGNEMENT AUTOMATIQUE DE DESSINS**

[72] LEE, JAE MIN, US
[72] WEZOREK, JOSEPH W., US
[71] BLUEBEAM, INC., US
[85] 2022-12-12
[86] 2021-06-22 (PCT/US2021/038375)
[87] (WO2021/262650)
[30] US (16/910,175) 2020-06-24

Demandes PCT entrant en phase nationale

[21] **3,182,431**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/661 (2006.01) A61P 27/10 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MYOPIA WITH FINGOLIMOD, A SPHINGOSINE-1-PHOSPHATE RECEPTOR MODULATOR, AND DERIVATIVES THEREOF**

[54] **PROCEDES ET COMPOSITIONS POUR LA PREVENTION ET LE TRAITEMENT DE LA MYOPIE AVEC DU FINGOLIMOD, UN MODULATEUR DU RECEPTEUR DE LA SPHINGOSINE-1-PHOSPHATE ET DERIVES DE CELLE-CI**

[72] TKATCHENKO, ANDREI V., US
[72] TKATCHENKO, TATIANA V., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2022-12-12
[86] 2021-06-09 (PCT/US2021/036628)
[87] (WO2021/252636)
[30] US (63/037,910) 2020-06-11

[21] **3,182,433**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61F 2/00 (2006.01) A61F 2/02 (2006.01) A61F 2/04 (2013.01) A61F 2/24 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR MITRAL VALVE CHORD REPAIR**

[54] **METHODE ET APPAREIL DE REPARATION DE CORDAGE DE VALVULE MITRALE**

[72] PURCELL, CAMERON PAUL, US
[72] BISHOP, GORDON B., US
[72] PHAM, TRUNG HO, US
[72] MCDANIEL, STEPHEN R., US
[72] LAM, HIEN NGOC, US
[72] HAMILL, WHITTAKER IAN, US
[72] RIOJAS, KATIE NICOLE, US
[71] PIPELINE MEDICAL TECHNOLOGIES, INC., US

[85] 2022-12-12
[86] 2021-06-02 (PCT/US2021/035423)
[87] (WO2021/257278)
[30] US (63/040,389) 2020-06-17

[21] **3,182,436**
[13] A1

[51] **Int.Cl. C07F 9/53 (2006.01) C07F 9/12 (2006.01) C07F 9/655 (2006.01) C07F 9/6574 (2006.01) C09K 21/12 (2006.01) C09K 21/14 (2006.01)**

[25] EN

[54] **VANILLIN-DERIVED FLAME RETARDANT MONOMERS, RESINS, PREPOLYMERS, AND POLYMERS**

[54] **MONOMERES IGNIFUGES DERIVES DE VANILLINE, RESINES, PREPOLYMERES ET POLYMERES**

[72] YAN, NING, CA
[72] GNANASEKAR, PITCHAIMARI, IN
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA

[85] 2022-12-12
[86] 2021-06-22 (PCT/CA2021/050855)
[87] (WO2021/258199)
[30] US (63/042,249) 2020-06-22

[21] **3,182,437**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MYOPIA WITH BERBERINE, A BERBERIDACEAN ALKALOID, AND DERIVATIVES THEREOF**

[54] **METHODES ET COMPOSITIONS POUR PREVENIR ET TRAITER LA MYOPIE AVEC DE LA BERBERINE, UN ALCALOIDE DE BERBERIDACEE, ET DES DERIVES DE CELLE-CI**

[72] TKATCHENKO, ANDREI V., US
[72] TKATCHENKO, TATIANA V., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2022-12-12
[86] 2021-06-10 (PCT/US2021/036738)
[87] (WO2021/252717)
[30] US (63/037,918) 2020-06-11

[21] **3,182,438**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 48/00 (2006.01) A61P 31/00 (2006.01) C12N 5/10 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING ADENOVIRUS VECTOR VACCINE BY MEANS OF PERFUSION CULTURE PROCESS**

[54] **PROCEDE DE PREPARATION D'UN VACCIN A VECTEUR ADENOVIRUS AU MOYEN D'UN PROCEDE DE CULTURE PAR PERFUSION**

[72] XIAO, MENG, CN
[72] LIU, YUNJIE, CN
[72] ZHU, TAO, CN
[72] XU, YUNLI, CN
[72] XU, CAN, CN
[72] LI, JUNQIANG, CN
[72] CHAO, SHOUBAI, CN
[71] CANSINO BIOLOGICS INC., CN

[85] 2022-12-12
[86] 2021-11-08 (PCT/CN2021/129182)
[87] (WO2022/095987)
[30] CN (202011235524.0) 2020-11-09

[21] **3,182,439**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/145 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING AND TREATING MYOPIA WITH S-METHYL-L-THIOCITRULLINE, A SELECTIVE NEURONAL NITRIC OXIDE SYNTHASE (NOS) INHIBITOR, AND DERIVATIVES THEREOF**

[54] **METHODES ET COMPOSITIONS POUR PREVENIR ET TRAITER LA MYOPIE AVEC DE LA S-METHYL-L-THIOCITRULLINE, UN INHIBITEUR SELECTIF DE L'OXYDE NITRIQUE SYNTHASE NEURONALE (NOS) ET SES DERIVE**

[72] TKATCHENKO, ANDREI V., US
[72] TKATCHENKO, TATIANA V., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[85] 2022-12-12
[86] 2021-06-10 (PCT/US2021/036741)
[87] (WO2021/252719)
[30] US (63/037,920) 2020-06-11

PCT Applications Entering the National Phase

[21] **3,182,440**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/68 (2006.01) A61K 36/53 (2006.01) A61K 47/12 (2006.01) A61K 47/26 (2006.01) A61P 1/00 (2006.01)**

[25] EN

[54] **COMPOSITION USED AS MOOD-REGULATING STIMULANT**

[54] **COMPOSITION UTILISEE COMME STIMULANT DESTINE A REGULER L'HUMEUR**

[72] FARKAS, TIM, AT

[71] HAPPYGUM G.M.B.H., AT

[85] 2022-12-12

[86] 2021-07-01 (PCT/IB2021/055934)

[87] (WO2022/003630)

[30] DE (10 2020 117 395.4) 2020-07-01

[21] **3,182,441**
[13] A1

[51] **Int.Cl. E04B 1/68 (2006.01) E04F 15/02 (2006.01)**

[25] EN

[54] **FLOOR EXPANSION JOINT AND A METHOD OF INSTALLING OF SAID FLOOR EXPANSION JOINT**

[54] **JOINT DE DILATATION DE PLANCHER ET PROCEDE D'INSTALLATION DUDIT JOINT DE DILATATION DE PLANCHER**

[72] SHARP, DAVID LEWIN, GB

[72] SHARP, THOMAS EDWARD, GB

[71] IDL COLOUR COATING LIMITED, GB

[85] 2022-12-12

[86] 2021-06-15 (PCT/GB2021/051482)

[87] (WO2021/255424)

[30] GB (2009061.9) 2020-06-15

[21] **3,182,443**
[13] A1

[51] **Int.Cl. B60B 7/16 (2006.01) B60R 25/01 (2013.01) E05B 77/44 (2014.01)**

[25] EN

[54] **WHEEL LOCKING DEVICE**

[54] **DISPOSITIF DE VERROUILLAGE DE ROUE**

[72] IVARSSON, LARS, SE

[72] EKSTROM, MARCUS, SE

[71] RIMGARD SWEDEN AB, SE

[85] 2022-12-12

[86] 2021-06-14 (PCT/US2021/037167)

[87] (WO2021/252992)

[30] US (63/038,449) 2020-06-12

[21] **3,182,445**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 3/10 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PREVENTING TYPE 1 DIABETES**

[54] **PROCEDES ET COMPOSITIONS DE PREVENTION DU DIABETE DE TYPE 1**

[72] LEON, FRANCISCO, US

[72] HEROLD, KEVAN C., US

[72] LONG, SARAH ALICE, US

[72] LINSLEY, PETER S., US

[71] PROVENTION BIO, INC., US

[71] BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON, US

[71] YALE UNIVERSITY, US

[85] 2022-12-12

[86] 2021-06-11 (PCT/US2021/037039)

[87] (WO2021/252917)

[30] US (63/037,968) 2020-06-11

[30] TW (110102871) 2021-01-26

[30] US (63/192,242) 2021-05-24

[30] US (17/345,495) 2021-06-11

[21] **3,182,447**
[13] A1

[51] **Int.Cl. B28C 7/04 (2006.01) B28C 7/10 (2006.01) B65G 47/19 (2006.01)**

[25] EN

[54] **A PLANT FOR CONVEYING MATERIAL FOR THE PRODUCTION OF STRUCTURAL CONCRETE AND PROCESS**

[54] **INSTALLATION DE TRANSPORT DE MATERIAU PERMETTANT LA PRODUCTION DE BETON STRUCTURAL ET PROCEDE**

[72] FURLANI, MICHELE, IT

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

[85] 2022-12-12

[86] 2021-06-15 (PCT/IB2021/055262)

[87] (WO2021/255636)

[30] IT (102020000014320) 2020-06-16

[21] **3,182,448**
[13] A1

[51] **Int.Cl. E21D 20/00 (2006.01) E21D 21/00 (2006.01)**

[25] EN

[54] **A CABLE HANDLING DEVICE FOR CABLE BOLTS**

[54] **DISPOSITIF DE MANIPULATION DE CABLE POUR DES BOULONS DE CABLE**

[72] REUMULLER, BRUNO, AT

[72] GALLER, THOMAS, AT

[71] SANDVIK MINING AND CONSTRUCTION G.M.B.H., AT

[85] 2022-12-12

[86] 2020-05-29 (PCT/EP2020/064953)

[87] (WO2021/239245)

[21] **3,182,449**
[13] A1

[51] **Int.Cl. G01N 27/416 (2006.01) G16H 50/00 (2018.01)**

[25] EN

[54] **APPARATUSES AND METHODS FOR DETECTING INFECTIOUS DISEASE AGENTS**

[54] **APPAREILS ET METHODES DE DETECTION D'AGENTS DE MALADIES INFECTIEUSES**

[72] KOUL, RAMAN, CA

[72] BHAT, SUMRITA, CA

[72] VASTAREY, NIKHIL SURESH, CA

[72] KAPOOR, ANMOL SINGH, CA

[71] CARDIAI TECHNOLOGIES LTD., CA

[85] 2022-12-12

[86] 2021-06-10 (PCT/CA2021/050794)

[87] (WO2021/248246)

[30] US (63/038,115) 2020-06-11

[21] **3,182,450**
[13] A1

[51] **Int.Cl. A61G 5/10 (2006.01) A47C 3/025 (2006.01) A47C 3/026 (2006.01) A61G 5/14 (2006.01)**

[25] EN

[54] **A SEAT**

[54] **SIEGE**

[72] SCARLETT, ROYDON MARK, NZ

[71] ROLAPAL LIMITED, NZ

[85] 2022-12-12

[86] 2021-05-11 (PCT/NZ2021/050082)

[87] (WO2022/015177)

[30] NZ (766176) 2020-07-13

Demandes PCT entrant en phase nationale

[21] **3,182,451**
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01) C07J 71/00 (2006.01)**

[25] EN

[54] **PROCESSES FOR THE REMOVAL AND RECOVERY OF HESPERALOE EXTRACTIVES**

[54] **PROCESSUS POUR L'ELIMINATION ET LA RECUPERATION D'EXTRAITS D'HESPERALOE**

[72] WEI, NING, US

[72] SHANNON, THOMAS G., US

[72] THOMPSON, BRENT M., US

[72] WIDEMAN, GREGORY J., US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2022-12-12

[86] 2021-06-21 (PCT/US2021/038270)

[87] (WO2021/258053)

[30] US (63/041,220) 2020-06-19

[21] **3,182,452**
[13] A1

[51] **Int.Cl. A61K 31/7048 (2006.01) A23K 10/30 (2016.01) A23K 20/163 (2016.01) A23K 50/75 (2016.01) A61P 33/02 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **SAPONIN CONTAINING EXTRACTS PREPARED FROM HESPERALOE USEFUL IN THE TREATMENT OF NON-HUMAN ANIMALS**

[54] **EXTRAITS CONTENANT DE LA SAPONINE PREPARES A PARTIR D'HESPERALOE UTILES DANS LE TRAITEMENT D'ANIMAUX NON HUMAINS**

[72] WEI, NING, US

[72] SHANNON, THOMAS G., US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2022-12-12

[86] 2021-06-21 (PCT/US2021/038272)

[87] (WO2021/258055)

[30] US (63/041,224) 2020-06-19

[21] **3,182,453**
[13] A1

[51] **Int.Cl. A61K 31/704 (2006.01) A23K 10/30 (2016.01) A23K 20/163 (2016.01) A23K 50/70 (2016.01) A23K 50/75 (2016.01) A61P 33/02 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **SAPONIN CONTAINING EXTRACTS PREPARED FROM HESPERALOE USEFUL IN THE TREATMENT OF NON-HUMAN ANIMALS**

[54] **EXTRAITS CONTENANT DE LA SAPONINE PREPARES A PARTIR D'HESPERALOE UTILES DANS LE TRAITEMENT D'ANIMAUX NON HUMAINS**

[72] WEI, NING, US

[72] SHANNON, THOMAS G., US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2022-12-12

[86] 2021-06-21 (PCT/US2021/038274)

[87] (WO2021/258056)

[30] US (63/041,224) 2020-06-19

[30] US (63/124,212) 2020-12-11

[21] **3,182,454**
[13] A1

[51] **Int.Cl. A23K 10/30 (2016.01) A23K 20/163 (2016.01) A23K 50/10 (2016.01) A23K 50/20 (2016.01) A23K 50/30 (2016.01) A23K 50/70 (2016.01) A23K 50/75 (2016.01)**

[25] EN

[54] **ANIMAL FEED COMPOSITION FOR REDUCING AMMONIA PRODUCTION**

[54] **COMPOSITION D'ALIMENT POUR ANIMAUX DESTINEE A REDUIRE LA PRODUCTION D'AMMONIAC**

[72] SHANNON, THOMAS G., US

[72] WEI, NING, US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

[85] 2022-12-12

[86] 2021-06-21 (PCT/US2021/038278)

[87] (WO2021/258059)

[30] US (63/041,224) 2020-06-19

[21] **3,182,455**
[13] A1

[51] **Int.Cl. C09D 5/02 (2006.01) C09D 7/40 (2018.01) C09D 7/42 (2018.01) C09D 7/43 (2018.01) C09D 7/80 (2018.01)**

[25] EN

[54] **METHOD FOR TUNING GLOSS IN PAINT FORMULATIONS**

[54] **PROCEDE POUR L'AJUSTEMENT DE LA BRILLANCE DANS DES FORMULATIONS DE PEINTURE**

[72] BOHLING, JAMES C., US

[72] ERYAZICI, IBRAHIM, US

[72] HARSH, PHILIP R., US

[72] MAJUMDAR, PARTHA S., US

[72] NUNGESSER, EDWIN A., US

[72] PHILLIPS, TERESA A., US

[72] VUONG, SHARON M., US

[72] ZHANG, XIANGYI, US

[71] ROHM AND HAAS COMPANY, US

[85] 2022-12-12

[86] 2021-06-21 (PCT/US2021/038237)

[87] (WO2021/262590)

[30] US (63/042,130) 2020-06-22

[30] US (63/114,126) 2020-11-16

[21] **3,182,456**
[13] A1

[51] **Int.Cl. C01B 32/182 (2017.01)**

[25] EN

[54] **DEVICE AND PROCESS FOR MASS PRODUCTION OF PARTICULATE MATERIALS**

[54] **DISPOSITIF ET PROCEDE DE PRODUCTION EN MASSE DE MATERIAUX PARTICULAIRES**

[72] CORKILL, STEPHEN, US

[72] SORENSEN, CHRISTOPHER, US

[72] WRIGHT, JUSTIN, US

[72] NEPAL, ARJUN, US

[72] BOSSMANN, STEFAN, US

[71] KANSAS STATE UNIVERSITY RESEARCH FOUNDATION, US

[85] 2022-12-12

[86] 2021-06-15 (PCT/US2021/037321)

[87] (WO2022/015445)

[30] US (63/039,087) 2020-06-15

PCT Applications Entering the National Phase

[21] **3,182,457**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 25/04 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT OF TRIGEMINAL NEURALGIA**
[54] **METHODES DE TRAITEMENT DE NEURALGIE DU TRIJUMEAU**
[72] GARIBALDI, GEORGE, CH
[71] NOEMA PHARMA AG, CH
[85] 2022-12-12
[86] 2021-07-30 (PCT/EP2021/071376)
[87] (WO2022/023519)
[30] US (63/058,630) 2020-07-30

[21] **3,182,458**
[13] A1

[51] **Int.Cl. C07K 16/08 (2006.01) C12N 15/113 (2010.01) A61P 31/20 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **ENGINEERED HEPATITIS B VIRUS NEUTRALIZING ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS NEUTRALISANTS MODIFIES CONTRE LE VIRUS DE L'HEPATITE B ET UTILISATIONS ASSOCIEES**
[72] ROSEN, LAURA, US
[72] CZUDNOCHOWSKI, NADINE, US
[72] LEMPP, FLORIAN A., US
[72] SNELL, GYORGY, US
[72] CORTI, DAVIDE, CH
[72] CAMERONI, ELISABETTA, CH
[71] VIR BIOTECHNOLOGY, INC., US
[71] HUMABS BIOMED SA, CH
[85] 2022-12-12
[86] 2021-06-23 (PCT/US2021/038667)
[87] (WO2021/262840)
[30] US (63/043,692) 2020-06-24

[21] **3,182,459**
[13] A1

[51] **Int.Cl. B01D 11/04 (2006.01) C01D 3/06 (2006.01) C02F 1/26 (2006.01)**
[25] EN
[54] **A SALT RECOVERY SOLUTION AND PROCESSES OF USE THEREOF**
[54] **SOLUTION DE RECUPERATION DE SEL ET SES PROCEDES D'UTILISATION**
[72] PRAKASH, CHAITRA, NZ
[72] TANG, HAIMING, NZ
[72] MADDOX, CRYSTAL, NZ
[71] AQUAFORTUS TECHNOLOGIES LIMITED, NZ
[85] 2022-12-12
[86] 2021-07-09 (PCT/NZ2021/050105)
[87] (WO2022/010366)
[30] US (63/050,402) 2020-07-10

[21] **3,182,460**
[13] A1

[51] **Int.Cl. F42B 6/10 (2006.01)**
[25] EN
[54] **RECOVERABLE FOUR-SIDED CALCIUM CARBONATE PAINTBALL**
[54] **BALLE DE PEINTURE EN CARBONATE DE CALCIUM A QUATRE COTES RECUPERABLE**
[72] ZAMANI GHALEHSHAHI, MEYSAM, IR
[72] NIROUMAND, SAEID, IR
[71] ZAMANI GHALEHSHAHI, MEYSAM, IR
[71] NIROUMAND, SAEID, IR
[85] 2022-12-13
[86] 2021-06-09 (PCT/IB2021/055064)
[87] (WO2022/003455)
[30] IR (139950140003002962) 2020-06-29

[21] **3,182,502**
[13] A1

[51] **Int.Cl. A23G 1/36 (2006.01) A23G 1/38 (2006.01) A23G 1/48 (2006.01) A23G 1/52 (2006.01)**
[25] EN
[54] **COMPOSITION, PROCESS AND USE**
[54] **COMPOSITION, PROCEDE ET UTILISATION**
[72] GERMAN, JAMEY, GB
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-12-13
[86] 2021-07-09 (PCT/EP2021/069225)
[87] (WO2022/008742)
[30] EP (20185352.0) 2020-07-10

[21] **3,182,523**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/68 (2017.01) A61P 9/04 (2006.01) C07K 14/495 (2006.01) C07K 14/71 (2006.01)**
[25] EN
[54] **ACTRII-ALK4 ANTAGONISTS AND METHODS OF TREATING HEART FAILURE**
[54] **ANTAGONISTES DE L'ACTRII-ALK4 ET METHODES DE TRAITEMENT DE L'INSUFFISANCE CARDIAQUE**
[72] SURAGANI, RAJASEKHAR NAGA VENKATA SAI, US
[72] LI, JIA, US
[72] ANDRE, PATRICK, US
[72] KUMAR, RAVINDRA, US
[71] ACCELERON PHARMA INC., US
[85] 2022-12-13
[86] 2021-06-16 (PCT/US2021/037557)
[87] (WO2021/257655)
[30] US (63/040,400) 2020-06-17
[30] US (63/159,003) 2021-03-10

[21] **3,182,527**
[13] A1

[51] **Int.Cl. B01J 29/70 (2006.01) C01B 39/48 (2006.01)**
[25] EN
[54] **METHOD OF SYNTHESIZING A MOLECULAR SIEVE OF MWW FRAMEWORK TYPE**
[54] **PROCEDE DE SYNTHESE D'UN TAMIS MOLECULAIRE DE TYPE DE STRUCTURE MWW**
[72] SARTIPI, SINA, BE
[72] ANTHONIS, MARC H., BE
[72] PETERS, AARON W., US
[72] AKOUCHE, MARIAME, FR
[72] WEIGEL, SCOTT J., US
[71] CIPO, CA
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2022-12-13
[86] 2021-06-28 (PCT/US2021/039376)
[87] (WO2022/015491)
[30] US (63/052,526) 2020-07-16
[30] EP (20204269.3) 2020-10-28

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[21] **3,182,528**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/352 (2006.01) A61K 31/433 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF OBSTRUCTIVE SLEEP APNOEA (OSA)**

[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT DE L'APNEE OBSTRUCTIVE DU SOMMEIL (AOS)**

[72] BLEACKLEY, MARK ROBERT, AU

[72] AGARWAL, SUDHANSHU, AU

[72] LATHAM, JOEL BRADLEY, AU

[71] INCANNEX HEALTHCARE LIMITED, AU

[85] 2022-12-13

[86] 2021-07-09 (PCT/AU2021/050734)

[87] (WO2022/006636)

[30] AU (2020902368) 2020-07-09

[21] **3,182,534**
[13] A1

[51] **Int.Cl. B01D 3/14 (2006.01) B01D 11/02 (2006.01) C08L 93/00 (2006.01) C08L 93/04 (2006.01) C09F 1/00 (2006.01) C09F 1/02 (2006.01) C09F 1/04 (2006.01) C09F 3/00 (2006.01)**

[25] EN

[54] **METHOD OF EXTRACTION**

[54] **PROCEDE D'EXTRACTION**

[72] MOUNTFORT, RAMON DUDLEY, AU

[71] ESSENTIAL QUEENSLAND PTY LTD, AU

[85] 2022-12-13

[86] 2021-06-16 (PCT/AU2021/050622)

[87] (WO2021/253083)

[30] AU (2020901996) 2020-06-16

[21] **3,182,537**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) G01N 33/53 (2006.01)**

[25] EN

[54] **DETECTING NUCLEIC ACIDS USING SUGAR-LECTIN COUPLINGS**

[54] **DETECTION D'ACIDES NUCLEIQUES A L'AIDE DE COUPLAGES SUCRE-LECTINE**

[72] PANTOJA, RIGO, US

[72] ORTIZ, DANIEL, US

[72] YANG, XIANGYAUN, SG

[72] TEO, YIN NAH, SG

[72] VERMAAS, ERIC, US

[72] ECKHARDT, ALLEN, US

[71] ILLUMINA, INC., US

[71] ILLUMINA SINGAPORE PTE. LTD., SG

[85] 2022-12-13

[86] 2021-08-27 (PCT/US2021/047978)

[87] (WO2022/055726)

[30] US (63/077,416) 2020-09-11

[21] **3,182,544**
[13] A1

[51] **Int.Cl. B65B 3/02 (2006.01) B31B 70/26 (2017.01) B31B 70/84 (2017.01) B65B 29/02 (2006.01) B65B 43/02 (2006.01) B65D 75/58 (2006.01)**

[25] EN

[54] **A PROCESS AND EQUIPMENT FOR MANUFACTURING A REINFORCED SACHET**

[54] **PROCEDE ET EQUIPEMENT DE FABRICATION DE SACHET RENFORCE**

[72] PELLEGRINI, STEPHANE, FR

[72] GALANTINE, CHARLES, CH

[72] MORRAL, ROCA JOSE, ES

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2022-12-13

[86] 2021-06-24 (PCT/EP2021/067319)

[87] (WO2022/022900)

[30] EP (20188733.8) 2020-07-30

[21] **3,182,549**
[13] A1

[51] **Int.Cl. H03K 17/96 (2006.01)**

[25] EN

[54] **RETRACTABLE CAPACITIVE SWITCH KIT**

[54] **KIT DE COMMUTEUR CAPACITIF RETRACTABLE**

[72] ORSI, CARLO, IT

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

[85] 2022-12-13

[86] 2021-07-02 (PCT/IB2021/055955)

[87] (WO2022/009045)

[30] IT (102020000016225) 2020-07-06

[21] **3,182,551**
[13] A1

[51] **Int.Cl. C08F 8/30 (2006.01) C08F 220/60 (2006.01)**

[25] EN

[54] **FLOW CELLS**

[54] **CUVES A CIRCULATION**

[72] CAMPOS, RAYMOND, US

[72] MATHER, BRIAN D., US

[72] RAMIREZ, SEAN M., US

[71] ILLUMINA, INC., US

[85] 2022-12-13

[86] 2021-10-19 (PCT/US2021/055616)

[87] (WO2022/086964)

[30] US (63/094,147) 2020-10-20

[21] **3,182,552**
[13] A1

[51] **Int.Cl. C25B 13/02 (2006.01) C25B 9/23 (2021.01) C25B 1/04 (2021.01)**

[25] EN

[54] **BIPOLAR ZERO-GAP ELECTROLYZER FOR WATER ELECTROLYSIS**

[54] **CELLULE ELECTROLYTIQUE BIPOLAIRE A ESPACE NUL POUR L'ELECTROLYSE DE L'EAU**

[72] WATANABE, AKIRA, JP

[72] FUJIMOTO, NORIKAZU, JP

[72] UCHINO, YOUSUKE, JP

[72] YAMAURA, HIROSHIGE, JP

[71] ASAHI KASEI KABUSHIKI KAISHA, JP

[85] 2022-12-13

[86] 2021-06-15 (PCT/JP2021/022740)

[87] (WO2021/256472)

[30] JP (2020-103302) 2020-06-15

PCT Applications Entering the National Phase

[21] **3,182,553**
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/4164 (2006.01) A61K 31/496 (2006.01) A61K 47/38 (2006.01) A61P 15/02 (2006.01) A61P 31/04 (2006.01)**

[25] EN
[54] **VAGINAL GEL**
[54] **GEL VAGINAL**
[72] BORGMAN, ROBERT J., US
[72] JUUL, JAMES E., US
[71] NATIONAL MEDICAL SUPPLY, LLC, US
[85] 2022-12-13
[86] 2021-04-22 (PCT/US2021/028631)
[87] (WO2021/257179)
[30] US (16/904,678) 2020-06-18

[21] **3,182,555**
[13] A1

[51] **Int.Cl. B21C 51/00 (2006.01) G01N 27/80 (2006.01)**

[25] EN
[54] **MECHANICAL PROPERTY MEASURING APPARATUS, MECHANICAL PROPERTY MEASURING METHOD, SUBSTANCE MANUFACTURING EQUIPMENT, SUBSTANCE MANAGEMENT METHOD, AND SUBSTANCE MANUFACTURING METHOD**
[54] **DISPOSITIF DE MESURE DE PROPRIETE MECANIQUE, PROCEDE DE MESURE DE PROPRIETE MECANIQUE, INSTALLATION DE FABRICATION DE MATERIAU, PROCEDE DE GESTION DE MATERIAU ET PROCEDE DE FABRICATION DE MATERIA**
[72] MATSUI, YUTAKA, JP
[72] OZEKI, TAKAFUMI, JP
[72] TERADA, KAZUKI, JP
[72] ADACHI, KENJI, JP
[72] IMANAKA, HIROKI, JP
[72] IZUMI, DAICHI, JP
[72] SHIMAMURA, JUNJI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2022-12-13
[86] 2021-06-14 (PCT/JP2021/022594)
[87] (WO2021/256443)
[30] JP (2020-103336) 2020-06-15

[21] **3,182,556**
[13] A1

[51] **Int.Cl. G01N 27/80 (2006.01)**

[25] EN
[54] **MECHANICAL PROPERTY MEASURING APPARATUS, MECHANICAL PROPERTY MEASURING METHOD, SUBSTANCE MANUFACTURING EQUIPMENT, SUBSTANCE MANAGEMENT METHOD, AND SUBSTANCE MANUFACTURING METHOD**
[54] **DISPOSITIF ET PROCEDE DE MESURE DE PROPRIETE MECANIQUE, EQUIPEMENT ET PROCEDE DE PRODUCTION DE MATERIAU ET PROCEDE DE GESTION DE MATERIAU**
[72] OZEKI, TAKAFUMI, JP
[72] MATSUI, YUTAKA, JP
[72] TERADA, KAZUKI, JP
[72] IZUMI, DAICHI, JP
[72] IMANAKA, HIROKI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2022-12-13
[86] 2021-06-14 (PCT/JP2021/022595)
[87] (WO2021/256444)
[30] JP (2020-103341) 2020-06-15

[21] **3,182,557**
[13] A1

[51] **Int.Cl. C01D 5/02 (2006.01) C01D 15/06 (2006.01) C01G 9/02 (2006.01) C01G 45/02 (2006.01) C01G 45/10 (2006.01) C01G 51/04 (2006.01) C01G 51/10 (2006.01) C01G 53/04 (2006.01) C01G 53/10 (2006.01) C22B 3/08 (2006.01) C22B 3/42 (2006.01)**

[25] EN
[54] **PROCESS AND METHOD FOR PRODUCING CRYSTALLIZED METAL SULFATES**
[54] **PROCESSUS ET PROCEDE DE PRODUCTION DE SULFATES METALLIQUES CRISTALLISES**
[72] FRASER, ROBERT JOHN, CA
[72] STAMATIOU, EVANGELOS, CA
[72] MACHADO, MARK JOSEPH, CA
[72] VON SCHROETER, HENRY CHRISTIAN IMMO, CA
[72] ALEMRAJABI, MAHMOOD, SE
[71] NORTHVOLT AB, SE
[85] 2022-12-13
[86] 2021-06-17 (PCT/IB2021/055363)
[87] (WO2022/009004)
[30] US (63/050,191) 2020-07-10

[21] **3,182,559**
[13] A1

[51] **Int.Cl. H05B 6/64 (2006.01) H05B 6/78 (2006.01)**

[25] EN
[54] **DEVICE FOR HEATING A MATERIAL USING MICROWAVES, METHOD FOR HEATING A MATERIAL USING MICROWAVES, AND SYSTEMS FOR HEATING A MATERIAL USING MICROWAVES**
[54] **DISPOSITIF DE CHAUFFAGE D'UN MATERIAU AU MOYEN DE MICRO-ONDES, PROCEDE DE CHAUFFAGE D'UN MATERIAU AU MOYEN DE MICRO-ONDES, ET SYSTEMES DE CHAUFFAGE D'UN MATERIAU AU MOYEN DE MICRO-ONDE**
[72] YAMAMOTO, MAURO FUMIO, BR
[72] CAVALCANTI, PEDRO PORTO SILVA, BR
[72] BOECHAT, FERNANDO OLIVEIRA, BR
[72] SILVA, REGINALDO ELIAS DA, BR
[72] VENTURA, LEONARDO RODRIGUES, BR
[72] SCARABELLI, LEONARDO BATISTA DE ALMEIDA, BR
[72] JUNIOR, EDVANDRO REZENDE RODRIGUES, BR
[72] CONTE, THAILLI, BR
[71] VALE S.A, BR
[85] 2022-12-13
[86] 2021-06-16 (PCT/BR2021/050262)
[87] (WO2021/253106)
[30] BR (BR102020012185-5) 2020-06-17
[30] BR (132021004301-5) 2021-03-08

[21] **3,182,561**
[13] A1

[51] **Int.Cl. A01K 61/00 (2017.01) A01K 63/04 (2006.01) C02F 1/28 (2006.01)**

[25] EN
[54] **IRAK DEGRADERS AND USES THEREOF**
[54] **AGENTS DE DEGRADATION D'IRAK ET LEURS UTILISATIONS**
[72] CAMPBELL, VERONICA, US
[72] MCDONALD, ALICE, US
[72] GOLLOB, JARED, US
[72] SLAVIN, ANTHONY, US
[71] KYMERA THERAPEUTICS, INC, US
[85] 2022-12-13
[86] 2021-06-17 (PCT/US2021/037952)
[87] (WO2021/257914)
[30] US (63/040,407) 2020-06-17
[30] US (63/070,022) 2020-08-25
[30] US (63/089,398) 2020-10-08

Demandes PCT entrant en phase nationale

[21] **3,182,562**
[13] A1

[51] **Int.Cl. F16B 1/00 (2006.01) F16B 21/12 (2006.01) F16D 1/00 (2006.01) F16L 37/084 (2006.01) H01R 13/62 (2006.01)**

[25] EN

[54] **ATTACHMENT ASSEMBLY AND METHOD**

[54] **ENSEMBLE ET PROCEDE DE FIXATION**

[72] ROTHSCCHILD, JESSE BENEDICT, US

[71] PENN UNITED TECHNOLOGIES, INC., US

[85] 2022-12-13

[86] 2021-06-16 (PCT/US2021/037555)

[87] (WO2021/257654)

[30] US (63/041,144) 2020-06-19

[21] **3,182,567**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61P 35/02 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **DERIVATIVES OF 2-OXO-N-(4-(PYRIMIDIN-4-YLOXY/THIO)PHENYL)-1,2-DIHYDROPYRIDINE-3-CARBOXAMIDE FOR USE AS PROTEIN KINASE INHIBITORS FOR THERAPY**

[54] **DERIVES DE 2-OXO-N-(4-(PYRIMIDIN-4-YLOXY/THIO)PHENYL)-1,2-DIHYDROPYRIDINE-3-CARBOXAMIDE DESTINES A ETRE UTILISES EN TANT QU'INHIBITEURS DE PROTEINE KINASE POUR UNE THERAPIE**

[72] WANG, SHUDONG, AU

[72] GOH, AIK WYE, AU

[71] AUCENTRA THERAPEUTICS PTY LTD, AU

[85] 2022-12-13

[86] 2021-07-09 (PCT/AU2021/050737)

[87] (WO2022/006638)

[30] AU (2020902392) 2020-07-10

[21] **3,182,570**
[13] A1

[51] **Int.Cl. A23B 7/154 (2006.01) A01N 37/44 (2006.01) A01P 21/00 (2006.01) A23L 25/00 (2016.01)**

[25] EN

[54] **METHODS OF INCREASING ALMOND YIELD**

[54] **PROCEDES D'AUGMENTATION DU RENDEMENT DES AMANDES**

[72] FORNEY, KEVIN DALE, US

[72] PETRACEK, PETER, US

[72] PEDROSO, GABRIEL MUNHOZ, US

[71] VALENT U.S.A. LLC, US

[85] 2022-12-13

[86] 2021-07-01 (PCT/US2021/040076)

[87] (WO2022/006389)

[30] US (63/046,837) 2020-07-01

[21] **3,182,575**
[13] A1

[51] **Int.Cl. F03G 3/00 (2006.01) B66B 20/00 (2006.01) B66C 13/28 (2006.01) B66C 17/06 (2006.01)**

[25] EN

[54] **ENERGY STORAGE AND DELIVERY SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE STOCKAGE ET DE DISTRIBUTION D'ENERGIE**

[72] PEDRETTI, ANDREA, US

[72] PEDRETTI-RODI, MAURO, US

[71] ENERGY VAULT, INC., US

[85] 2022-12-13

[86] 2021-06-28 (PCT/US2021/070783)

[87] (WO2022/006584)

[30] US (63/046,187) 2020-06-30

[21] **3,182,576**
[13] A1

[51] **Int.Cl. A41D 31/06 (2019.01) A41D 31/102 (2019.01) A41D 31/32 (2019.01)**

[25] EN

[54] **DOUBLE-WALLED INSULATION FABRICS**

[54] **TISSUS ISOLANTS A DOUBLE PAROI**

[72] JOHNSON, BECCA, US

[72] BOYLE, JOSEPH P., US

[72] CRISS, DEBRA, US

[71] COLUMBIA SPORTSWEAR NORTH AMERICA, INC., US

[85] 2022-12-13

[86] 2021-08-02 (PCT/US2021/044224)

[87] (WO2022/031619)

[30] US (63/060,123) 2020-08-02

[21] **3,182,579**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/395 (2006.01) A61P 31/20 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **THERAPEUTIC RNA FOR HPV-POSITIVE CANCER**

[54] **ARN THERAPEUTIQUE CONTRE LE CANCER POSITIF AU VPH**

[72] SAHIN, UGUR, DE

[72] KREITER, SEBASTIAN, DE

[72] DIKEN, MUSTAFA, DE

[72] VASCOTTO, FULVIA, DE

[72] SALOMON, NADJA, DE

[72] GRUNWITZ, CHRISTIAN, DE

[71] BIONTECH SE, DE

[71] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITATSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAT MAINZ GEMEINNUTZIGE GMBH, DE

[85] 2022-12-13

[86] 2021-07-06 (PCT/EP2021/068680)

[87] (WO2022/008519)

[30] EP (PCT/EP2020/069146) 2020-07-07

[21] **3,182,581**
[13] A1

[51] **Int.Cl. B01D 61/00 (2006.01) B01D 61/14 (2006.01) B01D 61/16 (2006.01) B01J 13/00 (2006.01) B01J 20/02 (2006.01) B01J 20/06 (2006.01) B01J 20/22 (2006.01) B01J 20/24 (2006.01) B01J 20/30 (2006.01)**

[25] EN

[54] **MANUFACTURING METHOD FOR POLYNUCLEAR IRON COMPOUNDS STABILIZED BY CARBOHYDRATES AND/OR HUMIC ACID**

[54] **PROCEDE DE FABRICATION DE COMPOSES DE FER POLYNUCLEAIRE STABILISES PAR DES HYDRATES DE CARBONE ET/OU DE L'ACIDE HUMIQUE**

[72] PHILIPP, ERIK, CH

[72] MULLER, HANS-MARTIN, CH

[72] KAMMERER, MICHAEL, DE

[71] VIFOR FRESENIUS MEDICAL CARE RENAL PHARMA, LTD., CH

[85] 2022-12-13

[86] 2021-06-30 (PCT/EP2021/067980)

[87] (WO2022/003016)

[30] EP (20183476.9) 2020-07-01

[30] US (63/047,137) 2020-07-01

PCT Applications Entering the National Phase

[21] **3,182,582**
[13] A1

[51] **Int.Cl. B01D 29/50 (2006.01) B01D 43/00 (2006.01) B64G 1/60 (2006.01) C02F 1/40 (2006.01) C02F 1/44 (2006.01) C02F 3/28 (2006.01)**

[25] EN

[54] **CLOSED-LOOP, BIOGENERATIVE WATER PURIFICATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE PURIFICATION D'EAU BIOGENERATIVE EN BOUCLE FERMEE**

[72] YEH, DANIEL H., US

[72] PICKETT, MELANIE T., US

[72] ROBERSON, LUKE, US

[72] CALABRIA, JORGE L., US

[72] BULLARD, TALON, US

[71] UNIVERSITY OF SOUTH FLORIDA, US

[71] UNITED STATES OF AMERICA AS REPRESENTED BY THE ADMINISTRATOR OF NASA, US

[85] 2022-12-13

[86] 2021-06-21 (PCT/US2021/038280)

[87] (WO2021/258060)

[30] US (63/041,133) 2020-06-19

[21] **3,182,584**
[13] A1

[51] **Int.Cl. A61G 13/00 (2006.01) C12M 1/34 (2006.01) C12M 1/40 (2006.01) G01N 23/02 (2006.01) G01N 23/04 (2018.01)**

[25] EN

[54] **ASSEMBLY FOR USE IN MEDICAL DIAGNOSTIC DEVICE AND SYSTEM FOR ANALYSIS OF SAMPLES**

[54] **ENSEMBLE DESTINE A ETRE UTILISE DANS UN DISPOSITIF DE DIAGNOSTIC MEDICAL ET SYSTEME D'ANALYSE D'ECHANTILLONS**

[72] ARFAN, MOHAMMED, IN

[72] BHATTACHARYA, SUDIPA, IN

[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US

[85] 2022-12-13

[86] 2021-06-29 (PCT/US2021/039547)

[87] (WO2022/010693)

[30] US (63/048,398) 2020-07-06

[21] **3,182,585**
[13] A1

[51] **Int.Cl. F25D 3/00 (2006.01) F25D 17/06 (2006.01) G05D 23/20 (2006.01)**

[25] EN

[54] **TEMPERATURE REGULATING APPARATUS AND METHODS OF USING SAME**

[54] **APPAREIL DE REGULATION DE TEMPERATURE ET PROCEDES D'UTILISATION ASSOCIES**

[72] BROWN, MATTHEW S., US

[71] FUSE, LLC, US

[85] 2022-12-13

[86] 2021-06-21 (PCT/US2021/038176)

[87] (WO2021/258036)

[30] US (63/041,259) 2020-06-19

[21] **3,182,586**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**

[25] EN

[54] **BIN RETRIEVAL AND TRANSPORT SYSTEMS AND METHODS**

[54] **RECUPERATION DE BACS, ET SYSTEMES ET PROCEDES DE TRANSPORT**

[72] GALLUZZO, THOMAS, US

[72] ALTMAN, VLADIMIR, US

[71] IAM ROBOTICS, LLC, US

[85] 2022-12-13

[86] 2021-06-17 (PCT/US2021/037921)

[87] (WO2021/257895)

[30] US (63/040,013) 2020-06-17

[30] US (63/059,161) 2020-07-30

[30] US (63/130,036) 2020-12-23

[21] **3,182,587**
[13] A1

[51] **Int.Cl. A61B 5/1486 (2006.01) A61B 5/1468 (2006.01)**

[25] EN

[54] **ANALYTE SENSORS FEATURING ENHANCEMENTS FOR DECREASING INTERFERENT SIGNAL**

[54] **CAPTEURS D'ANALYTE PRESENTANT DES AMELIORATIONS POUR DIMINUER LE SIGNAL D'UNE SUBSTANCE INTERFERENTE**

[72] OJA, STEPHEN, US

[72] FOX, CADE BRYLEE, US

[72] TRAN, LAM N., US

[72] LIU, ZENGHE, US

[72] FELDMAN, BENJAMIN J., US

[72] HOSS, UDO, US

[72] YAHNKE, MARK STEPHEN, US

[72] KHAN, TAHIR S., US

[72] BABKA, JEAN-PIERRE, US

[72] REYNOLDS, OWEN DANIEL, GB

[71] ABBOTT DIABETES CARE INC., US

[85] 2022-12-13

[86] 2021-06-15 (PCT/US2021/037307)

[87] (WO2022/010620)

[30] US (63/049,210) 2020-07-08

[21] **3,182,588**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/17 (2006.01) C07K 14/435 (2006.01) D01D 5/10 (2006.01) D01D 5/38 (2006.01)**

[25] EN

[54] **HIGHLY POROUS SPIDER SILK FIBERS**

[54] **FIBRES DE SOIE D'ARAIGNEE HAUTEMENT POREUSES**

[72] GILAD, HAIM MEIR, IL

[72] IDELSON, GREGORY, IL

[72] PRESS, KONSTANTIN, IL

[72] MEIR, ALON, IL

[72] HADAR, NOA, IL

[71] SEEVIX MATERIAL SCIENCES LTD., IL

[85] 2022-12-13

[86] 2021-07-05 (PCT/IL2021/050827)

[87] (WO2022/009200)

[30] IL (PCT/IL2020/050752) 2020-07-05

[30] US (63/134,343) 2021-01-06

Demandes PCT entrant en phase nationale

[21] **3,182,589**
[13] A1

[51] **Int.Cl. G01N 21/03 (2006.01) G01N 21/17 (2006.01) G01N 21/75 (2006.01) G01N 21/84 (2006.01) G01N 30/00 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **DIAGNOSTIC TEST DEVICE WITH IMPROVED USE AND VISUAL DETECTION OF AN ANALOG TEST RESULT**

[54] **DISPOSITIF DE TEST DE DIAGNOSTIC A UTILISATION AMELIOREE ET DETECTION VISUELLE D'UN RESULTAT DE TEST ANALOGIQUE**

[72] SNOWDEN, TIMOTHY, US
[72] RAJAN, SUJATA SUNDARA, US
[72] KING, CHRISTOPHER, US
[72] WHARTON, JONATHAN ANDREW, US

[71] CHURCH & DWIGHT CO., INC., US
[85] 2022-12-13
[86] 2021-06-25 (PCT/US2021/039020)
[87] (WO2021/263068)
[30] US (63/044,654) 2020-06-26

[21] **3,182,591**
[13] A1

[51] **Int.Cl. G16H 10/40 (2018.01) G16H 40/67 (2018.01)**

[25] EN

[54] **DETECTING REINSERTION OF A CONTINUOUS GLUCOSE MONITORING SENSOR**

[54] **DETECTION D'UNE REINSERTION D'UN CAPTEUR DE SURVEILLANCE CONTINUE DU GLUCOSE**

[72] RUSSO, ANTHONY P., US
[71] ASCENSIA DIABETES CARE HOLDINGS AG, CH
[85] 2022-12-13
[86] 2021-07-12 (PCT/EP2021/069303)
[87] (WO2022/013140)
[30] US (63/051,862) 2020-07-14

[21] **3,182,592**
[13] A1

[51] **Int.Cl. C12Q 1/6816 (2018.01) C12Q 1/6876 (2018.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR DETECTING AN ABASIC SITE OF A NUCLEIC ACID**

[54] **COMPOSITIONS ET PROCEDES DE DETECTION D'UN SITE ABASIQUE D'UN ACIDE NUCLEIQUE**

[72] MAO, JIE, US
[72] SMITH, RANDALL, US
[71] ILLUMINA INC., US
[85] 2022-12-13
[86] 2021-09-09 (PCT/US2021/049722)
[87] (WO2022/056169)
[30] US (63/077,119) 2020-09-11

[21] **3,182,593**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 40/63 (2018.01) G16H 50/20 (2018.01) G16H 50/70 (2018.01)**

[25] EN

[54] **TRACKING INSERTION AND REMOVAL TIMES OF A CONTINUOUS GLUCOSE MONITORING SENSOR**

[54] **SUIVI DE TEMPS D'INSERTION ET DE RETRAIT D'UN CAPTEUR DE SURVEILLANCE CONTINUE DE GLUCOSE**

[72] RUSSO, ANTHONY P., US
[71] ASCENSIA DIABETES CARE HOLDINGS AG, CH
[85] 2022-12-13
[86] 2021-07-12 (PCT/EP2021/069308)
[87] (WO2022/013142)
[30] US (63/051,853) 2020-07-14

[21] **3,182,594**
[13] A1

[51] **Int.Cl. B01D 53/02 (2006.01) B01D 53/04 (2006.01)**

[25] EN

[54] **AMINO SORBENTS FOR CAPTURING OF CO2 FROM GAS STREAMS**

[54] **SORBANTS AMINES POUR LA CAPTURE DE CO2 A PARTIR DE FLUX DE GAZ**

[72] GEBALD, CHRISTOPH, CH
[72] VARGAS, ANGELO, CH
[72] ALBANI, DAVIDE, CH
[72] MICHELS, NINA-LUISA, CH
[72] ENKAGUL, VISUTA, CH
[72] MONNEY, BAPTISTE, CH
[72] BERROCAL, JOSE AUGUSTO, CH
[72] WEDER, CHRISTOPH, CH
[71] CLIMEWORKS AG, CH
[85] 2022-12-13
[86] 2021-07-13 (PCT/EP2021/069419)
[87] (WO2022/013197)
[30] EP (20186310.7) 2020-07-16

[21] **3,182,595**
[13] A1

[51] **Int.Cl. C07D 471/02 (2006.01)**

[25] EN

[54] **IMMUNOSUPPRESSANT, AND PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **IMMUNOSUPPRESSEUR, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] ZHANG, MINGMING, CN
[72] ZHAO, BAOWEI, CN
[72] YANG, FEI, CN
[72] ZHANG, YONGXIAN, CN
[72] YU, HONGPING, CN
[72] CHEN, ZHUI, CN
[72] XU, YAOCHANG, CN
[71] ABBISKO THERAPEUTICS CO., LTD., CN
[85] 2022-12-13
[86] 2021-04-30 (PCT/CN2021/091383)
[87] (WO2021/254005)
[30] CN (202010553412.3) 2020-06-17

PCT Applications Entering the National Phase

[21] **3,182,596**
[13] A1

[51] **Int.Cl. B22D 19/02 (2006.01) B22F 7/06 (2006.01) C22C 1/05 (2006.01)**

[25] EN

[54] **A CRUSHING OR WEAR PART HAVING A LOCALIZED COMPOSITE WEAR ZONE**

[54] **PIECE DE BROYAGE OU D'USURE AYANT UNE ZONE D'USURE COMPOSITE LOCALISEE**

[72] MELK, LATIFA, SE

[71] SANDVIK SRP AB, SE

[85] 2022-12-13

[86] 2020-07-07 (PCT/EP2020/069094)

[87] (WO2022/008038)

[21] **3,182,598**
[13] A1

[51] **Int.Cl. G01N 11/14 (2006.01) G01N 33/22 (2006.01)**

[25] EN

[54] **METHOD FOR EVALUATING THERMOPLASTICITY OF COAL OR CAKING ADDITIVE**

[54] **PROCEDE D'EVALUATION DE PROPRIETES THERMOPLASTIQUES DE CHARBON OU DE MATERIAU DE LIAISON**

[72] AKISHIKA, ISSUI, JP

[72] DOHI, YUSUKE, JP

[72] IGAWA, DAISUKE, JP

[71] JFE STEEL CORPORATION, JP

[85] 2022-12-13

[86] 2021-08-05 (PCT/JP2021/029202)

[87] (WO2022/039045)

[30] JP (2020-137312) 2020-08-17

[21] **3,182,599**
[13] A1

[51] **Int.Cl. B32B 3/06 (2006.01) B32B 7/05 (2019.01) B32B 3/08 (2006.01) B32B 5/02 (2006.01) B32B 5/04 (2006.01) B32B 5/26 (2006.01) B32B 7/12 (2006.01) B32B 25/10 (2006.01) B32B 27/12 (2006.01) B32B 27/30 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01)**

[25] EN

[54] **CONNECTOR ASSEMBLY**

[54] **ENSEMBLE DE CONNEXION**

[72] STAUFFER, FLURIN, CH

[72] HIRT, LUCA, CH

[72] MARTINEZ, VINCENT, CH

[72] BORDGEN, HEIKE, CH

[72] GANTER, NIKOLAUS, CH

[71] NANOLEQ AG, CH

[85] 2022-12-13

[86] 2021-06-14 (PCT/EP2021/065944)

[87] (WO2022/002569)

[30] EP (20183433.0) 2020-07-01

[21] **3,182,601**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4188 (2006.01) A61P 25/08 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR AND METHODS OF TREATING DISEASES**

[54] **COMPOSES ET METHODES DE TRAITEMENT DE MALADIES**

[72] BOND, SILAS, AU

[72] HUGGINS, PENELOPE JANE, AU

[72] PARSONS, JACK GORDON, AU

[71] ALTERITY THERAPEUTICS LIMITED, AU

[85] 2022-12-13

[86] 2021-06-18 (PCT/AU2021/050633)

[87] (WO2021/253091)

[30] AU (2020902019) 2020-06-18

[30] US (17/239,375) 2021-04-23

[21] **3,182,602**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTIBODY-DRUG CONJUGATES COMPRISING ANTI-B7-H3 ANTIBODIES**

[54] **CONJUGUES ANTICORPS-MEDICAMENT COMPRENANT DES ANTICORPS ANTI-B7-H3**

[72] PARK, TAEKYO, KR

[72] KIM, SUNYOUNG, KR

[72] PARK, SUHO, KR

[72] JUNG, DOOHWAN, KR

[72] SEO, DONGHOON, KR

[72] LEE, SANGKWANG, KR

[72] YUN, SANGHYEON, KR

[72] HA, JIHYEON, KR

[72] LEE, HYANG SOOK, KR

[72] PARK, OKKU, KR

[72] SEO, BEOMSEOK, KR

[72] KIM, SENA, KR

[72] SEOL, MINAH, KR

[72] SONG, JINA, KR

[72] WOO, SUNG HO, KR

[72] CHO, JONGUN, KR

[72] LEE, JAEHO, KR

[72] LEE, HYUN MI, KR

[72] PARK, JAE EUN, KR

[72] SONG, YOUNGJA, KR

[72] LEE, EUNJIN, KR

[72] LEE, HYUN JU, KR

[72] SHIM, EUN-YOUNG, KR

[72] KO, YUNJUNG, KR

[72] LEE, MINJU, KR

[72] PARK, YOUNG WOO, KR

[72] REW, YOSUP, KR

[71] INTOCELL, INC., KR

[71] Y-BIOLOGICS INC., KR

[85] 2022-12-13

[86] 2021-06-25 (PCT/IB2021/000445)

[87] (WO2021/260438)

[30] US (63/044,764) 2020-06-26

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[21] **3,182,604**
[13] A1

[51] **Int.Cl. C11B 1/00 (2006.01) C11B 1/02 (2006.01) C11B 1/04 (2006.01) C11B 1/10 (2006.01)**

[25] EN

[54] **METHOD OF ISOLATING LIPIDS FROM A LIPIDS CONTAINING BIOMASS**

[54] **PROCEDE D'ISOLEMENT DE LIPIDES A PARTIR D'UNE BIOMASSE CONTENANT DES LIPIDES**

[72] DIEHL, MICHAEL, DE
[72] HEINING, ANNIKA, DE
[72] HEINING, MARTIN, DE
[72] JOHNSON, MICHAEL BENJAMIN, US
[72] LEBERT, JOCHEN, DE
[72] LEININGER, NEIL FRANCIS, CH
[72] TARWADE, VINOD, US
[72] TINSLEY, DAVID ALLEN, US
[71] EVONIK OPERATIONS GMBH, DE
[71] DSM IP ASSETS B.V., NL
[85] 2022-12-13
[86] 2021-06-10 (PCT/EP2021/065600)
[87] (WO2021/254863)
[30] US (63/040,935) 2020-06-18
[30] EP (20183297.9) 2020-06-30

[21] **3,182,606**
[13] A1

[51] **Int.Cl. C07K 14/195 (2006.01) C07K 14/39 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **USES, METHODS AND PRODUCTS RELATING TO OLIGOMERIC LIPOPOLYSACCHARIDE BINDING PROTEINS**

[54] **UTILISATIONS, PROCEDES ET PRODUITS ASSOCIES A DES PROTEINES DE LIAISON DE LIPOPOLYSACCHARIDES OLIGOMERES**

[72] HATLEM, DANIEL, NO
[72] LINKE, DIRK, NO
[72] BARBIRZ, STEFANIE BRIGITTE, DE
[71] UNIVERSITETET I OSLO, NO
[85] 2022-12-13
[86] 2021-06-24 (PCT/EP2021/067413)
[87] (WO2021/260144)
[30] GB (2009730.9) 2020-06-25

[21] **3,182,607**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **USE OF LEUKEMIA-DERIVED CELLS IN OVARIAN CANCER VACCINES**

[54] **UTILISATION DE CELLULES DERIVEES DE LA LEUCEMIE DANS DES VACCINS CONTRE LE CANCER DE L'OVAIRE**

[72] MANTING, ERIK HANS, NL
[72] SINGH, SATWINDER KAUR, NL
[72] ROVERS, JEROEN, NL
[71] MENDUS B.V., NL
[85] 2022-12-13
[86] 2021-06-29 (PCT/IB2021/055822)
[87] (WO2022/003568)
[30] US (63/046,520) 2020-06-30
[30] US (63/111,390) 2020-11-09

[21] **3,182,608**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) C12P 19/34 (2006.01)**

[25] EN

[54] **SYSTEMS, APPARATUS AND KITS FOR ENZYMATIC POLYNUCLEOTIDE SYNTHESIS**

[54] **SYSTEMES, APPAREIL ET KITS POUR LA SYNTHESE ENZYMATIQUE DE POLYNUCLEOTIDES**

[72] MARTIN, CARL, FR
[72] ARTIGUE, MARC, FR
[72] CRETON, SANDRINE, FR
[72] DE CROZALS, GABRIEL, FR
[72] GODRON, XAVIER, FR
[72] HORGAN, ADRIAN, FR
[72] LACHAIZE, HENRI, FR
[72] LUCKY, JOHN, FR
[72] PEPONNET, CHRISTINE, FR
[72] YBERT, THOMAS, FR
[71] DNA SCRIPT, FR
[85] 2022-12-13
[86] 2021-06-14 (PCT/EP2021/065904)
[87] (WO2021/254934)
[30] EP (20180224.6) 2020-06-16

[21] **3,182,610**
[13] A1

[51] **Int.Cl. A61K 31/4045 (2006.01) A61K 31/421 (2006.01) A61K 31/422 (2006.01) A61K 31/427 (2006.01) A61K 31/4439 (2006.01) A61K 31/454 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 25/04 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **2-OXO-OXAZOLIDINE-5-CARBOXAMIDES AS NAV1.8 INHIBITORS**

[54] **2-OXOIMIDAZOLIDINE-5-CARBOXAMIDES UTILES EN TANT QU'INHIBITEURS DE NAV1.8**

[72] ARASAPPAN, ASHOK, US
[72] BELL, IAN M., US
[72] BUNGARD, CHRISTOPHER JAMES, US
[72] BURGEY, CHRISTOPHER S., US
[72] COX, JASON M., US
[72] GUIADEEN, DEODIAL GUY, US
[72] KELLY, MICHAEL J. III, US
[72] LAYTON, MARK E., US
[72] LIU, HONG, US
[72] LIU, JIAN, US
[72] OLSEN, JAMES T., US
[72] PERKINS, JAMES J., US
[72] SCHUBERT, JEFFREY W., US
[72] SHAH, AKSHAY A., US
[72] STACHEL, SHAWN J., US
[72] VANHEYST, MICHAEL D., US
[72] WU, ZHE, US
[71] MERCK SHARP & DOHME LLC, US
[85] 2022-12-13
[86] 2021-06-14 (PCT/US2021/037157)
[87] (WO2021/257418)
[30] US (63/040,463) 2020-06-17

PCT Applications Entering the National Phase

[21] **3,182,611**
[13] A1

[51] **Int.Cl. A61M 25/02 (2006.01) A61M 25/06 (2006.01)**
[25] EN
[54] **DRESSING-BASED CATHETER TRACTION DEVICE AND RELATED SYSTEMS**
[54] **DISPOSITIF DE TRACTION BASE SUR UN PANSEMENT ET SYSTEMES ET PROCEDES ASSOCIES**
[72] HARDING, WESTON F., US
[72] SCHERICH, MEGAN, US
[72] BURKHOLZ, JONATHAN KARL, US
[72] MA, YIPING, US
[72] LACKEY, JOHN, US
[72] WARNER, TYLER, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-12-13
[86] 2021-06-10 (PCT/US2021/036859)
[87] (WO2022/005723)
[30] US (63/045,700) 2020-06-29
[30] US (17/339,555) 2021-06-04

[21] **3,182,613**
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01)**
[25] EN
[54] **USE OF MITOXANTRONE PREPARATION IN PREPARATION OF DRUG FOR DIAGNOSING AND TREATING BREAST CANCER**
[54] **UTILISATION DE PREPARATION DE MITOXANTRONE DANS LA PREPARATION D'UN MEDICAMENT POUR LE DIAGNOSTIC ET LE TRAITEMENT DU CANCER DU SEIN**
[72] LIU, JUN, CN
[72] LI, XUN, CN
[72] YANG, ZHANAO, CN
[72] TU, FEINA, CN
[72] CHEN, NING, CN
[72] PAN, GE, CN
[72] HUANG, QUANHUA, CN
[72] ZHANG, WEIWEI, CN
[72] LAI, BAOLIN, CN
[72] HU, YIJING, CN
[72] LI, YANG, CN
[71] SHENZHEN CHINA RESOURCES JIUCHUANG MEDICAL AND PHARMACEUTICAL CO., LTD, CN
[71] SHENZHEN CHINA RESOURCES GOSUN PHARMACEUTICALS CO., LTD, CN
[85] 2022-12-13
[86] 2021-03-23 (PCT/CN2021/082262)
[87] (WO2022/021906)
[30] CN (202010742444.8) 2020-07-29

[21] **3,182,615**
[13] A1

[51] **Int.Cl. A24F 1/30 (2006.01) A24F 40/00 (2020.01)**
[25] EN
[54] **ELECTRONIC CIGARETTE WATER TANK**
[54] **RESERVOIR D'EAU DE CIGARETTE ELECTRONIQUE**
[72] JOHAENTGES, THOMAS, DE
[71] JT INTERNATIONAL S.A., CH
[85] 2022-12-13
[86] 2021-07-01 (PCT/EP2021/068156)
[87] (WO2022/012946)
[30] EP (20185975.8) 2020-07-15

[21] **3,182,616**
[13] A1

[51] **Int.Cl. A61K 31/4706 (2006.01) A61K 31/4709 (2006.01) A61K 31/4745 (2006.01) A61K 31/706 (2006.01) A61K 45/06 (2006.01) A61P 25/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **TLR/8 ANTAGONISTS AND USES THEREOF**
[54] **ANTAGONISTES DE TLR/8 ET LEURS UTILISATIONS**
[72] OKITSU, LUKAS SHINJI, US
[72] DEMARTINO, JULIE, US
[72] SPANGENBERG, THOMAS, DE
[71] MERCK PATENT GMBH, DE
[85] 2022-12-13
[86] 2021-06-01 (PCT/US2021/035174)
[87] (WO2021/257273)
[30] US (63/039,142) 2020-06-15

[21] **3,182,614**
[13] A1

[51] **Int.Cl. C10B 57/04 (2006.01) G01N 11/14 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING COAL OR CAKING ADDITIVE AND METHOD FOR PRODUCING COKE**
[54] **PROCEDE DE PREPARATION DE CHARBON OU DE MATERIAU DE LIAISON, ET PROCEDE DE FABRICATION DE COKE**
[72] AKISHIKA, ISSUI, JP
[72] DOHI, YUSUKE, JP
[72] IGAWA, DAISUKE, JP
[71] JFE STEEL CORPORATION, JP
[85] 2022-12-13
[86] 2021-08-05 (PCT/JP2021/029201)
[87] (WO2022/039044)
[30] JP (2020-137311) 2020-08-17

Demandes PCT entrant en phase nationale

[21] **3,182,617**
[13] A1

[51] **Int.Cl. B01D 3/10 (2006.01) B01D 3/14 (2006.01) C10G 21/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR OPTIMIZING MECHANICAL VAPOR COMPRESSION AND/OR THERMAL VAPOR COMPRESSION WITHIN MULTIPLE-STAGE PROCESSES**

[54] **PROCEDES ET SYSTEMES POUR OPTIMISER LA COMPRESSION DE VAPEUR MECANIQUE ET/OU LA COMPRESSION DE VAPEUR THERMIQUE DANS DES PROCESSUS A ETAGES MULTIPLES**

[72] CRAWFORD, LYNN, US
[72] SCHAFER, WILLIAM III, US
[71] ENERGY INTEGRATION, INC., US
[85] 2022-12-13
[86] 2021-07-14 (PCT/US2021/041505)
[87] (WO2022/015777)
[30] US (63/052,202) 2020-07-15
[30] US (63/172,150) 2021-04-08
[30] US (63/172,151) 2021-04-08
[30] US (17/374,962) 2021-07-13

[21] **3,182,619**
[13] A1

[51] **Int.Cl. E04H 17/26 (2006.01) E21B 7/02 (2006.01)**

[25] EN

[54] **METHOD OF ANCHORING POSTS**

[54] **PROCEDE D'ANCRAGE DE POTEAUX**

[72] OLSSON, ASHLEY DEAN, AU
[72] OLSSON, ASHLEY NORMAN, AU
[72] OLSSON, NATHANAEL DEAN, AU
[71] CLIPEX IP LIMITED, GB
[85] 2022-12-13
[86] 2021-07-08 (PCT/AU2021/050727)
[87] (WO2022/006631)
[30] AU (2020902349) 2020-07-08

[21] **3,182,620**
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/02 (2006.01) A61M 39/20 (2006.01)**

[25] EN

[54] **CATHETER TIP CONTROL DEVICE AND RELATED SYSTEMS**

[54] **DISPOSITIF DE COMMANDE D'EXTREMITES DE CATHETER ET SYSTEMES ASSOCIES**

[72] SCHERICH, MEGAN, US
[72] HARDING, WESTON F., US
[72] BLANCHARD, CURTIS H., US
[72] MA, YIPING, US
[72] LACKEY, JOHN, US
[71] BECTON, DICKINSON AND COMPANY, US

[85] 2022-12-13
[86] 2021-07-13 (PCT/US2021/041488)
[87] (WO2022/020142)
[30] US (63/055,216) 2020-07-22
[30] US (17/362,630) 2021-06-29

[21] **3,182,623**
[13] A1

[51] **Int.Cl. A01G 24/00 (2018.01) A01G 24/40 (2018.01) A01G 31/00 (2018.01)**

[25] EN

[54] **FLOATABLE ISLAND**

[54] **ILOT FLOTTANT**

[72] SCHWAMMBERGER, PETER, DE
[71] GOBLUE WATER GMBH, DE

[85] 2022-12-13
[86] 2021-06-18 (PCT/EP2021/066646)
[87] (WO2021/255253)
[30] DE (10 2020 116 158.1) 2020-06-18

[21] **3,182,626**
[13] A1

[51] **Int.Cl. A61K 31/4155 (2006.01) A61P 7/02 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **PLASMA KALLIKREIN INHIBITORS**

[54] **INHIBITEURS DE LA KALLICREINE PLASMATIQUE**

[72] JABRI, SALMAN, US
[72] OGAWA, ANTHONY KEN, US
[72] SINZ, CHRISTOPHER J., US
[72] HICKS, JACQUELINE D., US
[72] CHENG, ALAN C., US
[72] GAO, YING-DUO, US
[72] YANG, SONG, US
[72] BAO, JIANMING, US
[72] HAYES, DONNA A. A. W., US
[72] LANG, SIMON B., US
[72] TAOKA, BRANDON M., US
[72] TIAN, MAOQUN, US
[72] SHEARN-NANCE, GALEN PAUL, US
[72] KUANG, RONGZE, US
[72] LOMBARDO, MATTHEW J., US
[72] WU, ZHICAI, US
[72] ZHAO, ZHIQIANG, US
[71] MERCK SHARP & DOHME LLC, US

[85] 2022-12-13
[86] 2021-06-10 (PCT/US2021/036706)
[87] (WO2021/257353)
[30] US (63/039,873) 2020-06-16

[21] **3,182,627**
[13] A1

[51] **Int.Cl. C02F 3/00 (2006.01) C02F 1/52 (2006.01) C02F 3/30 (2006.01)**

[25] EN

[54] **A CONTROL SYSTEM OF A WASTEWATER TREATMENT PLANT**

[54] **SYSTEME DE COMMANDE D'UNE INSTALLATION DE TRAITEMENT DES EAUX USEES**

[72] HANSEN, BENGT, SE
[72] GRONFORS, OUTI, FI
[72] HALTTUNEN, SAKARI, FI
[72] RUOTSALAINEN, JUSSI, FI
[71] KEMIRA OYJ, FI

[85] 2022-12-13
[86] 2021-06-29 (PCT/FI2021/050501)
[87] (WO2022/003247)
[30] FI (20205693) 2020-06-29

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[21] 3,182,628 [13] A1	[21] 3,182,633 [13] A1	[21] 3,182,635 [13] A1
[51] Int.Cl. C04B 26/26 (2006.01) C04B 24/26 (2006.01) E01C 7/26 (2006.01) E01C 19/10 (2006.01)	[51] Int.Cl. C07D 233/32 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 513/04 (2006.01)	[51] Int.Cl. A61M 31/00 (2006.01) A61B 5/00 (2006.01) A61B 10/00 (2006.01) A61J 3/07 (2006.01) A61K 9/48 (2006.01)
[25] EN	[25] EN	[25] EN
[54] STRAIN TOLERANT RECYCLED BITUMINOUS PAVEMENT COMPOSITION	[54] 2-OXOIMIDAZOLIDINE-4-CARBOXAMIDES AS NAV1.8 INHIBITORS	[54] MAGNETICALLY ACTUATED CAPSULE
[54] COMPOSITION DE CHAUSSEE, BITUMINEUSE, RECYCLEE, TOLERANTE AUX CONTRAINTES	[54] 2-OXOIMIDAZOLIDINE-4-CARBOXAMIDES UTILISES EN TANT QU'INHIBITEURS DE NAV1.8	[54] CAPSULE MAGNETIQUEMENT ACTIONNEE
[72] LONGSHAW, MICHAEL WILLIAM, US	[72] ARASAPPAN, ASHOK, US	[72] DILLER, ERIC, CA
[72] CHRISTIAN, COREY DEAN, US	[72] BELL, IAN M., US	[72] SHOKROLLAHI, PEYMAN, CA
[71] ARMAZ PRODUCTS INC., US	[72] BUNGARD, CHRISTOPHER JAMES, US	[72] PARKINSON, JOHN, CA
[85] 2022-12-13	[72] BURGEY, CHRISTOPHER S., US	[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[86] 2021-06-16 (PCT/US2021/037587)	[72] COX, JASON M., US	[71] THE HOSPITAL FOR SICK CHILDREN, CA
[87] (WO2021/257676)	[72] KELLY, MICHAEL J., III, US	[85] 2022-12-13
[30] US (63/040,306) 2020-06-17	[72] LAYTON, MARK E., US	[86] 2021-06-28 (PCT/CA2021/050887)
[30] US (17/348,393) 2021-06-15	[72] LIU, HONG, US	[87] (WO2022/000078)
	[72] LIU, JIAN, US	[30] US (63/045,794) 2020-06-29
	[72] PERKINS, JAMES J., US	
	[72] SHAH, AKSHAY A., US	[21] 3,182,637 [13] A1
	[72] VANHEYST, MICHAEL DAVID, US	[51] Int.Cl. B65H 45/04 (2006.01) B65H 45/14 (2006.01)
	[72] WU, ZHE, US	[25] EN
	[71] MERCK SHARP & DOHME LLC, US	[54] METHOD AND APPARATUS FOR FOLDING A STACK OF SHEETS
	[85] 2022-12-13	[54] PROCEDE ET APPAREIL POUR PLIER UNE PILE DE FEUILLES
	[86] 2021-06-15 (PCT/US2021/037303)	[72] COURNOYER, DANIEL L., US
	[87] (WO2021/257490)	[72] DELLIER, BRUNO, US
	[30] US (63/040,461) 2020-06-17	[72] ROUSSET, ERIC, US
		[72] SOREL, PHILIPPE, US
	[21] 3,182,634 [13] A1	[71] AHLSTROM-MUNKSJO OYJ, FI
	[51] Int.Cl. A23L 3/04 (2006.01) C01B 11/02 (2006.01)	[85] 2022-12-13
	[25] EN	[86] 2020-09-30 (PCT/EP2020/077338)
	[54] APPARATUS AND METHOD FOR TREATING FOODSTUFF CONTAINERS	[87] (WO2021/254651)
	[54] INSTALLATION ET PROCEDE POUR TRAITER DES CONTENANTS A DENREES ALIMENTAIRES	[30] US (63/040,039) 2020-06-17
	[72] HANS, KLEMENS, AT	
	[72] HERZOG, DANIEL, AT	
	[71] RED BULL GMBH, AT	
	[85] 2022-12-13	
	[86] 2021-06-18 (PCT/EP2021/066698)	
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<p style="text-align: center;">[21] 3,182,640 [13] A1</p> <p>[51] Int.Cl. A23J 1/00 (2006.01) C13B 20/16 (2011.01) A23K 10/35 (2016.01) A23L 9/10 (2016.01) A23L 19/12 (2016.01) A23L 33/185 (2016.01) A23J 1/16 (2006.01) A23J 3/14 (2006.01) A23L 2/08 (2006.01) B01D 61/14 (2006.01) B01D 61/16 (2006.01) C07K 1/34 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR SEPARATION OF POTATO PROTEINS FROM PHENOLIC AND/OR GLYCOALKALOID COMPOUNDS</p> <p>[54] PROCEDE DE SEPARATION DE PROTEINES DE POMME DE TERRE DE COMPOSES PHENOLIQUES ET/OU GLYCOALCALOIDES</p> <p>[72] LIHME, ALLAN OTTO FOG, DK</p> <p>[72] HANSEN, MARIE BENDIX, DK</p> <p>[72] LINDVED, BODIL KJÆR, DK</p> <p>[72] JORDENS, RICK ADRIANUS PETRUS, NL</p> <p>[71] DUYNIE HOLDING B.V., NL</p> <p>[85] 2022-12-13</p> <p>[86] 2021-06-23 (PCT/EP2021/067206)</p> <p>[87] (WO2021/260038)</p> <p>[30] DK (PA 2020 70411) 2020-06-23</p> <p>[30] DK (PA 2020 70792) 2020-11-27</p>	<p style="text-align: center;">[21] 3,182,644 [13] A1</p> <p>[51] Int.Cl. A61K 9/14 (2006.01) B01J 2/02 (2006.01) B05B 3/10 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR MAKING MULTIPARTICULATES FROM A LIQUID FEED EMPLOYING A SPINNING DISC SPRAYER</p> <p>[54] PROCEDE DE FABRICATION DE MULTIPARTICULES A PARTIR D'UNE CHARGE LIQUIDE A L'AIDE D'UN PULVERISATEUR A DISQUE ROTATIF</p> <p>[72] BOUGH, JOSHUA P., GB</p> <p>[72] BOUQUET, JAN, BE</p> <p>[72] CRAIG, CHRISTOPHER D., US</p> <p>[72] HARRISON, NIGEL D., GB</p> <p>[72] PRATHER, CODY A., US</p> <p>[72] VAN GOOLEN, GUNTHER, BE</p> <p>[72] VANQUICKENBORNE, STEFAAN JAAK, BE</p> <p>[72] VERWILGHEN, BART, BE</p> <p>[71] CAPSUGEL BELGIUM NV, BE</p> <p>[85] 2022-12-13</p> <p>[86] 2021-06-15 (PCT/IB2021/055276)</p> <p>[87] (WO2021/255645)</p> <p>[30] US (63/041,024) 2020-06-18</p>	<p style="text-align: center;">[21] 3,182,648 [13] A1</p> <p>[51] Int.Cl. A23J 1/00 (2006.01) C13B 20/16 (2011.01) A23K 10/35 (2016.01) A23L 9/10 (2016.01) A23L 19/12 (2016.01) A23L 33/185 (2016.01) A23J 1/16 (2006.01) A23J 3/14 (2006.01) A23L 2/08 (2006.01) B01D 61/14 (2006.01) B01D 61/16 (2006.01) C07K 1/34 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR SEPARATION OF POTATO PROTEINS WITH REDUCED ENZYMATIC ACTIVITY FROM POTATO FRUIT JUICE</p> <p>[54] PROCEDE DE SEPARATION DE PROTEINES DE POMME DE TERRE AVEC UNE ACTIVITE ENZYMATIQUE REDUITE A PARTIR DE JUS DE FRUIT DE POMME DE TERRE</p> <p>[72] LIHME, ALLAN OTTO FOG, DK</p> <p>[72] HANSEN, MARIE BENDIX, DK</p> <p>[72] LINDVED, BODIL KJAER, DK</p> <p>[72] JORDENS, RICK ADRIANUS PETRUS, NL</p> <p>[71] DUYNIE HOLDING B.V., NL</p> <p>[85] 2022-12-13</p> <p>[86] 2021-06-23 (PCT/EP2021/067210)</p> <p>[87] (WO2021/260041)</p> <p>[30] DK (PA 2020 70411) 2020-06-23</p> <p>[30] DK (PA 2020 70792) 2020-11-27</p>

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[21] **3,182,650**
[13] A1

[51] **Int.Cl. B65G 45/16 (2006.01)**
[25] EN
[54] **CONVEYOR BELT SCRAPER SYSTEM WITH SIMPLE MAINTENANCE**
[54] **SYSTEME RACLEUR DE BANDE TRANSPORTEUSE A MAINTENANCE SIMPLE**
[72] KIEL, MARTIN, DE
[72] WEIMANN, CLAUS, DE
[71] KILL-FRECH, CORNELIA, DE
[85] 2022-12-13
[86] 2021-11-11 (PCT/EP2021/081411)
[87] (WO2022/112016)
[30] DE (10 2020 131 557.0) 2020-11-27
[30] DE (10 2020 131 558.9) 2020-11-27

[21] **3,182,652**
[13] A1

[51] **Int.Cl. B23K 26/361 (2014.01) B23K 26/354 (2014.01)**
[25] EN
[54] **LASER DEBURRING AND CHAMFERING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME D'EBAVURAGE ET DE CHANFREINAGE AU LASER**
[72] JI, JACKIE, US
[71] IPG (BEIJING) FIBER LASER TECHNOLOGY CO., LTD., CN
[85] 2022-12-13
[86] 2020-07-07 (PCT/US2020/040972)
[87] (WO2022/005491)
[30] CN (202010606817.9) 2020-06-29

[21] **3,182,660**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/05 (2021.01) A61B 6/00 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND DEVICES FOR MEDICAL IMAGE ANALYSIS, DIAGNOSIS, RISK STRATIFICATION, DECISION MAKING AND/OR DISEASE TRACKING**
[54] **SYSTEMES, PROCEDES ET DISPOSITIFS D'ANALYSE D'IMAGES MEDICALES, DE DIAGNOSTIC, DE STRATIFICATION DE RISQUE, DE PRISE DE DECISION ET/OU DE SUIVI DE MALADIE**

[72] MIN, JAMES K., US
[72] EARLS, JAMES P., US
[72] MARQUES, HUGO MIGUEL RODRIGUES, US
[72] HOOTNICK, BEN, US
[71] CLEERLY, INC., US
[85] 2022-12-13
[86] 2021-06-17 (PCT/US2021/037919)
[87] (WO2021/257893)
[30] US (63/041,252) 2020-06-19
[30] US (63/077,044) 2020-09-11
[30] US (63/077,058) 2020-09-11
[30] US (63/089,790) 2020-10-09
[30] US (17/142,120) 2021-01-05
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[30] US (63/201,142) 2021-04-14

[21] **3,182,661**
[13] A1

[51] **Int.Cl. C01B 3/36 (2006.01)**
[25] EN
[54] **STARTUP METHODS FOR OXIDATION REACTOR**
[54] **PROCEDES DE DEMARRAGE POUR REACTEUR D'OXYDATION**
[72] DAMSTEDT, BRADLEY D., US
[72] BOOL, LAWRENCE E., US
[72] RILEY, MICHAEL F., US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2022-12-13
[86] 2021-06-09 (PCT/US2021/036612)
[87] (WO2021/262440)
[30] US (63/042,232) 2020-06-22

[21] **3,182,662**
[13] A1

[51] **Int.Cl. C01B 3/36 (2006.01) C10K 3/04 (2006.01)**
[25] EN
[54] **FLEXIBLE METHOD OF PARTIAL OXIDATION**
[54] **PROCEDE FLEXIBLE D'OXYDATION PARTIELLE**
[72] BOOL, LAWRENCE E., US
[72] DAMSTEDT, BRADLEY D., US
[72] CHAKRAVARTI, SHRIKAR, US
[71] PRAXAIR TECHNOLOGY, INC., US
[85] 2022-12-13
[86] 2021-06-09 (PCT/US2021/036560)
[87] (WO2021/262438)
[30] US (63/042,144) 2020-06-22

[21] **3,182,663**
[13] A1

[51] **Int.Cl. H01H 33/662 (2006.01) H01H 33/666 (2006.01)**
[25] EN
[54] **SEPARABLE ELECTRICAL CONNECTOR WITH A SWITCHING APPARATUS**
[54] **CONNECTEUR ELECTRIQUE SEPARABLE AVEC APPAREIL DE COMMUTATION**
[72] KORVES, BRIAN, US
[72] HUGHES, DAVID C., US
[72] ROTH, DANIEL P., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2022-12-13
[86] 2021-06-18 (PCT/EP2021/025213)
[87] (WO2021/259517)
[30] US (63/042,629) 2020-06-23

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[21] **3,182,664**
[13] A1

[51] **Int.Cl. A23B 4/22 (2006.01) A23L 13/50 (2016.01) A23B 4/20 (2006.01) A23L 3/3526 (2006.01)**

[25] EN

[54] **CONTINUOUS FERMENTATION PROCESS FOR MEAT CURING AGENTS**

[54] **PROCEDE DE FERMENTATION CONTINUE POUR AGENTS DE SAUMURAGE DE VIANDE**

[72] SOMA, PAVAN KUMAR, US

[72] CANNON, KELLY, US

[71] FLORIDA FOOD PRODUCTS, LLC, US

[85] 2022-12-13

[86] 2021-06-15 (PCT/US2021/037501)

[87] (WO2021/257618)

[30] US (63/038,935) 2020-06-15

[30] US (17/348,606) 2021-06-15

[21] **3,182,665**
[13] A1

[51] **Int.Cl. H01M 4/13 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/36 (2006.01) H01M 4/58 (2010.01)**

[25] EN

[54] **PROCESSES FOR FORMING DOPED-METAL OXIDES THIN FILMS ON ELECTRODE FOR INTERPHASE CONTROL**

[54] **PROCESSUS DESTINES A FORMER DES PELLICULES MINCES D'OXYDES DE METAL DOPE SUR UNE ELECTRODE POUR LE CONTROLE D'INTERPHASE**

[72] KAMIMURA, SUNAO, JP

[72] DUSSARRAT, CHRISTIAN, JP

[72] KIM, SANGHOON, JP

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

[85] 2022-12-13

[86] 2021-06-22 (PCT/US2021/038453)

[87] (WO2021/262699)

[30] US (63/043,611) 2020-06-24

[21] **3,182,666**
[13] A1

[51] **Int.Cl. C07F 15/00 (2006.01) C23C 18/08 (2006.01)**

[25] EN

[54] **NOBLE METAL COMPLEXES COMPRISING DIOLEFIN AND C6-C18 MONOCARBOXYLATE LIGANDS FOR SURFACE COATING**

[54] **COMPLEXES DE METAUX NOBLES COMPRENANT UNE DIOLEFINE ET DES LIGANDS MONOCARBOXYLATE EN C6-C18 POUR REVETEMENT DE SURFACE**

[72] SIEVI, ROBERT, DE

[72] GOCK, MICHAEL, DE

[72] WALTER, RICHARD, DE

[71] HERAEUS DEUTSCHLAND GMBH & CO. KG, DE

[85] 2022-12-13

[86] 2020-07-08 (PCT/EP2020/069185)

[87] (WO2021/259505)

[30] EP (20182155.0) 2020-06-25

[21] **3,182,667**
[13] A1

[51] **Int.Cl. B65G 45/16 (2006.01)**

[25] EN

[54] **SCRAPER WITH AN EASILY REPLACEABLE SCRAPER ELEMENT**

[54] **RACLOIR DOTE D'UN ELEMENT RACLOIR FACILEMENT REMPLACABLE**

[72] WEIMANN, CLAUS, DE

[72] HEIDHUES, DIRK, DE

[71] KILL-FRECH, CORNELIA, DE

[85] 2022-12-13

[86] 2021-11-11 (PCT/EP2021/081412)

[87] (WO2022/112017)

[30] DE (10 2020 131 558.9) 2020-11-27

[30] DE (10 2020 131 557.0) 2020-11-27

[21] **3,182,712**
[13] A1

[51] **Int.Cl. G01P 5/00 (2006.01) G01P 5/26 (2006.01) G01S 7/48 (2006.01) G01S 17/58 (2006.01) G01S 17/95 (2006.01)**

[25] FR

[54] **METHOD FOR DETERMINING WIND VELOCITY COMPONENTS BY MEANS OF A LASER REMOTE SENSOR AND BY MEANS OF A TEMPORAL COHERENCE**

[54] **PROCEDE DE DETERMINATION DES COMPOSANTES DE LA VITESSE DU VENT AU MOYEN D'UN CAPTEUR DE TELEDETECTION PAR LASER ET AU MOYEN D'UNE COHERENCE TEMPORELLE**

[72] GUILLEMIN, FABRICE, FR

[72] SABIRON, GUILLAUME, FR

[72] GOUSSAULT, ROMAIN, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2022-12-14

[86] 2021-06-11 (PCT/EP2021/065839)

[87] (WO2022/002563)

[30] FR (FR2006816) 2020-06-29

[21] **3,182,714**
[13] A1

[51] **Int.Cl. B01J 29/48 (2006.01) B01J 29/78 (2006.01) B01J 29/80 (2006.01) C10G 45/64 (2006.01) C10G 65/04 (2006.01)**

[25] EN

[54] **PROCESS AND MATERIALS FOR TRIM DEWAXING OF DISTILLATES**

[54] **PROCEDE ET MATERIAUX DE DEPARAFFINAGE DE COMPENSATION DE DISTILLATS**

[72] STALZER, MADELYN, US

[72] GATT, JOSEPH, US

[72] BAI, CHUANSHENG, US

[72] OLIVERI, CHRISTOPHER, US

[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US

[85] 2022-12-14

[86] 2021-05-12 (PCT/US2021/031927)

[87] (WO2021/257207)

[30] US (63/040,294) 2020-06-17

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[21] **3,182,720**
[13] A1

[51] **Int.Cl. C22C 12/00 (2006.01) F42B 5/02 (2006.01) F42B 12/74 (2006.01) F42B 12/78 (2006.01)**

[25] EN

[54] **BISMUTH-BASED FIREARM PROJECTILES, FIREARM CARTRIDGES INCLUDING THE SAME, AND RELATED METHODS**

[54] **PROJECTILES D'ARME A FEU A BASE DE BISMUTH, CARTOUCHES D'ARME A FEU COMPRENANT CEUX-CI, ET PROCEDES ASSOCIES**

[72] NICHOLS, ROBERT CHARLES, US
[72] SMITH, ZACHARY HUGH, US
[72] NAUMAN, RALPH, US
[71] FEDERAL CARTRIDGE COMPANY, US

[85] 2022-12-13
[86] 2021-06-25 (PCT/US2021/039073)
[87] (WO2021/263093)
[30] US (63/044,209) 2020-06-25

[21] **3,182,722**
[13] A1

[51] **Int.Cl. B65D 75/32 (2006.01) B65D 77/20 (2006.01)**

[25] EN

[54] **CONTACT LENS PACKAGES AND METHODS OF USE**

[54] **PLAQUETTES DE LENTILLE DE CONTACT ET PROCEDES D'UTILISATION**

[72] ELLIS, MATTHEW JOHN, GB
[72] NOYCE, TIMOTHY, GB
[72] SLUKA, DMITRIJUS, GB
[71] COOPERVISION INTERNATIONAL LIMITED, GB

[85] 2022-12-14
[86] 2021-06-18 (PCT/GB2021/051560)
[87] (WO2021/260353)
[30] US (63/042,575) 2020-06-23

[21] **3,182,725**
[13] A1

[51] **Int.Cl. B60G 17/016 (2006.01) B60G 17/0165 (2006.01) B60G 17/018 (2006.01) B60G 17/019 (2006.01) B60G 17/08 (2006.01)**

[25] EN

[54] **ADJUSTABLE SUSPENSIONS AND VEHICLE OPERATION FOR OFF-ROAD RECREATIONAL VEHICLES**

[54] **SUSPENSIONS REGLABLES ET FONCTIONNEMENT DE VEHICULE POUR VEHICULES DE LOISIR HORS-ROUTE**

[72] BLAIR, KEVIN P., US
[72] GRAUS, JONATHAN P., US
[72] HELGESON, DAVID D., US
[72] ANDERSON, JUSTIN T., US
[72] HORKY, JACOB P., US
[72] OLSON, KYLE W., US
[71] POLARIS INDUSTRIES INC., US

[85] 2022-12-14
[86] 2021-07-19 (PCT/US2021/042230)
[87] (WO2022/016155)
[30] US (63/053,278) 2020-07-17
[30] US (63/183,554) 2021-05-03
[30] US (63/216,341) 2021-06-29

[21] **3,182,728**
[13] A1

[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/37 (2006.01) A61K 8/39 (2006.01) A61K 8/81 (2006.01) A61K 8/86 (2006.01)**

[25] EN

[54] **COSMETIC COMPOSITION FOR IMPROVING APPEARANCE OF SKIN**

[54] **COMPOSITION COSMETIQUE POUR AMELIORER L'ASPECT DE LA PEAU**

[72] KULKARNI, ADITI JAYAVANT, IN
[72] PAWAR, ANKITA RUTU, IN
[71] UNILEVER GLOBAL IP LIMITED, GB

[85] 2022-12-14
[86] 2021-06-10 (PCT/EP2021/065706)
[87] (WO2021/259663)
[30] EP (20181717.8) 2020-06-23

[21] **3,182,730**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/357 (2006.01) A61P 29/02 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ADMINISTRATION OF RESINIFERATOXIN FOR TREATMENT OF BLADDER PAIN OR BLADDER CANCER**

[54] **ADMINISTRATION DE RESINIFERATOXINE POUR LE TRAITEMENT D'UNE DOULEUR A LA VESSIE OU DU CANCER DE LA VESSIE**

[72] NAHAMA, ALEXIS, US
[72] JI, HENRY HONGJUN, US
[71] SORRENTO THERAPEUTICS, INC., US

[85] 2022-12-14
[86] 2021-06-18 (PCT/US2021/038038)
[87] (WO2021/257956)
[30] US (63/041,577) 2020-06-19
[30] US (63/120,044) 2020-12-01

[21] **3,182,731**
[13] A1

[51] **Int.Cl. A61L 9/20 (2006.01)**

[25] EN

[54] **TWO STAGE AIR PURIFICATION SYSTEM FOR ENCLOSED LOCATIONS**

[54] **SYSTEME DE PURIFICATION D'AIR A DEUX ETAGES POUR EMPLACEMENTS FERMES**

[72] STELMACH, RICHARD, US
[72] JONES, JUSTIN, US
[72] BOWIE, TYLER, US
[72] LOWE, JEREMY, US
[71] KNORR BRAKE COMPANY LLC, US

[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037342)
[87] (WO2021/257511)
[30] US (63/039,622) 2020-06-16
[30] US (17/195,867) 2021-03-09

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[21] **3,182,732**
[13] A1

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 13/15 (2006.01) A61M 25/02 (2006.01)**
[25] EN
[54] **CATHETER SHIELD**
[54] **PROTECTION DE CATHETER**
[72] BUSHY, ITA, US
[71] BUSHY, ITA, US
[85] 2022-12-14
[86] 2021-04-07 (PCT/US2021/026132)
[87] (WO2021/207328)
[30] US (63/006,280) 2020-04-07
[30] US (17/224,383) 2021-04-07

[21] **3,182,735**
[13] A1

[51] **Int.Cl. A61K 8/41 (2006.01)**
[25] EN
[54] **SANITIZING COMPOSITION**
[54] **COMPOSITION DESINFECTANTE**
[72] DASGUPTA, ANINDYA, IN
[72] GENCARELLI, SUZANNE LYNN, US
[72] KRISIAK, JESSICA ANN, US
[72] SAJI, MAYA TREESA, IN
[72] SALGAONKAR, NEHA, IN
[72] SUBRAMANIAN, VIVEK, US
[72] YOKUBINAS, LEONORA H., US
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2022-12-14
[86] 2021-06-28 (PCT/EP2021/067750)
[87] (WO2022/002882)
[30] IN (202021027813) 2020-06-30
[30] EP (20198202.2) 2020-09-24

[21] **3,182,736**
[13] A1

[51] **Int.Cl. G01N 21/63 (2006.01) G01N 21/64 (2006.01) G01N 21/84 (2006.01)**
[25] EN
[54] **DUVF-MSI BIOPHOTONIC ANALYZER DEVICE AND METHODS FOR DETECTING PATHOGENS ON PLANTS AND MEASURING STRESS RESPONSE**
[54] **DISPOSITIF D'ANALYSE BIOPHOTONIQUE DUVF-MSI ET PROCEDES DE DETECTION D'AGENTS PATHOGENES SUR DES PLANTES ET DE MESURE DE REPOSE AU STRESS**
[72] RAGONE, ANTHONY S., US
[71] CIPO, CA
[71] SPEK CITON BIOSCIENCES LLC, US
[85] 2022-12-14
[86] 2021-06-22 (PCT/US2021/038447)
[87] (WO2022/005812)
[30] US (63/045,578) 2020-06-29

[21] **3,182,743**
[13] A1

[51] **Int.Cl. H01M 4/04 (2006.01) H01M 4/134 (2010.01) H01M 4/1395 (2010.01) H01M 10/052 (2010.01) H01M 10/056 (2010.01) H01M 10/0562 (2010.01) H01M 10/0585 (2010.01) H01M 50/117 (2021.01) H01M 50/121 (2021.01) H01M 50/124 (2021.01) H01M 4/02 (2006.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01) H01M 4/66 (2006.01) H01M 10/04 (2006.01) H01M 50/128 (2021.01) H01M 50/129 (2021.01)**
[25] FR
[54] **HIGH ENERGY AND POWER DENSITY ANODE FOR BATTERIES**
[54] **ANODE DE FORTE DENSITE D'ENERGIE ET DE PUISSANCE POUR BATTERIES**
[72] GABEN, FABIEN, FR
[71] I-TEN, FR
[85] 2022-12-14
[86] 2021-06-23 (PCT/IB2021/055537)
[87] (WO2021/260571)
[30] FR (2006530) 2020-06-23

[21] **3,182,746**
[13] A1

[51] **Int.Cl. C23C 14/04 (2006.01) C23C 16/04 (2006.01) G02B 5/18 (2006.01) G02B 6/00 (2006.01) G02B 27/01 (2006.01)**
[25] EN
[54] **MANUFACTURING METHOD OF OPTICAL ELEMENT, OPTICAL ELEMENT AND APPARATUS FOR MANUFACTURING OPTICAL ELEMENT**
[54] **PROCEDE DE FABRICATION D'UN ELEMENT OPTIQUE, ELEMENT OPTIQUE ET APPAREIL DE FABRICATION D'ELEMENT OPTIQUE**
[72] ERDMANIS, MIKHAIL, FI
[71] DISPELIX OY, FI
[85] 2022-12-14
[86] 2021-06-09 (PCT/FI2021/050428)
[87] (WO2021/255332)
[30] FI (20205642) 2020-06-17

[21] **3,182,747**
[13] A1

[51] **Int.Cl. A61L 9/20 (2006.01)**
[25] EN
[54] **THREE STAGE AIR PURIFICATION FOR RAIL VEHICLES**
[54] **PURIFICATION D'AIR A TROIS ETAGES DE VEHICULES FERROVIAIRES**
[72] STELMACH, RICHARD, US
[72] JONES, JUSTIN, US
[72] BOWIE, TYLER, US
[71] KNORR BRAKE COMPANY LLC, US
[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037315)
[87] (WO2021/257498)
[30] US (63/039,622) 2020-06-16
[30] US (17/195,867) 2021-03-09

[21] **3,182,748**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **VE-PTP INHIBITORS**
[54] **INHIBITEURS DE VE-PTP**
[72] RYCZKO, MICHAEL, CA
[71] RIPKA, AMY, US
[71] MANNIN RESEARCH INC., CA
[71] RYCZKO, MICHAEL, CA
[85] 2022-12-14
[86] 2021-06-16 (PCT/US2021/037714)
[87] (WO2021/257754)
[30] US (63/039,764) 2020-06-16

[21] **3,182,752**
[13] A1

[51] **Int.Cl. E21B 7/04 (2006.01) E21B 7/06 (2006.01) E21B 10/54 (2006.01)**
[25] EN
[54] **ENHANCED DRILL BIT PROFILE FOR USE IN HDD**
[54] **PROFIL DE TREPAN AMELIORE DESTINE A ETRE UTILISE EN HDD**
[72] MORE, MARK, US
[72] WESSING, JAMES, US
[72] GIESE, TINA, US
[72] PLACEK, CASEY, US
[71] KONDEX CORPORATION, US
[85] 2022-12-14
[86] 2021-07-20 (PCT/US2021/042328)
[87] (WO2022/020321)
[30] US (63/054,755) 2020-07-21
[30] US (17/380,322) 2021-07-20

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[21] **3,182,755**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A61K 33/26 (2006.01) A61K 38/17 (2006.01)**

[25] EN

[54] **NUTRITIONAL FORMULA**

[54] **FORMULE NUTRITIONNELLE**

[72] MCGRATH, JAMES W. JR., US

[72] MANNING, PAUL B., US

[72] SCAVOLA, EUGENE R., US

[71] BUILDING BLOCK NUTRITIONALS, LLC, US

[85] 2022-12-14

[86] 2021-06-15 (PCT/US2021/037403)

[87] (WO2021/257543)

[30] US (63/039,316) 2020-06-15

[21] **3,182,756**
[13] A1

[51] **Int.Cl. A61K 49/18 (2006.01)**

[25] EN

[54] **IMMUNOGENIC CONSTRUCTS, COMPOSITIONS, AND METHODS FOR INDUCING IMMUNE RESPONSE**

[54] **CONSTRUCTIONS IMMUNOGENES, COMPOSITIONS, ET METHODES POUR L'INDUCTION DE REPONSES IMMUNITAIRES**

[72] YANTASEE, WASSANA, US

[72] REDA, SHERIF, US

[72] REDA, MOATAZ, US

[72] NGAMCHERDTRAKUL, WORAPOL, US

[72] WANG, RUIJIE, US

[71] OREGON HEALTH & SCIENCE UNIVERSITY, US

[71] PDX PHARMACEUTICALS, INC., US

[85] 2022-12-14

[86] 2021-07-13 (PCT/US2021/041487)

[87] (WO2022/015766)

[30] US (63/051,351) 2020-07-13

[21] **3,182,758**
[13] A1

[51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/24 (2006.01)**

[25] EN

[54] **METHOD FOR NON-DESTRUCTIVELY TESTING OBJECTS, IN PARTICULAR PLANAR OBJECTS, MADE OF A FIBRE-REINFORCED COMPOSITE MATERIAL**

[54] **ROCEDE DE CONTROLE NON DESTRUCTIVE D-OBJETS CONCUS EN PARTICULIER DE MANIERE PLANE, A BASE DE MATIERE COMPOSITE RENFORCEE PAR FIBRES**

[72] ROELFES, TOBIAS, DE

[72] KRUMPEL, HANNA, DE

[71] ROSEN SWISS AG, CH

[85] 2022-12-14

[86] 2021-06-16 (PCT/EP2021/066281)

[87] (WO2021/255114)

[30] DE (10 2020 116 174.3) 2020-06-18

[21] **3,182,759**
[13] A1

[51] **Int.Cl. C21D 1/10 (2006.01) C21D 1/42 (2006.01) H05B 6/02 (2006.01) H05B 6/10 (2006.01) H05B 6/36 (2006.01) H05B 6/44 (2006.01)**

[25] EN

[54] **TRANSVERSE FLUX INDUCTION HEATING DEVICE FOR HEATING FLAT PRODUCT**

[54] **DISPOSITIF DE CHAUFFAGE PAR INDUCTION A FLUX TRANSVERSAL POUR CHAUFFER UN PRODUIT PLAT**

[72] LAZOR, DAVID, US

[71] AJAX TOCCO MAGNETHERMIC CORPORATION, US

[85] 2022-12-14

[86] 2021-06-25 (PCT/US2021/039095)

[87] (WO2021/263107)

[30] US (63/045,000) 2020-06-26

[21] **3,182,765**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01) F03D 80/40 (2016.01)**

[25] EN

[54] **WIND TURBINE BLADE CONTROL FOR A DEGRADATION STATE OF THE BLADE**

[54] **COMMANDE DE PALE D'EOLIENNE POUR ETAT DE DEGRADATION DE LA PALE**

[72] GRUNNET, JACOB DELEURAN, DK

[72] NICHOLS, JAMES ALEXANDER, DK

[72] CAPONETTI, FABIO, DK

[72] VASUDEVAN, KARTHIK, DK

[71] VESTAS WIND SYSTEMS A/S, DK

[85] 2022-12-14

[86] 2021-06-10 (PCT/DK2021/050182)

[87] (WO2021/254573)

[30] DK (PA 2020 70384) 2020-06-15

[30] DK (PA 2021 70184) 2021-04-23

[21] **3,182,766**
[13] A1

[51] **Int.Cl. B63H 25/38 (2006.01) B63H 5/07 (2006.01) B63H 5/08 (2006.01)**

[25] EN

[54] **RUDDER**

[54] **GOVERNAIL**

[72] KURIBAYASHI, SADATOMO, JP

[72] SASAKI, NORIYUKI, JP

[71] KAY SEVEN CO., LTD., JP

[85] 2022-12-14

[86] 2021-07-26 (PCT/JP2021/027488)

[87] (WO2022/044644)

[30] JP (2020-143796) 2020-08-27

[21] **3,182,768**
[13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 41/10 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **BIOCIDE COMPOSITIONS**

[54] **COMPOSITIONS BIOCIDES**

[72] KLIMA, RODNEY F., US

[72] OESTER, DEAN A, US

[71] BASF SE, DE

[85] 2022-12-14

[86] 2021-06-24 (PCT/EP2021/067358)

[87] (WO2022/002753)

[30] US (63/045,564) 2020-06-29

[30] EP (20188097.8) 2020-07-28

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[21] **3,182,769**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **PRECISION RADIOIMMUNOTHERAPEUTIC TARGETING OF THE UROKINASE PLASMINOGEN ACTIVATOR RECEPTOR (UPAR) FOR TREATMENT OF SEVERE COVID-19 DISEASE**
[54] **CIBLAGE RADIOIMMUNOTHERAPEUTIQUE DE PRECISION DU RECEPTEUR DE L'ACTIVATEUR DU PLASMINOGENE DE L'UROKINASE (UPAR) POUR LE TRAITEMENT D'UNE COVID-19 GRAVE**
[72] MAZAR, ANDREW P., US
[72] HARVEY, JAMES T., US
[71] MONOPAR THERAPEUTICS INC., US
[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037416)
[87] (WO2021/257552)
[30] US (63/039,299) 2020-06-15

[21] **3,182,771**
[13] A1

[51] **Int.Cl. F01B 9/02 (2006.01) F02B 25/02 (2006.01) F16C 9/04 (2006.01)**
[25] EN
[54] **INTERNAL COMBUSTION ENGINE HAVING A GAS EXCHANGE CHAMBER**
[54] **MOTEUR A COMBUSTION INTERNE AYANT UNE CHAMBRE D'ECHANGE DE GAZ**
[72] YAAKOBY, SHAUL, IL
[71] AQUARIUS ENGINES (A.M.) LTD., IL
[71] AQUARIUS ENGINES (A.M.) LTD., IL
[85] 2022-12-14
[86] 2020-11-16 (PCT/IB2020/060777)
[87] (WO2021/260425)
[30] US (63/044,096) 2020-06-25

[21] **3,182,772**
[13] A1

[51] **Int.Cl. A61M 5/315 (2006.01)**
[25] EN
[54] **INJECTION MONITORING MODULE**
[54] **MODULE DE SURVEILLANCE D'INJECTION**
[72] MARCOZ, ALAIN, FR
[71] BIOCORP PRODUCTION S.A, FR
[85] 2022-12-14
[86] 2020-06-23 (PCT/IB2020/000580)
[87] (WO2021/260404)

[21] **3,182,776**
[13] A1

[51] **Int.Cl. B60L 53/12 (2019.01) B60L 53/00 (2019.01) B60L 53/10 (2019.01) B60L 53/16 (2019.01) B60L 53/50 (2019.01)**
[25] EN
[54] **ELECTRIC VEHICLE CHARGING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE CHARGE DE VEHICULE ELECTRIQUE**
[72] KULKARNI, SHREYAS B., US
[72] KANDULA, RAJENDRA PRASAD, US
[72] DIVAN, DEEPAKRAJ M., US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2022-12-14
[86] 2021-06-18 (PCT/US2021/038042)
[87] (WO2021/257959)
[30] US (63/041,631) 2020-06-19

[21] **3,182,777**
[13] A1

[51] **Int.Cl. G01S 7/48 (2006.01) G01S 17/931 (2020.01) G01S 7/497 (2006.01) G01S 7/52 (2006.01) G01S 7/539 (2006.01) G01S 17/87 (2020.01) G01S 13/931 (2020.01) G01S 15/931 (2020.01) G01S 7/41 (2006.01) G01S 13/87 (2006.01) G01S 15/87 (2006.01)**
[25] EN
[54] **SELF-TEST METHOD FOR A RANGING SENSOR-ARRANGEMENT OF A WORK MACHINE**
[54] **PROCEDE D'AUTO-TEST POUR UN AGENCEMENT DE CAPTEUR DE MESURE DE DISTANCE D'UNE MACHINE DE TRAVAIL**
[72] LARSSON, JOHAN, SE
[72] KALANDER, JAN, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2022-12-14
[86] 2021-06-02 (PCT/SE2021/050510)
[87] (WO2022/005357)
[30] SE (2030214-7) 2020-06-29

[21] **3,182,779**
[13] A1

[51] **Int.Cl. G06T 7/13 (2017.01) E21B 47/002 (2012.01)**
[25] EN
[54] **COMPUTATIONAL SCRIPT FOR TREATING IMAGE AND ITS APPLICATION IN A METHOD FOR DETERMINING IMAGE FACIES**
[54] **SCRIPT DE PROGRAMMATION POUR LE TRAITEMENT D'IMAGES ET SON APPLICATION DANS UN PROCEDE DE DETERMINATION D'IMAGES FACIOLOGIQUES**
[72] DE SOUZA FIORITI, LENITA, BR
[72] FLORES DE MELLO JUNIOR, ALTANIR, BR
[71] PETROLEO BRASILEIRO S. A. - PETROBRAS, BR
[85] 2022-12-14
[86] 2021-06-15 (PCT/BR2021/050259)
[87] (WO2021/258170)
[30] BR (BR 10 2020 012943 0) 2020-06-24

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[21] 3,182,780 [13] A1	[21] 3,182,787 [13] A1	[21] 3,182,791 [13] A1
<p>[51] Int.Cl. B60N 2/28 (2006.01) [25] EN [54] CHILD SAFETY SEAT AND SIDE COLLISION PROTECTION MECHANISM THEREOF [54] SIEGE DE SECURITE POUR ENFANT ET SON MECANISME DE PROTECTION CONTRE LES COLLISIONS LATERALES [72] XIAOLONG, MO, CN [71] BAMBINO PREZIOSO SWITZERLAND AG, CH [85] 2022-12-14 [86] 2021-06-16 (PCT/EP2021/066322) [87] (WO2021/255133) [30] CN (202010571212.0) 2020-06-19</p>	<p>[51] Int.Cl. B30B 9/24 (2006.01) A22C 17/04 (2006.01) [25] EN [54] APPARATUS AND METHOD FOR SEPARATING SUBSTANCES OF DIFFERENT FLOWABILITY THAT ARE MIXED TOGETHER [54] APPAREIL ET PROCEDE POUR SEPARER DES SUBSTANCES MELANGEES PRESENTANT UNE APTITUDE A L'ECOULEMENT DIFFERENTE [72] TOBEY, ANDREAS, DE [72] MEINLSCHMIDT, PIA, DE [72] HARTLEIN, JOACHIM, DE [72] FUCHS, MICHAEL, DE [72] HANF, FRIEDEMANN, DE [72] DOLEZSAJ, LASZLO, DE [71] NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, DE [71] LINDE GMBH, DE [85] 2022-12-14 [86] 2021-07-14 (PCT/EP2021/069645) [87] (WO2022/013305) [30] DE (10 2020 118 720.3) 2020-07-15</p>	<p>[51] Int.Cl. A23L 2/52 (2006.01) A61K 31/19 (2006.01) A61K 31/47 (2006.01) [25] EN [54] AN INTERMITTENT FASTING BAR/DRINK THAT MAINTAINS AND EXTENDS THE FASTING STATE [54] BARRE/BOISSON POUR JEUNE INTERMITTENT QUI MAINTIENT ET PROLONGE L'ETAT DE JEUNE [72] SCHIRANO, FABRIZIO, US [71] L-NUTRA INC., US [85] 2022-12-14 [86] 2021-06-14 (PCT/US2021/037251) [87] (WO2021/257465) [30] US (63/038,894) 2020-06-14 [30] US (63/105,322) 2020-10-25</p>
[21] 3,182,784 [13] A1	[21] 3,182,788 [13] A1	[21] 3,182,792 [13] A1
<p>[51] Int.Cl. H02M 1/00 (2007.10) H02M 1/08 (2006.01) H03K 7/00 (2006.01) H03K 7/08 (2006.01) [25] EN [54] SYNCHRONOUS REVERSE BLOCKING SWITCH FOR SOFT-SWITCHING CURRENT SOURCE CONVERTERS AND SOFT-SWITCHING CURRENT SOURCE CONVERTERS INCLUDING THE SAME [54] COMMUTATEUR DE BLOCAGE INVERSE SYNCHRONE POUR CONVERTISSEURS DE SOURCE DE COURANT A COMMUTATION DOUCE ET CONVERTISSEURS DE SOURCE DE COURANT A COMMUTATION DOUCE LE COMPRENANT [72] MARELLAPUDI, ANIRUDDH, US [72] MAUGER, MICKAEL J., US [72] KANDULA, RAJENDRA PRASAD, US [72] DIVAN, DEEPAKRAJ M., US [71] GEORGIA TECH RESEARCH CORPORATION, US [85] 2022-12-14 [86] 2021-06-21 (PCT/US2021/038232) [87] (WO2021/258046) [30] US (63/041,632) 2020-06-19</p>	<p>[51] Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/00 (2006.01) A61K 31/4706 (2006.01) A61K 31/513 (2006.01) A61K 31/675 (2006.01) A61K 31/683 (2006.01) A61K 31/706 (2006.01) A61K 47/10 (2017.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/18 (2006.01) [25] EN [54] PHARMACEUTICAL COMPOSITIONS FOR TREATING INFECTIONS BY A NEUROTROPIC VIRUS [54] COMPOSITIONS PHARMACEUTIQUES POUR LE TRAITEMENT D'INFECTIONS PAR UN VIRUS NEUROTROPE [72] BENECH, HENRI, FR [72] MABONDZO, ALOISE, FR [72] JOUDINAUD, THOMAS, FR [71] CERES BRAIN THERAPEUTICS, FR [71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA), FR [85] 2022-12-14 [86] 2021-07-15 (PCT/EP2021/069761) [87] (WO2022/013353) [30] EP (20305807.8) 2020-07-15</p>	<p>[51] Int.Cl. A23L 2/56 (2006.01) [25] EN [54] TASTE-NEUTRAL BITTER BLOCKER AND USES THEREOF [54] AGENT DE BLOCAGE D'AMERTUME NEUTRE AU GOUT ET SES UTILISATIONS [72] KACANI, LACO, AT [71] KACANI, LACO, AT [85] 2022-12-14 [86] 2021-06-28 (PCT/EP2021/067702) [87] (WO2022/002852) [30] EP (20183003.1) 2020-06-29</p>

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[21] **3,182,793**
[13] A1

[51] **Int.Cl. A61K 47/55 (2017.01) A61K 47/54 (2017.01) A61K 47/59 (2017.01) A61K 47/64 (2017.01)**

[25] EN

[54] **CONJUGATE OF A SINGLE DOMAIN ANTIBODY, A SAPONIN AND AN EFFECTOR MOLECULE, PHARMACEUTICAL COMPOSITION COMPRISING THE SAME, THERAPEUTIC USE OF SAID PHARMACEUTICAL COMPOSITION**

[54] **CONJUGUE D'UN ANTICORPS A DOMAINE UNIQUE, D'UNE SAPONINE ET D'UNE MOLECULE EFFECTRICE, COMPOSITION PHARMACEUTIQUE LE COMPRENANT, ET UTILISATION THERAPEUTIQUE DE LADITE COMPOSITION PHARMACEUTIQUE**

[72] POSTEL, RUBEN, NL
[72] HERMANS, GUY, NL
[72] FUCHS, HENDRIK, DE
[71] SAPREME TECHNOLOGIES B.V., NL

[85] 2022-12-14
[86] 2020-07-09 (PCT/EP2020/069340)
[87] (WO2021/259507)
[30] NL (2025900) 2020-06-24

[21] **3,182,795**
[13] A1

[51] **Int.Cl. G06N 10/00 (2022.01)**

[25] EN

[54] **ACTIVE STABILIZATION OF COHERENT CONTROLLERS USING NEARBY QUBITS**

[54] **STABILISATION ACTIVE DE CONTROLEURS COHERENTS A L'AIDE DE BITS QUANTIQUES PROCHES**

[72] KIM, JUNGSANG, US
[72] BROWN, KENNETH, US
[72] MONROE, CHRISTOPHER, US
[71] UNIVERSITY OF MARYLAND COLLEGE PARK, US

[71] DUKE UNIVERSITY, US

[85] 2022-12-14
[86] 2021-06-30 (PCT/US2021/039777)
[87] (WO2022/039842)
[30] US (63/046,559) 2020-06-30
[30] US (17/362,810) 2021-06-29

[21] **3,182,800**
[13] A1

[51] **Int.Cl. C12N 9/64 (2006.01) C12N 15/57 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **COMPLEMENT FACTOR I-RELATED COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES ASSOCIES AU FACTEUR I DU COMPLEMENT**

[72] BLOUSE, GRANT E., US
[72] KUMAR, BRAJESH, US
[72] KNUDSEN, TOM, US
[72] JENSEN, JAN KRISTIAN, DK
[72] OLDENBURG, EMIL, DK
[72] SCHAR, CHRISTINE RENE, DK
[72] TRAYLOR, MATTHEW JOHN, US
[72] FURFINE, ERIC STEVEN, US
[72] WAY, JEFFREY CHARLES, US
[72] JENDROSZEK, AGNIESZKA, DK
[72] SANDIKCI, ARZU, US
[72] MCGUIRE, JIM, US
[72] IYER, SHYAM RAJAN, US
[72] LE MOAN, NATACHA, US
[71] VERTEX PHARMACEUTICALS INC., US

[85] 2022-12-14
[86] 2021-06-14 (PCT/US2021/037278)
[87] (WO2021/257480)
[30] US (63/038,874) 2020-06-14
[30] US (63/122,437) 2020-12-07
[30] US (63/124,698) 2020-12-11
[30] US (63/179,160) 2021-04-23

[21] **3,182,801**
[13] A1

[51] **Int.Cl. G08G 1/00 (2006.01) G08G 1/07 (2006.01) G08G 1/08 (2006.01) G08G 1/09 (2006.01)**

[25] EN

[54] **DYNAMIC ACTIVATION OF VIRTUAL PHASE SELECTORS FOR CONTROL OF TRAFFIC SIGNAL PREEMPTION**

[54] **ACTIVATION DYNAMIQUE DE SELECTEURS DE PHASE VIRTUELLE PERMETTANT LA COMMANDE DE LA PRIORITE D'UN FEU DE CIRCULATION**

[72] EDWARDSON, DAVID JOHN, US
[71] GLOBAL TRAFFIC TECHNOLOGIES, LLC, US

[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037458)
[87] (WO2021/257584)
[30] US (16/902,454) 2020-06-16

[21] **3,182,804**
[13] A1

[51] **Int.Cl. F01B 9/02 (2006.01) F02B 25/02 (2006.01) F16C 9/04 (2006.01)**

[25] EN

[54] **TWO-STROKE ENGINE WITH BLOWBY-GAS EXCHANGE AND VARIABLE COMBUSTION CHAMBER**

[54] **MOTEUR A DEUX TEMPS AVEC ECHANGE DE GAZ DE SOUFFLAGE ET CHAMBRE DE COMBUSTION VARIABLE**

[72] YAAKOBY, SHAUL, IL
[71] AQUARIUS ENGINES (A.M.) LTD., IL

[85] 2022-12-14
[86] 2021-06-25 (PCT/IB2021/055697)
[87] (WO2021/260645)
[30] US (63/044,096) 2020-06-25

[21] **3,182,808**
[13] A1

[51] **Int.Cl. A01C 1/06 (2006.01) A01N 25/32 (2006.01) A01N 59/02 (2006.01) C01B 21/068 (2006.01)**

[25] EN

[54] **ANTIPATHOGENIC DEVICES AND METHODS THEREOF FOR ANTIFUNGAL APPLICATIONS**

[54] **DISPOSITIFS ANTI-PATHOGENES ET PROCEDES ASSOCIES POUR APPLICATIONS ANTIFONGIQUES**

[72] MCENTIRE, BRYAN J., US
[72] BOCK, RYAN M., US
[72] BAL, BHAJANJIT SINGH, US
[71] SINTX TECHNOLOGIES, INC., US

[85] 2022-12-14
[86] 2021-06-22 (PCT/US2021/038364)
[87] (WO2021/262642)
[30] US (63/042,859) 2020-06-23

PCT Applications Entering the National Phase

[21] **3,182,809**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61F 13/42 (2006.01) G01N 27/02 (2006.01) G01N 33/493 (2006.01)**

[25] EN

[54] **METHOD OF ASSESSING A DEGREE OF SATURATION OF AN ABSORBENT HYGIENE ARTICLE**

[54] **PROCEDE D'EVALUATION D'UN DEGRE DE SATURATION D'UN ARTICLE SANITAIRE ABSORBANT**

[72] MOREIRA CORREIA, RUI PEDRO, SE

[72] SILLERSTROM, FILIP, SE

[72] OMBERG, NILS ERIK JOHANNES, SE

[72] ROJO PEREZ, BORJA MOISES, SE

[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE

[85] 2022-12-14

[86] 2020-06-30 (PCT/EP2020/068362)

[87] (WO2022/002362)

[21] **3,182,811**
[13] A1

[51] **Int.Cl. B60C 11/00 (2006.01) B60C 1/00 (2006.01)**

[25] FR

[54] **TYRE HAVING IMPROVED ROLLING RESISTANCE PROPERTIES**

[54] **PNEUMATIQUE PRESENTANT DES PROPRIETES DE RESISTANCE AU ROULEMENT AMELIOREES**

[72] REHAB, HICHEM, FR

[72] FLEURY, ETIENNE, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2022-12-14

[86] 2021-06-29 (PCT/FR2021/051193)

[87] (WO2022/008817)

[30] FR (FR2007182) 2020-07-07

[21] **3,182,813**
[13] A1

[51] **Int.Cl. B60C 1/00 (2006.01) B60C 11/00 (2006.01)**

[25] FR

[54] **TYRE HAVING IMPROVED PROPERTIES OF ENDURANCE AND ROLLING RESISTANCE**

[54] **PNEUMATIQUE PRESENTANT DES PROPRIETES D'ENDURANCE ET DE RESISTANCE AU ROULEMENT AMELIOREES**

[72] FLEURY, ETIENNE, FR

[72] REHAB, HICHEM, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2022-12-14

[86] 2021-06-29 (PCT/FR2021/051194)

[87] (WO2022/008818)

[30] FR (FR2007184) 2020-07-07

[21] **3,182,816**
[13] A1

[51] **Int.Cl. A47K 5/06 (2006.01) A47K 10/32 (2006.01) E05B 1/00 (2006.01) E05B 47/00 (2006.01) E05B 47/06 (2006.01)**

[25] EN

[54] **DISPENSER WITH ELECTRONIC LOCK**

[54] **DISTRIBUTEUR A VERROU ELECTRONIQUE**

[72] KLING, ROBERT, SE

[72] KALLGREN, ANTONIO, SE

[72] HENSON, MARK W., US

[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE

[85] 2022-12-14

[86] 2020-06-22 (PCT/SE2020/050644)

[87] (WO2021/262048)

[21] **3,182,818**
[13] A1

[51] **Int.Cl. H01M 4/1395 (2010.01) H01M 4/134 (2010.01) H01M 10/0525 (2010.01) H01M 10/056 (2010.01) H01M 4/80 (2006.01) H01M 4/38 (2006.01)**

[25] FR

[54] **HIGH ENERGY AND POWER DENSITY ANODE FOR BATTERIES AND METHOD FOR THE PRODUCTION THEREOF**

[54] **ANODE DE FORTE DENSITE D'ENERGIE ET DE PUISSANCE POUR BATTERIES ET METHODE DE SA FABRICATION**

[72] GABEN, FABIEN, FR

[71] I-TEN, FR

[85] 2022-12-14

[86] 2021-06-23 (PCT/IB2021/055530)

[87] (WO2021/260565)

[30] FR (2006529) 2020-06-23

[21] **3,182,819**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 1/00 (2006.01) C22B 3/06 (2006.01) C22B 3/44 (2006.01) C25C 1/08 (2006.01) C22B 23/00 (2006.01) C22B 26/12 (2006.01) C22B 47/00 (2006.01) H01M 10/54 (2006.01)**

[25] EN

[54] **NOVEL SYSTEMS AND METHODS OF REDUCTIVE-ACID LEACHING OF SPENT BATTERY ELECTRODES TO RECOVER VALUABLE MATERIALS**

[54] **NOUVEAUX SYSTEMES ET PROCEDES DE LIXIVIATION PAR ACIDE REDUCTEUR D'ELECTRODES DE BATTERIE USAGEES POUR RECUPERER DES MATERIAUX DE VALEUR**

[72] IRISH, MICHAEL GIRARD, US

[72] CHUBUKOV, BORIS ANDREEVICH, US

[72] MCCRELESS, MAC GARRISON, US

[72] PALUMBO, AARON WILLIAM, US

[71] GARRISON MINERALS, LLC, US

[85] 2022-12-14

[86] 2021-07-01 (PCT/US2021/040203)

[87] (WO2022/006469)

[30] US (63/046,972) 2020-07-01

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[21] **3,182,820**
[13] A1

[51] **Int.Cl. B63B 21/50 (2006.01)**
[25] EN
[54] **DISCONNECTABLE SPREAD MOORING SYSTEM**
[54] **SYSTEME D'AMARRAGE A ETALEMENT SEPARABLE**
[72] AARSNES, JAN VIDAR, NO
[72] SYVERTSEN, KARE, NO
[72] THUNES, RAGNAR, NO
[72] SYVERTSEN, HENRIK, NO
[71] CEFRONT TECHNOLOGY AS, NO
[85] 2022-12-14
[86] 2021-06-15 (PCT/EP2021/066039)
[87] (WO2021/259696)
[30] NO (20200731) 2020-06-22

[21] **3,182,821**
[13] A1

[51] **Int.Cl. G21F 9/02 (2006.01)**
[25] EN
[54] **FILTER FOR REMOVING RADIOACTIVE NOBLE GAS, FILTER UNIT AND REACTOR CONTAINMENT VENT SYSTEM**
[54] **FILTRE POUR ELIMINER UN GAZ RARE RADIOACTIF, UNITE DE FILTRE ET SYSTEME D'EVENT D'ENCEINTE DE CONFINEMENT DE REACTEUR**
[72] MATSUMOTO, SHIGENORI, JP
[72] UEDA, ATSUKO, JP
[72] MATSUZAKI, TAKAHISA, JP
[71] HITACHI-GE NUCLEAR ENERGY, LTD., JP
[85] 2022-12-14
[86] 2021-06-08 (PCT/JP2021/021705)
[87] (WO2022/009587)
[30] JP (2020-116905) 2020-07-07

[21] **3,182,823**
[13] A1

[51] **Int.Cl. G01N 33/493 (2006.01)**
[25] EN
[54] **STRIP ELEMENT FOR AN ABSORBENT HYGIENE ARTICLE**
[54] **ELEMENT EN BANDE POUR ARTICLE D'HYGIENE ABSORBANT**
[72] MOREIRA CORREIA, RUI PEDRO, SE
[72] SILLERSTROM, FILIP, SE
[72] OMBERG, NILS ERIK JOHANNES, SE
[72] ROJO PEREZ, BORJA MOISES, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2022-12-14
[86] 2020-06-30 (PCT/EP2020/068365)
[87] (WO2022/002364)

[21] **3,182,824**
[13] A1

[25] EN
[54] **MICROARRAYS, HYBRIDIZATION SEALS, AND RELATED METHODS**
[54] **MICRORESEAUX, JOINTS D'HYBRIDATION ET PROCEDES ASSOCIES**
[72] GAUSTAD, ADAM, US
[72] ZETTERBERG, JEREMY, US
[72] KHOO, NORMAN, US
[72] STOJAKOVIC, JELENA, US
[72] CORS, JULIEN, US
[72] SOLIS, DANIEL, US
[72] BURKE, CHANDLER, US
[71] ILLUMINA, INC., US
[85] 2022-12-14
[86] 2021-07-14 (PCT/US2021/041538)
[87] (WO2022/015795)
[30] US (63/051,855) 2020-07-14

[21] **3,182,825**
[13] A1

[25] EN
[54] **MULTIPOSITION SEARCH**
[54] **RECHERCHE MULTI-POSITIONS**
[72] HATTELAND, KARL, NO
[72] STUHAUG, RAGNAR, NO
[72] BERGE NESSA, KRISTIAN, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2022-12-14
[86] 2021-06-23 (PCT/EP2021/067146)
[87] (WO2021/260004)
[30] NO (20200742) 2020-06-25

[21] **3,182,826**
[13] A1

[51] **Int.Cl. C06B 33/00 (2006.01) C06B 45/00 (2006.01) C09K 8/42 (2006.01) E21B 29/02 (2006.01) E21B 33/13 (2006.01)**
[25] EN
[54] **THERMITE REACTION CHARGE, METHOD FOR FORMING A THREEPHASED ROCK-TO-ROCK WELL BARRIER, AND A WELL BARRIER FORMED THEREOF**
[54] **CHARGE DE REACTION DE THERMITE, PROCEDE DE FORMATION D'UNE BARRIERE DE Puits DE ROCHE A ROCHE A TROIS PHASES, ET BARRIERE DE Puits FORMEE A PARTIR DE CETTE DERNIERE**
[72] TONDEL, STIAN, NO
[72] WILKINSON, DARREN JAMES, NO
[72] RUSTEN, TORGEIR, NO
[71] INTERWELL P&A AS, NO
[85] 2022-12-14
[86] 2021-07-01 (PCT/EP2021/068268)
[87] (WO2022/008355)
[30] NO (20200795) 2020-07-07

[21] **3,182,827**
[13] A1

[51] **Int.Cl. A61J 17/00 (2006.01) A61M 11/00 (2006.01) A61M 15/00 (2006.01) A61M 16/04 (2006.01)**
[25] EN
[54] **PACIFIER**
[54] **SUCETTE**
[72] THELIN, LARS, SE
[72] BOKVIST, FREDRIK, SE
[71] VIVOLAB AB, SE
[85] 2022-12-14
[86] 2021-06-14 (PCT/SE2021/050575)
[87] (WO2021/256976)
[30] SE (2050718-2) 2020-06-15

PCT Applications Entering the National Phase

[21] **3,182,828**
[13] A1

[51] **Int.Cl. A61F 13/42 (2006.01) A61B 5/00 (2006.01) A61B 5/20 (2006.01) G01N 27/02 (2006.01) G01N 33/493 (2006.01)**

[25] EN

[54] **METHOD OF DISTINGUISHING BETWEEN TYPES OF EXCRETION IN AN ABSORBENT HYGIENE ARTICLE**

[54] **PROCEDE PERMETTANT DE FAIRE LA DISTINCTION ENTRE DES TYPES D'EXCRETION DANS UN ARTICLE D'HYGIENE ABSORBANT**

[72] MOREIRA CORREIA, RUI PEDRO, SE

[72] SILLERSTROM, FILIP, SE

[72] OMBERG, NILS ERIK JOHANNES, SE

[72] ROJO PEREZ, BORJA MOISES, SE

[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE

[85] 2022-12-14

[86] 2020-06-30 (PCT/EP2020/068361)

[87] (WO2022/002361)

[21] **3,182,830**
[13] A1

[51] **Int.Cl. H04L 12/28 (2006.01) H04N 21/61 (2011.01) H04N 7/00 (2011.01) H04N 7/10 (2006.01) H04N 7/18 (2006.01)**

[25] EN

[54] **FREQUENCY CONVERTING CABLE NETWORK SIGNAL TRANSMISSION DEVICES**

[54] **DISPOSITIFS DE TRANSMISSION DE SIGNAL DE RESEAU DE CABLES DE CONVERSION DE FREQUENCE**

[72] BARANY, DAVID A., US

[71] PPC BROADBAND, INC., US

[85] 2022-12-14

[86] 2021-06-21 (PCT/US2021/038239)

[87] (WO2021/262592)

[30] US (63/042,627) 2020-06-23

[21] **3,182,831**
[13] A1

[51] **Int.Cl. A45F 5/00 (2006.01) G08B 21/02 (2006.01) G08B 25/14 (2006.01)**

[25] EN

[54] **BADGE HOLDER INCORPORATING PERSONAL SAFETY SYSTEM**

[54] **SUPPORT DE BADGE INCORPORANT UN SYSTEME DE SECURITE PERSONNEL**

[72] AL-JABRY, ALI HASSAN AWADH, US

[72] GARCIA PERALTA, GABRIEL, MX

[71] KWEMA, INC., US

[85] 2022-12-14

[86] 2021-06-22 (PCT/US2021/038500)

[87] (WO2021/262729)

[30] US (63/042,335) 2020-06-22

[21] **3,182,833**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61F 13/42 (2006.01) G01N 27/02 (2006.01) G01N 33/493 (2006.01)**

[25] EN

[54] **STRIP ELEMENT FOR AN ABSORBENT HYGIENE ARTICLE**

[54] **ELEMENT DE BANDE POUR ARTICLE HYGIENIQUE ABSORBANT**

[72] MOREIRA CORREIA, RUI PEDRO, SE

[72] SILLERSTROM, FILIP, SE

[72] OMBERG, NILS ERIK JOHANNES, SE

[72] ROJO PEREZ, BORJA MOISES, SE

[72] JOHANSSON, MATILDA, SE

[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE

[85] 2022-12-14

[86] 2020-06-30 (PCT/EP2020/068363)

[87] (WO2022/002363)

[21] **3,182,836**
[13] A1

[51] **Int.Cl. C07H 1/06 (2006.01) C07H 3/06 (2006.01)**

[25] FR

[54] **METHOD FOR SYNTHESISING MACROMOLECULES IN SOLUTION FROM CARBOHYDRATE DERIVATIVE UNITS**

[54] **PROCEDE DE SYNTHESE EN SOLUTION DE MACROMOLECULES A PARTIR D'UNITES DE DERIVES DE GLUCIDES**

[72] YOUTE TENDOUNG, JEAN-JACQUES, FR

[72] SERRE, AUDREY, FR

[71] STRAINCHEM, FR

[85] 2022-12-14

[86] 2021-06-23 (PCT/IB2021/055523)

[87] (WO2021/260562)

[30] FR (2006615) 2020-06-24

[30] FR (2006654) 2020-06-25

[21] **3,182,835**
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01) H04W 76/14 (2018.01) H04W 76/28 (2018.01) H04W 88/04 (2009.01) H04W 92/18 (2009.01)**

[25] EN

[54] **DISCONTINUOUS RECEPTION CONFIGURATION PARAMETERS FOR COMMUNICATION**

[54] **PARAMETRES DE CONFIGURATION DE RECEPTION DISCONTINUE POUR LA COMMUNICATION**

[72] KARAMPATSI, DIMITRIOS, GB

[72] GANESAN, KARTHIKEYAN, DE

[72] BASU MALLICK, PRATEEK, DE

[72] LOEHR, JOACHIM, DE

[71] LENOVO (SINGAPORE) PTE. LTD., SG

[85] 2022-12-14

[86] 2021-07-10 (PCT/IB2021/056211)

[87] (WO2022/013700)

[30] US (63/051,184) 2020-07-13

[30] US (63/051,207) 2020-07-13

[30] US (63/051,217) 2020-07-13

[30] US (63/051,233) 2020-07-13

[21] **3,182,836**
[13] A1

[51] **Int.Cl. C07H 1/06 (2006.01) C07H 3/06 (2006.01)**

[25] FR

[54] **METHOD FOR SYNTHESISING MACROMOLECULES IN SOLUTION FROM CARBOHYDRATE DERIVATIVE UNITS**

[54] **PROCEDE DE SYNTHESE EN SOLUTION DE MACROMOLECULES A PARTIR D'UNITES DE DERIVES DE GLUCIDES**

[72] YOUTE TENDOUNG, JEAN-JACQUES, FR

[72] SERRE, AUDREY, FR

[71] STRAINCHEM, FR

[85] 2022-12-14

[86] 2021-06-23 (PCT/IB2021/055523)

[87] (WO2021/260562)

[30] FR (2006615) 2020-06-24

[30] FR (2006654) 2020-06-25

Demandes PCT entrant en phase nationale

[21] **3,182,838**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 9/12 (2006.01) C07K 14/71 (2006.01)**
[25] EN
[54] **ACTRII PROTEINS FOR THE TREATMENT OF PULMONARY ARTERIAL HYPERTENSION (PAH)**
[54] **PROTEINES ACTRII POUR LE TRAITEMENT DE L'HYPERTENSION ARTERIELLE PULMONAIRE (HAP)**
[72] DE OLIVEIRA PENA, JANETHE, US
[72] LINDE, PETER, US
[72] JOSHI, SACHINDRA, US
[72] LI, GANG, US
[72] ANDRE, PATRICK, US
[72] KUMAR, RAVINDRA, US
[71] ACCELERON PHARMA INC., US
[85] 2022-12-14
[86] 2021-06-22 (PCT/US2021/038482)
[87] (WO2021/262718)
[30] US (63/042,722) 2020-06-23
[30] US (63/084,409) 2020-09-28
[30] US (63/112,513) 2020-11-11
[30] US (63/188,141) 2021-05-13

[21] **3,182,839**
[13] A1

[51] **Int.Cl. G01L 19/14 (2006.01)**
[25] EN
[54] **PRESSURE SENSOR ASSEMBLY**
[54] **ENSEMBLE CAPTEUR DE PRESSION**
[72] MEYER, NICHOLAS EDWARD, US
[72] ROMO, MARK GEORGE, US
[72] PETERSEN, ERIC PAUL, US
[72] LASONNE, TIMOTHY DAVID, US
[72] HILLMAN, DAVID JONATHON, US
[71] ROSEMOUNT INC., US
[85] 2022-12-14
[86] 2021-03-09 (PCT/US2021/021519)
[87] (WO2021/257137)
[30] US (16/906,194) 2020-06-19

[21] **3,182,840**
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01) H04W 76/14 (2018.01) H04W 76/28 (2018.01) H04W 88/04 (2009.01) H04W 92/18 (2009.01)**
[25] EN
[54] **SIDELINK DISCONTINUOUS RECEPTION CONFIGURATION**
[54] **CONFIGURATION DE RECEPTION DISCONTINUE EN LIAISON LATERALE**
[72] BASU MALLICK, PRATEEK, DE
[72] GANESAN, KARTHIKEYAN, DE
[72] LOEHR, JOACHIM, DE
[72] KARAMPATIS, DIMITRIOS, GB
[72] KUCHIBHOTLA, RAVI, US
[71] LENOVO (SINGAPORE) PTE. LTD., SG
[85] 2022-12-14
[86] 2021-07-10 (PCT/IB2021/056209)
[87] (WO2022/013699)
[30] US (63/051,184) 2020-07-13
[30] US (63/051,207) 2020-07-13
[30] US (63/051,217) 2020-07-13
[30] US (63/051,233) 2020-07-13

[21] **3,182,842**
[13] A1

[25] EN
[54] **COMMUNICATIONS DEVICES, NETWORK INFRASTRUCTURE EQUIPMENT, WIRELESS COMMUNICATIONS NETWORKS AND METHODS**
[54] **DISPOSITIFS DE COMMUNICATION, EQUIPEMENT D'INFRASTRUCTURE DE RESEAU, RESEAUX DE COMMUNICATION SANS FIL ET PROCDEDES**
[72] WONG, SHIN HORNG, GB
[72] KUSASHIMA, NAOKI, JP
[71] SONY GROUP CORPORATION, JP
[85] 2022-12-14
[86] 2021-07-22 (PCT/EP2021/070615)
[87] (WO2022/023186)
[30] EP (20187993.9) 2020-07-27

[21] **3,182,844**
[13] A1

[51] **Int.Cl. B02C 4/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR EXTRACTING TONER FROM TONER CARTRIDGES**
[54] **APPAREIL POUR EXTRAIRE DU TONER DE CARTOUCHES DE TONER**
[72] FORMAGGIO, DANIELE, IT
[71] ECOMADE ENGINEERING S.R.L., IT
[85] 2022-12-14
[86] 2021-06-16 (PCT/IB2021/055297)
[87] (WO2021/255655)
[30] IT (102020000014287) 2020-06-16

[21] **3,182,845**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01)**
[25] EN
[54] **METHOD FOR REDUCING METHANE EMISSIONS FROM BIOGAS UPGRADING**
[54] **PROCEDE DE REDUCTION DES EMISSIONS DE METHANE A PARTIR DE LA VALORISATION DE BIOGAZ**
[72] FIND, RASMUS, DK
[71] AIRCO PROCESS TECHNOLOGY A/S, DK
[85] 2022-12-14
[86] 2021-06-15 (PCT/EP2021/066018)
[87] (WO2021/254980)
[30] EP (20179956.6) 2020-06-15

[21] **3,182,847**
[13] A1

[51] **Int.Cl. G01N 15/14 (2006.01) G02B 19/00 (2006.01)**
[25] EN
[54] **FLOW CYTOMETER AND LASER OPTICS ASSEMBLY THEREOF**
[54] **CYOMETRE DE FLUX ET ENSEMBLE OPTIQUE LASER ASSOCIE**
[72] MISENER, GARLAND CHRISTIAN, US
[72] MOON, MICHAEL RYAN, US
[72] MCELWAIN, SPENCER FRANKLIN, US
[71] IDEXX LABORATORIES, INC., US
[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037417)
[87] (WO2021/257553)
[30] US (63/040,035) 2020-06-17

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[21] **3,182,848**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **AN IMPROVED FLEXIBLE PACKAGE FOR FOOD OR BEVERAGE PREPARATION HAVING A RIGID PART**

[54] **EMBALLAGE SOUPLE AMELIORE COMPRENANT UNE PARTIE RIGIDE POUR LA PREPARATION D'ALIMENTS OU DE BOISSONS**

[72] PELLEGRINI, STEPHANE, FR
[72] MARTIN, OLIVIER JEAN-MICHEL, CH
[72] VISHTAL, ALEXEY, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-12-14
[86] 2021-06-24 (PCT/EP2021/067328)
[87] (WO2022/022902)
[30] EP (20188741.1) 2020-07-30

[21] **3,182,849**
[13] A1

[51] **Int.Cl. A61F 13/496 (2006.01) A41B 9/04 (2006.01) A61F 13/49 (2006.01)**

[25] EN
[54] **TECHNOLOGIES FOR INCONTINENCE AND MENSTRUAL GARMENTS AND UNDERWEAR**

[54] **TECHNOLOGIES POUR VETEMENTS ET SOUS-VETEMENTS POUR L'INCONTINENCE ET LES MENSTRUATIONS**

[72] SKINNER, SHAMA AMALEAN, US
[72] NEWMAN, COURTNEY L., US
[71] THINX INC., US
[85] 2022-12-14
[86] 2021-06-17 (PCT/US2021/037927)
[87] (WO2021/257900)
[30] US (63/041,509) 2020-06-19

[21] **3,182,850**
[13] A1

[51] **Int.Cl. A61K 31/4545 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61K 31/551 (2006.01) A61P 31/12 (2006.01) C07D 213/76 (2006.01) C07D 241/20 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 409/04 (2006.01) C07D 417/04 (2006.01) C07D 417/14 (2006.01)**

[25] EN
[54] **USE OF HPK1 KINASE INHIBITOR IN PREVENTING AND/OR TREATING PATHOGEN INFECTION IN ANIMALS**

[54] **APPLICATIONS D'UN INHIBITEUR DE KINASE HPK1 DANS LA PREVENTION ET/OU LE TRAITEMENT D'UNE INFECTION PAR UN AGENT ZOOPATHOGENE**

[72] LIN, XINGYU, CN
[72] LU, TINGTING, CN
[71] ZHUHAI YUFAN BIOTECHNOLOGIES CO., LTD, CN
[85] 2022-12-14
[86] 2021-05-27 (PCT/CN2021/096276)
[87] (WO2021/254118)
[30] CN (202010546816.X) 2020-06-16

[21] **3,182,853**
[13] A1

[51] **Int.Cl. E05D 5/02 (2006.01) E05D 5/06 (2006.01) E05D 5/12 (2006.01) E05D 5/14 (2006.01) E05D 7/10 (2006.01) E05D 11/10 (2006.01)**

[25] EN
[54] **AUTOMOTIVE LIFT-OFF HINGE WITH INTEGRATED DOOR CHECK**

[54] **CHARNIERE D'ARRET D'AUTOMOBILE POURVUE D'UN CONTROLE DE PORTE INTEGRE**

[72] KOVACH, CHRISTOPHER ROBERT, CA
[71] MULTIMATIC INC., CA
[85] 2022-12-14
[86] 2021-06-17 (PCT/US2021/037817)
[87] (WO2021/257821)
[30] US (63/040,139) 2020-06-17

[21] **3,182,854**
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/47 (2006.01) A61K 47/02 (2006.01) A61K 47/12 (2006.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01) A61K 47/34 (2017.01)**

[25] EN
[54] **LONG-ACTING FORMULATIONS FORMULATIONS A ACTION PROLONGEE**

[72] HOLM, RENE, BE
[72] VERVOORT, IWAN CAROLINE F, BE
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-12-14
[86] 2021-07-08 (PCT/EP2021/068958)
[87] (WO2022/008645)
[30] EP (20185108.6) 2020-07-09

[21] **3,182,856**
[13] A1

[51] **Int.Cl. B24C 11/00 (2006.01) C09K 3/14 (2006.01) C03C 3/087 (2006.01) C03C 12/00 (2006.01)**

[25] EN
[54] **BLASTING ABRASIVES AND METHOD OF PRODUCING BLASTING ABRASIVES**

[54] **ABRASIFS DE DECAPAGE ET PROCEDE DE PRODUCTION D'ABRASIFS DE DECAPAGE**

[72] TROM, SCOTT D., US
[71] CONOX, LLC, US
[71] TROM, SCOTT D., US
[85] 2022-12-14
[86] 2021-06-18 (PCT/US2021/038070)
[87] (WO2021/257979)
[30] US (63/041,262) 2020-06-19
[30] US (63/147,322) 2021-02-09

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[21] **3,182,857**
[13] A1

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/26 (2006.01)**
[25] EN
[54] **ADSORBENT BEDS FOR MERCAPTAN REMOVAL WITH INCREASED HYDROTHERMAL STABILITY**
[54] **LITS ADSORBANTS POUR ELIMINATION DE MERCAPTANS AYANT UNE STABILITE HYDROTHERMIQUE ACCRUE**
[72] DOLAN, WILLIAM B., US
[72] PAN, JUSTIN, US
[72] GREENE, MARGARET ANNE, US
[72] ECKARDT, TOBIAS, DE
[72] MEHTA, MANISH, AE
[71] BASF CORPORATION, US
[85] 2022-12-14
[86] 2021-06-26 (PCT/US2021/039269)
[87] (WO2021/263216)
[30] US (63/044,829) 2020-06-26

[21] **3,182,859**
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AERIAL TO GROUND REGISTRATION**
[54] **SYSTEME ET PROCEDE D'ENREGISTREMENT DE DONNEES AERIENNES ET DE SOL**
[72] GUPTA, SHIKHAR DEV, IN
[72] KHANNA, KARTIK, US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[85] 2022-12-14
[86] 2021-06-16 (PCT/US2021/070718)
[87] (WO2021/258108)
[30] US (63/040,789) 2020-06-18

[21] **3,182,861**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01) B01L 3/00 (2006.01) B01L 3/02 (2006.01) B01L 3/14 (2006.01)**
[25] EN
[54] **COLLECTION DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE COLLECTE**
[72] GRIFFIN, JUSTIN, US
[72] PALME, JOHN, US
[71] IDEXX LABORATORIES, INC., US
[85] 2022-12-14
[86] 2021-06-30 (PCT/US2021/039791)
[87] (WO2022/006216)
[30] US (63/046,742) 2020-07-01

[21] **3,182,862**
[13] A1

[51] **Int.Cl. B60L 53/14 (2019.01) H01M 10/6567 (2014.01) B60L 58/26 (2019.01) B60L 58/27 (2019.01)**
[25] EN
[54] **HOT CHARGING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE CHARGE A CHAUD**
[72] DUNN, RANDY, US
[71] ELECTRIC POWER SYSTEMS, INC., US
[85] 2022-12-14
[86] 2021-06-30 (PCT/US2021/040012)
[87] (WO2022/006352)
[30] US (63/047,594) 2020-07-02

[21] **3,182,863**
[13] A1

[51] **Int.Cl. C12N 5/0735 (2010.01) C12N 5/071 (2010.01) C12N 5/074 (2010.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR CULTIVATING PLURIPOTENT CELL SUSPENSIONS**
[54] **METHODES ET COMPOSITIONS DE CULTURE DE SUSPENSIONS DE CELLULES PLURIPOTENTES**
[72] NEWMAN, RHONDA, US
[72] AKENHEAD, MICHAEL, US
[71] LIFE TECHNOLOGIES CORPORATION, US
[85] 2022-12-14
[86] 2021-06-22 (PCT/US2021/038395)
[87] (WO2021/262663)
[30] US (63/042,419) 2020-06-22

[21] **3,182,864**
[13] A1

[51] **Int.Cl. A61K 36/47 (2006.01) A61K 31/353 (2006.01) A61P 1/12 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING CHEMOTHERAPY-INDUCED DIARRHEA**
[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DE LA DIARRHEE INDUITE PAR UNE CHIMIOTHERAPIE**
[72] CONTE, LISA A., US
[71] NAPO PHARMACEUTICALS, INC., US
[85] 2022-12-14
[86] 2020-06-19 (PCT/US2020/038691)
[87] (WO2021/257089)

[21] **3,182,866**
[13] A1

[51] **Int.Cl. B26D 1/143 (2006.01)**
[25] EN
[54] **CUTTING DEVICE**
[54] **DISPOSITIF DE COUPE**
[72] DURETTE, SHAWN MAURICE DALE, CA
[72] HACHEY, PATRICK, CA
[72] DUGUAY, LAURIE, CA
[72] RAZAK, ROUA M., CA
[71] SMART SKIN TECHNOLOGIES INC., CA
[85] 2022-12-14
[86] 2021-07-22 (PCT/CA2021/051016)
[87] (WO2022/027127)
[30] US (16/986,999) 2020-08-06

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[21] **3,182,867**
[13] A1

[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 31/4184 (2006.01) A61K 31/4535 (2006.01) A61K 31/454 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING CANCER WITH COMBINATION THERAPIES**

[54] **METHODES POUR TRAITER UN CANCER AVEC DES POLYTHERAPIES**

[72] AHSAN, AARIF, US

[72] BISHT, KAMLESH, US

[72] BJORKLUND, CHAD, US

[72] FLYNT, JENNIFER ERIN, US

[72] HSU, CHIH-CHAO, US

[72] JEYARAJU, DANNY VIJEY, US

[72] ORTIZ-ESTEVEZ, MARIA, ES

[72] PIERCEALL, WILLIAM EDWARD, US

[72] THAKURTA, ANJAN, US

[72] TOWFIC, FADI GEORGE, US

[71] CELGENE CORPORATION, US

[85] 2022-12-14

[86] 2021-06-24 (PCT/US2021/038870)

[87] (WO2021/262962)

[30] US (63/044,127) 2020-06-25

[21] **3,182,868**
[13] A1

[51] **Int.Cl. C08L 29/04 (2006.01) A61K 8/81 (2006.01) A61P 17/02 (2006.01) C08J 3/075 (2006.01)**

[25] EN

[54] **BLENDED POLYVINYL ALCOHOL DRUG DELIVERY SYSTEMS**

[54] **SYSTEMES D'ADMINISTRATION DE MEDICAMENTS A BASE D'ALCOOL POLYVINYLIQUE MELANGES**

[72] JACKSON, JOHN K., CA

[72] PLACKETT, DAVID, CA

[72] CHEN, QIANYU, CA

[72] POORMASJEDIMEIBOD, MALIHESADAT, CA

[72] BURT, HELEN M., CA

[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2022-12-14

[86] 2021-07-20 (PCT/CA2021/051004)

[87] (WO2022/016268)

[30] US (63/055,189) 2020-07-22

[21] **3,182,869**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 31/352 (2006.01) A61K 33/38 (2006.01) A61L 15/44 (2006.01) A61L 29/16 (2006.01) A61P 17/02 (2006.01) A61P 31/04 (2006.01) C07C 39/19 (2006.01) C07C 39/23 (2006.01) C07C 65/19 (2006.01) C07D 311/58 (2006.01)**

[25] EN

[54] **SILVER ENHANCED CANNABINOID ANTIBIOTICS**

[54] **ANTIBIOTIQUES CANNABINOIDES AMELIORES A L'ARGENT**

[72] JACKSON, JOHN K., CA

[72] THOMPSON, CHARLES J., CA

[72] LAMBERT, DANA M., CA

[72] DOSANJH, MANISHA, CA

[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2022-12-14

[86] 2021-07-20 (PCT/CA2021/051005)

[87] (WO2022/016269)

[30] US (63/055,211) 2020-07-22

[30] US (63/111,972) 2020-11-10

[21] **3,182,871**
[13] A1

[51] **Int.Cl. A61K 33/40 (2006.01) A61K 31/728 (2006.01)**

[25] EN

[54] **SENSITIZER FOR CANCER TREATMENT**

[54] **SENSIBILISATEUR DE TRAITEMENT DU CANCER**

[72] NAVITA, SOMAIAH, GB

[72] OGAWA, YASUHIRO, JP

[71] KORTUC INC., JP

[85] 2022-12-14

[86] 2021-06-14 (PCT/JP2021/022520)

[87] (WO2021/256427)

[30] JP (2020-103121) 2020-06-15

[21] **3,182,872**
[13] A1

[51] **Int.Cl. B81C 1/00 (2006.01)**

[25] EN

[54] **COMPACT AND EASILY PRODUCIBLE MEMS PACKAGE WITH ENHANCED PROTECTIVE PROPERTIES**

[54] **BOITIER MEMS COMPACT, FACILE A PRODUIRE, A PROPRIETES DE PROTECTION AMELIOREES**

[72] BITTNER, ACHIM, DE

[72] DEHE, ALFONS, DE

[71] HAHN-SCHICKARD-GESELLSCHAFT FUR ANGEWANDTE FORSCHUNG E.V., DE

[85] 2022-12-14

[86] 2021-07-01 (PCT/EP2021/068165)

[87] (WO2022/008338)

[30] EP (20184559.1) 2020-07-07

[30] EP (20202552.4) 2020-10-19

[21] **3,182,873**
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) C07D 231/38 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 407/14 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01)**

[25] EN

[54] **SULPHONAMIDE COMPOUNDS**

[54] **COMPOSES SULFONAMIDES**

[72] GARNIER, JEAN-MARC DANIEL, AU

[72] BRZOZOWSKI, MARTIN, AU

[72] FEUTRILL, JOHN THOMAS, AU

[72] LESSENE, GUILLAUME LAURENT, AU

[72] GARDNER, CHRISTOPHER, AU

[72] CZABOTAR, PETER EDWARD, AU

[72] COWAN, ANGUS, AU

[72] DAVIES, KATHERINE, AU

[72] SHARMA, POOJA, AU

[72] SCHUSTER-KLEIN, CAROLE ANNIE, AU

[72] POITEVIN, CHRISTOPHE, AU

[71] ANAXIS PHARMA PTY LTD, AU

[85] 2022-12-14

[86] 2021-06-18 (PCT/AU2021/050638)

[87] (WO2021/253095)

[30] AU (2020902035) 2020-06-19

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[21] **3,182,874**
[13] A1

[51] **Int.Cl. A61K 31/191 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF USE OF .BETA.-HYDROXY-.BETA.-METHYLBUTYRATE (HMB) AND CHEMOTHERAPY AGENTS**
[54] **COMPOSITIONS ET METHODES D'UTILISATION DE .BETA.-HYDROXY-.BETA.-METHYLBUTYRATE (HMB) ET D'AGENTS DE CHIMIOThERAPIE**
[72] BETTEGA FELIPE, KARINA, BR
[72] GORETI ECKERT DREHER, RAQUEL, BR
[72] CURI PEDROSA, RONAGELA, BR
[72] PITCHFORD, LISA, US
[71] METABOLIC TECHNOLOGIES, LLC, US
[85] 2022-12-14
[86] 2021-06-15 (PCT/US2021/037431)
[87] (WO2021/257562)
[30] US (63/038,989) 2020-06-15

[21] **3,182,878**
[13] A1

[51] **Int.Cl. C10M 161/00 (2006.01)**
[25] EN
[54] **POLYUREA LUBRICATING GREASES CONTAINING CARBONATES, AND THEIR USE**
[54] **GRAISSES LUBRIFIANTES A BASE DE POLYUREE CONTENANT DES CARBONATES, ET LEUR UTILISATION**
[72] ERKEL, HANS JURGEN, DE
[72] BINKLE, OLAF, DE
[72] GOERZ, TORSTEN, DE
[71] FUCHS PETROLUB SE, DE
[85] 2022-12-14
[86] 2021-07-01 (PCT/DE2021/100568)
[87] (WO2022/002317)
[30] DE (10 2020 117 671.6) 2020-07-03

[21] **3,182,879**
[13] A1

[51] **Int.Cl. A01B 71/02 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING AN AGRICULTURAL TOOL TOWED BY A PIVOTALLY ATTACHED VEHICLE BASED ON FUTURE PATH PREDICTION**
[54] **SYSTEME ET PROCEDE DE COMMANDE D'UN OUTIL AGRICOLE REMORQUE PAR UN VEHICULE FIXE DE MANIERE PIVOTANTE SUR LA BASE D'UNE PREDICTION DE TRAJECTOIRE FUTURE**
[72] MEYER, ANDREW THOMAS, CA
[72] ZIETZ, JOHN M., US
[71] VADERSTAD INDUSTRIES INC., CA
[85] 2022-12-14
[86] 2021-06-16 (PCT/CA2021/050820)
[87] (WO2021/253121)
[30] US (63/040,914) 2020-06-18

[21] **3,182,880**
[13] A1

[51] **Int.Cl. A61K 8/06 (2006.01) A61K 8/34 (2006.01) A61K 8/365 (2006.01) A61K 8/42 (2006.01) A61K 8/89 (2006.01) A61K 8/891 (2006.01) A61K 9/00 (2006.01) A61K 31/05 (2006.01) A61K 31/07 (2006.01) A61K 31/192 (2006.01) A61K 31/203 (2006.01) A61K 31/4174 (2006.01) A61K 31/436 (2006.01) A61K 31/4436 (2006.01) A61K 31/522 (2006.01) A61K 31/573 (2006.01) A61K 31/593 (2006.01) A61K 31/728 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01)**
[25] EN
[54] **COMPOSITION FOR TOPICAL DERMATOLOGICAL DELIVERY**
[54] **COMPOSITION POUR UNE ADMINISTRATION TOPIQUE DERMATOLOGIQUE**
[72] DAVIS, ADRIAN, GB
[71] LIMEWAY PHARMA DESIGN LIMITED, GB
[71] DAVIS, ADRIAN, GB
[85] 2022-12-14
[86] 2021-06-21 (PCT/GB2021/051569)
[87] (WO2021/255483)
[30] GB (2009437.1) 2020-06-20

[21] **3,182,881**
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) E21D 20/00 (2006.01) F15B 15/02 (2006.01)**
[25] EN
[54] **MINE DRILL MODULE INCLUDING GRIPPER WITH FOLDING ARMS**
[54] **MODULE DE FORAGE DE MINE COMPRENANT UN DISPOSITIF DE SAISIE A BRAS REPLIABLES**
[72] PAYNE, NATHAN U., US
[72] ENDICOTT, MARC D., US
[72] HINSHAW, GREGORY E., US
[72] BURGESS, TIMOTHY D., US
[71] J.H. FLETCHER & CO, US
[85] 2022-12-14
[86] 2021-06-25 (PCT/US2021/039085)
[87] (WO2021/263102)
[30] US (63/044,425) 2020-06-26

[21] **3,182,882**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4178 (2006.01) A61K 31/4439 (2006.01) A61P 1/04 (2006.01) A61P 1/14 (2006.01) C07D 403/12 (2006.01) C07D 409/14 (2006.01)**
[25] EN
[54] **NOVEL ACID SECRETION INHIBITOR AND USE THEREOF**
[54] **NOUVEL INHIBITEUR DE SECRETION D'ACIDE ET SON UTILISATION**
[72] YOON, HONG CHUL, KR
[72] PARK, JOON TAE, KR
[72] LEE, JUNG WOO, KR
[72] AN, KYUNG MI, KR
[72] IM, A RANG, KR
[72] JEON, WOO JIN, KR
[72] HEO, JAE HO, KR
[72] HONG, CHANG HEE, KR
[72] PARK, JUNG EUN, KR
[72] SOHN, TE IK, KR
[72] HONG, DA HAE, KR
[72] KIM, JUNG HO, KR
[72] SHIN, JAE EUI, KR
[72] YOO, YEONG RAN, KR
[72] CHANG, MIN WHAN, KR
[72] JE, IN GYU, KR
[72] KANG, SU YEON, KR
[72] SONG, YOON SUNG, KR
[72] LEE, JOO YUN, KR
[71] ILDONG PHARMACEUTICAL CO., LTD., KR
[85] 2022-12-14
[86] 2021-06-16 (PCT/KR2021/007572)
[87] (WO2021/256861)
[30] KR (10-2020-0073900) 2020-06-17

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[21] **3,182,883**
[13] A1

[51] **Int.Cl. C07K 16/36 (2006.01) A61P 7/02 (2006.01)**
[25] EN
[54] **ANTI-VWF ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-VWF ET LEURS UTILISATIONS**
[72] HAGEMEYER, CHRISTOPH, AU
[72] WESTEIN, ERIK, AU
[72] HOFER, THOMAS, AU
[72] ANDREWS, ROBERT, AU
[72] GARDINER, ELIZABETH, AU
[71] MONASH UNIVERSITY, AU
[71] BAKER HEART AND DIABETES INSTITUTE, AU
[85] 2022-12-14
[86] 2021-06-25 (PCT/AU2021/050676)
[87] (WO2021/258160)
[30] AU (2020902148) 2020-06-26

[21] **3,182,884**
[13] A1

[51] **Int.Cl. A61F 5/455 (2006.01)**
[25] EN
[54] **URINE COLLECTION DEVICE, SYSTEM, AND METHOD**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE COLLECTE D'URINE**
[72] GODINEZ, SAUL, US
[72] PETERSON, ALLISON, US
[71] MEDLINE INDUSTRIES, LP, US
[85] 2022-12-14
[86] 2021-05-10 (PCT/US2021/031494)
[87] (WO2021/257202)
[30] US (16/905,116) 2020-06-18

[21] **3,182,885**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/48 (2006.01) A61P 25/22 (2006.01) A61P 29/02 (2006.01)**
[25] EN
[54] **TREATMENT OF POST-OPERATIVE SURGICAL PAIN**
[54] **TRAITEMENT DE LA DOULEUR CHIRURGICALE POST-OPERATOIRE**
[72] EVANS, STEVE, GB
[72] KALINICHEV, MIKHAIL, GB
[72] PONS, LAURENT, GB
[72] CORNET, SYLVIE, GB
[72] LEZMI, STEPHANE, GB
[71] IPSEN BIOPHARM LIMITED, GB
[85] 2022-12-15
[86] 2021-07-16 (PCT/GB2021/051838)
[87] (WO2022/013575)
[30] GB (2011055.7) 2020-07-17

[21] **3,182,886**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01) C01B 32/50 (2017.01) B01D 53/62 (2006.01) B01D 53/96 (2006.01) B01D 61/42 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **METHOD FOR BINDING, TRANSPORT, REACTION ACTIVATION, CONVERSION, STORAGE AND RELEASE OF WATER-SOLUBLE GASES**
[54] **PROCEDE DE LIAISON, DE TRANSPORT, D'ACTIVATION DE REACTION, DE CONVERSION, DE STOCKAGE ET DE LIBERATION DE GAZ SOLUBLES DANS L'EAU**
[72] DIETZ, ULRICH, DE
[71] DIETZ, ULRICH, DE
[85] 2022-12-15
[86] 2021-07-27 (PCT/EP2021/071081)
[87] (WO2022/023387)
[30] DE (10 2020 004 542.1) 2020-07-27

[21] **3,182,890**
[13] A1

[51] **Int.Cl. A61G 5/10 (2006.01) A61G 5/04 (2013.01) A61G 5/06 (2006.01)**
[25] EN
[54] **ANTI-TIP MOTORIZED VEHICLE**
[54] **VEHICULE MOTORISE ANTI-BASCULEMENT**
[72] MULHERN, JAMES, US
[72] ANTONISHAK, STEPHEN, US
[71] PRIDE MOBILITY PRODUCTS CORPORATION, US
[85] 2022-12-15
[86] 2021-07-07 (PCT/US2021/040762)
[87] (WO2022/011062)
[30] US (63/049,183) 2020-07-08

[21] **3,182,901**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01)**
[25] EN
[54] **DETERMINING MEDICAL STAFFING FOR ORAL IMMUNOTHERAPY**
[54] **DETERMINATION DU PERSONNEL MEDICAL POUR UNE IMMUNOTHERAPIE PAR VOIE ORALE**
[72] CHUANG, HANS, US
[72] GREENBLATT, BRIAN, US
[72] SMITH, RICHARD, US
[72] CROWELL, MARISA, US
[72] DAMLE, VARSHA, US
[72] BIELAK, CHANTALE, CA
[72] GROSSI, ROBERT, CA
[72] MABON, JOY, CA
[71] SOCIETE DES PRODUITS NESTLE SA, CH
[85] 2022-12-15
[86] 2021-06-30 (PCT/IB2021/055885)
[87] (WO2022/003604)
[30] US (63/047,216) 2020-07-01

[21] **3,182,906**
[13] A1

[51] **Int.Cl. C01G 1/00 (2006.01)**
[25] EN
[54] **PRODUCTION OF LIGNIN OIL WITH AN ORGANIC SOLVENT**
[54] **PRODUCTION D'HUILE DE LIGNINE AVEC UN SOLVANT ORGANIQUE**
[72] KUMAR, SHUSHIL, IN
[72] KUGGE, CHRISTIAN, SE
[71] SCA FOREST PRODUCTS AB, SE
[85] 2022-12-15
[86] 2021-06-25 (PCT/EP2021/067457)
[87] (WO2022/002775)
[30] EP (20182906.6) 2020-06-29

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[21] **3,182,909**
[13] A1

[51] **Int.Cl. A23L 33/115 (2016.01) A61K 31/355 (2006.01) A61K 47/44 (2017.01) A61P 3/02 (2006.01)**

[25] EN

[54] **RETINAL BIOAVAILABILITY OF SYNTHETIC VERY-LONG-CHAIN POLYUNSATURATED FATTY ACIDS**

[54] **BIODISPONIBILITE RETINIENNE D'ACIDES GRAS POLYINSATURES A TRES LONGUE CHAINE SYNTHETIQUES**

[72] GORUSUPUDI, ARUNA, US

[72] BERNSTEIN, PAUL S., US

[72] RAINIER, JON D., US

[72] RALLABANDI, RAMESHU, US

[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US

[85] 2022-12-15

[86] 2021-06-15 (PCT/US2021/037524)

[87] (WO2021/257636)

[30] US (63/039,331) 2020-06-15

[21] **3,182,910**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01)**

[25] EN

[54] **INCORPORATION AND IMAGING MIXES**

[54] **MELANGES D'INCORPORATION ET D'IMAGERIE**

[72] ARTIOLI, GIANLUCA ANDREA, GB

[72] LESSARD-VIGER, MATHIEU, US

[72] MATHER, BRIAN D., US

[72] MCDONALD, SETH M., US

[72] PUGLIESE, KAITLIN M., US

[72] VON HATTEN, XAVIER, GB

[71] ILLUMINA INC., US

[71] ILLUMINA CAMBRIDGE LIMITED, GB

[85] 2022-12-15

[86] 2021-11-12 (PCT/EP2021/081501)

[87] (WO2022/101400)

[30] US (63/114,302) 2020-11-16

[21] **3,182,914**
[13] A1

[51] **Int.Cl. B05B 15/70 (2018.01) B05B 13/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DEFECT REPAIR**

[54] **SYSTEME ET PROCEDE DE REPARATION DE DEFAUT**

[72] GAGNE, ANDREW GARY, US

[72] MANTECON, KYLE LEE, US

[72] SCIPIONE JR., ROBERT PAUL, US

[71] INOVISION SOFTWARE SOLUTIONS, INC., US

[85] 2022-12-15

[86] 2021-06-17 (PCT/US2021/037854)

[87] (WO2021/257846)

[30] US (63/040,121) 2020-06-17

[21] **3,182,917**
[13] A1

[51] **Int.Cl. A61P 35/04 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **RECOMBINANT POLYPEPTIDES AND COMBINATIONS FOR USE IN THE TREATMENT OF CANCER**

[54] **POLYPEPTIDES RECOMBINANTS ET COMBINAISONS POUR UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] CHEN, YA-HUEI, SG

[72] LIN, TING-LONG, SG

[71] IMUNAMI LABORATORIES PTE. LTD., SG

[85] 2022-12-15

[86] 2020-06-22 (PCT/SG2020/050344)

[87] (WO2021/262081)

[21] **3,182,931**
[13] A1

[51] **Int.Cl. G08G 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING, MONITORING, AND MITIGATING THE PRESENCE OF UNAUTHORIZED DRONES**

[54] **SYSTEMES ET PROCEDES DE DETECTION, DE SURVEILLANCE ET DE REDUCTION DE LA PRESENCE DE DRONES NON-AUTORISES**

[72] JORDAN, GRANT, US

[72] TORBORG, SCOTT, US

[72] AU YEUNG, CHUN KIN, US

[72] LO, BRANDON FANG-HSUAN, US

[71] SKYSAFE, INC., US

[85] 2022-12-15

[86] 2021-05-11 (PCT/US2021/031801)

[87] (WO2022/005620)

[30] US (16/915,865) 2020-06-29

[21] **3,182,933**
[13] A1

[51] **Int.Cl. A61L 31/02 (2006.01) A61F 2/00 (2006.01)**

[25] EN

[54] **STRIP-LIKE MEDICAL DEVICE FOR NARROWING A BODILY CONDUIT**

[54] **DISPOSITIF MEDICAL EN FORME DE BANDE SERVANT A RETRECIR UN CONDUIT CORPOREL**

[72] ERHARD, MARTIN, AT

[72] HOHLRIEDER, MARTIN, AT

[71] A.M.I. AGENCY FOR MEDICAL INNOVATIONS GMBH, AT

[85] 2022-12-15

[86] 2021-06-30 (PCT/EP2021/067988)

[87] (WO2022/008313)

[30] AT (A 150/2020) 2020-07-06

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[21] **3,182,935**
[13] A1

[51] **Int.Cl. B25J 15/04 (2006.01) B25J 15/06 (2006.01)**
[25] EN
[54] **APPARATUSSES, SYSTEMS, AND METHODS FOR THE GRASPING OF OBJECTS**
[54] **APPAREILS, SYSTEMES ET PROCEDES POUR LA SAISIE D'OBJETS**
[72] MEYER, WILLIAM A., US
[71] OMNICELL, INC., US
[85] 2022-12-15
[86] 2021-02-11 (PCT/US2021/017542)
[87] (WO2022/005536)
[30] US (16/915,113) 2020-06-29

[21] **3,182,941**
[13] A1

[51] **Int.Cl. G01N 23/20 (2018.01)**
[25] EN
[54] **MUON TOMOGRAPHY METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TOMOGRAPHIE PAR MUONS**
[72] KAMAEV, OLEG, CA
[72] RAND, EVAN T., CA
[72] VALENTE, ANDREW, CA
[72] BHULLAR, AMANJOT, CA
[71] ATOMIC ENERGY OF CANADA LIMITED / ENERGIE ATOMIQUE DU CANADA LIMITEE, CA
[85] 2022-12-15
[86] 2021-06-16 (PCT/CA2021/050819)
[87] (WO2021/253120)
[30] US (63/039,540) 2020-06-16

[21] **3,182,945**
[13] A1

[51] **Int.Cl. C07K 16/40 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **HEPARANASE-NEUTRALIZING A54 MONOCLONAL ANTIBODY**
[54] **ANTICORPS MONOCLONAL A54 NEUTRALISANT L'HEPARANASE**
[72] VLODAVSKY, ISRAEL, IL
[72] BARASH, URI, IL
[72] WU, LIANG, GB
[71] TECHNION RESEARCH & DEVELOPMENT FOUNDATION LIMITED, IL
[71] HADASIT MEDICAL RESEARCH SERVICES AND DEVELOPMENT LTD., IL
[85] 2022-12-15
[86] 2021-07-06 (PCT/IL2021/050830)
[87] (WO2022/009203)
[30] US (63/048,211) 2020-07-06

[21] **3,182,947**
[13] A1

[25] EN
[54] **FIXTURES AND RELATED IMPRINTING SYSTEMS AND METHODS**
[54] **DISPOSITIFS DE FIXATION ET PROCEDES ET SYSTEMES D'IMPRESSION ASSOCIES**
[72] RAPP, MICHAEL, US
[72] MERKEL, TIMOTHY, US
[72] ZAK, AUDREY, US
[71] ILLUMINA, INC., US
[85] 2022-12-15
[86] 2021-08-30 (PCT/US2021/048166)
[87] (WO2022/051206)
[30] US (63/073,423) 2020-09-01

[21] **3,182,949**
[13] A1

[51] **Int.Cl. A61B 3/13 (2006.01) A61F 9/007 (2006.01) A61F 9/008 (2006.01) G02B 21/00 (2006.01) G02B 21/36 (2006.01)**
[25] EN
[54] **CONTROLLING A SURGICAL SYSTEM USING A FOOTSWITCH**
[54] **COMMANDE D'UN SYSTEME CHIRURGICAL A L'AIDE D'UN INTERRUPTEUR AU PIED**
[72] DURANT, DANIEL, US
[71] ALCON INC., CH
[85] 2022-12-15
[86] 2021-07-16 (PCT/IB2021/056446)
[87] (WO2022/018593)
[30] US (63/055,587) 2020-07-23

[21] **3,182,950**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/07 (2010.01)**
[25] EN
[54] **METHOD FOR ISOLATING AND MASS PROLIFERATING DERMAL PAPILLA CELLS DERIVED FROM SCALP TISSUE**
[54] **PROCEDE D'ISOLEMENT ET DE PROLIFERATION EN MASSE DE CELLULES PAPILLAIRES DERMQUES DERIVEES DE TISSU DU CUIR CHEVELU**
[72] YOON, JUNG IN, KR
[72] RHO, JEONG WON, KR
[72] KANG, DA WITT, KR
[71] HANMOBIO CO.,LTD., KR
[71] HANBIO CO., LTD., KR
[71] KANG, DA WITT, KR
[85] 2022-12-15
[86] 2021-03-05 (PCT/KR2021/002736)
[87] (WO2021/256663)
[30] KR (10-2020-0073493) 2020-06-17

[21] **3,182,956**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 38/17 (2006.01) A61K 38/18 (2006.01) A61K 38/22 (2006.01) A61K 38/40 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS HAVING NEUROREGENERATIVE APPLICATIONS**
[54] **COMPOSITIONS AYANT DES APPLICATIONS NEUROREGENERATIVES**
[72] BARNETT, THOMAS, US
[72] ROSS, DAVID A., US
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[85] 2022-12-15
[86] 2021-07-07 (PCT/EP2021/068800)
[87] (WO2022/008586)
[30] US (63/049,516) 2020-07-08

Demandes PCT entrant en phase nationale

[21] **3,182,957**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01)**

[25] EN

[54] **COMPOSITIONS FOR SOLUBILIZING WATER-INSOLUBLE ACTIVE INGREDIENTS**

[54] **COMPOSITIONS POUR SOLUBILISER DES PRINCIPES ACTIFS INSOLUBLES DANS L'EAU**

[72] CHAVAN, NEHA, US
[71] CHAVAN, NEHA, US
[85] 2022-12-15
[86] 2021-06-17 (PCT/US2021/037951)
[87] (WO2021/257913)
[30] US (63/041,839) 2020-06-20

[21] **3,182,958**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **COMPOSITIONS HAVING NEUROREGENERATIVE APPLICATIONS**

[54] **COMPOSITIONS AYANT DES APPLICATIONS NEUROREGENERATIVES**

[72] BARNETT, THOMAS, US
[72] ROSS, DAVID A., US
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE

[85] 2022-12-15
[86] 2021-07-07 (PCT/EP2021/068873)
[87] (WO2022/008609)
[30] US (63/049,486) 2020-07-08

[21] **3,182,960**
[13] A1

[51] **Int.Cl. C12Q 1/6813 (2018.01)**

[25] EN

[54] **DETECTING MATERIALS IN A MIXTURE USING OLIGONUCLEOTIDES**

[54] **DETECTION DE SUBSTANCES DANS UN MELANGE A L'AIDE D'OLIGONUCLEOTIDES**

[72] HUNTER, SHAUN, US
[71] ILLUMINA, INC., US
[85] 2022-12-15
[86] 2021-10-20 (PCT/US2021/055799)
[87] (WO2022/098513)
[30] US (63/110,655) 2020-11-06

[21] **3,182,963**
[13] A1

[51] **Int.Cl. G01S 17/931 (2020.01) G01S 7/497 (2006.01) G01S 17/87 (2020.01) G01S 13/931 (2020.01) G01S 15/931 (2020.01) G01S 7/41 (2006.01) G01S 13/87 (2006.01) G01S 15/87 (2006.01)**

[25] EN

[54] **SELF-TEST METHOD FOR A RANGING SENSOR-ARRANGEMENT OF A WORK MACHINE**

[54] **PROCEDE D'AUTO-TEST POUR UN AGENCEMENT DE CAPTEUR DE MESURE DE DISTANCE D'UNE MACHINE DE TRAVAIL**

[72] LARSSON, JOHAN, SE
[72] NOWEN, PETER, SE
[72] UPPGARD, THOMAS, SE
[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2022-12-15
[86] 2021-06-02 (PCT/SE2021/050511)
[87] (WO2022/005358)
[30] SE (2030215-4) 2020-06-29

[21] **3,182,968**
[13] A1

[51] **Int.Cl. C10M 169/04 (2006.01) C10M 107/02 (2006.01) C10M 133/04 (2006.01) C10M 133/12 (2006.01) C10M 137/02 (2006.01) C10M 141/10 (2006.01)**

[25] EN

[54] **LUBRICATING COMPOSITIONS COMPRISING A NON-SILICONE ANTI-FOAMING AGENT**

[54] **COMPOSITIONS LUBRIFIANTES COMPRENANT UN AGENT ANTIMOUSSÉ NON SILICONE**

[72] COLLETT, BRIAN R., US
[72] THEYS, ANGELA, US
[72] DOCTER, MICHELLE, US
[72] SANDERS, JOSEPH, US
[72] HEATER, KENNETH J., US
[71] MATERIALS ENGINEERING AND TECHNICAL SUPPORT SERVICES CORP., US

[85] 2022-12-15
[86] 2021-07-06 (PCT/US2021/040516)
[87] (WO2022/055603)
[30] US (63/049,463) 2020-07-08

[21] **3,182,974**
[13] A1

[51] **Int.Cl. B05B 14/20 (2018.01) B05B 14/44 (2018.01) B05B 13/04 (2006.01) F22B 1/02 (2006.01) F22B 13/14 (2006.01)**

[25] EN

[54] **COATING HUMIDIFICATION SYSTEM**

[54] **SYSTEME DE REVETEMENT PAR HUMIDIFICATION**

[72] POHL, JAMES M., US
[72] BALDWIN, CHRISTINE J., US
[72] HAKE, JEFFREY A., US
[72] FRANTZ, WILLIAM H., US
[71] ARMSTRONG WORLD INDUSTRIES INC., US

[85] 2022-12-15
[86] 2021-06-16 (PCT/US2021/037680)
[87] (WO2021/262506)
[30] US (63/044,613) 2020-06-26

[21] **3,182,976**
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EYE CATARACT REMOVAL**

[54] **SYSTEMES ET PROCEDES POUR L'ELIMINATION DE LA CATARACTE OCULAIRE**

[72] THOE, DAVID, US
[72] GILLEN, BRANT, US
[72] PETTIT, GEORGE HUNTER, US
[72] ZAMORANO, MARCOS H., US
[72] WATANABE, KEITH, US
[72] SARANGAPANI, RAMESH, US
[72] BHATTACHARYA, SINCHAN, US
[72] WEATHERBEE, JOSEPH, US
[71] ALCON INC., CH

[85] 2022-12-15
[86] 2021-07-20 (PCT/IB2021/056563)
[87] (WO2022/023882)
[30] US (63/059,355) 2020-07-31

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[21] **3,182,977**
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01) F16J 15/3204 (2016.01) B65B 51/00 (2006.01) B65D 83/00 (2006.01)**

[25] EN
[54] **A SEALABLE JOINT**
[54] **JOINT ETANCHE**
[72] SAVELL, GEORGE, GB
[72] PERKINS, HUGH, GB
[72] NORRIS, DEBORAH, GB
[71] CONSORT MEDICAL LIMITED, GB
[85] 2022-12-15
[86] 2021-07-02 (PCT/GB2021/051681)
[87] (WO2022/003365)
[30] GB (2010250.5) 2020-07-03

[21] **3,182,978**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01) C12N 15/86 (2006.01)**

[25] EN
[54] **AN IMPROVED MEASLES VIRUS VACCINE VECTOR BASED ON MULTIPLE TANDEM ADDITIONAL TRANSCRIPTION UNITS (ATUS)**
[54] **VECTEUR DE VACCIN CONTRE LE VIRUS DE LA ROUGEOLE AMELIORE BASE SUR DE MULTIPLES UNITES DE TRANSCRIPTION SUPPLEMENTAIRES EN TANDEM (ATUS)**
[72] NAMPRACHAN-FRANTZ, PHANRAMPHOEI, FR
[72] TANGY, FREDERIC, FR
[72] COMBREDT, CHANTAL, FR
[72] GRACIAS, SEGOLENE, FR
[71] INSTITUT PASTEUR, FR
[85] 2022-12-15
[86] 2021-07-08 (PCT/EP2021/069070)
[87] (WO2022/008687)
[30] EP (20305789.8) 2020-07-08

[21] **3,182,980**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K 31/00 (2006.01) A61K 31/202 (2006.01) A61K 31/685 (2006.01) A61P 43/00 (2006.01)**

[25] EN
[54] **SOFT GELATIN CAPSULES**
[54] **CAPSULES DE GELATINE MOLLE**
[72] MOSCOSO DEL PRADO, JAIME, ES
[72] URSO, KATIA, ES
[72] PEREZ HERNANDO, ELENA, ES
[71] ITF RESEARCH PHARMA, S.L.U, ES
[85] 2022-12-15
[86] 2021-06-24 (PCT/EP2021/067306)
[87] (WO2021/260093)
[30] EP (20382554.2) 2020-06-24

[21] **3,182,981**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01) F03D 80/40 (2016.01)**

[25] EN
[54] **CONTROLLER AND METHOD FOR A WIND TURBINE**
[54] **DISPOSITIF DE COMMANDE ET PROCEDE POUR UNE EOLIENNE**
[72] GREGORY, KARL, DK
[72] RASMUSSEN, KELD, DK
[71] VESTAS WIND SYSTEMS A/S, DK
[85] 2022-12-15
[86] 2021-06-15 (PCT/DK2021/050195)
[87] (WO2021/254579)
[30] DK (PA 2020 70404) 2020-06-19

[21] **3,182,983**
[13] A1

[51] **Int.Cl. A61B 5/11 (2006.01)**

[25] EN
[54] **SYSTEM AND DEVICE FOR QUANTIFYING MOTOR CONTROL DISORDER**
[54] **SYSTEME ET DISPOSITIF POUR QUANTIFIER UN TROUBLE DE LA COMMANDE MOTRICE**
[72] SZMULEWICZ, DAVID JOSHUA, AU
[72] PATHIRANA, PUBUDU NISHANTHA, AU
[72] KRISHNA, RAGIL, AU
[72] CORBEN, LOUISE ANNE, AU
[72] HORNE, MALCOLM KENNETH, AU
[71] THE FLOREY INSTITUTE OF NEUROSCIENCE AND MENTAL HEALTH, AU
[71] MURDOCH CHILDREN'S RESEARCH INSTITUTE, AU
[71] DEAKIN UNIVERSITY, AU
[85] 2022-12-15
[86] 2021-06-18 (PCT/AU2021/050637)
[87] (WO2021/253094)
[30] AU (2020902051) 2020-06-19

[21] **3,182,988**
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01) A61B 3/10 (2006.01) A61B 3/117 (2006.01) A61F 9/009 (2006.01)**

[25] EN
[54] **VISUALIZATION AND TREATMENT OF MEDIA OPACITY IN EYE**
[54] **VISUALISATION ET TRAITEMENT DE L'OPACITE DE MILIEU DANS L'OEIL**
[72] CHARLES, STEVEN T., US
[71] ALCON INC., CH
[85] 2022-12-15
[86] 2020-12-18 (PCT/IB2020/062231)
[87] (WO2022/023809)
[30] US (63/059,399) 2020-07-31
[30] US (63/076,942) 2020-09-11

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[21] **3,182,990**
[13] A1

[51] **Int.Cl. B65D 81/24 (2006.01) A01N 1/02 (2006.01) A61B 10/00 (2006.01) A61D 19/02 (2006.01) A61J 1/00 (2023.01) A61J 1/06 (2006.01) C09K 15/04 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR COLLECTION OF FLUID SAMPLES**

[54] **PROCEDE ET APPAREIL DE COLLECTE D'ECHANTILLONS DE FLUIDES**

[72] PRIEN, SAMUEL D., US

[72] PENROSE, LINDSAY L., US

[72] PENINGER, DIANA M., US

[71] TEXAS TECH UNIVERSITY SYSTEM, US

[71] RSI TECHNOLOGY GROUP, LLC, US

[85] 2022-12-15

[86] 2021-06-30 (PCT/US2021/040017)

[87] (WO2022/006356)

[30] US (63/046,347) 2020-06-30

[21] **3,182,992**
[13] A1

[51] **Int.Cl. G01N 21/83 (2006.01) G01N 21/51 (2006.01) G01N 33/28 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR DETECTING THE FLOCCULATION THRESHOLD OF A COLLOIDAL MEDIUM, IN PARTICULAR A MEDIUM COMPRISING ASPHALTENES, BY ADDITION OF ALIPHATIC SOLVENT**

[54] **DISPOSITIF ET PROCEDE DE DETECTION DU SEUIL DE FLOCCULATION D'UN MILIEU COLLOIDAL, NOTAMMENT UN MILIEU COMPRENANT DES ASPHALTENES, PAR ADDITION DE SOLVANT ALIPHATIQUE**

[72] AL FARRA, AHMAD, FR

[72] OLIVIER, JEROME, FR

[72] LEPINAY, MARTIAL, FR

[72] CHRISTIEN, JEAN, FR

[71] TOTALENERGIES ONE TECH, FR

[85] 2022-12-15

[86] 2021-06-21 (PCT/EP2021/066878)

[87] (WO2021/259876)

[30] EP (20305688.2) 2020-06-23

[21] **3,182,993**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **DETECTION AND CLASSIFICATION OF HUMAN PAPILLOMAVIRUS ASSOCIATED CANCERS**

[54] **DETECTION ET CLASSIFICATION DE CANCERS ASSOCIES AU PAPILLOMAVIRUS HUMAIN**

[72] CALEF, ROBERT ABE PAINE, US

[72] MAHER, M. CYRUS, US

[72] BEAUSANG, JOHN F., US

[72] BREDNO, JOERG, US

[72] VENN, OLIVER CLAUDE, US

[72] FIELDS, ALEXANDER P., US

[72] JAMSHIDI, ARASH, US

[71] GRAIL, INC., US

[85] 2022-12-15

[86] 2021-06-17 (PCT/US2021/037865)

[87] (WO2021/257854)

[30] US (63/041,875) 2020-06-20

[21] **3,182,994**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 31/7088 (2006.01) A61K 47/00 (2006.01) A61P 35/00 (2006.01) C07F 9/09 (2006.01) C07F 9/24 (2006.01) C07F 9/553 (2006.01) C07F 9/568 (2006.01) C07F 9/572 (2006.01) C07F 9/59 (2006.01) C07F 9/6512 (2006.01) C07F 9/6533 (2006.01) C07F 9/6558 (2006.01) C07F 9/6561 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **LIPID COMPOUNDS AND LIPID NANOPARTICLE COMPOSITIONS**

[54] **COMPOSES LIPIDIQUES ET COMPOSITIONS DE NANOPARTICULES LIPIDIQUES**

[72] YING, BO, CN

[71] SUZHOU ABOGEN BIOSCIENCES CO., LTD., CN

[85] 2022-12-15

[86] 2021-06-29 (PCT/CN2021/103076)

[87] (WO2022/002040)

[30] CN (202010621718.8) 2020-06-30

[30] US (63/049,431) 2020-07-08

[21] **3,182,995**
[13] A1

[51] **Int.Cl. B65D 43/02 (2006.01)**

[25] EN

[54] **A LID**

[54] **COUVERCLE**

[72] LU, WEI, IE

[71] HANPAK LIMITED, IE

[85] 2022-12-15

[86] 2021-06-15 (PCT/EP2021/066163)

[87] (WO2021/255056)

[30] IE (S2020/0125) 2020-06-15

[21] **3,182,996**
[13] A1

[51] **Int.Cl. E05F 15/73 (2015.01)**

[25] EN

[54] **DOOR SYSTEM AND MODULE THEREFORE**

[54] **SYSTEME DE PORTE ET MODULE ASSOCIE**

[72] STERN, YOSEF, IL

[72] STERN, YUVAL, IL

[71] Y. STERN ENGINEERING (1989) LTD., IL

[85] 2022-12-15

[86] 2021-06-15 (PCT/IL2021/050724)

[87] (WO2021/255732)

[30] IL (275425) 2020-06-16

[21] **3,182,997**
[13] A1

[51] **Int.Cl. C21B 5/06 (2006.01) C21B 13/00 (2006.01)**

[25] EN

[54] **A DIRECT REDUCTION SYSTEM AND RELATIVE PROCESS**

[54] **SYSTEME DE REDUCTION DIRECTE ET PROCESSUS ASSOCIE**

[72] FRANCO, BARBARA, IT

[72] MARTINIS, ALESSANDRO, IT

[72] MARTINEZ MIRAMONTES, JORGE EUGENIO, MX

[71] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT

[71] HYL TECHNOLOGIES, S.A. DE C.V., MX

[85] 2022-12-15

[86] 2021-06-28 (PCT/EP2021/067704)

[87] (WO2021/260225)

[30] IT (102020000015472) 2020-06-26

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[21] **3,182,998**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 90/20 (2016.01) A61B 3/13 (2006.01) G02B 21/36 (2006.01)**

[25] EN

[54] **DIGITAL IMAGE OPTIMIZATION FOR OPHTHALMIC SURGERY**

[54] **OPTIMISATION D'IMAGE NUMERIQUE POUR CHIRURGIE OPHTALMIQUE**

[72] HALLEN, PAUL R., US

[71] ALCON INC., CH

[85] 2022-12-15

[86] 2021-07-14 (PCT/IB2021/056373)

[87] (WO2022/013794)

[30] US (63/052,373) 2020-07-15

[21] **3,182,999**
[13] A1

[51] **Int.Cl. B60N 2/02 (2006.01) B60N 2/90 (2018.01) B60N 2/04 (2006.01) B60N 2/12 (2006.01) B60N 2/20 (2006.01) B60N 2/22 (2006.01) B60N 2/30 (2006.01)**

[25] EN

[54] **SEAT ASSEMBLY WITH OVERRIDE CONDITION**

[54] **ENSEMBLE SIEGE A ETAT DE SURPASSEMENT**

[72] PLOCH, STEVEN, US

[71] MAGNA SEATING INC., CA

[85] 2022-12-15

[86] 2021-06-25 (PCT/US2021/039086)

[87] (WO2021/263103)

[30] US (62/705,392) 2020-06-25

[21] **3,183,002**
[13] A1

[51] **Int.Cl. G01N 21/83 (2006.01) G01N 21/51 (2006.01) G01N 33/28 (2006.01)**

[25] FR

[54] **DEVICE AND METHOD FOR DETECTING THE FLOCCULATION THRESHOLD OF A COLLOIDAL MEDIUM, IN PARTICULAR A MEDIUM COMPRISING ASPHALTENES, BY THE ADDITION OF ALIPHATIC SOLVENT**

[54] **DISPOSITIF ET PROCEDE DE DETECTION DU SEUIL DE FLOCCULATION D'UN MILIEU COLLOIDAL, NOTAMMENT D'UN MILIEU COMPRENANT DES ASPHALTENES, PAR ADDITION DE SOLVANT ALIPHATIQUE**

[72] AL FARRA, AHMAD, FR

[72] JOSE, FREDERIC, FR

[72] FANTOU, SANDRA, FR

[72] OLIVIER, JEROME, FR

[71] TOTALENERGIES ONE TECH, FR

[85] 2022-12-15

[86] 2021-06-21 (PCT/EP2021/066880)

[87] (WO2021/259877)

[30] EP (20305689.0) 2020-06-23

[21] **3,183,003**
[13] A1

[51] **Int.Cl. A23J 1/14 (2006.01) A23L 33/115 (2016.01) A23L 33/185 (2016.01) A23J 3/14 (2006.01)**

[25] EN

[54] **PROTEIN COMPOSITIONS PRODUCED FROM SUNFLOWER PLANT MATERIALS**

[54] **COMPOSITIONS DE PROTEINES PRODUITES A PARTIR DE MATIERES VEGETALES DE TOURNESOL**

[72] HARGREAVES, JASON, CA

[72] JAYAKUMAR, ABHIMANYU, CA

[72] LIU, SHUANGHUI, CA

[71] BOTANECO INC., CA

[85] 2022-12-15

[86] 2021-06-18 (PCT/CA2021/050839)

[87] (WO2021/253135)

[30] US (63/041,350) 2020-06-19

[21] **3,183,005**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**

[25] EN

[54] **ANCESTRY COMPOSITION DETERMINATION**

[54] **DETERMINATION D'UNE COMPOSITION D'ASCENDANCE**

[72] WILTON, PETER RICHARD, US

[72] POZNIK, GABRIEL DAVID, US

[72] MCMANUS, KIMBERLY FAITH, US

[72] JEWETT, ETHAN MACNEIL, US

[72] FREYMAN, WILLIAM ALLEN, US

[72] AUTON, ADAM, US

[71] 23ANDME, INC., US

[85] 2022-12-15

[86] 2021-08-13 (PCT/US2021/045880)

[87] (WO2022/036178)

[30] US (62/706,396) 2020-08-13

[30] US (63/093,039) 2020-10-16

[21] **3,183,010**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/021 (2006.01) A61B 5/022 (2006.01) A61B 5/026 (2006.01) A61B 5/0285 (2006.01)**

[25] EN

[54] **A METHOD TO QUANTIFY THE HEMODYNAMIC AND VASCULAR PROPERTIES IN VIVO FROM ARTERIAL WAVEFORM MEASUREMENTS**

[54] **PROCEDE DE QUANTIFICATION IN VIVO DES PROPRIETES HEMODYNAMIQUES ET VASCULAIRES A PARTIR DE MESURES DE FORME D'ONDE ARTERIELLE**

[72] HOCKING, GRANT, US

[71] HOCKING, GRANT, US

[85] 2022-12-15

[86] 2021-06-09 (PCT/US2021/036592)

[87] (WO2021/257341)

[30] US (63/039,524) 2020-06-16

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[21] **3,183,011**
[13] A1

[51] **Int.Cl. A01G 31/04 (2006.01) A01G 31/06 (2006.01)**
[25] EN
[54] **INDEXING PLANTS IN TWO-DIMENSIONAL AND THREE-DIMENSIONAL SPACE IN A CONTROLLED GROWING ENVIRONMENT**
[54] **INDEXATION DE PLANTES DANS UN ESPACE BIDIMENSIONNEL ET TRIDIMENSIONNEL DANS UN ENVIRONNEMENT DE CULTURE REGULE**
[72] STOREY, NATHANIEL R., US
[71] MJNN LLC, US
[85] 2022-12-15
[86] 2021-06-22 (PCT/US2021/038504)
[87] (WO2021/262732)
[30] US (63/043,129) 2020-06-24

[21] **3,183,014**
[13] A1

[51] **Int.Cl. A61C 5/90 (2017.01) A61F 5/56 (2006.01) A61M 16/06 (2006.01) A62B 9/06 (2006.01)**
[25] EN
[54] **ORAL APPLIANCE AND METHOD FOR TREATING SLEEP DISORDERS**
[54] **APPAREIL ORAL ET METHODE DE TRAITEMENT DE TROUBLES DU SOMMEIL**
[72] RASALINGAM, RAVI, US
[72] WARD, TARSHA, US
[72] ROCHE, ELLEN T., US
[72] VENEGAS, JOSE, US
[71] UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[71] THE GENERAL HOSPITAL CORPORATION D.B.A MASSACHUSETTS GENERAL HOSPITAL, US
[85] 2022-12-15
[86] 2021-06-17 (PCT/US2021/037806)
[87] (WO2021/257811)
[30] US (63/040,700) 2020-06-18

[21] **3,183,015**
[13] A1

[51] **Int.Cl. E01B 29/17 (2006.01)**
[25] EN
[54] **METHOD FOR RENEWING RAILS OF A RAILWAY TRACK WITH NEW LONG RAILS, AND ASSOCIATED WORK TRAIN**
[54] **PROCEDE DE RENOUELEMENT DE RAILS D'UNE VOIE FERREE PAR DES LONGS RAILS NOUVEAUX, ET TRAIN DE TRAVAUX ASSOCIE**
[72] PILLER, MARCO, CH
[72] PILET, JACQUES, CH
[72] SAVOYAT, MARC-ANTOINE, CH
[72] STUPAR, MILAN, CH
[72] MUNDT, ALAIN, CH
[71] MATISA MATERIEL INDUSTRIEL SA, CH
[85] 2022-12-15
[86] 2021-07-08 (PCT/EP2021/069082)
[87] (WO2022/008695)
[30] FR (FR2007219) 2020-07-08

[21] **3,183,018**
[13] A1

[51] **Int.Cl. A23J 1/14 (2006.01) A23L 33/185 (2016.01) A23J 3/14 (2006.01) A23L 2/66 (2006.01) C07K 1/14 (2006.01)**
[25] EN
[54] **PROTEIN COMPOSITIONS PRODUCED FROM HEMP PLANT MATERIALS**
[54] **COMPOSITIONS DE PROTEINES PRODUITES A PARTIR DE MATERIAUX VEGETAUX DE CHANVRE**
[72] BIRABONEYE, CESAR, CA
[72] LIU, SHUANGHUI, CA
[72] HARGREAVES, JASON, CA
[72] JAYAKUMAR, ABHIMANYU, CA
[72] TERSTEEG, SASKIA, CA
[71] BOTANECO INC., CA
[85] 2022-12-15
[86] 2021-06-18 (PCT/CA2021/050840)
[87] (WO2021/253136)
[30] US (63/041,370) 2020-06-19

[21] **3,183,020**
[13] A1

[51] **Int.Cl. G06Q 40/08 (2012.01) G16H 50/30 (2018.01)**
[25] EN
[54] **COMPUTING SYSTEM IMPLEMENTING A COGNITIVE-BASED RISK ASSESSMENT SERVICE FOR MOTOR VEHICLE RISK DETERMINATION**
[54] **SYSTEME INFORMATIQUE METTANT EN ?UVRE UN SERVICE D'EVALUATION DU RISQUE BASEE SUR LA COGNITION POUR LA DETERMINATION DU RISQUE DE VEHICULE A MOTEUR**
[72] SHAH, MUNJAL, US
[72] SURI, GAURAV, US
[72] ROOTS, KURT, US
[72] HINCHEY, RYAN, US
[71] HI.Q, INC., US
[85] 2022-12-15
[86] 2021-06-21 (PCT/US2021/038287)
[87] (WO2021/262609)
[30] US (63/042,488) 2020-06-22

[21] **3,183,021**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 1/16 (2006.01) C07K 1/30 (2006.01) C07K 1/34 (2006.01) C07K 1/36 (2006.01) C07K 16/06 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING A COMPOSITION COMPRISING HUMAN PLASMA-DERIVED IMMUNOGLOBULIN M**
[54] **PROCEDE D'OBTENTION D'UNE COMPOSITION COMPRENANT UNE IMMUNOGLOBULINE M DERIVEE DU PLASMA HUMAIN**
[72] LINDSAY, MYLES, US
[72] ZIMMERMAN, THOMAS P., US
[72] WOZNICHAK, MICHELLE, US
[72] SINGH, DEEPA, US
[72] ROMES, ERIN, US
[72] ORLOVA, NATALIA, US
[72] SILVERSTEIN, REBECCA, US
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[85] 2022-12-15
[86] 2021-07-08 (PCT/EP2021/069000)
[87] (WO2022/008658)
[30] US (63/050,611) 2020-07-10

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[21] **3,183,022**
[13] A1

[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/015 (2006.01) A61K 31/045 (2006.01)**

[25] EN

[54] **NANOPARTICLE-ENCAPSULATED CANNABINOIDS AND METHODS FOR MAKING AND USING SAME**

[54] **CANNABINOIDES ENCAPSULES DANS DES NANOPARTICULES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] LUCAS, NAOMIE, US

[72] SEIDEL, ERIC, US

[71] NUREVELATION, LLC, US

[85] 2022-12-15

[86] 2021-06-18 (PCT/US2021/037989)

[87] (WO2021/257935)

[30] US (63/041,544) 2020-06-19

[21] **3,183,025**
[13] A1

[51] **Int.Cl. C07D 205/04 (2006.01) C07D 207/09 (2006.01) C07D 207/12 (2006.01)**

[25] EN

[54] **COMPANION DIAGNOSTIC TOOL FOR MUTANT P53 REACTIVATING COMPOUNDS**

[54] **OUTIL DE DIAGNOSTIC COMPAGNON POUR COMPOSES DE REACTIVATION DE P53 MUTANTES**

[72] DUMBLE, MELISSA, US

[71] PMV PHARMACEUTICALS, INC., US

[85] 2022-12-15

[86] 2021-06-18 (PCT/US2021/038013)

[87] (WO2021/262541)

[30] US (63/043,307) 2020-06-24

[30] US (63/162,812) 2021-03-18

[21] **3,183,027**
[13] A1

[51] **Int.Cl. C07K 14/54 (2006.01) C07K 4/12 (2006.01) C07K 7/04 (2006.01) C07K 14/715 (2006.01)**

[25] EN

[54] **HUMAN IL23 RECEPTOR BINDING POLYPEPTIDES**

[54] **POLYPEPTIDES DE LIAISON AU RECEPTEUR IL23 HUMAIN**

[72] BERGER, STEPHANIE, US

[72] SEEGER, FRANZISKA, US

[72] BAKER, DAVID, US

[72] YU, TA-YI, US

[71] UNIVERSITY OF WASHINGTON, US

[85] 2022-12-15

[86] 2021-06-25 (PCT/US2021/039122)

[87] (WO2022/005899)

[30] US (63/045,381) 2020-06-29

[21] **3,183,029**
[13] A1

[51] **Int.Cl. G01N 33/566 (2006.01)**

[25] EN

[54] **METHODS FOR IDENTIFICATION OF COGNATE PAIRS OF LIGANDS AND RECEPTORS**

[54] **PROCEDES D'IDENTIFICATION DE PAIRES APPARENTEES DE LIGANDS ET DE RECEPTEURS**

[72] HAMZE, MOUSTAFA MARC, FR

[72] GERARD, ANNABELLE PATRICIA VERONIQUE, FR

[71] HIFIBIO (HK) LIMITED, CN

[85] 2022-12-15

[86] 2021-06-18 (PCT/IB2021/055413)

[87] (WO2021/260512)

[30] US (62/705,383) 2020-06-24

[21] **3,183,030**
[13] A1

[51] **Int.Cl. B01D 29/00 (2006.01) B01D 46/00 (2022.01) B01D 53/86 (2006.01) B01D 53/96 (2006.01) B01J 23/22 (2006.01) B01J 38/02 (2006.01) F23J 15/02 (2006.01)**

[25] EN

[54] **METHODS FOR REGENERATING A FILTER MEDIUM AND CLEANING FLUE GAS**

[54] **PROCEDES DE REGENERATION D'UN MILIEU FILTRANT ET DE NETTOYAGE DE GAZ DE COMBUSTION**

[72] MCNALL, MONACA A., US

[72] SONG, ZHUONAN, US

[71] W.L. GORE & ASSOCIATES, INC., US

[85] 2022-12-15

[86] 2021-07-09 (PCT/US2021/041127)

[87] (WO2022/015593)

[30] US (63/052,303) 2020-07-15

[21] **3,183,032**
[13] A1

[51] **Int.Cl. A61K 31/436 (2006.01)**

[25] EN

[54] **METHODS FOR DELAYING, PREVENTING, AND TREATING ACQUIRED RESISTANCE TO RAS INHIBITORS**

[54] **METHODES DE RETARDEMENT, DE PREVENTION ET DE TRAITEMENT DE LA RESISTANCE ACQUISE AUX INHIBITEURS DE RAS**

[72] SINGH, MALLIKA, US

[72] JIANG, JINGJING, US

[72] YANG, YU CHI, US

[72] EVANS, JAMES W., US

[72] SCHULZE, CHRISTOPHER J., US

[71] REVOLUTION MEDICINES, INC., US

[85] 2022-12-15

[86] 2021-06-16 (PCT/US2021/037679)

[87] (WO2021/257736)

[30] US (63/041,071) 2020-06-18

[30] US (63/062,973) 2020-08-07

[30] US (63/117,417) 2020-11-23

[30] US (63/134,128) 2021-01-05

[30] US (63/192,976) 2021-05-25

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[21] **3,183,033**
[13] A1

[51] **Int.Cl. A61K 31/341 (2006.01) A61K 31/655 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING CANCER USING A MODIFIED MONOSACCHARIDE COMPOUND**
[54] **PROCEDES DE TRAITEMENT DU CANCER A L'AIDE D'UN COMPOSE MONOSACCHARIDIQUE MODIFIE**
[72] DUKAN, SAM, FR
[71] THERAONCO, FR
[85] 2022-12-15
[86] 2021-07-06 (PCT/EP2021/068695)
[87] (WO2022/008528)
[30] EP (20305771.6) 2020-07-07

[21] **3,183,034**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-PD1 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-PD1 ET LEURS UTILISATIONS**
[72] ZHOU, HEYUE, US
[72] TANG, PRISCILLA, US
[72] BRESSON, DAMIEN, US
[72] SWANSON, BARBARA, US
[72] SINGH, ALOK, US
[72] KERWIN, LISA, US
[71] SORRENTO THERAPEUTICS, INC., US
[85] 2022-12-15
[86] 2021-06-25 (PCT/US2021/039188)
[87] (WO2021/263166)
[30] US (63/044,808) 2020-06-26

[21] **3,183,038**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR BUILDING BLOCKCHAINS FOR VERIFYING ASSETS FOR SMART CONTRACTS**
[54] **SYSTEMES ET PROCEDES POUR CONSTRUIRE DES CHAINES DE BLOCS POUR VERIFIER DES BIENS POUR DES CONTRATS INTELLIGENTS**
[72] RULE, JEFFREY, US
[72] BENKREIRA, ABDELKADER, US
[72] ILINCIC, RAJKO, US
[72] CARROLL, WILLIAM, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-15
[86] 2021-06-14 (PCT/US2021/037212)
[87] (WO2021/257447)
[30] US (16/901,718) 2020-06-15

[21] **3,183,039**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FACILITATING BANK ACCOUNT INFORMATION CHANGES**
[54] **SYSTEME ET PROCEDE POUR FACILITER DES CHANGEMENTS D'INFORMATIONS DE COMPTE BANCAIRE**
[72] RULE, JEFFREY, US
[72] OLENOSKI, MICHELLE, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-15
[86] 2021-06-16 (PCT/US2021/037546)
[87] (WO2021/257648)
[30] US (16/906,400) 2020-06-19

[21] **3,183,042**
[13] A1

[51] **Int.Cl. C12C 12/00 (2006.01)**
[25] EN
[54] **LOW DIACETYL YEAST**
[54] **LEVURE A FAIBLE TENEUR EN DIACETYLE**
[72] LENGELER, KLAUS, DK
[72] KATZ, MICHAEL, DK
[72] FORSTER, JOCHEN, DK
[72] FENNESSY, ROSS, DK
[72] GJERMANSSEN, CLAES, DK
[72] CHAILYAN, ANNA, DK
[71] CARLSBERG A/S, DK
[85] 2022-12-15
[86] 2021-06-29 (PCT/EP2021/067882)
[87] (WO2022/002960)
[30] EP (20183134.4) 2020-06-30

[21] **3,183,049**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01)**
[25] EN
[54] **METHOD**
[54] **PROCEDE**
[72] BOWEN, REBECCA VICTORIA, GB
[72] BROWN, CLIVE GAVIN, GB
[72] BRUCE, MARK JOHN, GB
[72] GARALDE, DANIEL RYAN, GB
[72] GRAHAM, JAMES EDWARD, GB
[72] HERON, ANDREW JOHN, GB
[72] RAIMONDEAU, ETIENNE, GB
[72] WHITE, JAMES, GB
[72] YOUD, CHRISTOPHER PETER, GB
[71] OXFORD NANOPORE TECHNOLOGIES PLC, GB
[85] 2022-12-15
[86] 2021-06-18 (PCT/GB2021/051556)
[87] (WO2021/255476)
[30] GB (2009335.7) 2020-06-18
[30] GB (2107194.9) 2021-05-19

[21] **3,183,050**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61P 25/28 (2006.01) C07K 14/47 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01) G01N 33/00 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **CELL LINES SECRETING ALPHA-SYNUCLEIN TARGETING ANTIBODIES, PROGRANULIN AND PROSAPOSIN AND A COMPLEX OF BOTH, AND GDNF**
[54] **LIGNEES CELLULAIRES SECRETANT DES ANTICORPS CIBLANT L'ALPHA-SYNUCLEINE, PROGRANULINE ET PROSAPOSINE ET UN COMPLEXE DES DEUX, ET GDNF**
[72] LUNDKVIST, JOHAN, SE
[72] WAHLBERG, LARS U., US
[72] BIVERSTAL, HENRIK, SE
[71] LUNDKVIST, JOHAN, SE
[71] WAHLBERG, LARS U., US
[71] BIVERSTAL, HENRIK, SE
[85] 2022-12-15
[86] 2021-06-21 (PCT/US2021/038312)
[87] (WO2021/258074)
[30] US (63/040,925) 2020-06-18
[30] US (63/212,721) 2021-06-20

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[21] **3,183,051**
[13] A1

[25] EN
[54] **ASYMMETRIC NETWORK INFRASTRUCTURE WITH DISTRIBUTED BROADCAST-SELECT SWITCH AND ASYMMETRIC NETWORK INTERFACE CONTROLLER**
[54] **INFRASTRUCTURE DE RESEAU ASYMETRIQUE AVEC COMMUTATEUR DE SELECTION DE DIFFUSION DISTRIBUEE ET CONTROLEUR D'INTERFACE DE RESEAU ASYMETRIQUE**
[72] LI, ZHILONG, CA
[72] LIU, YUNQU, CA
[71] VISCORE TECHNOLOGIES INC., CA
[85] 2022-12-15
[86] 2021-06-28 (PCT/CA2021/050885)
[87] (WO2022/000076)
[30] US (62/705,485) 2020-06-30

[21] **3,183,052**
[13] A1

[51] **Int.Cl. H04N 19/85 (2014.01) H04N 19/625 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **SCALING FACTOR DETECTION FOR COMPRESSED IMAGES AND VIDEOS**
[54] **DETECTION DE FACTEUR DE MISE A L'ECHELLE POUR DES IMAGES ET DES VIDEOS COMPRESSEES**
[72] SIREAEV, VLADIMIR, CA
[72] WANG, JIHENG, CA
[72] BADR, AHMED, CA
[71] SSIMWAVE INC., CA
[85] 2022-12-15
[86] 2021-06-23 (PCT/IB2021/055557)
[87] (WO2021/260585)
[30] US (63/042,705) 2020-06-23

[21] **3,183,053**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/545 (2015.01) A61K 35/34 (2015.01) A61L 27/38 (2006.01)**
[25] EN
[54] **PLURIPOTENT STEM CELL-DERIVED HEART ORGANOID**
[54] **ORGANOIDE CARDIAQUE DERIVE DE CELLULES SOUCHES PLURIPOTENTES**
[72] AGUIRRE, AITOR, US
[72] ISRAELI, YONATAN RAZ, US
[71] BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, US
[85] 2022-12-15
[86] 2021-06-17 (PCT/US2021/037808)
[87] (WO2021/257812)
[30] US (63/041,545) 2020-06-19
[30] US (63/155,596) 2021-03-02

[21] **3,183,054**
[13] A1

[51] **Int.Cl. C12Q 1/6832 (2018.01)**
[25] EN
[54] **DETECTION OF METHYLATION STATUS**
[54] **DETECTION D'ETATS DE METHYLATION**
[72] BENDIXEN, KAMILLA KOLDING, DK
[72] PETERSEN, RASMUS KOEFOED, DK
[72] CHRISTENSEN, ULF BECH, DK
[71] PENTABASE APS, DK
[85] 2022-12-15
[86] 2021-06-29 (PCT/EP2021/067880)
[87] (WO2022/002958)
[30] EP (20182947.0) 2020-06-29

[21] **3,183,056**
[13] A1

[51] **Int.Cl. A61C 13/00 (2006.01) A61C 13/08 (2006.01) A61C 13/09 (2006.01)**
[25] EN
[54] **METHOD FOR DEFINING DIFFERENT LAYER ELEMENTS OF AN ARTIFICIAL TOOTH ELEMENT**
[54] **PROCEDE DE DEFINITION DE DIFFERENTS ELEMENTS DE COUCHE D'UN ELEMENT DE DENT ARTIFICIELLE**
[72] KIRSTEN, ARMIN, DE
[71] VITA ZAHNFABRIK H. RAUTER GMBH & CO. KG, DE
[85] 2022-12-15
[86] 2021-07-07 (PCT/EP2021/068795)
[87] (WO2022/017788)
[30] EP (20186640.7) 2020-07-20

[21] **3,183,057**
[13] A1

[51] **Int.Cl. A61K 31/422 (2006.01) A61P 27/02 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **NEW COMPOUNDS AND THEIR USE AS THERAPEUTICALLY ACTIVE SUBSTANCES IN THE TREATMENT AND/OR PREVENTION OF DISEASES INVOLVING THE RETINAL PIGMENT EPITHELIUM**
[54] **NOUVEAUX COMPOSES ET LEUR UTILISATION EN TANT QUE SUBSTANCES THERAPEUTIQUEMENT ACTIVES DANS LE TRAITEMENT ET/OU LA PREVENTION DE MALADIES IMPLIQUANT L'EPITHELIUM PIGMENTAIRE RETINIE**
[72] STEGER, MATTHIAS, CH
[72] MUELLER, ALEX, CH
[72] MARIGO, MAURO, CH
[71] ENDOGENA THERAPEUTICS, INC., US
[85] 2022-12-15
[86] 2020-06-19 (PCT/US2020/038715)
[87] (WO2021/257092)

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[21] **3,183,058**
[13] A1

[51] **Int.Cl. A61B 17/08 (2006.01)**
[25] EN
[54] **INCISION CLOSURE DEVICE**
[54] **DISPOSITIF DE FERMETURE D'INCISION**
[72] LEBNER, MICHAEL, US
[71] CLOZEX MEDICAL, INC., US
[85] 2022-12-15
[86] 2020-06-19 (PCT/US2020/038596)
[87] (WO2021/257082)

[21] **3,183,059**
[13] A1

[51] **Int.Cl. B61D 11/00 (2006.01) G06T 7/521 (2017.01) G06T 7/73 (2017.01) E21D 9/00 (2006.01) E21D 13/00 (2006.01) E21D 21/00 (2006.01) E21F 13/00 (2006.01) G01C 7/06 (2006.01) G01C 11/28 (2006.01) G01C 22/00 (2006.01) G01S 17/89 (2020.01) G06T 7/60 (2017.01)**
[25] EN
[54] **NAVIGATION OF AN UNDERGROUND MINING MACHINE**
[54] **NAVIGATION D'UNE MACHINE D'EXPLOITATION MINIERE SOUTERRAINE**
[72] SARIC, KEVIN, AU
[72] DUNN, MARK, AU
[72] REID, PETER, AU
[72] THOMPSON, JEREMY, AU
[72] MALOS, JOHN, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2022-12-15
[86] 2021-05-28 (PCT/AU2021/050528)
[87] (WO2021/253068)
[30] AU (2020902027) 2020-06-18

[21] **3,183,060**
[13] A1

[51] **Int.Cl. B41F 15/08 (2006.01) B41F 15/36 (2006.01) B41F 15/40 (2006.01) B41F 15/44 (2006.01) H05K 3/12 (2006.01)**
[25] EN
[54] **PRINTING MACHINE AND PRINTING SYSTEM HAVING SCREEN MAGAZINE FOR PRINTING ON PLANAR SUBSTRATES**
[54] **MACHINE D'IMPRESSION ET SYSTEME D'IMPRESSION AYANT UN MAGASIN D'ECRANS POUR IMPRESSION SUR DES SUBSTRATS PLANS**
[72] SZEKERESCH, JAKOB, DE
[72] HAMMANN, MICHAEL, DE
[72] VEGELAHN, TORSTEN, DE
[72] KREIBL, WERNER, DE
[71] EKRA AUTOMATISIERUNGSSYSTEME GMBH, DE
[85] 2022-12-15
[86] 2021-06-29 (PCT/EP2021/067812)
[87] (WO2022/002915)
[30] DE (10 2020 208 163.8) 2020-06-30

[21] **3,183,061**
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/551 (2006.01)**
[25] EN
[54] **LATERAL FLOW ASSAY DEVICE FOR DETECTION OF ANALYTES AND METHOD OF DETECTION THEREOF**
[54] **DISPOSITIF DE DOSAGE A ECOULEMENT LATERAL POUR LA DETECTION D'ANALYTES ET SON PROCEDE DE DETECTION**
[72] VANGALA, RAJANIKANTH, IN
[71] NEUOME, PEPTIDES PTE. LTD., SG
[71] VANGALA, RAJANIKANTH, IN
[85] 2022-12-15
[86] 2021-06-15 (PCT/IN2021/050583)
[87] (WO2021/255755)
[30] IN (202041025166) 2020-06-15

[21] **3,183,062**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 19/02 (2006.01) A61P 37/00 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **ANTI-S100A4 ANTIBODIES FOR THE TREATMENT OF SYSTEMIC SCLEROSIS**
[54] **ANTICORPS ANTI-S100A4 POUR LE TRAITEMENT DE LA SCLEROSE SYSTEMIQUE**
[72] KLINGELHOFER, JORG, NO
[72] HALLEN, JONAS, NO
[72] HUSSAIN, RIZWAN IQBAL, NO
[72] DISTLER, JORG HANS WILHELM, DE
[72] TOMCIK, MICHAL, CZ
[72] BUSS, TIM, US
[72] MACCANN, DARRAGH, GB
[71] ARXX THERAPEUTICS AS, NO
[85] 2022-12-15
[86] 2021-06-30 (PCT/EP2021/068038)
[87] (WO2022/003042)
[30] EP (20183251.6) 2020-06-30
[30] US (63/147,485) 2021-02-09

[21] **3,183,063**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) C07D 401/14 (2006.01) C07D 471/10 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORM OF SHP2 INHIBITOR, AND COMPOSITION THEREOF, PREPARATION METHOD THEREFOR, AND USE THEREOF**
[54] **FORME CRISTALLINE D'INHIBITEUR DE SHP2, ET COMPOSITION DE CELLE-CI, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] ZHENG, QIANGANG, CN
[72] ZHUGE, HAO, CN
[72] ZHAO, YE, CN
[71] ETERN BIOPHARMA (SHANGHAI) CO., LTD., CN
[85] 2022-12-15
[86] 2021-06-17 (PCT/CN2021/100673)
[87] (WO2021/254449)
[30] CN (PCT/CN2020/096778) 2020-06-18

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[21] **3,183,064**
[13] A1

[51] **Int.Cl. A61B 17/08 (2006.01)**
[25] EN
[54] **TABBED AND SPLIT DUAL LINER DOUBLE REVETEMENT FENDU ET A LANGUETTES**
[72] LEBNER, MICHAEL, US
[71] CLOZEX MEDICAL, INC., US
[85] 2022-12-15
[86] 2020-06-19 (PCT/US2020/038600)
[87] (WO2021/257083)

[21] **3,183,065**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61P 25/22 (2006.01)**
[25] EN
[54] **TREATMENT OF FRAGILE X SYNDROME WITH CANNABIDIOL**
[54] **TRAITEMENT DU SYNDROME DE L'X FRAGILE AU MOYEN DE CANNABIDIOL**
[72] GRIESSER, JAMES, US
[72] DOBBINS, THOMAS W., US
[72] SEBREE, TERRI, US
[71] ZYNERBA PHARMACEUTICALS, INC., US
[85] 2022-12-15
[86] 2021-06-28 (PCT/IB2021/055772)
[87] (WO2022/003541)
[30] US (63/045,664) 2020-06-29

[21] **3,183,069**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 13/12 (2006.01) A61P 17/02 (2006.01) A61P 19/02 (2006.01) A61P 31/22 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **HUMANIZED ANTI-IL-4R.ALPHA. SINGLE DOMAIN ANTIBODY AND APPLICATION THEREOF**
[54] **ANTICORPS A DOMAINE UNIQUE ANTI-IL-4R.ALPHA. HUMANISE ET SON UTILISATION**
[72] SU, ZHIPENG, CN
[72] ZHANG, YUN, CN
[72] MENG, JINGUO, CN
[72] WANG, LEFEI, CN
[72] YAO, YAO, CN
[71] REGENECORE BIOTECH CO., LTD, CN
[85] 2022-12-15
[86] 2021-02-24 (PCT/CN2021/077649)
[87] (WO2022/121118)
[30] CN (202011445635.4) 2020-12-09

[21] **3,183,072**
[13] A1

[51] **Int.Cl. A61B 17/02 (2006.01) A61F 5/445 (2006.01)**
[25] EN
[54] **STOMAL DEVICE**
[54] **DISPOSITIF DE STOMIE**
[72] SHUKLA, PARUL J., US
[71] SHUKLA, PARUL J., US
[85] 2022-12-15
[86] 2021-06-16 (PCT/US2021/037672)
[87] (WO2021/257732)
[30] US (63/039,507) 2020-06-16

[21] **3,183,076**
[13] A1

[25] EN
[54] **METHOD FOR THE DETECTION OF AEROSOL PARTICLES IN AMBIENT AIR**
[54] **PROCEDE ET CAPTEUR POUR DETECTER DES PARTICULES D'AEROSOL DANS L'AIR AMBIANT**
[72] BITTNER, ACHIM, DE
[72] DEHE, ALFONS, DE
[72] WIENBRUCH, REBECCA, DE
[71] HAHN-SCHICKARD GESELLSCHAFT FUR ANGEWANDTE FORSCHUNG E.V., DE
[85] 2022-12-15
[86] 2021-07-21 (PCT/EP2021/070394)
[87] (WO2022/023141)
[30] EP (20188316.2) 2020-07-29

[21] **3,183,077**
[13] A1

[51] **Int.Cl. B07C 5/34 (2006.01) G06Q 50/28 (2012.01) B09B 3/35 (2022.01) C22B 1/00 (2006.01) C22B 7/00 (2006.01) C22B 21/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PROCESSING ALUMINUM ALLOY RIMS USING RIM SERIAL NUMBERS**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE JANTES EN ALLIAGE D'ALUMINIUM A L'AIDE DE NUMEROS DE SERIE DE JANTE**
[72] BITTON, DANIEL, CA
[71] HOUSE OF METALS COMPANY LIMITED, CA
[85] 2022-12-15
[86] 2022-02-01 (PCT/CA2022/050140)
[87] (WO2022/165588)
[30] US (63/145,246) 2021-02-03

[21] **3,183,078**
[13] A1

[51] **Int.Cl. A61C 5/80 (2017.01) A61C 5/82 (2017.01) A61C 5/90 (2017.01)**
[25] EN
[54] **CUSTOM TOOTH CLAMP**
[54] **PINCE A DENTS PERSONNALISEE**
[72] CIRIELLO, CHRISTOPHER, US
[72] JACKSON, JAMES, US
[72] WEY, GENE, US
[72] MULLER, NATHAN JOHN, US
[71] CYBERDONTICS (USA), INC., US
[85] 2022-12-15
[86] 2021-06-16 (PCT/US2021/037635)
[87] (WO2021/257708)
[30] US (63/040,401) 2020-06-17

[21] **3,183,079**
[13] A1

[51] **Int.Cl. A23K 20/00 (2016.01) A23L 33/10 (2016.01) A23L 33/155 (2016.01) A61K 31/59 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF USE OF .BETA.-HYDROXY-.BETA.-METHYLBUTYRATE (HMB) FOR IMPROVING MUSCLE MASS, STRENGTH AND MUSCULAR FUNCTION WITHOUT EXERCISE**
[54] **COMPOSITIONS ET PROCEDES D'UTILISATION DU .BETA.-HYDROXY-.BETA.-METHYLBUTYRATE (HMB) POUR AMELIORER LA MASSE MUSCULAIRE, LA RESISTANCE ET LA FONCTION MUSCULAIRE SANS EXERCICE**
[72] RATHMACHER, JOHN, US
[72] FULLER, JOHN, US
[72] BAIER, SHAWN, US
[71] METABOLIC TECHNOLOGIES, LLC, US
[85] 2022-12-15
[86] 2021-06-17 (PCT/US2021/037841)
[87] (WO2021/257839)
[30] US (63/040,241) 2020-06-17

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[21] **3,183,080**
[13] A1

[51] **Int.Cl. B01D 43/00 (2006.01) B01J 19/10 (2006.01) B01L 3/00 (2006.01) B32B 27/32 (2006.01) G01N 29/22 (2006.01)**

[25] EN

[54] **MICROFLUIDIC SYSTEMS AND METHODS FOR SORTING PARTICLES**

[54] **SYSTEMES MICROFLUIDIQUES ET PROCEDES DE TRI DE PARTICULES**

[72] CHO, SUNG HWAN, US

[72] MORACHIS, JOSE, US

[72] HANCOCK, JASON, US

[72] LO, ASHLEY, US

[71] NANOCELECT BIOMEDICAL, INC., US

[85] 2022-12-15

[86] 2021-06-17 (PCT/US2021/037815)

[87] (WO2021/257819)

[30] US (63/041,067) 2020-06-18

[30] US (63/166,694) 2021-03-26

[21] **3,183,081**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) C07D 209/04 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY FOR TREATMENT OF CANCER**

[54] **POLYTHERAPIE POUR LE TRAITEMENT DU CANCER**

[72] LEVINE, ARNOLD, US

[72] DUMBLE, MELISSA, US

[71] PMV PHARMACEUTICALS, INC., US

[85] 2022-12-15

[86] 2021-06-15 (PCT/US2021/037473)

[87] (WO2021/262484)

[30] US (63/043,342) 2020-06-24

[30] US (63/162,184) 2021-03-17

[21] **3,183,082**
[13] A1

[51] **Int.Cl. F02B 43/12 (2006.01) H01M 8/04 (2016.01) H01M 8/10 (2016.01)**

[25] EN

[54] **A SYSTEM AND METHOD FOR GENERATING ELECTRICITY USING PYROLYSIS OF PLASTICS**

[54] **SYSTEME ET PROCEDE PERMETTANT DE PRODUIRE DE L'ELECTRICITE A L'AIDE D'UNE PYROLYSE DE MATIERES PLASTIQUES**

[72] COHEN, AMIR, IL

[72] AZULY, AMIT, IL

[72] SANDLERMAN, NIMROD, IL

[71] CO-ENERGY LTD., IL

[85] 2022-12-15

[86] 2021-06-30 (PCT/IB2021/055857)

[87] (WO2022/003586)

[30] US (63/045,862) 2020-06-30

[21] **3,183,083**
[13] A1

[51] **Int.Cl. B01D 11/04 (2006.01) B01J 14/00 (2006.01)**

[25] EN

[54] **A SOLVENT DRYING SOLUTION AND PROCESSES THEREFOR**

[54] **SOLUTION DE SECHAGE PAR SOLVANT ET PROCESSUS S'Y RAPPORTANT**

[72] PRAKASH, CHAITRA, NZ

[72] TANG, HAIMING, NZ

[72] MADDOX, CRYSTAL, NZ

[71] AQUAFORTUS TECHNOLOGIES LIMITED, NZ

[85] 2022-12-15

[86] 2021-07-09 (PCT/NZ2021/050106)

[87] (WO2022/010367)

[30] US (63/050,546) 2020-07-10

[30] US (63/084,856) 2020-09-29

[21] **3,183,090**
[13] A1

[51] **Int.Cl. G06K 5/02 (2006.01) G06K 5/04 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEM FOR IMAGING OF MOVING PRINTED MATERIALS**

[54] **PROCEDES ET SYSTEME D'IMAGERIE DE MATERIAUX IMPRIMES MOBILES**

[72] CLARK, LEE M., US

[71] SYS-TECH SOLUTIONS, INC., US

[85] 2022-12-16

[86] 2021-06-16 (PCT/US2021/037629)

[87] (WO2021/257704)

[30] US (63/040,898) 2020-06-18

[21] **3,183,098**
[13] A1

[51] **Int.Cl. G01N 9/00 (2006.01) G01N 11/16 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CALCULATING A VIBRATORY METER Q**

[54] **PROCEDE ET APPAREIL DE CALCUL DE VALEUR DE Q DE COMPTEUR VIBRATOIRE**

[72] MACDONALD, GEORGE ALEXANDER, GB

[72] KRAVITZ, ANDREW S., US

[71] MICRO MOTION, INC., US

[85] 2022-12-16

[86] 2020-07-08 (PCT/US2020/041112)

[87] (WO2022/010463)

[21] **3,183,114**
[13] A1

[51] **Int.Cl. A47J 42/40 (2006.01) A47J 31/52 (2006.01) A47J 42/50 (2006.01) A47J 42/52 (2006.01)**

[25] EN

[54] **DISPENSING AND PREPARATION APPARATUS FOR POWDERED FOOD OR BEVERAGE PRODUCTS**

[54] **APPAREIL DE DISTRIBUTION ET DE PREPARATION POUR PRODUITS ALIMENTAIRES OU BOISSONS EN POUDRE**

[72] AIT BOUZIAD, YOUCEF, CH

[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2022-12-16

[86] 2021-06-04 (PCT/EP2021/065036)

[87] (WO2021/259615)

[30] EP (20181828.3) 2020-06-24

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[21] **3,183,118**
[13] A1

[51] **Int.Cl. A62D 3/40 (2007.01) C02F 1/02 (2006.01) C02F 1/04 (2006.01) C02F 1/10 (2006.01) C02F 1/12 (2006.01)**

[25] EN

[54] **METHOD FOR DRYING RED WATER FROM TRINITROTOLUENE PURIFICATION PROCESS, POWDER AND PACKAGED PRODUCT**

[54] **PROCEDE DE SECHAGE DE L'EAU ROUGE PROVENANT DU PROCEDE DE PURIFICATION DU TRINITROTOLUENE, POUDRE ET PRODUIT EMBALLE**

[72] JEANNOT, SIMON PIERRE, BR
[72] FAZOLIN, GABRIELA, BR
[71] MAC JEE TECNOLOGIA LTDA., BR
[85] 2022-12-16
[86] 2020-06-17 (PCT/BR2020/050213)
[87] (WO2021/253100)

[21] **3,183,123**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **VASCULAR ACCESS INSTRUMENT AND RELATED DEVICES AND METHODS**

[54] **INSTRUMENT D'ACCES VASCULAIRE AINSI QUE DISPOSITIFS ET METHODES ASSOCIES**

[72] BURKHOLZ, JONATHAN KARL, US
[72] MA, YIPING, US
[72] HARDING, WESTON F., US
[71] BECTON, DICKINSON AND COMPANY, INC., US
[85] 2022-12-16
[86] 2021-05-26 (PCT/US2021/034283)
[87] (WO2021/257257)
[30] US (63/041,517) 2020-06-19

[21] **3,183,124**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01)**

[25] EN

[54] **IL-5 BINDING MOLECULE, PREPARATION METHOD THEREFOR, AND USE THEREOF**

[54] **MOLECULE DE LIAISON D'IL-5, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] SU, ZHIPENG, CN
[72] MENG, JINGUO, CN
[72] ZHANG, YUN, CN
[72] WANG, LEFEI, CN
[72] YAO, YAO, CN
[71] REGENECORE BIOTECH CO., LTD, CN
[85] 2022-12-16
[86] 2021-02-24 (PCT/CN2021/077650)
[87] (WO2022/037031)
[30] CN (202010843501.1) 2020-08-20

[21] **3,183,128**
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **PROBE ASSEMBLY TO REPOSITION A CATHETER**

[54] **ENSEMBLE SONDE POUR REPOSITIONNER UN CATHETER**

[72] BURKHOLZ, JONATHAN KARL, US
[72] BLANCHARD, CURTIS H., US
[72] LACKEY, JOHN, US
[72] HARDING, WESTON F., US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-12-16
[86] 2021-06-07 (PCT/US2021/036193)
[87] (WO2021/257310)
[30] US (63/041,548) 2020-06-19
[30] US (17/330,224) 2021-05-25

[21] **3,183,129**
[13] A1

[51] **Int.Cl. C07H 21/04 (2006.01) C07H 21/02 (2006.01)**

[25] EN

[54] **RNA SCAFFOLDS**

[54] **ECHAFAUDAGES D'ARN**

[72] RUSHTON, MICHAEL, GB
[72] ANBAR, MICHAEL, GB
[72] HEMPHILL, KEVIN, US
[71] HORIZON DISCOVERY LIMITED, GB
[71] DHARMACON, INC., US
[85] 2022-12-16
[86] 2021-07-09 (PCT/US2021/041045)
[87] (WO2022/011232)
[30] GB (2010692.8) 2020-07-10

[21] **3,183,131**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) G01N 33/50 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **USE OF TERTIARY LYMPHOID STRUCTURES FOR THE PROGNOSIS OF DISEASE PROGRESSION OR TREATMENT IN CANCER**

[54] **UTILISATION DE STRUCTURES LYMPHOIDES TERTIAIRES POUR LE PRONOSTIC DE PROGRESSION DE MALADIE OU LE TRAITEMENT D'UN CANCER**

[72] ITALIANO, ANTOINE, FR
[72] LE LOARER, FRANCOIS, FR
[71] BERGONIE INSTITUTE, FR
[85] 2022-12-16
[86] 2021-07-19 (PCT/EP2021/070141)
[87] (WO2022/013453)
[30] EP (20186400.6) 2020-07-17

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[21] **3,183,134**
[13] A1

[51] **Int.Cl. A61K 8/64 (2006.01) A61K 8/73 (2006.01) C08B 37/08 (2006.01)**
[25] EN
[54] **SILK-HYALURONIC ACID COMPOSITIONS FOR TISSUE FILLING, TISSUE SPACING, AND TISSUE BULKING**
[54] **COMPOSITIONS DE SOIE-ACIDE HYALURONIQUE POUR LE REMPLISSAGE TISSULAIRE, L'ESPACEMENT TISSULAIRE ET LE GONFLEMENT TISSULAIRE**
[72] ALTMAN, GREGORY H., US
[72] BOSQUES, CARLOS J., US
[72] XU, PENG, US
[72] JIN, ERLEI, US
[72] YACONO, PATRICK, US
[72] FORTIER, JASON, US
[71] EVOLVED BY NATURE, INC., US
[85] 2022-12-16
[86] 2021-06-19 (PCT/US2021/038157)
[87] (WO2021/258030)
[30] US (63/041,581) 2020-06-19
[30] US (63/041,678) 2020-06-19
[30] US (63/041,616) 2020-06-19

[21] **3,183,143**
[13] A1

[51] **Int.Cl. A01K 11/00 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **AN ANIMAL TAG**
[54] **ETIQUETTE POUR ANIMAL**
[72] COHEN, MORDEHAY, IL
[72] KHOMITSKY, TARAS, IL
[72] HAZAN, SAMY, IL
[71] S.C.R. (ENGINEERS) LIMITED, IL
[85] 2022-12-16
[86] 2021-05-13 (PCT/IL2021/050555)
[87] (WO2021/255719)
[30] IL (275518) 2020-06-18

[21] **3,183,148**
[13] A1

[51] **Int.Cl. B41J 11/00 (2006.01) B41J 15/04 (2006.01)**
[25] EN
[54] **INKJET PRINTING METHOD**
[54] **PROCEDE D'IMPRESSION A JET D'ENCRE**
[72] WOUTERS, PAUL, BE
[72] DE KEGELAER, MARTIN, BE
[71] AGFA NV, BE
[85] 2022-12-16
[86] 2021-06-08 (PCT/EP2021/065213)
[87] (WO2021/254813)
[30] EP (20180999.3) 2020-06-19

[21] **3,183,150**
[13] A1

[25] EN
[54] **SEMI-TRANSPARENT PEROVSKITE-BASED PHOTOVOLTAIC CELLS AND PROCESS FOR PREPARING THEM**
[54] **CELLULES PHOTOVOLTAIQUES A BASE DE PEROVSKITE SEMI-TRANSPARENT ET PROCESSUS DE PREPARATION DE CES DERNIERES**
[72] BIAGINI, PAOLO, IT
[72] PO', RICCARDO, IT
[72] BISCONTI, FRANCESCO, IT
[72] GIURI, ANTONELLA, IT
[72] RIZZO, AURORA, IT
[72] COLELLA, SILVIA, IT
[71] ENI S.P.A., IT
[85] 2022-12-16
[86] 2021-06-16 (PCT/IB2021/055299)
[87] (WO2021/255657)
[30] IT (102020000014470) 2020-06-17

[21] **3,183,152**
[13] A1

[51] **Int.Cl. B65D 85/672 (2006.01)**
[25] EN
[54] **STORAGE DEVICE FOR COPPER FOIL**
[54] **DISPOSITIF DE STOCKAGE POUR FEUILLE DE CUIVRE**
[72] JUNG, IN SOO, KR
[72] CHOI, YEON TAE, KR
[72] KIM, SEUNG MIN, KR
[72] YANG, YOUNG GYU, KR
[71] SK NEXILIS CO., LTD., KR
[85] 2022-12-16
[86] 2021-06-29 (PCT/KR2021/008134)
[87] (WO2022/005147)
[30] KR (10-2020-0082233) 2020-07-03

[21] **3,183,153**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61P 7/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF GENE THERAPY PATIENTS**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE PATIENTS DE THERAPIE GENIQUE**
[72] HINDERER, CHRISTIAN, US
[72] HORIUCHI, MAKOTO, US
[72] WILSON, JAMES M., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-12-16
[86] 2021-06-16 (PCT/US2021/037575)
[87] (WO2021/257668)
[30] US (63/040,381) 2020-06-17
[30] US (63/135,998) 2021-01-11
[30] US (63/152,085) 2021-02-22

[21] **3,183,155**
[13] A1

[51] **Int.Cl. G06T 7/50 (2017.01) G06T 15/08 (2011.01)**
[25] EN
[54] **PHOTO-REALISTIC INFRASTRUCTURE INSPECTION**
[54] **INSPECTION D'INFRASTRUCTURE PHOTO-REALISTE**
[72] MIZGORSKI, JASON, US
[72] LAWNICZAK, ANDREW, US
[72] SALOTTI, FOSTER J, US
[72] RIGBY, RICHARD, US
[72] PASHNA, MOHSEN, US
[72] BUFFINGTON, JACK, US
[72] CROWELL, MATTHEW, US
[72] KONAKCHIEV, GALIN, US
[72] MORSY, MOHAMED, US
[72] DETTER, GABE, US
[72] HARMEN, ANDREW, US
[72] WALCH, VALERIE, US
[71] REDZONE ROBOTICS, INC., US
[85] 2022-12-16
[86] 2021-07-01 (PCT/US2021/040179)
[87] (WO2022/006453)
[30] US (63/047,393) 2020-07-02

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[21] **3,183,157**
[13] A1

[51] **Int.Cl. G01C 11/04 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **DIGITAL REMOTE MAPPING OF SUBSURFACE UTILITY INFRASTRUCTURE**

[54] **CARTOGRAPHIE NUMERIQUE A DISTANCE D'UNE INFRASTRUCTURE DE SERVICE SOUTERRAINE**

[72] MALKA, ITZIK, IL
[72] COHEN, YOAV, IL
[72] COHEN, NIR, IL
[71] 4M ANALYTICS LTD., IL
[85] 2022-12-16
[86] 2021-07-08 (PCT/IL2021/050839)
[87] (WO2022/009209)
[30] IL (275945) 2020-07-09

[21] **3,183,160**
[13] A1

[51] **Int.Cl. B27K 3/02 (2006.01) B27K 3/15 (2006.01) C08J 9/26 (2006.01)**

[25] EN

[54] **MODIFIED WOOD AND TRANSPARENT WOOD COMPOSITES, AND SYSTEMS AND METHODS FOR FORMING AND USE THEREOF**

[54] **BOIS MODIFIE ET COMPOSITES DE BOIS TRANSPARENTS, ET SYSTEMES ET PROCEDES DE FORMATION ET D'UTILISATION DE CEUX-CI**

[72] HU, LIANGBING, US
[72] MI, RUIYU, CN
[72] XIA, QINQIN, CN
[72] CHEN, CHAOJI, CN
[72] LI, TIAN, US
[71] UNIVERSITY OF MARYLAND, COLLEGE PARK, US
[85] 2022-12-16
[86] 2021-07-09 (PCT/US2021/041181)
[87] (WO2022/011316)
[30] US (63/050,484) 2020-07-10
[30] US (63/134,936) 2021-01-07

[21] **3,183,162**
[13] A1

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01) A61B 34/30 (2016.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GUIDANCE OF INTRALUMINAL DEVICES WITHIN THE VASCULATURE**

[54] **SYSTEMES ET PROCEDES DE GUIDAGE DE DISPOSITIFS INTRALUMINAUX A L'INTERIEUR DU SYSTEME VASCULAIRE**

[72] SGANGA, JAKE ANTHONY, US
[72] BELL, DAVID JAMES, US
[72] FREDRICKSON, BENJAMIN, US
[72] KAHN, GREGORY, US
[71] REMEDY ROBOTICS, INC., US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/070726)
[87] (WO2021/258113)
[30] US (63/041,538) 2020-06-19
[30] US (63/074,340) 2020-09-03

[21] **3,183,164**
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01) B01D 21/02 (2006.01) B01D 21/24 (2006.01) C02F 1/00 (2006.01) C02F 3/00 (2006.01) C02F 3/28 (2006.01) C02F 9/00 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TREATING A WASTEWATER STREAM**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'UN COURANT D'EAUX USEES**

[72] UMAN, AHMET ERKAN, US
[72] YEH, DANIEL H., US
[72] BAIR, ROBERT ALONSO, US
[71] UNIVERSITY OF SOUTH FLORIDA, US
[85] 2022-12-16
[86] 2021-06-25 (PCT/US2021/039226)
[87] (WO2021/263191)
[30] US (62/705,416) 2020-06-25

[21] **3,183,166**
[13] A1

[51] **Int.Cl. C23C 14/00 (2006.01) G01B 11/08 (2006.01) G01N 15/02 (2006.01) G01N 15/06 (2006.01) H01L 21/66 (2006.01)**

[25] EN

[54] **METHODS FOR MEASURING DUST AND LINT**

[54] **PROCEDES PERMETTANT DE MESURER DE LA POUSSIERE ET DES PELUCHES**

[72] CAMPBELL, CLAYTON, US
[72] PAWLOWSKA, LUCYNA, US
[72] DE ASSIS, TIAGO, US
[72] NURSE, CHRISTOPHER, US
[72] RAUNIO, JUKKA-PEKKA, US
[71] KEMIRA OYJ, FI
[85] 2022-12-16
[86] 2021-06-30 (PCT/US2021/039916)
[87] (WO2022/006287)
[30] US (63/046,053) 2020-06-30

[21] **3,183,167**
[13] A1

[25] EN

[54] **METHOD FOR DETERMINING INDIVIDUAL CARE PRODUCT FORMULATIONS**

[54] **PROCEDE DE DETERMINATION DE FORMULATIONS DE PRODUITS DE SOINS PERSONNELS**

[72] LEONHARDT, FRANZISKA, DE
[72] MICHELS, DOMINIK, DE
[71] METRICSCOSMETICS GMBH, DE
[85] 2022-12-16
[86] 2021-06-18 (PCT/EP2021/066721)
[87] (WO2021/255289)
[30] DE (10 2020 116 304.5) 2020-06-19

[21] **3,183,169**
[13] A1

[51] **Int.Cl. G01K 1/024 (2021.01) G01K 13/08 (2006.01)**

[25] EN

[54] **PUMP SENSOR SYSTEM**

[54] **SYSTEME DE CAPTEUR DE POMPE**

[72] WEISS, AARON, US
[72] RODRIGUEZ, ITUAH, US
[72] LINDEMAN, ADAM, US
[72] FLEMING, GRAYSON, US
[72] ENTERLINE, ANDREW, US
[71] CORNELL PUMP COMPANY, US
[85] 2022-12-16
[86] 2021-05-27 (PCT/US2021/034478)
[87] (WO2021/262383)
[30] US (63/043,903) 2020-06-25

Demandes PCT entrant en phase nationale

[21] **3,183,172**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) G16H 50/20 (2018.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **BIOMARKER BASED PATIENT SELECTION FOR PROTEASOME INHIBITOR TREATMENT**

[54] **SELECTION DE PATIENT A BASE DE BIOMARQUEUR DE TRAITEMENT PAR INHIBITEUR DE PROTEASOME**

[72] WINTER, JACOB M., US

[72] RUTTER, JARED, US

[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US

[85] 2022-12-16

[86] 2021-06-17 (PCT/US2021/037943)

[87] (WO2021/257910)

[30] US (63/040,442) 2020-06-17

[21] **3,183,174**
[13] A1

[25] EN

[54] **COMPUTER IMPLEMENTED SYSTEM AND METHOD TO CREATE WISDOM NETWORK**

[54] **SYSTEME ET PROCEDE MIS EN ?UVRE PAR ORDINATEUR POUR CREER UN RESEAU DE SAVOIRS**

[72] MAHAMMAD, SOHAIL, IN

[71] MAHAMMAD, SOHAIL, IN

[85] 2022-12-16

[86] 2021-05-14 (PCT/IB2021/054129)

[87] (WO2021/234521)

[30] IN (202041020979) 2020-05-19

[21] **3,183,175**
[13] A1

[51] **Int.Cl. B01D 9/00 (2006.01) C02F 1/78 (2006.01)**

[25] EN

[54] **METHOD OF PURIFICATION GASSES WITH INJECTION INTO LIQUIDS**

[54] **DEVELOPPEMENT DU PROCEDE D'ABSORPTION DANS LES DIFFERENTES INDUSTRIES**

[72] ABD ELMOEZ, MOHAMED HASAN SOLIMAN, EG

[71] ABD ELMOEZ, MOHAMED HASAN SOLIMAN, EG

[85] 2022-12-16

[86] 2021-05-18 (PCT/EG2021/000014)

[87] (WO2021/254584)

[30] EG (2020060866) 2020-06-17

[21] **3,183,176**
[13] A1

[51] **Int.Cl. H04W 28/02 (2009.01) H04W 28/16 (2009.01)**

[25] EN

[54] **INTEGRATED RADIO NETWORK WITH MULTI OPERATOR AND MULTI SIGNAL FORMAT FRONTHAUL CAPABILITY**

[54] **RESEAU RADIO INTEGRE A CAPACITE DE LIAISON FRONTHAUL MULTI-OPERATEURS ET MULTI-FORMATS DE SIGNAL**

[72] NOTARGIACOMO, MAASIMO, IT

[72] BRIZZI, GILBERTO, US

[72] FORESTA, FRANCESCO, IT

[72] PAGANI, ALESSANDRO, IT

[72] CHIURCO, GIOVANNI, IT

[72] GABELLI, GIULIO, IT

[72] DURANTE, DAVIDE, IT

[72] MARCHESE, FABRIZIO, IT

[72] WARK, RICHARD, US

[72] TIERNEY, MICHAEL, US

[71] JOHN MEZZALINGUA ASSOCIATES, LLC, US

[85] 2022-12-16

[86] 2021-06-15 (PCT/US2021/037366)

[87] (WO2021/257526)

[30] US (63/040,730) 2020-06-18

[21] **3,183,177**
[13] A1

[51] **Int.Cl. A01C 1/06 (2006.01) A01N 65/08 (2009.01) A01N 63/20 (2020.01) A01N 63/32 (2020.01) A01N 25/24 (2006.01) A23L 3/3571 (2006.01) C09D 4/00 (2006.01) C09D 101/02 (2006.01) C09D 105/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PRODUCING ENHANCED CROPS WITH PROBIOTICS**

[54] **COMPOSITIONS ET METHODES DE PRODUCTION DE CULTURES AMELIOREES AVEC DES PROBIOTIQUES**

[72] BALLOK, ALICIA, US

[72] KENNEDY, JOSEPHINE, US

[72] TOLEDO, GERARDO, US

[72] SCHOTT, ERIC MICHAEL, US

[72] MINCER, TRACY, US

[71] SOLAREA BIO, INC., US

[71] BALLOK, ALICIA, US

[71] KENNEDY, JOSEPHINE, US

[85] 2022-12-16

[86] 2021-06-21 (PCT/US2021/038311)

[87] (WO2021/258073)

[21] **3,183,178**
[13] A1

[51] **Int.Cl. A61B 18/18 (2006.01) A61F 7/00 (2006.01)**

[25] EN

[54] **DEPILATOR**

[54] **DISPOSITIF D'EPILATION**

[72] PAN, YUPING, CN

[72] LI, XIANG, CN

[71] SHENZHEN ULIKE SMART ELECTRONICS CO. LTD, CN

[85] 2022-12-16

[86] 2020-09-29 (PCT/CN2020/118788)

[87] (WO2021/253682)

[30] CN (202010570807.4) 2020-06-19

[30] CN (202021176922.5) 2020-06-19

[21] **3,183,179**
[13] A1

[51] **Int.Cl. A61B 5/378 (2021.01) A61B 5/369 (2021.01) A61B 5/377 (2021.01)**

[25] EN

[54] **METHODS FOR ASSESSING BRAIN HEALTH USING BEHAVIOURAL AND/OR ELECTROPHYSIOLOGICAL MEASURES OF VISUAL PROCESSING**

[54] **PROCEDES D'EVALUATION DE LA SANTE CEREBRALE A L'AIDE DE MESURES COMPORTEMENTALES ET/OU ELECTROPHYSIOLOGIQUES DU TRAITEMENT VISUEL**

[72] SEKULER, ALLISON, CA

[72] ROUDAIA, EUGENIE, CA

[72] HASHEMI, ALI, CA

[71] BAYCREST CENTRE FOR GERIATRIC CARE, CA

[85] 2022-12-16

[86] 2021-06-21 (PCT/CA2021/050847)

[87] (3183179)

[30] US (63/041,666) 2020-06-19

PCT Applications Entering the National Phase

[21] **3,183,180**
[13] A1

[51] **Int.Cl. C25C 3/02 (2006.01) C25C 7/02 (2006.01) C25C 7/04 (2006.01)**
[25] EN
[54] **ELECTROREFINING APPARATUS AND PROCESS FOR REFINING LITHIUM METAL**
[54] **APPAREIL D'ELECTRORAFFINAGE ET PROCEDE DE RAFFINAGE DU LITHIUM METALLIQUE**
[72] JASTRZEBSKI, MACIEJ, CA
[71] LI-METAL CORP., CA
[85] 2022-12-16
[86] 2022-01-21 (PCT/CA2022/050092)
[87] (WO2022/155752)
[30] US (63/140,119) 2021-01-21
[30] US (63/140,127) 2021-01-21

[21] **3,183,181**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/062 (2006.01)**
[25] EN
[54] **ENDOSCOPIC SUTURING DEVICE**
[54] **DISPOSITIF DE SUTURE ENDOSCOPIQUE**
[72] KHANICHEH, AZADEH, US
[72] OSTROVSKY, ISAAC, US
[71] ENVISION ENDOSCOPY, INC., US
[85] 2022-12-16
[86] 2021-06-22 (PCT/US2021/038541)
[87] (WO2021/262758)
[30] US (63/042,375) 2020-06-22
[30] US (63/142,677) 2021-01-28
[30] US (17/354,649) 2021-06-22

[21] **3,183,182**
[13] A1

[51] **Int.Cl. C10B 53/02 (2006.01) C10L 9/08 (2006.01)**
[25] EN
[54] **AUTONOMOUS DEVICE FOR IN-FIELD CONVERSION OF BIOMASS INTO BIOCHAR**
[54] **DISPOSITIF AUTONOME DE CONVERSION DANS LE CHAMP DE BIOMASSE EN BIOCHARBON**
[72] ARAMBURU, JASON, US
[72] WILLIAMS, MORGAN, US
[71] CLIMATE ROBOTICS INC., US
[85] 2022-12-16
[86] 2021-06-21 (PCT/US2021/038317)
[87] (WO2021/258077)
[30] US (63/041,702) 2020-06-19
[30] US (63/091,263) 2020-10-13

[21] **3,183,183**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/12 (2012.01) G06Q 20/14 (2012.01) G06Q 20/22 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FACILITATING TRANSFER OF ELECTRONIC PAYMENT INFORMATION**
[54] **SYSTEME ET PROCEDE DESTINES A FACILITER LE TRANSFERT D'INFORMATIONS DE PAIEMENT ELECTRONIQUE**
[72] MOSSOBA, MICHAEL, US
[72] EDWARDS, JOSHUA, US
[72] BENKREIRA, ABDELKADER, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-16
[86] 2021-06-16 (PCT/US2021/037543)
[87] (WO2021/257645)
[30] US (16/904,165) 2020-06-17

[21] **3,183,184**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **CAMPTOTHECIN ANALOGS CONJUGATED TO A GLUTAMINE RESIDUE IN A PROTEIN, AND THEIR USE**
[54] **ANALOGUES DE CAMPTOTHECINE CONJUGUES A UN RESIDU DE GLUTAMINE DANS UNE PROTEINE ET LEUR UTILISATION**
[72] HAN, AMY, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-12-16
[86] 2021-07-12 (PCT/US2021/041304)
[87] (WO2022/015656)
[30] US (63/051,172) 2020-07-13
[30] US (63/154,531) 2021-02-26

[21] **3,183,185**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 31/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL GRANULATIONS OF WATER-SOLUBLE ACTIVE PHARMACEUTICAL INGREDIENTS**
[54] **GRANULATIONS PHARMACEUTIQUES D'INGREDIENTS PHARMACEUTIQUES ACTIFS HYDROSOLUBLES**
[72] XIANG, JIA-NING, US
[72] KARABORNI, SAMI, US
[72] XIANG, WILLIAM W., US
[72] CANAFAX, DANIEL M., US
[71] XWPHARMA LTD., KY
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037830)
[87] (WO2021/257832)
[30] US (63/040,780) 2020-06-18

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[13] A1

[51] **Int.Cl. B42D 25/305 (2014.01) B42D 25/36 (2014.01) B42D 25/369 (2014.01) B42D 25/44 (2014.01) B42D 25/45 (2014.01)**
[25] EN
[54] **BIODEGRADABLE CARDS AND SYSTEMS AND METHODS FOR MAKING THE SAME**
[54] **SYSTEMES ET CARTES BIODEGRADABLES ET LEURS PROCEDES DE FABRICATION**
[72] WALTERS, AUSTIN, US
[72] PHAM, VINCENT, US
[72] GOODSITT, JEREMY, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037880)
[87] (WO2022/005761)
[30] US (16/915,065) 2020-06-29

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[13] A1

[51] **Int.Cl. F24C 11/00 (2006.01) F42D 1/055 (2006.01)**
[25] EN
[54] **IMPROVED COMMUNICATIONS IN ELECTRONIC DETONATORS**
[54] **COMMUNICATIONS AMELIOREES DANS DES DETONATEURS ELECTRONIQUES**
[72] TEOWEE, GIMTONG, US
[72] HOWE, LARRY S., US
[71] AUSTIN STAR DETONATOR COMPANY, US
[85] 2022-12-16
[86] 2021-06-25 (PCT/US2021/039111)
[87] (WO2021/263116)
[30] US (63/045,076) 2020-06-27

[21] **3,183,189**
[13] A1

[51] **Int.Cl. B01J 19/00 (2006.01) B01L 3/00 (2006.01) C12Q 1/68 (2018.01) G01N 21/05 (2006.01)**
[25] EN
[54] **FLOW CELLS AND METHODS FOR MAKING THE SAME**
[54] **CUVES A CIRCULATION ET PROCEDES POUR LA FABRICATION DE CELLES-CI**
[72] HONG, SAHNGKI, US
[72] KRAFT, LEWIS J., US
[71] ILLUMINA, INC., US
[85] 2022-12-16
[86] 2021-09-27 (PCT/US2021/052183)
[87] (WO2022/072275)
[30] US (63/084,986) 2020-09-29

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[51] **Int.Cl. A61B 5/08 (2006.01) A61M 16/00 (2006.01) A61M 16/04 (2006.01)**
[25] EN
[54] **UNIVERSAL RESPIRATORY DETECTOR**
[54] **DETECTEUR RESPIRATOIRE UNIVERSEL**
[72] CAIN, JANICE, US
[72] CAIN, BRIAN SCOTT, US
[72] DREGER, ALICIA B., US
[72] BERNHARD, MARK J., US
[72] MOHAN, AVINASH A., US
[71] AFFIRM MEDICAL TECHNOLOGIES II, LLC, US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037836)
[87] (WO2021/257836)
[30] US (63/040,372) 2020-06-17

[21] **3,183,191**
[13] A1

[51] **Int.Cl. A61B 17/225 (2006.01)**
[25] EN
[54] **HISTOTRIPSY ACOUSTIC AND PATIENT COUPLING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COUPLAGE ACOUSTIQUE PAR HISTOTRIPSIE AVEC UN PATIENT**
[72] STOPEK, JOSHUA, US
[72] CANNATA, JONATHON, US
[72] GRUMBIR, JUSTIN, US
[72] CROWLEY, THOMAS, US
[71] HISTOSONICS, INC., US
[85] 2022-12-16
[86] 2021-06-18 (PCT/US2021/038114)
[87] (WO2021/258007)
[30] US (63/041,072) 2020-06-18

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[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/17 (2006.01) A61K 38/36 (2006.01) A61K 38/57 (2006.01) A61P 7/02 (2006.01) C07K 14/435 (2006.01) C07K 14/745 (2006.01) C07K 14/81 (2006.01)**
[25] EN
[54] **IMPROVED THROMBIN INHIBITORS FOR TREATMENT OF THROMBOEMBOLIC CONDITIONS**
[54] **INHIBITEURS AMELIORES DE LA THROMBINE POUR LE TRAITEMENT D'AFFECTIONS THROMBOEMBOLIQUES**
[72] PAYNE, RICHARD J., AU
[72] WATSON, EMMA, AU
[72] JACKSON, SHAUN PHILLIP, AU
[71] THE UNIVERSITY OF SYDNEY, AU
[71] THE HEART RESEARCH INSTITUTE LTD, AU
[85] 2022-12-16
[86] 2020-06-19 (PCT/AU2020/050626)
[87] (WO2021/253067)

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[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) G01N 21/552 (2014.01)**
[25] EN
[54] **ALTERING FLOW CELL SIGNALS**
[54] **MODIFICATION DE SIGNAUX DE CUVE A CIRCULATION**
[72] ARTIOLI, GIANLUCA ANDREA, GB
[72] VON HATTEN, XAVIER, GB
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2022-12-16
[86] 2021-11-12 (PCT/EP2021/081502)
[87] (WO2022/101401)
[30] US (63/114,305) 2020-11-16

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[13] A1

[51] **Int.Cl. A61L 9/20 (2006.01)**
[25] EN
[54] **AIRBORNE PATHOGEN EXTRACTION SYSTEM**
[54] **SYSTEME D'EXTRACTION D'AGENTS PATHOGENES EN SUSPENSION DANS L'AIR**
[72] CHASE, ARNOLD, US
[71] CHASE, ARNOLD, US
[85] 2022-12-16
[86] 2020-10-01 (PCT/US2020/053689)
[87] (WO2021/262212)
[30] US (16/911,640) 2020-06-25

[21] **3,183,195**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 47/10 (2017.01)**
[25] EN
[54] **TOPICAL PHARMACEUTICAL COMPOSITIONS**
[54] **COMPOSITIONS PHARMACEUTIQUES TOPIQUES**
[72] JAIN, PIYUSH, US
[72] LEMING, ROBERT MICHAEL, US
[72] TABOLT, GLENN, US
[72] COLBORN, ALAN SCOTT, US
[71] DERMAVANT SCIENCES GMBH, CH
[85] 2022-12-16
[86] 2021-06-24 (PCT/US2021/038794)
[87] (WO2021/262917)
[30] US (63/043,340) 2020-06-24
[30] US (63/043,360) 2020-06-24

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[13] A1

[51] **Int.Cl. A01N 37/46 (2006.01) A01N 63/50 (2020.01) A01N 57/16 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES FOR THE TREATMENT AND PREVENTION OF BIOFILMS**
[54] **POLY THERAPIES POUR LE TRAITEMENT ET LA PREVENTION DE BIOFILMS**
[72] GOODMAN, STEVEN D., US
[72] BAKALETZ, LAUREN O., US
[71] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US
[85] 2022-12-16
[86] 2021-07-06 (PCT/US2021/040576)
[87] (WO2022/010942)
[30] US (63/049,065) 2020-07-07
[30] US (63/175,487) 2021-04-15

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[13] A1

[51] **Int.Cl. B29C 45/17 (2006.01) B29C 45/66 (2006.01) B29C 45/68 (2006.01)**
[25] EN
[54] **MOULD-CLOSING UNIT FOR AN INJECTION-MOULDING MACHINE FOR PROCESSING PLASTICS**
[54] **UNITE DE FERMETURE DE MOULE POUR UNE MACHINE DE MOULAGE PAR INJECTION POUR TRAITER DES MATIERES PLASTIQUES**
[72] BLETSCHER, RAINER, DE
[72] DUFFNER, EBERHARD, DE
[71] ARBURG GMBH + CO KG, DE
[85] 2022-12-16
[86] 2021-06-30 (PCT/EP2021/068000)
[87] (WO2022/003025)
[30] DE (10 2020 117 168.4) 2020-06-30

[21] **3,183,198**
[13] A1

[51] **Int.Cl. H04L 9/08 (2006.01)**
[25] FR
[54] **DEVICE, METHOD AND PROGRAM FOR SECURE COMMUNICATION BETWEEN WHITE BOXES**
[54] **DISPOSITIF, METHODE ET PROGRAMME POUR UNE COMMUNICATION SECURISEE ENTRE BOITES BLANCHES**
[72] CHRUPALLA, NICOLAS, FR
[72] HAMZI, NABIL, CH
[72] GERAUD, REMI, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2022-12-16
[86] 2021-07-08 (PCT/EP2021/069068)
[87] (WO2022/013072)
[30] FR (FR2007425) 2020-07-15

[21] **3,183,199**
[13] A1

[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **NEW METHOD AND KIT**
[54] **NOUVELLE METHODE ET NOUVEAU KIT**
[72] EDFORS, FREDRIK, SE
[72] UHLEN, MATHIAS, SE
[71] PROTEOMEDGE AB, SE
[85] 2022-12-16
[86] 2021-06-24 (PCT/EP2021/067375)
[87] (WO2021/260128)
[30] EP (20182679.9) 2020-06-26

[21] **3,183,200**
[13] A1

[51] **Int.Cl. F04B 25/00 (2006.01) F04B 27/04 (2006.01) F04B 35/01 (2006.01) F04B 53/02 (2006.01)**
[25] EN
[54] **MULTI-STAGE COMPRESSOR**
[54] **COMPRESSEUR A PLUSIEURS ETAGES**
[72] HANSEN, BENT SCHULTZ, DK
[71] INVENIO LAB APS, DK
[85] 2022-12-16
[86] 2021-07-07 (PCT/DK2021/050227)
[87] (WO2022/008018)
[30] DK (PA 2020 00817) 2020-07-07

[21] **3,183,202**
[13] A1

[51] **Int.Cl. A23N 12/08 (2006.01) A23N 12/12 (2006.01)**
[25] EN
[54] **ROASTING APPARATUS**
[54] **APPAREIL DE TORREFACTION**
[72] CECCAROLI, STEFANO, CH
[72] MARTIN, VINCENT, CH
[72] BRANDLE, MANUEL, CH
[72] NIEDERMANN, CHRISTOF, CH
[72] RICKLIN, ADRIAN, CH
[71] SOCIETE DES PRODUITS NESTLE SA, CH
[85] 2022-12-16
[86] 2021-07-27 (PCT/EP2021/070973)
[87] (WO2022/023324)
[30] EP (20188069.7) 2020-07-28

[21] **3,183,203**
[13] A1

[51] **Int.Cl. A23D 7/00 (2006.01) A23L 25/00 (2016.01) A23L 33/115 (2016.01) A23D 7/005 (2006.01)**
[25] EN
[54] **MCT FORMULATIONS FOR IMPROVING COGNITIVE FUNCTIONS AND METHODS OF MAKING AND USING SUCH FORMULATIONS**
[54] **FORMULATIONS DE TRIGLYCERIDES A CHAINE MOYENNE (TCM) POUR AMELIORER DES FONCTIONS COGNITIVES ET PROCEDES DE PRODUCTION ET D'UTILISATION DE TELLES FORMULATIONS**
[72] STEVENSON, NANCY, US
[71] SOCIETE DES PRODUITS NESTLE SA, CH
[85] 2022-12-16
[86] 2021-07-20 (PCT/EP2021/070290)
[87] (WO2022/018094)
[30] US (63/055,552) 2020-07-23

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[51] **Int.Cl. G08B 13/14 (2006.01) G08B 21/02 (2006.01) G08B 21/22 (2006.01)**
[25] EN
[54] **AN APPARATUS AND RELATED METHOD FOR PROXIMITY AWARENESS**
[54] **APPAREIL ET PROCEDE ASSOCIE DE PERCEPTION DE PROXIMITE**
[72] ROSSEY, JEN, BE
[72] JOORIS, BART, BE
[71] LOPOS BV, BE
[85] 2022-12-16
[86] 2021-06-30 (PCT/EP2021/067984)
[87] (WO2022/003018)
[30] EP (20183275.5) 2020-06-30

[21] **3,183,205**
[13] A1

[51] **Int.Cl. G06F 21/46 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING KNOWLEDGE-BASED AUTHENTICATION QUESTIONS**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE QUESTIONS D'AUTHENTIFICATION FONDEES SUR DES CONNAISSANCES**
[72] BENKREIRA, ABDELKADER, US
[72] MOSSOBA, MICHAEL, US
[72] EDWARDS, JOSHUA, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037892)
[87] (WO2022/005763)
[30] US (16/915,342) 2020-06-29

[21] **3,183,206**
[13] A1

[51] **Int.Cl. E06B 9/303 (2006.01) E06B 9/382 (2006.01)**
[25] EN
[54] **LADDER TAPE ASSEMBLIES WITH CORD SHROUD ARRANGEMENTS FOR SLATTED BLINDS**
[54] **ENSEMBLES RUBANS A JALOUSIE AYANT DES AGENCEMENTS D'ENVELOPPE DE CORDON POUR STORES A LATTES**
[72] STARKS, MARVIN, US
[72] IVARSSON, KLAS TURE, US
[72] MCNIEL, CLAUDE MATHEW, US
[72] FREIRICH, GORDON, US
[72] COLSON, WENDELL B., US
[72] WITHERELL, KENNETH, US
[72] BARR, DOUGLAS J., US
[71] HUNTER DOUGLAS INC., US
[85] 2022-12-16
[86] 2021-06-04 (PCT/US2021/035903)
[87] (WO2021/257295)
[30] US (63/040,619) 2020-06-18

[21] **3,183,207**
[13] A1

[51] **Int.Cl. A61K 31/201 (2006.01) A61K 39/12 (2006.01) C07K 14/005 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **FATTY ACID COMPLEXES OF CORONAVIRUS SPIKE PROTEIN AND THEIR USE**
[54] **COMPLEXES D'ACIDES GRAS DE PROTEINE DE SPICULE DE CORONAVIRUS ET LEUR UTILISATION**
[72] FITZGERALD, DANIEL JOSEPH, CH
[72] BERGER, IMRE, GB
[72] BERGER-SCHAFFITZEL, CHRISTIANE, GB
[72] TOELZER, CHRISTINE, GB
[72] GUPTA, KAPIL, GB
[71] THE UNIVERSITY OF BRISTOL, GB
[71] HALO THERAPEUTICS LTD, GB
[85] 2022-12-16
[86] 2021-06-18 (PCT/EP2021/066723)
[87] (WO2021/255291)
[30] EP (20180964.7) 2020-06-18
[30] EP (21163016.5) 2021-03-16
[30] EP (21170570.2) 2021-04-21

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[13] A1

[51] **Int.Cl. F42B 3/10 (2006.01)**
[25] EN
[54] **DETONATOR BLACK BOX**
[54] **BOITE NOIRE DE DETONATEUR**
[72] TEOWEE, GIMTONG, US
[72] RATHBUN, JOHN DAVID, US
[71] AUSTIN STAR DETONATOR COMPANY, US
[85] 2022-12-16
[86] 2021-06-25 (PCT/US2021/039102)
[87] (WO2021/263110)
[30] US (63/045,073) 2020-06-27

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[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/22 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR HANDLING POINT OF SALE CARD REJECTIONS**
[54] **SYSTEME ET PROCEDE POUR TRAITER LES REJETS DE CARTES DE POINT DE VENTE**
[72] WALTERS, AUSTIN, US
[72] PHAM, VINCENT, US
[72] GOODSITT, JEREMY, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037886)
[87] (WO2022/005762)
[30] US (16/915,127) 2020-06-29

[21] **3,183,211**
[13] A1

[51] **Int.Cl. B23Q 7/05 (2006.01) B60P 3/40 (2006.01) E01F 15/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRACKING AND RECORDING LOCATIONS OF ROAD BARRIERS**
[54] **SYSTEME ET PROCEDE DE SUIVI ET D'ENREGISTREMENT D'EMPLACEMENTS DE BARRIERES ROUTIERES**
[72] PROVAZNIK, RICHARD EDWARD, US
[71] LINDSAY TRANSPORTATION SOLUTIONS, LLC, US
[85] 2022-12-16
[86] 2021-06-22 (PCT/US2021/038357)
[87] (WO2021/262637)
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[25] EN	[25] EN	[25] EN
[54] A METHOD TO PRODUCE A MATCHED PAIR OF POLARIZING FILTERS AND A METHOD AND APPARATUS TO DETERMINE THE CONCENTRATION OF BIREFRINGENT PARTICLES USING A PAIR OF POLARIZING FILTERS	[54] CONDENSED RING COMPOUNDS THAT INHIBIT H-PGDS	[54] SYSTEM AND METHOD FOR ALIGNING ENTRY SNOUT OF A BARRIER TRANSFER MACHINE WITH ROAD BARRIERS
[54] PROCEDE POUR PRODUIRE UNE PAIRE APPARIEE DE FILTRES POLARISANTS ET PROCEDE ET APPAREIL POUR DETERMINER LA CONCENTRATION DE PARTICULES BIREFRINGENTES AU MOYEN D'UNE PAIRE DE FILTRES POLARISANT	[54] COMPOSES CYCLIQUES CONDENSES QUI INHIBENT LA H-PGDS	[54] SYSTEME ET PROCEDE D'ALIGNEMENT D'UN NEZ D'ENTREE D'UNE MACHINE DE TRANSFERT DE BARRIERE AVEC DES BARRIERES ROUTIERES
[72] NEUKERMANS, GRIET, BE	[72] BABA, MOTOAKI, JP	[72] PROVAZNIK, RICHARD EDWARD, US
[72] FOURNIER, GEORGES, CA	[72] OKUI, TAKUMA, JP	[72] ELMORE, MATTHEW A., US
[71] UNIVERSITEIT GENT, BE	[72] ITOH, YOSHIKI, JP	[71] LINDSAY TRANSPORTATION SOLUTIONS, LLC, US
[71] HIS MAJESTY THE KING IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER, CA	[71] SATO PHARMACEUTICAL CO., LTD., JP	[85] 2022-12-16
[85] 2022-12-16	[85] 2022-12-16	[86] 2021-06-22 (PCT/US2021/038353)
[86] 2021-06-29 (PCT/EP2021/067853)	[86] 2021-06-18 (PCT/JP2021/023271)	[87] (WO2021/262635)
[87] (WO2022/002939)	[87] (WO2021/256569)	[30] US (16/912,066) 2020-06-25
[30] EP (20183105.4) 2020-06-30	[30] JP (2020-106254) 2020-06-19	
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[51] Int.Cl. H04W 74/08 (2009.01)	[51] Int.Cl. B29B 7/78 (2006.01)	[51] Int.Cl. C12Q 1/6841 (2018.01) C12Q 1/6806 (2018.01)
[25] EN	[25] EN	[25] EN
[54] CHANNEL ACCESS METHOD FOR MULTI-LINK DEVICE, AND RELATED APPARATUS	[54] MIXING SILO FOR BULK MATERIAL, PRODUCTION PLANT WITH A MIXING SILO OF THIS KIND, AND METHOD FOR OPERATING A MIXING SILO OF THIS KIND	[54] COMPOSITIONS AND METHODS FOR IN SITU SINGLE CELL ANALYSIS USING ENZYMATIC NUCLEIC ACID EXTENSION
[54] PROCEDE D'ACCES A UN CANAL POUR DISPOSITIF A LIAISONS MULTIPLES ET APPAREIL ASSOCIE	[54] SILO DE MELANGE POUR MATERIAU EN VRAC, INSTALLATION DE PRODUCTION DOTEE D'UN TEL SILO DE MELANGE, ET PROCEDE DE FONCTIONNEMENT D'UN TEL SILO DE MELANGE	[54] COMPOSITIONS ET PROCEDES POUR UNE ANALYSE DE CELLULE UNIQUE IN SITU A L'AIDE D'UNE EXTENSION D'ACIDE NUCLEIQUE ENZYMATIQUE
[72] GUO, YUCHEN, CN	[72] DURR, MICHAEL, DE	[72] CHENG, JONATHAN, US
[72] LI, YUNBO, CN	[72] ZECHNER, EGON, DE	[72] DUNAWAY, DWAYNE, US
[72] LI, YIQING, CN	[71] COPERION GMBH, DE	[72] GREGORY, MARK, US
[72] GAN, MING, CN	[85] 2022-12-16	[72] JUNG, JAEMYEONG, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN	[86] 2021-06-10 (PCT/EP2021/065642)	[72] KHAFIZOV, RUSTEM, US
[85] 2022-12-16	[87] (WO2021/254876)	[72] KIM, DAE, US
[86] 2021-06-18 (PCT/CN2021/100783)	[30] DE (10 2020 207 608.1) 2020-06-19	[72] PERILLO, EVAN, US
[87] (WO2021/254467)		[72] RANE, TUSHAR, US
[30] CN (202010562039.8) 2020-06-18		[72] WU, LIDAN, US
		[71] NANOSTRING TECHNOLOGIES, INC., US
		[85] 2022-12-16
		[86] 2021-06-17 (PCT/US2021/037772)
		[87] (WO2021/257795)
		[30] US (63/040,651) 2020-06-18

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[51] **Int.Cl. H01R 9/05 (2006.01) H01R 13/6599 (2011.01)**
[25] EN
[54] **COAXIAL BLINDMATE CONNECTORS AND METHODS FOR USING THE SAME**
[54] **CONNECTEURS D'INTERCONNEXION A L'AVEUGLE COAXIAUX ET PROCEDES D'UTILISATION DESDITS CONNECTEURS**
[72] BURRIS, DONALD ANDREW, US
[72] FLAHERTY IV, THOMAS EDMOND, US
[72] MALOUF, DAVID JEFFREY, US
[71] CORNING OPTICAL COMMUNICATIONS RF LLC, US
[85] 2022-12-16
[86] 2021-06-10 (PCT/US2021/036742)
[87] (WO2021/257363)
[30] US (63/041,315) 2020-06-19

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[13] A1

[51] **Int.Cl. B65D 81/28 (2006.01)**
[25] EN
[54] **PACKAGES COMPRISING ANTI-MICROBIAL COATINGS FOR PREVENTING CONTAMINATION, E.G. AFTER FIRST USE OF THE PRODUCT**
[54] **EMBALLAGES COMPRENANT DES REVETEMENTS ANTIMICROBIENS POUR EMPECHER LA CONTAMINATION, PAR EXEMPLE APRES LA PREMIERE UTILISATION DU PRODUIT**
[72] WEIKART, CHRISTOPHER, US
[72] CLARK, BECKY L., US
[72] STEVENSON, ADAM, US
[72] FELTS, JOHN T., US
[72] TAHA, AHMAD, US
[72] ABRAMS, ROBERT S., US
[71] SIO2 MEDICAL PRODUCTS, INC., US
[85] 2022-12-16
[86] 2021-06-16 (PCT/US2021/037667)
[87] (WO2021/257728)
[30] US (63/039,666) 2020-06-16
[30] US (63/125,231) 2020-12-14

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[13] A1

[51] **Int.Cl. A61B 90/40 (2016.01)**
[25] EN
[54] **OPEN SURGERY PATIENT INTERFACE**
[54] **INTERFACE PATIENT EN CHIRURGIE OUVERTE**
[72] AMADOR NORIEGA, JESUS ANTONIO, NZ
[72] GELL, ZANE PAUL, NZ
[72] TEH, EU-LEE, NZ
[72] IP, BERNARD TSZ LUN, NZ
[72] MONRO, RORY ALEXANDER, NZ
[72] GREENFIELD, JAMES ROBERT JARMEY, NZ
[72] KURIGER, DONALD ROY, NZ
[72] GHALIB, ALI GHALIB ABDUL RAHMAN, NZ
[72] SOMERVILLE, JEMMA TAMSIN, NZ
[72] FREEBAIRN, SCOTT HAMISH, NZ
[72] WARNER, ZACH JONATHAN, NZ
[72] PEGMAN, BENJAMIN ELLIOT HARDINGE, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2022-12-16
[86] 2021-06-17 (PCT/IB2021/055346)
[87] (WO2021/255677)
[30] US (63/040,376) 2020-06-17
[30] US (63/061,694) 2020-08-05

[21] **3,183,221**
[13] A1

[51] **Int.Cl. A47G 21/14 (2006.01)**
[25] EN
[54] **IMPROVED CUTLERY TRAY COMPRISING INCLINED CAVITIES FOR KITCHEN UTENSILS**
[54] **PANIER A COUVERTS AMELIORE COMPRENANT DES CAVITES INCLINEES POUR DES USTENSILES DE CUISINE**
[72] TONTARELLI, SERGIO, IT
[71] TONTARELLI, SERGIO, IT
[85] 2022-12-16
[86] 2021-06-04 (PCT/EP2021/065011)
[87] (WO2021/254796)
[30] IT (102020000014809) 2020-06-19
[30] IT (102020000019567) 2020-08-06

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[13] A1

[51] **Int.Cl. B65C 9/00 (2006.01) G06Q 10/08 (2023.01) H04W 4/029 (2018.01) G06K 19/02 (2006.01)**
[25] EN
[54] **TRANSIENT WIRELESS COMMUNICATIONS NETWORK**
[54] **RESEAU DE COMMUNICATION SANS FIL TRANSITOIRE**
[72] VOLKERINK, HENDRIK J., US
[71] TRACKONOMY SYSTEMS, INC., US
[85] 2022-12-16
[86] 2021-06-18 (PCT/US2021/038140)
[87] (WO2021/258019)
[30] US (63/040,727) 2020-06-18

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[13] A1

[51] **Int.Cl. A61K 9/22 (2006.01) A61K 9/14 (2006.01) A61K 38/46 (2006.01) A61K 38/53 (2006.01) C12N 9/20 (2006.01)**
[25] EN
[54] **NON-PORCINE FORMULATIONS AND METHODS THEREOF**
[54] **FORMULATIONS NON PORCINES ET LEURS PROCEDES**
[72] SRINIVASAN, DINESH, US
[72] PENNINGTON, JAMES, US
[72] STOVER, TED, US
[72] SCHUE, MATHIEU, FR
[71] AZURRX BIOPHARMA, INC., US
[85] 2022-12-16
[86] 2021-06-17 (PCT/US2021/037850)
[87] (WO2021/257843)
[30] FR (2006394) 2020-06-18

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[13] A1

[51] **Int.Cl. F28D 20/00 (2006.01) F28D 17/00 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **ENERGY STORAGE AND RETRIEVAL SYSTEM COMPRISING A REGENERATOR AND AN ELECTRICAL MACHINE COUPLED TO A COMPRESSOR AND AN EXPANDER**
[54] **SYSTEME DE STOCKAGE ET DE RECUPERATION D'ENERGIE COMPRENANT UN REGENERATEUR ET UNE MACHINE ELECTRIQUE COUPLEE A UN COMPRESSEUR ET UN DETENDEUR**
[72] LOTFALIAN, REZA, CA
[71] KAAJ ENERGY INC., CA
[85] 2022-12-16
[86] 2021-06-17 (PCT/IB2021/055378)
[87] (WO2021/255694)
[30] CA (3,083,702) 2020-06-17

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[13] A1

[51] **Int.Cl. A61K 31/4985 (2006.01) A61K 31/573 (2006.01) A61K 45/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **GLUCOCORTICOID-SPARING AGENT**
[54] **AGENT DE CONSERVATION DE GLUCOCORTICOIDES**
[72] BRYSCH, WOLFGANG, DE
[72] VON WEGERER, JORG, DE
[72] LUDESCHER, BEATE, DE
[72] SCHUMANN, SARA, DE
[72] KAISER, ASTRID, DE
[72] SCHULZ, PETRA, DE
[71] METRIOPHARM AG, CH
[85] 2022-12-16
[86] 2021-07-08 (PCT/EP2021/000078)
[87] (WO2022/008093)
[30] EP (20000248.3) 2020-07-09

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[13] A1

[51] **Int.Cl. F03G 3/00 (2006.01)**
[25] EN
[54] **CENTRIFUGAL AND INERTIAL PUMP ASSEMBLY**
[54] **ENSEMBLE POMPE CENTRIFUGE ET INERTIEL**
[72] CASTILLO, JAMES D., US
[71] CASTILLO, JAMES D., US
[85] 2022-12-16
[86] 2021-06-23 (PCT/US2021/038598)
[87] (WO2021/262797)
[30] US (63/043,000) 2020-06-23
[30] US (17/354,696) 2021-06-22

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[13] A1

[51] **Int.Cl. C07C 43/23 (2006.01) A61K 31/047 (2006.01) A61K 31/10 (2006.01) A61K 31/192 (2006.01) A61K 31/216 (2006.01) A61K 31/235 (2006.01) C07C 29/17 (2006.01) C07C 43/178 (2006.01) C07C 51/367 (2006.01) C07C 57/42 (2006.01) C07C 69/734 (2006.01) C07C 69/76 (2006.01) C07C 215/24 (2006.01) C07C 235/34 (2006.01) C07C 309/73 (2006.01) C07D 213/68 (2006.01) C07D 217/04 (2006.01) C07D 295/15 (2006.01) C07D 311/16 (2006.01) C07D 491/18 (2006.01)**
[25] EN
[54] **TOTAL SYNTHESSES OF SPECIALIZED PRO-RESOLVING MEDIATORS (SPMS), STRUCTURAL ISOMERS AND STRUCTURAL ANALOGS**
[54] **SYNTHESSES TOTALES DE MEDIATEURS PRO-RESOLUTION SPECIALISES (SPMS), D'ISOMERES STRUCTURAUX ET D'ANALOGUES STRUCTURAUX**
[72] MARETTE, ANDRE, CA
[72] MALTAIS, RENE, CA
[72] POIRIER, DONALD, CA
[72] SANCEAU, JEAN-YVES, CA
[71] UNIVERSITE LAVAL, CA
[85] 2022-12-16
[86] 2021-09-13 (PCT/CA2021/051069)
[87] (3183227)
[30] US (63/059,041) 2020-07-30

[21] **3,183,229**
[13] A1

[51] **Int.Cl. H01M 4/1391 (2010.01) H01M 4/04 (2006.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **METHOD OF PREPARING CATHODE FOR SECONDARY BATTERY**
[54] **PROCEDE DE PREPARATION D'UNE CATHODE POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2020-05-22 (PCT/CN2020/091936)
[87] (WO2021/184534)
[30] CN (PCT/CN2020/080525) 2020-03-20

[21] **3,183,230**
[13] A1

[51] **Int.Cl. H01M 10/052 (2010.01)**
[25] EN
[54] **CATHODE AND CATHODE SLURRY FOR SECONDARY BATTERY**
[54] **CATHODE ET SUSPENSION EPAISSE DE CATHODE POUR ACCUMULATEUR**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2020-05-22 (PCT/CN2020/091941)
[87] (WO2021/184535)
[30] CN (PCT/CN2020/080525) 2020-03-20
[30] CN (PCT/CN2020/083212) 2020-04-03

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[13] A1

[51] **Int.Cl. H01M 4/62 (2006.01)**
[25] EN
[54] **CONDUCTIVE COMPOSITION FOR SECONDARY BATTERY**
[54] **COMPOSITION CONDUCTRICE POUR BATTERIE RECHARGEABLE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] SUN, XINYING, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-06-02 (PCT/CN2021/097996)
[87] (WO2021/254155)
[30] CN (PCT/CN2020/096672) 2020-06-17

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[21] **3,183,232**
[13] A1

[51] **Int.Cl. H01M 4/62 (2006.01)**
[25] EN
[54] **BINDER COMPOSITION FOR SECONDARY BATTERY**
[54] **COMPOSITION DE LIANT POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] QIU, HONGKE, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2020-09-25 (PCT/CN2020/117615)
[87] (WO2021/253672)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110105) 2020-08-19
[30] CN (PCT/CN2020/110065) 2020-08-19

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[13] A1

[51] **Int.Cl. H01M 4/62 (2006.01)**
[25] EN
[54] **BINDER COMPOSITION FOR SECONDARY BATTERY**
[54] **COMPOSITION DE LIANT POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] GONG, TAO, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2020-09-25 (PCT/CN2020/117789)
[87] (WO2021/253675)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110105) 2020-08-19
[30] CN (PCT/CN2020/110065) 2020-08-19

[21] **3,183,234**
[13] A1

[51] **Int.Cl. H01M 4/1391 (2010.01) H01M 4/131 (2010.01) H01M 4/62 (2006.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **CATHODE AND CATHODE SLURRY FOR SECONDARY BATTERY**
[54] **CATHODE ET SUSPENSION DE CATHODE POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] HUEN, PRISCILLA, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-03-12 (PCT/CN2021/080568)
[87] (WO2021/185183)
[30] CN (PCT/CN2020/080525) 2020-03-20
[30] CN (PCT/CN2020/091936) 2020-05-22
[30] CN (PCT/CN2020/083212) 2020-04-03
[30] CN (PCT/CN2020/091941) 2020-05-22
[30] CN (PCT/CN2020/129129) 2020-11-16
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (PCT/CN2020/096672) 2020-06-17

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[13] A1

[51] **Int.Cl. G06F 1/16 (2006.01) G06F 3/0481 (2022.01) G06F 3/0484 (2022.01) G06F 3/0488 (2022.01)**
[25] EN
[54] **USER DEVICE FOR DISPLAYING A USER-INTERFACE OBJECT AND METHOD THEREOF**
[54] **DISPOSITIF UTILISATEUR POUR AFFICHER UN OBJET D'INTERFACE UTILISATEUR ET SON PROCEDE**
[72] OKVIST, PETER, SE
[72] KRISTENSSON, ANDREAS, SE
[72] ARNGREN, TOMMY, SE
[71] CIPO, CA
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2022-12-16
[86] 2020-07-01 (PCT/EP2020/068545)
[87] (WO2022/002389)

[21] **3,183,236**
[13] A1

[51] **Int.Cl. B09B 3/00 (2022.01) H01M 10/0525 (2010.01) B29B 17/02 (2006.01) H01M 6/52 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **METHOD FOR COMPOSITE DELAMINATION**
[54] **PROCEDE DE DELAMINAGE DE COMPOSITE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] DONG, YANGJIAN, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2020-12-25 (PCT/CN2020/139555)
[87] (WO2021/253787)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/110105) 2020-08-19
[30] CN (PCT/CN2020/117615) 2020-09-25
[30] CN (PCT/CN2020/117738) 2020-09-25
[30] CN (PCT/CN2020/117767) 2020-09-25
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (PCT/CN2020/129129) 2020-11-16

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[51] **Int.Cl. C08F 220/46 (2006.01) H01M 4/13 (2010.01) H01M 10/052 (2010.01) H01M 10/0525 (2010.01) C08F 220/56 (2006.01) C09J 133/26 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **METHOD FOR POLYMER PRECIPITATION**
[54] **PROCEDE DE PRECIPITATION DE POLYMERE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] DONG, YANGJIAN, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-02-10 (PCT/CN2021/076466)
[87] (WO2021/253849)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (PCT/CN2020/139555) 2020-12-25

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[13] A1

[51] **Int.Cl. C09D 9/00 (2006.01) H01M 10/54 (2006.01)**
[25] EN
[54] **METHOD FOR COMPOSITE DELAMINATION**
[54] **PROCEDE DE DELAMINAGE DE COMPOSITE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] DONG, YANGJIAN, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-06-01 (PCT/CN2021/097669)
[87] (WO2021/254138)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (PCT/CN2021/080670) 2021-03-15

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[51] **Int.Cl. C09J 133/26 (2006.01) H01M 4/131 (2010.01) H01M 4/134 (2010.01) H01M 4/136 (2010.01) H01M 10/0525 (2010.01) C08F 220/56 (2006.01)**
[25] EN
[54] **BINDER COMPOSITION FOR SECONDARY BATTERY**
[54] **COMPOSITION DE LIANT POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] QIU, HONGKE, CN
[72] GONG, TAO, CN
[72] HUEN, PRISCILLA, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-06-10 (PCT/CN2021/099368)
[87] (WO2021/254245)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (202110393040.7) 2021-04-12

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[13] A1

[51] **Int.Cl. H01M 4/62 (2006.01)**
[25] EN
[54] **BINDER COMPOSITION FOR SECONDARY BATTERY**
[54] **COMPOSITION DE LIANT POUR BATTERIE SECONDAIRE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] GONG, TAO, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-06-15 (PCT/CN2021/099950)
[87] (WO2021/254300)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25

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[13] A1

[51] **Int.Cl. H01M 10/54 (2006.01)**
[25] EN
[54] **METHOD FOR RECYCLING BATTERY ELECTRODES**
[54] **PROCEDE DE RECYCLAGE D'ELECTRODES DE BATTERIE**
[72] HO, KAM PIU, CN
[72] JIANG, YINGKAI, CN
[72] DONG, YANGJIAN, CN
[71] GRST INTERNATIONAL LIMITED, CN
[85] 2022-12-16
[86] 2021-06-16 (PCT/CN2021/100365)
[87] (WO2021/254393)
[30] CN (PCT/CN2020/096672) 2020-06-17
[30] CN (PCT/CN2020/110065) 2020-08-19
[30] CN (PCT/CN2020/117789) 2020-09-25
[30] CN (PCT/CN2020/139555) 2020-12-25
[30] CN (PCT/CN2021/076466) 2021-02-10

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[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MODULATING FLRT3 MEDIATED SIGNAL TRANSDUCTION**
[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE LA TRANSDUCTION DU SIGNAL MEDIEE PAR FLRT3**
[72] FLIES, DALLAS BENJAMIN, US
[72] PRAJAPATI, KUSHAL, US
[72] KOKSAL, ADEM CAN, US
[72] LIU, LINDA, US
[72] LANGERMANN, SOLOMON, US
[71] NEXTCURE, INC., US
[85] 2022-12-16
[86] 2021-06-21 (PCT/US2021/038201)
[87] (WO2021/258040)
[30] US (63/040,654) 2020-06-18

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[13] A1

[51] **Int.Cl. F02B 63/04 (2006.01)**
[25] EN
[54] **ENCLOSURE SEGMENTS FOR FORMING AN ENCLOSURE FOR AN ENGINE GENERATOR SET**
[54] **SEGMENTS D'ENCEINTE POUR FORMER UNE ENCEINTE POUR UN GROUPE ELECTROGENE**
[72] MORE, SHASHIKANT RAMDAS, US
[71] CUMMINS POWER GENERATION INC., US
[85] 2022-12-19
[86] 2021-06-28 (PCT/US2021/039365)
[87] (WO2022/005964)
[30] US (63/045,556) 2020-06-29

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[13] A1

[51] **Int.Cl. G09B 5/04 (2006.01) G09B 19/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INTERACTIVE AND HANDSFREE LANGUAGE LEARNING**
[54] **SYSTEME ET PROCEDE D'APPRENTISSAGE DE LANGUE INTERACTIF ET MAINS LIBRES**
[72] ILIESCU, ALEXANDRU, RO
[72] ILIESCU, TUDOR, RO
[71] ATI STUDIOS A.P.P.S. S.R.L., RO
[85] 2022-12-19
[86] 2021-07-01 (PCT/EP2021/068177)
[87] (WO2022/003104)
[30] US (63/046,748) 2020-07-01

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[13] A1

[51] **Int.Cl. D21H 17/28 (2006.01)**
[25] EN
[54] **LOW CELLULOSIC NON-WOOD FIBER PRODUCTS AND METHODS OF MAKING THE SAME**
[54] **PRODUITS DE FIBRES NON LIGNEUSES A FAIBLE TENEUR EN CELLULOSE ET LEURS PROCEDES DE FABRICATION**
[72] AYOUB, ALI, US
[72] GHOTRA, BALJIT, US
[72] SANBORN, ALEXANDRA, US
[72] CHENAULT, DARRELL V., US
[71] ARCHER DANIELS MIDLAND COMPANY, US
[85] 2022-12-19
[86] 2021-06-18 (PCT/US2021/038021)
[87] (WO2021/257948)
[30] US (63/040,788) 2020-06-18

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[13] A1

[51] **Int.Cl. B01D 5/00 (2006.01) B29C 48/76 (2019.01) B01D 7/00 (2006.01) B01D 19/00 (2006.01) B01D 53/00 (2006.01) B29B 13/00 (2006.01) B29C 37/00 (2006.01) F28D 7/12 (2006.01)**
[25] EN
[54] **PURIFICATION OF GASES FROM THE DEGASSING OF POLYMER MELTS**
[54]
[72] BARATTI, GERHARD, CH
[71] BARATTI GMBH, CH
[85] 2022-12-19
[86] 2021-06-22 (PCT/EP2021/067001)
[87] (WO2021/259931)
[30] DE (DE 10 2020 116 414.9) 2020-06-22

[21] **3,183,282**
[13] A1

[51] **Int.Cl. C09D 7/80 (2018.01) C09D 7/62 (2018.01)**
[25] EN
[54] **THERMALLY INSULATING AND FIRE RETARDANT NON-INTUMESCENT COATING AND METHODS FOR MAKING SAME**
[54] **REVETEMENT THERMIQUEMENT ISOLANT ET IGNIFUGE, NON INTUMESCENT ET PROCEDES POUR SA FABRICATION**
[72] BLAIR, EAMONN MARTIN, CA
[71] ZEROIGNITION TECHNOLOGIES INC., CA
[85] 2022-12-19
[86] 2021-06-18 (PCT/CA2021/050836)
[87] (3183282)
[30] US (63/041,129) 2020-06-19

[21] **3,183,295**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01)**
[25] EN
[54] **RAPIDLY-ORODISPERSIBLE TABLETS HAVING AN INTERIOR CAVITY**
[54] **COMPRIMES RAPIDEMENT ORODISPERSIBLES A CAVITE INTERIEURE**
[72] YOO, JAEDEOK, US
[72] PHILLIPS, ALEECE M., US
[72] BRADBURY, THOMAS J., US
[72] WEST, THOMAS G., US
[71] APRECIA PHARMACEUTICALS LLC, US
[85] 2022-12-19
[86] 2021-06-25 (PCT/US2021/039137)
[87] (WO2021/263132)
[30] US (63/044,740) 2020-06-26
[30] US (63/214,343) 2021-06-24

[21] **3,183,296**
[13] A1

[51] **Int.Cl. A61K 31/55 (2006.01) A61K 31/553 (2006.01) A61K 31/554 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) C07D 487/04 (2006.01) C07D 498/04 (2006.01) C07D 498/14 (2006.01) C07D 513/04 (2006.01) C07D 513/14 (2006.01)**
[25] EN
[54] **RIP1K INHIBITORS**
[54] **INHIBITEURS DE RIP1K**
[72] BHAMIDIPATI, SOMASEKHAR, US
[72] DARWISH, IHAB, US
[72] IRVING, MARK, US
[72] KOLLURI, RAO, US
[72] MASUDA, ESTEBAN, US
[72] SHAW, SIMON, US
[72] TAYLOR, VANESSA, US
[72] YU, JIAXIN, US
[71] RIGEL PHARMACEUTICALS, INC., US
[85] 2022-12-19
[86] 2021-06-25 (PCT/US2021/039112)
[87] (WO2022/005898)
[30] US (63/047,194) 2020-07-01

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[21] **3,183,298**
[13] A1

[51] **Int.Cl. C07C 275/26 (2006.01) C07D 213/64 (2006.01) C07D 239/34 (2006.01)**

[25] EN

[54] **CYCLOBUTYL-UREA DERIVATIVES**

[54] **DERIVES DE CYCLOBUTYLE-UREE**

[72] BEZENCON, OLIVIER, CH

[72] DEYMIER, CAROLINE, CH

[72] PETERS, JENS-UWE, CH

[72] SIEGRIST, ROMAIN, CH

[72] SURIVET, JEAN-PHILIPPE, CH

[71] IDORSIA PHARMACEUTICALS LTD, CH

[85] 2022-12-19

[86] 2021-06-24 (PCT/EP2021/067288)

[87] (WO2021/260090)

[30] EP (PCT/EP2020/067903) 2020-06-25

[21] **3,183,299**
[13] A1

[51] **Int.Cl. A61K 31/19 (2006.01) A61K 38/22 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) C07C 53/10 (2006.01) C07K 14/575 (2006.01) C07K 14/60 (2006.01)**

[25] EN

[54] **LOW-DOSE PHARMACEUTICAL COMPOSITIONS OF GHRH ANALOGS AND USES THEREOF**

[54] **COMPOSITIONS PHARMACEUTIQUES A FAIBLE DOSE D'ANALOGUES DE GHRH, ET LEURS UTILISATIONS**

[72] MARSOLAIS, CHRISTIAN, CA

[72] SHINGEL, KIRILL, CA

[72] POTVIN, DIANE, CA

[71] THERATECHNOLOGIES INC., CA

[85] 2022-12-19

[86] 2021-06-30 (PCT/CA2021/050904)

[87] (WO2022/006657)

[30] US (63/048,167) 2020-07-05

[21] **3,183,306**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61P 19/02 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **TREATING RHEUMATOID ARTHRITIS**

[54] **TRAITEMENT DE LA POLYARTHRITE RHUMATOIDE**

[72] SCHIEVEN, GARY L., US

[72] DUDHGAONKAR, SHAILESH, IN

[72] DOYLE, MICHAEL LOUIS, US

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2022-12-19

[86] 2021-06-21 (PCT/US2021/038170)

[87] (WO2021/262561)

[30] IN (202011026256) 2020-06-22

[21] **3,183,311**
[13] A1

[51] **Int.Cl. A23L 2/00 (2006.01) A23L 33/105 (2016.01) A61K 31/192 (2006.01)**

[25] EN

[54] **CANNABINOID ACID BEVERAGE**

[54] **BOISSON CONTENANT DE L'ACIDE CANNABINOIDE**

[72] LANIER, WILLIAM, US

[71] CHEMTOR, LP, US

[85] 2022-12-19

[86] 2021-07-01 (PCT/US2021/040139)

[87] (WO2022/006428)

[30] US (63/047,692) 2020-07-02

[21] **3,183,314**
[13] A1

[51] **Int.Cl. G01N 33/08 (2006.01)**

[25] EN

[54] **EGG DETERMINING METHOD AND DEVICE**

[54] **PROCEDE ET DISPOSITIF DE DETERMINATION D'UF**

[72] STUTTERHEIM, WIL MARIJN, NL

[72] BRUINS, WOUTER SEBASTIAAN, NL

[72] TEUNISSEN, SEBASTIAAN FRANS, NL

[72] HANKEMEIER, THOMAS, NL

[72] DROUIN, NICOLAS FRANCOIS PIERRE, NL

[71] IN OVO HOLDING B.V., NL

[85] 2022-12-19

[86] 2021-07-05 (PCT/NL2021/050427)

[87] (WO2022/010348)

[30] NL (NL2026004) 2020-07-05

[21] **3,183,315**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**

[25] EN

[54] **INFORMATION SENDING METHOD, INFORMATION RECEIVING METHOD AND DEVICE**

[54] **PROCEDE D'ENVOI D'INFORMATIONS, PROCEDE DE RECEPTION D'INFORMATIONS, ET DISPOSITIF**

[72] XIE, FANG, CN

[72] LIU, GUANGYI, CN

[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN

[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN

[85] 2022-12-19

[86] 2021-06-21 (PCT/CN2021/101339)

[87] (WO2021/254520)

[30] CN (202010568297.7) 2020-06-19

[21] **3,183,316**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 21/00 (2006.01) C07K 16/22 (2006.01)**

[25] EN

[54] **ACTIVIN A ANTIBODY FORMULATIONS AND METHODS OF USE THEREOF**

[54] **FORMULATIONS D'ANTICORPS ANTI-ACTIVINE A ET LEURS METHODES D'UTILISATION**

[72] KAMEN, DOUGLAS, US

[72] GRAHAM, KENNETH, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2022-12-19

[86] 2021-06-18 (PCT/US2021/038016)

[87] (WO2021/257947)

[30] US (63/040,589) 2020-06-18

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[21] 3,183,320 [13] A1	[21] 3,183,321 [13] A1	[21] 3,183,322 [13] A1
[51] Int.Cl. C08G 59/50 (2006.01) C08K 3/04 (2006.01)	[51] Int.Cl. C07D 471/04 (2006.01) A61P 25/28 (2006.01) A61P 35/02 (2006.01) A61P 35/04 (2006.01) A61P 37/02 (2006.01) C07D 401/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01)	[51] Int.Cl. C12Q 1/6809 (2018.01) A61K 35/17 (2015.01) C12Q 1/6886 (2018.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 45/00 (2006.01) C07K 16/28 (2006.01)
[25] EN	[25] EN	[25] EN
[54] ELECTRICALLY CONDUCTIVE EPOXY RESIN COATING AND ELECTROSTATICALLY DISSIPATIVE FLOOR	[54] 2-(INDAZOL-5-YL)-6-(PIPERIDIN-4-YL)-1,7-NAPHTHYRIDINE DERIVATIVES AND RELATED COMPOUNDS AS MODULATORS FOR SPLICING NUCLEIC ACIDS AND FOR THE TREATMENT OF PROLIFERATIVE DISEASES	[54] METHODS OF DETERMINING RESPONSIVENESS TO CANCER IMMUNOTHERAPY
[54] REVETEMENT DE RESINE EPOXYDE	[54] DERIVES DE 2-(INDAZOL-5-YL)-6-(PIPERIDIN-4-YL)-1,7-NAPHTHYRIDINE ET COMPOSES Y RELATIFS EN TANT QUE MODULATEURS POUR L'EPISSAGE D'ACIDES NUCLEIQUES ET POUR LE TRAITEMENT DE MALADIES PROLIFERANTE	[54] PROCEDES DE DETERMINATION DE LA FACULTE DE REPONSE A UNE IMMUNOTHERAPIE ANTICANCEREUSE
[72] GROTZINGER, JOCHEN, DE	[72] REYNOLDS, DOMINIC, US	[72] TWITTY, CHRISTOPHER G., US
[72] VON DER BRUGGEN, UWE, DE	[72] SEILER, MICHAEL W., US	[71] ONCOSEC MEDICAL INCORPORATED, US
[72] SARIOGLU, OGUZ, DE	[72] AGRAWAL, ANANT A., US	[85] 2022-12-19
[72] KASEMI, EDIS, CH	[72] VAILLANCOURT, FREDERIC, US	[86] 2021-06-18 (PCT/US2021/038005)
[71] SIKA TECHNOLOGY AG, CH	[72] SMITH, PETER, US	[87] (WO2021/257943)
[85] 2022-12-19	[72] HOPPER, ALLEN T., US	[30] US (63/041,493) 2020-06-19
[86] 2021-08-31 (PCT/EP2021/074014)	[72] HOPPER, ALLEN T., US	
[87] (WO2022/049070)	[72] PRAJAPATI, SUDEEP, US	
[30] EP (20193948.5) 2020-09-01	[72] VYSKOCIL, STEPAN, US	
	[71] REMIX THERAPEUTICS INC., US	
	[85] 2022-12-19	
	[86] 2021-07-02 (PCT/US2021/040364)	
	[87] (WO2022/006550)	
	[30] US (63/047,898) 2020-07-02	
	[30] US (63/072,921) 2020-08-31	
	[30] US (63/126,495) 2020-12-16	
		[21] 3,183,324 [13] A1
		[51] Int.Cl. C07C 1/04 (2006.01)
		[25] EN
		[54] PROCESSES FOR PREPARING C2 TO C3 HYDROCARBONS
		[54] PROCEDES DE PREPARATION D'HYDROCARBURES EN C2 A C3
		[72] KIRILIN, ALEXEY, NL
		[72] MILLAR, DEAN M., US
		[72] CHOJECKI, ADAM, NL
		[72] DEWILDE, JOSEPH F., US
		[72] POLLEFEYT, GLENN, NL
		[72] NIESKENS, DAVY L.S., NL
		[72] MALEK, ANDRZEJ, US
		[71] DOW GLOBAL TECHNOLOGIES LLC, US
		[85] 2022-12-19
		[86] 2021-06-18 (PCT/US2021/038023)
		[87] (WO2022/005769)
		[30] US (63/045,888) 2020-06-30

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[21] **3,183,326**
[13] A1

[51] **Int.Cl. B23K 26/34 (2014.01) B23K 26/60 (2014.01) B23K 26/40 (2014.01)**
[25] EN
[54] **METHOD TO PRODUCE HIGH CORROSION AND WEAR RESISTANT CAST IRON COMPONENTS BY USING LASER CLADDING**
[54] **PROCEDE DE PRODUCTION DE COMPOSANTS EN FONTE HAUTEMENT RESISTANTS A LA CORROSION ET A L'USURE A L'AIDE D'UNE GAINE LASER**
[72] NAJAFI, HOSSEIN, CH
[72] AROSIO, FRANCO, DE
[72] ZIKIN, ARKADI, CH
[72] HEINECKE, ROLF, DE
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2022-12-19
[86] 2021-07-02 (PCT/EP2021/068410)
[87] (WO2022/003189)
[30] US (63/047,429) 2020-07-02

[21] **3,183,329**
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01)**
[25] EN
[54] **TAGGING ASSEMBLY INCLUDING A SACRIFICIAL STOP COMPONENT**
[54] **ENSEMBLE DE MARQUAGE COMPRENANT UN ELEMENT D'ARRET SACRIFICIEL**
[72] PETER, ANDREAS, US
[72] PETERS, VOLKER, US
[72] REGENER, THORSTEN, US
[72] GRONAAS, KJELL MAGNE, US
[72] JOHNSEN, FRANK, US
[72] GRINDHAUG, GAUTE, US
[72] SETERDAL, FREDDY, US
[72] FREY, RICK, US
[72] HOLDEN, KJETIL, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-12-19
[86] 2021-06-29 (PCT/US2021/039496)
[87] (WO2022/006035)
[30] US (63/045,425) 2020-06-29

[21] **3,183,333**
[13] A1

[51] **Int.Cl. C03B 23/049 (2006.01) C03B 23/09 (2006.01) C03B 40/027 (2006.01)**
[25] EN
[54] **APPARATUS FOR FORMING A CONE FOR HOUSING A NEEDLE IN A SYRINGE, METHOD FOR MAKING A CONE FOR HOUSING A NEEDLE IN A SYRINGE, AND THE SYRINGE THEREOF**
[54] **APPAREIL DE FORMATION D'UN CONE POUR LOGER UNE AIGUILLE DANS UNE SERINGUE, PROCEDE DE FABRICATION D'UN CONE POUR LOGER UNE AIGUILLE DANS UNE SERINGUE, ET SERINGUE CORRESPONDANTE**
[72] CHILLON, ALBERTO, IT
[72] CHINELLATO, FABIO, IT
[72] NICOLETTI, FABIANO, IT
[71] STEVANATO GROUP S.P.A., IT
[85] 2022-12-19
[86] 2021-06-21 (PCT/IB2021/055449)
[87] (WO2021/260524)
[30] IT (102020000014869) 2020-06-22

[21] **3,183,327**
[13] A1

[51] **Int.Cl. C10G 9/36 (2006.01) C10G 75/04 (2006.01)**
[25] EN
[54] **METHODS FOR REDUCING FORMATION OF CARBON DISULFIDE IN STEAM CRACKING PROCESSES TO PRODUCE OLEFINS**
[54] **PROCEDES POUR REDUIRE LA FORMATION DE DISULFURE DE CARBONE DANS DES PROCESSUS DE VAPOCRAQUAGE POUR PRODUIRE DES OLEFINES**
[72] WANG, HANGYAO, US
[72] PAZMINO, JORGE H., US
[72] LIU, YU, US
[72] BELLOS, GEORGIOS, NL
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2022-12-19
[86] 2021-06-17 (PCT/US2021/037732)
[87] (WO2022/005755)
[30] EP (20386034.1) 2020-06-29

[21] **3,183,331**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01) G06F 16/13 (2019.01) G01V 1/30 (2006.01) G01V 1/34 (2006.01)**
[25] EN
[54] **DATA MODEL FOR MINING**
[54] **MODELE DE DONNEES D'EXPLOITATION MINIERE**
[72] SENNERSTEN, CHARLOTTE, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2022-12-19
[86] 2021-06-18 (PCT/AU2021/050631)
[87] (WO2021/253089)
[30] AU (2020902032) 2020-06-19

[21] **3,183,334**
[13] A1

[51] **Int.Cl. G01C 19/5684 (2012.01)**
[25] EN
[54] **VIBRATING-TYPE GYROSCOPE ELEMENT AND ANGULAR VELOCITY SENSOR COMPRISING SAME**
[54] **ELEMENT GYROSCOPIQUE VIBRATOIRE ET CAPTEUR DE VITESSE ANGULAIRE COMPRENANT CE DERNIER**
[72] UCHINO, RYOHEI, JP
[72] MORIGUCHI, TAKAFUMI, JP
[72] OKIMOTO, NAOKI, JP
[71] SUMITOMO PRECISION PRODUCTS CO., LTD., JP
[85] 2022-12-19
[86] 2021-06-24 (PCT/JP2021/024032)
[87] (WO2022/004562)
[30] JP (2020-115611) 2020-07-03

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[21] **3,183,335**
[13] A1

[51] **Int.Cl. C01B 33/023 (2006.01) C01B 33/025 (2006.01) C01B 33/113 (2006.01) C01B 33/18 (2006.01)**

[25] EN

[54] **SYNTHESIS OF SILICON-CONTAINING PRODUCTS**

[54] **SYNTHESE DE PRODUITS CONTENANT DU SILICIUM**

[72] PULLEN, ADRIAN, US

[72] HOLMAN, RICHARD K., US

[71] 6K INC., US

[85] 2022-12-19

[86] 2021-08-05 (PCT/US2021/071124)

[87] (WO2022/032301)

[30] US (63/062,832) 2020-08-07

[21] **3,183,337**
[13] A1

[51] **Int.Cl. A63F 13/56 (2014.01)**

[25] EN

[54] **SHOOTING GAME SYSTEM**

[54] **SYSTEME DE JEU DE TIR**

[72] HSU, SHUN TSUNG, CN

[72] WANG, CHANG YI, CN

[71] HSU, TIENSHU, CN

[85] 2022-12-19

[86] 2020-06-30 (PCT/CN2020/099592)

[87] (WO2022/000346)

[21] **3,183,338**
[13] A1

[51] **Int.Cl. A01K 27/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND PROGRAM PRODUCTS FOR DIGITAL PET IDENTIFICATION**

[54] **SYSTEMES, PROCEDES ET PRODUITS PROGRAMMES POUR UNE IDENTIFICATION NUMERIQUE D'ANIMAUX DE COMPAGNIE**

[72] ICKOVIC, THOMAS S., US

[71] ICKOVIC & BLISS, INC., US

[85] 2022-12-19

[86] 2021-06-28 (PCT/US2021/039312)

[87] (WO2022/005933)

[30] US (63/045,419) 2020-06-29

[30] US (63/198,457) 2020-10-20

[21] **3,183,341**
[13] A1

[51] **Int.Cl. G06T 7/246 (2017.01)**

[25] EN

[54] **AUTONOMOUS LIVESTOCK MONITORING**

[54] **SURVEILLANCE DE BETAIL AUTONOME**

[72] CANNING, TERRY, GB

[72] ASKEW, ADAM, GB

[72] MCMILLAN, RYAN, GB

[72] THOMPSON, IAN, GB

[71] CATTLE EYE LTD, GB

[85] 2022-12-19

[86] 2021-01-28 (PCT/EP2021/051991)

[87] (WO2022/002443)

[30] EP (20183152.6) 2020-06-30

[21] **3,183,342**
[13] A1

[51] **Int.Cl. G01C 19/5684 (2012.01)**

[25] EN

[54] **VIBRATING-TYPE GYROSCOPE ELEMENT AND ANGULAR VELOCITY SENSOR INCLUDING SAME**

[54] **ELEMENT DE GYROSCOPE DE TYPE VIBRANT ET CAPTEUR DE VITESSE ANGULAIRE COMPRENANT CE DERNIER**

[72] UCHINO, RYOHEI, JP

[72] MORIGUCHI, TAKAFUMI, JP

[72] OKIMOTO, NAOKI, JP

[71] SUMITOMO PRECISION PRODUCTS CO., LTD., JP

[85] 2022-12-19

[86] 2021-06-24 (PCT/JP2021/024034)

[87] (WO2022/004563)

[30] JP (2020-115612) 2020-07-03

[21] **3,183,343**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01)**

[25] EN

[54] **BIODEGRADABLE COMPOSITIONS AND IMPLANTS**

[54] **COMPOSITIONS ET IMPLANTS BIODEGRADABLES**

[72] THAKUR, RAGHU RAJ SINGH, GB

[72] JONES, DAVID, GB

[72] SONAWANE, RAHUL, GB

[72] WANG, YUJING, GB

[71] RE-VANA THERAPEUTICS LTD, GB

[85] 2022-12-19

[86] 2021-06-18 (PCT/EP2021/066670)

[87] (WO2021/255264)

[30] EP (20181231.0) 2020-06-19

[21] **3,183,344**
[13] A1

[51] **Int.Cl. H02G 3/00 (2006.01) H02G 3/32 (2006.01)**

[25] EN

[54] **HOLDING ASSEMBLY**

[54] **ENSEMBLE DE MAINTIEN**

[72] SUNDERLAND, OLIVER, GB

[71] GRIPPLE LIMITED, GB

[85] 2022-12-19

[86] 2021-06-11 (PCT/IB2021/055142)

[87] (WO2021/255599)

[30] GB (2009393.6) 2020-06-19

[30] GB (2107466.1) 2021-05-26

[21] **3,183,345**
[13] A1

[51] **Int.Cl. G06Q 50/26 (2012.01) H04W 4/46 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR VIRTUAL TRAFFIC STOPS**

[54] **SYSTEMES ET PROCEDES DE CONTROLES ROUTIERS VIRTUELS**

[72] CLINES, NICHOLE FAREN, US

[71] REDLIN COLLECTIVE HOLDINGS LLC, US

[85] 2022-12-19

[86] 2021-06-17 (PCT/US2021/037942)

[87] (WO2021/257909)

[30] US (63/040,959) 2020-06-18

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[21] **3,183,346**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 35/12 (2015.01) A61K 45/06 (2006.01)**

[25] EN

[54] **NOVEL SYNERGISTIC NUTRITIONAL COMPOSITIONS FOR PROMOTING AXONAL REGENERATION**

[54] **NOUVELLES COMPOSITIONS NUTRITIONNELLES SYNERGIQUES POUR FAVORISER LA REGENERATION AXONALE**

[72] SAMANT, RAJARAM, IN

[72] T., RAJENDRA PRASAD, IN

[71] CELAGENEX RESEARCH (INDIA) PVT. LTD., IN

[85] 2022-12-19

[86] 2021-06-25 (PCT/IN2021/050620)

[87] (WO2021/260740)

[30] IN (202021027004) 2020-06-25

[21] **3,183,348**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/08 (2006.01) A61B 5/1477 (2006.01)**

[25] EN

[54] **NONINVASIVE TRANSDERMAL ALCOHOL SCREENING SYSTEM**

[54] **SYSTEME DE CRIBLAGE D'ALCOOL TRANSDERMIQUE NON INVASIF**

[72] GRAHAM, GARY JOHN, US

[72] MOORE, KEVIN DUANE, US

[72] GANDINI, DAVID JOSEPH, US

[72] MUCHUGH, ROBERT LAWRENCE, US

[72] BENSON, KATIA MARGUERITE, US

[72] MEULENDYK, BENNETT J., US

[71] SOBR SAFE, INC., US

[85] 2022-12-19

[86] 2021-04-23 (PCT/US2021/028833)

[87] (WO2021/216996)

[30] US (63/014,776) 2020-04-24

[30] US (63/109,134) 2020-11-03

[21] **3,183,350**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61K 47/14 (2017.01) A61K 47/34 (2017.01) A61K 47/44 (2017.01) A61P 17/10 (2006.01)**

[25] EN

[54] **PROBIOTIC SKIN FORMULATIONS**

[54] **FORMULATIONS CUTANEEES PROBIOTIQUES**

[72] HITCHCOCK, THOMAS M., US

[72] PHADUNGPOJNA, SASIMA, US

[72] STEPHENS, MATTHEW D., US

[72] RHEE, MUN SU, US

[71] CROWN LABORATORIES, INC., US

[85] 2022-12-19

[86] 2021-06-22 (PCT/US2021/038333)

[87] (WO2021/262622)

[30] US (63/042,684) 2020-06-23

[21] **3,183,351**
[13] A1

[51] **Int.Cl. C08G 69/44 (2006.01) C08G 63/60 (2006.01) C08G 63/685 (2006.01) C08G 63/91 (2006.01) C08G 69/48 (2006.01)**

[25] EN

[54] **POLY(AMINE-CO-ESTER) POLYMERS WITH MODIFIED END GROUPS AND ENHANCED PULMONARY DELIVERY**

[54] **POLYMERES DE POLY(AMINE-CO-ESTER) PRESENTANT DES GROUPES TERMINAUX MODIFIES ET ADMINISTRATION PULMONAIRE AMELIOREE**

[72] SALTZMAN, W. MARK, US

[72] JIANG, YUHANG, US

[72] GRUN, MOLLY, US

[72] SUBERI, ALEXANDRA, US

[71] YALE UNIVERSITY, US

[85] 2022-12-19

[86] 2021-05-27 (PCT/US2021/034462)

[87] (WO2021/257262)

[30] US (63/041,739) 2020-06-19

[21] **3,183,354**
[13] A1

[51] **Int.Cl. C07D 261/20 (2006.01) A61P 1/10 (2006.01) A61P 3/10 (2006.01) A61P 9/06 (2006.01) A61P 9/12 (2006.01) A61P 11/02 (2006.01) A61P 15/08 (2006.01) A61P 15/10 (2006.01) A61P 25/02 (2006.01) A61P 25/04 (2006.01) A61P 25/06 (2006.01) A61P 25/08 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/20 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **BENZISOXAZOLE DERIVATIVE**

[54] **DERIVE DE BENZISOXAZOLE**

[72] TANAKA, TOMOYUKI, JP

[72] ISOBE, YOSHIAKI, JP

[72] KITANO, HIROYUKI, JP

[72] TANAKA, HIROAKI, JP

[72] NARAI, SHUN, JP

[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP

[85] 2022-12-19

[86] 2021-07-06 (PCT/JP2021/025403)

[87] (WO2022/009863)

[30] JP (2020-117236) 2020-07-07

[21] **3,183,355**
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **DEOXYNOJIRIMYCIN DERIVATIVES AS GLUCOSIDASE INHIBITORS**

[54] **DERIVES DE DESOXYNOJIRIMYCINE EN TANT QU'INHIBITEURS DE GLUCOSIDASE**

[72] HILL, DANIEL COPE, US

[72] KENNEDY, ISAAC A., US

[72] LAM, PATRICK Y. S., US

[72] TRESTON, ANTHONY M., US

[72] WARFIELD, KELLY LYN, US

[71] EMERGENT PRODUCT DEVELOPMENT GAITHERSBURG INC., US

[85] 2022-12-19

[86] 2021-07-09 (PCT/US2021/041007)

[87] (WO2022/011211)

[30] US (62/705,698) 2020-07-10

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[51] Int.Cl. B01D 1/28 (2006.01) B01D 3/38 (2006.01) C12M 1/107 (2006.01)	[51] Int.Cl. A61K 38/26 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) C07K 14/605 (2006.01)	[51] Int.Cl. C07D 495/04 (2006.01) A61K 31/4365 (2006.01) A61P 5/10 (2006.01) A61P 25/16 (2006.01)
[25] EN	[25] EN	[25] EN
[54] METHODS AND SYSTEMS FOR ELECTRIFYING, DECARBONIZING, AND REDUCING ENERGY DEMAND AND PROCESS CARBON INTENSITY IN INDUSTRIAL PROCESSES VIA INTEGRATED VAPOR COMPRESSION	[54] LONG ACTING GLP-1/GIP DUAL AGONISTS	[54] SUCCINATE SALTS OF OCTAHYDROTHIENOQUINOLINE COMPOUND AND CRYSTALS THEREOF
[54] PROCEDES ET SYSTEMES D'ELECTRIFICATION, DE DECARBONISATION ET DE REDUCTION DE DEMANDE D'ENERGIE ET D'INTENSITE DE CARBONE DE PROCESSUS LORS DE PROCESSUS INDUSTRIELS PAR COMPRESSION DE VAPEUR INTEGRE	[54] AGONISTES DOUBLES DE GLP-1/GIP A ACTION PROLONGEE	[54] SUCCINATE DE COMPOSE OCTAHYDROTHIENOQUINOLINE ET CRISTAUX DE CELUI-CI
[72] CRAWFORD, LYNN, US	[72] THENNATI, RAJAMANNAR, IN	[72] TAKEUCHI, HIDEKI, JP
[72] SCHAFFER, WILLIAM III, US	[72] BURADE, VINOD SAMPATRAO, IN	[72] JO, KAZUMICHI, JP
[71] ENERGY INTEGRATION, INC., US	[72] NATARAJAN, MUTHUKUMARAN, IN	[71] KISSEI PHARMACEUTICAL CO., LTD., JP
[85] 2022-12-19	[72] JOSHI, DHIREN	[85] 2022-12-19
[86] 2021-07-14 (PCT/US2021/041504)	RAMESHCHANDRA, IN	[86] 2021-07-05 (PCT/JP2021/025233)
[87] (WO2022/015776)	[72] GANDHI, MANISH	[87] (WO2022/009815)
[30] US (63/052,202) 2020-07-15	HARENDRAPRASAD, IN	[30] JP (2020-116507) 2020-07-06
[30] US (63/172,150) 2021-04-08	[72] JIVANI, CHANDULAL	
[30] US (63/172,151) 2021-04-08	THAKARSHIBHAI, IN	[21] 3,183,364 [13] A1
[30] US (17/374,959) 2021-07-13	[72] TIWARI, ABHISHEK, IN	[51] Int.Cl. B65B 5/06 (2006.01) B65B 5/10 (2006.01) B65B 35/44 (2006.01) B65B 35/52 (2006.01) B65B 43/52 (2006.01)
	[72] SONI, KRUNAL HARISHBHAI, IN	[25] EN
	[71] SUN PHARMACEUTICAL INDUSTRIES LIMITED, IN	[54] PACKING MACHINE FOR HORIZONTAL AND VERTICAL PACKING OF ARTICLES INTO A PACKING BOX
	[85] 2022-12-19	[54] MACHINE D'EMBALLAGE POUR EMBALLAGE HORIZONTAL ET VERTICAL D'ARTICLES DANS UNE BOITE D'EMBALLAGE
	[86] 2021-06-21 (PCT/IB2021/055457)	[72] PRAKKEN, NICOLAAS MARTIN, NL
	[87] (WO2021/260530)	[71] BLUEPRINT HOLDING B.V., NL
	[30] IN (202021026360) 2020-06-22	[85] 2022-12-19
	[30] IN (202121002838) 2021-01-20	[86] 2021-06-24 (PCT/EP2021/067431)
		[87] (WO2021/260154)
	[21] 3,183,360 [13] A1	[30] NL (2025906) 2020-06-24
	[51] Int.Cl. H04N 13/371 (2018.01) H04N 13/366 (2018.01)	
	[25] EN	
	[54] SYSTEM AND METHOD FOR DETERMINING DIRECTIONALITY OF IMAGERY USING HEAD TRACKING	
	[54] SYSTEME ET PROCEDE POUR DETERMINER LA DIRECTIONNALITE D'IMAGERIE AU MOYEN DE CENTRAGE DES TETES	
	[72] TROJE, NIKOLAUS, CA	
	[71] TROJE, NIKOLAUS, CA	
	[85] 2022-12-19	
	[86] 2021-06-22 (PCT/CA2021/050857)	
	[87] (WO2021/258201)	
	[30] US (63/042,498) 2020-06-22	

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[21] **3,183,365**
[13] A1

[51] **Int.Cl. B65G 63/00 (2006.01) B66C 19/00 (2006.01)**
[25] EN
[54] **GANTRY CRANE FOR CONTAINERS AND OPERATING METHOD**
[54] **GRUE PORTIQUE POUR CONTENEURS ET PROCEDE DE FONCTIONNEMENT**
[72] BARBERA MAYOR, JUAN CARLOS, ES
[71] BARBERA MAYOR, JUAN CARLOS, ES
[85] 2022-12-19
[86] 2021-03-30 (PCT/ES2021/070217)
[87] (WO2021/198546)
[30] ES (P202030266) 2020-04-01

[21] **3,183,367**
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING MOLECULES TARGETING SARS-COV-2**
[54] **MOLECULES DE LIAISON A L'ANTIGENE CIBLANT LE SARS-COV-2**
[72] GRIGORYAN, GEVORG, US
[72] INGRAHAM, JOHN, US
[72] LEUNG, CHEUK LUN, US
[72] FEDERMAN, ROSS STEVEN, US
[72] GREEN, ROBIN JEFFREY, US
[72] RAMOS, ALEX HIRAM, US
[72] TAO, JENHAN, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2022-12-19
[86] 2021-07-06 (PCT/US2021/040546)
[87] (WO2022/010921)
[30] US (63/048,589) 2020-07-06
[30] US (63/070,035) 2020-08-25

[21] **3,183,369**
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01)**
[25] EN
[54] **DIRT PICK UP RESISTANT LATEX RESIN**
[54] **RESINE DE LATEX ANTI-RETENTION DE SALISSURES**
[72] ZIEHM, CHRISTOPHER, US
[72] LI, JIGUI, US
[72] HICKEN, RYAN, US
[71] BEHR PROCESS CORPORATION, US
[85] 2022-12-19
[86] 2021-07-02 (PCT/US2021/040274)
[87] (WO2022/006509)
[30] US (16/919,686) 2020-07-02

[21] **3,183,370**
[13] A1

[51] **Int.Cl. B32B 1/08 (2006.01) B32B 25/14 (2006.01)**
[25] EN
[54] **TUBULAR FILM FOR STRETCH HOODS COMPRISING RECYCLED MATERIAL**
[54] **FILM TUBULAIRE POUR PROTECTIONS ETIRABLES COMPRENANT UN MATERIAU RECYCLE**
[72] MARCHER, BJORN, DK
[72] TEGLGAARD CHRISTIANSEN, JAN, DK
[71] TRIOWORLD NYBORG A/S, DK
[85] 2022-12-19
[86] 2021-06-22 (PCT/EP2021/066947)
[87] (WO2021/259910)
[30] EP (20181997.6) 2020-06-24

[21] **3,183,371**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **TRIAZOLE DERIVATIVES AND THEIR USE AS TANKYRASE INHIBITORS.**
[54] **DERIVES DE TRIAZOLE ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE LA TANKYRASE**
[72] KRAUSS, STEFAN, NO
[72] WAALER, JO, NO
[72] WEGERT, ANITA, DE
[72] LEENDERS, RUBEN GERARDUS GEORGE, NL
[72] LEHTIO, LARI, FI
[71] OSLO UNIVERSITETSSYKEHUS HF, NO
[71] UNIVERSITY OF OULU, FI
[85] 2022-12-19
[86] 2021-07-06 (PCT/GB2021/051714)
[87] (WO2022/008896)
[30] GB (2010359.4) 2020-07-06

[21] **3,183,372**
[13] A1

[51] **Int.Cl. B05B 5/025 (2006.01) B05B 15/65 (2018.01) B05B 7/24 (2006.01) B05B 9/043 (2006.01) B05B 9/08 (2006.01)**
[25] EN
[54] **SPRAYER APPARATUS WITH REMOVABLE SOLUTION CONTAINER**
[54] **APPAREIL DE PULVERISATION AVEC RECIPIENT DE SOLUTION AMOVIBLE**
[72] RYAN, AUTUMN, US
[72] RYAN, DANA, US
[72] LAWSON, STEPHEN, US
[71] ASEPTIC HEALTH, LLC, US
[85] 2022-12-19
[86] 2021-06-18 (PCT/US2021/038139)
[87] (WO2021/258018)
[30] US (63/041,093) 2020-06-18

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[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING MOLECULES TARGETING SARS-COV-2**
[54] **MOLECULES DE LIAISON A L'ANTIGENE CIBLANT LE SARS-COV-2**
[72] GRIGORYAN, GEVORG, US
[72] INGRAHAM, JOHN, US
[72] LEUNG, CHEUK LUN, US
[72] FEDERMAN, ROSS STEVEN, US
[72] GREEN, ROBIN JEFFREY, US
[72] XUE, VINCENT, US
[72] MACKENZIE, CRAIG OWEN, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2022-12-19
[86] 2021-07-06 (PCT/US2021/040533)
[87] (WO2022/010912)
[30] US (63/048,588) 2020-07-06
[30] US (63/070,038) 2020-08-25

[21] **3,183,375**
[13] A1

[51] **Int.Cl. A47K 10/42 (2006.01) B65D 5/462 (2006.01) B65D 5/54 (2006.01) B65D 83/08 (2006.01)**
[25] EN
[54] **PACKAGE DISPENSER FOR WIPES, PACKAGE BLANK AND A METHOD FOR THE PRODUCTION OF PACKAGE DISPENSER**
[54] **DISTRIBUTEUR D'EMBALLAGE POUR LINGETTES, DECOUPE D'EMBALLAGE ET PROCEDE POUR LA PRODUCTION D'UN DISTRIBUTEUR D'EMBALLAGE**
[72] STRANDQVIST, MIKAEL, SE
[72] HELLQVIST, ANDERS, SE
[71] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2022-12-19
[86] 2020-06-26 (PCT/SE2020/050671)
[87] (WO2021/262057)

[21] **3,183,377**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F04B 23/04 (2006.01) F16L 41/03 (2006.01)**
[25] EN
[54] **FLUID INJECTION SYSTEMS, APPARATUS, AND METHODS INCLUDING FLEXIBLE HOSES FOR WELLHEAD SITES**
[54] **SYSTEMES D'INJECTION DE FLUIDE, APPAREIL ET PROCEDES COMPRENANT DES TUYAUX SOUPLES POUR SITES DE TETE DE PUIITS**
[72] POST, STEVEN, US
[72] MIDDLETON, PETER, US
[72] HUGHES, HARRY, US
[71] FORUM US, INC., US
[85] 2022-12-19
[86] 2021-06-22 (PCT/US2021/038510)
[87] (WO2022/015475)
[30] US (63/053,230) 2020-07-17
[30] US (17/246,279) 2021-04-30

[21] **3,183,374**
[13] A1

[51] **Int.Cl. F16L 19/025 (2006.01) F16L 23/02 (2006.01) F16L 23/036 (2006.01) F16L 23/08 (2006.01)**
[25] EN
[54] **MODULAR END APPARATUS FOR FLEXIBLE HOSES**
[54] **APPAREIL D'EXTREMITE MODULAIRE POUR TUYAUX FLEXIBLES**
[72] POST, STEVEN, US
[72] MIDDLETON, PETER, US
[71] FORUM US, INC., US
[85] 2022-12-19
[86] 2021-05-27 (PCT/US2021/034571)
[87] (WO2021/262387)
[30] US (16/914,027) 2020-06-26

[21] **3,183,376**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **BACTERIAL VEHICLE FOR ENGINEERING OF NON-PHAGOCYtic IMMUNE CELLS**
[54] **VEHICULE BACTERIEN POUR L'INGENIERIE DE CELLULES IMMUNITAIRES NON PHAGOCYTIQUES**
[72] QUAINOO, SCOTT, DK
[72] SOMMER, MORTEN OTTO ALEXANDER, DK
[72] SOARES, SARAH APARECIDA, DK
[71] DANMARKS TEKNISKE UNIVERSITET, DK
[85] 2022-12-19
[86] 2021-07-07 (PCT/EP2021/068734)
[87] (WO2022/008550)
[30] EP (20184439.6) 2020-07-07

[21] **3,183,378**
[13] A1

[51] **Int.Cl. F17D 5/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING A PIPE**
[54] **SYSTEME ET PROCEDE PERMETTANT D'IDENTIFIER UN TUYAU**
[72] MCMILLAN, PAUL JAMES, GB
[72] HARROLD, BRUCE IAN, GB
[71] PULS8 LTD, GB
[85] 2022-12-19
[86] 2021-06-18 (PCT/GB2021/051558)
[87] (WO2021/255478)
[30] GB (2009384.5) 2020-06-19

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[21] **3,183,379**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F04B 23/04 (2006.01) F16L 41/03 (2006.01)**
[25] EN
[54] **FLUID INJECTION SYSTEMS, APPARATUS, AND METHODS INCLUDING FLEXIBLE HOSES FOR WELLHEAD SITES**
[54] **SYSTEMES D'INJECTION DE FLUIDE, APPAREIL ET PROCEDES COMPRENANT DES TUYAUX FLEXIBLES POUR EMPLACEMENTS DE TETE DE Puits**
[72] POST, STEVEN, US
[72] MIDDLETON, PETER, US
[72] HUGHES, HARRY, US
[72] LAMAR, WILLIAM PERRY, US
[71] FORUM US, INC., US
[85] 2022-12-19
[86] 2021-06-22 (PCT/US2021/038526)
[87] (WO2022/015476)
[30] US (63/053,230) 2020-07-17
[30] US (17/246,320) 2021-04-30

[21] **3,183,380**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/32 (2006.01) B65D 65/02 (2006.01)**
[25] EN
[54] **HIGH CLARITY, RECYCLABLE, POLYETHYLENE-BASED PACKAGING FILMS**
[54] **FILMS D'EMBALLAGE A BASE DE POLYETHYLENE, RECYCLABLES ET A TRANSPARENCE ELEVEE**
[72] JONES, ALEXANDER DAVID, US
[72] SAFFAR, AMIR, US
[72] BATTEN, PATRICK ALLEN, US
[72] MUELLER, LOUANN SUSAN, US
[72] DIGES, KYLIE NOEL, US
[72] TABATABAEI, SEYED HESAMODDIN, US
[71] PROAMPAC HOLDINGS INC., US
[85] 2022-12-19
[86] 2021-07-23 (PCT/US2021/043001)
[87] (WO2022/020732)
[30] US (63/056,342) 2020-07-24

[21] **3,183,381**
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61J 1/05 (2006.01) B05B 11/04 (2006.01) B65D 47/18 (2006.01) B65D 47/20 (2006.01) B65D 47/32 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING DEVICE COMPRISING DROP-CHECK MECHANISM, AIR FILTER AND MULTIFUNCTION MEMBRANE VALVE**
[54] **DISPOSITIF DISTRIBUTEUR DE LIQUIDES AVEC MECANISME ANTI-RETOUR DE GOUTTE, FILTRE A AIR ET VANNE A MEMBRANE MULTIFONCTION**
[72] GAMBOA BURGOS, ALEJANDRO, PE
[71] GAMBOA BURGOS, ALEJANDRO, PE
[85] 2022-12-19
[86] 2020-07-01 (PCT/PE2020/050008)
[87] (WO2022/005310)

[21] **3,183,382**
[13] A1

[51] **Int.Cl. B60L 5/00 (2006.01) B60L 5/24 (2006.01) B60L 5/30 (2006.01)**
[25] EN
[54] **AUTOMATIC DETACHING OF A MINING PANTOGRAPH**
[54] **DETACHEMENT AUTOMATIQUE D'UN PANTOGRAPHIE D'EXPLOITATION MINIERE**
[72] VARE, VILLE, FI
[72] UUSITALO, JARI, FI
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2022-12-19
[86] 2020-11-30 (PCT/EP2020/083858)
[87] (WO2022/111824)

[21] **3,183,384**
[13] A1

[51] **Int.Cl. A01G 25/09 (2006.01) F16L 9/12 (2006.01) F16L 27/08 (2006.01)**
[25] EN
[54] **IRRIGATION SYSTEM**
[54] **SYSTEME D'IRRIGATION**
[72] REDDEL, DANIEL JOHN, AU
[71] RJS & JGS DEVELOPMENTS PTY LTD, AU
[85] 2022-12-19
[86] 2021-06-23 (PCT/AU2021/050657)
[87] (WO2021/258145)
[30] AU (2020204175) 2020-06-23

[21] **3,183,385**
[13] A1

[51] **Int.Cl. G06T 15/00 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GENERATING PROPERTY DATA PACKAGES FROM LIDAR POINT CLOUDS**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE GENERER DES PAQUETS DE DONNEES DE PROPRIETE A PARTIR DE NUAGES DE POINTS LIDAR**
[72] PORTER, BRYCE ZACHARY, US
[72] RIVAS, FRANCISCO, ES
[72] JUSTUS, RYAN MARK, US
[71] INSURANCE SERVICES OFFICE, INC., US
[85] 2022-12-19
[86] 2021-06-23 (PCT/US2021/038678)
[87] (WO2021/262848)
[30] US (63/042,802) 2020-06-23

[21] **3,183,386**
[13] A1

[51] **Int.Cl. A42B 3/00 (2006.01) A42B 3/04 (2006.01) A42B 3/08 (2006.01) A42B 3/20 (2006.01) A42B 3/28 (2006.01) A63B 71/10 (2006.01)**
[25] EN
[54] **GOALIE HELMET**
[54] **CASQUE DE GARDIEN DE BUT**
[72] MUSTAC, MICHAEL A., US
[71] ZMZ ENTERPRISES, LLC, US
[85] 2022-12-19
[86] 2021-06-07 (PCT/US2021/036101)
[87] (WO2021/257302)
[30] US (16/906,750) 2020-06-19

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[21] **3,183,387**
[13] A1

[51] **Int.Cl. H01M 50/197 (2021.01) H01G 11/74 (2013.01) H01G 11/78 (2013.01) H01M 50/105 (2021.01) H01M 50/184 (2021.01) H01M 50/193 (2021.01) H01M 50/531 (2021.01)**

[25] EN

[54] **SEALING FILM, ELECTRODE LEAD MEMBER, AND BATTERY**

[54] **FILM D'ETANCHEITE, ELEMENT CONDUCTEUR D'ELECTRODE ET BATTERIE**

[72] TAKEYAMA, SHUNSUKE, JP
[72] SAKURAGI, TAKANORI, JP
[72] MEGURO, ATSUFUMI, JP
[72] SHIMIZU, TAKASHI, JP
[71] FUJIMORI KOGYO CO., LTD., JP
[85] 2022-12-19
[86] 2021-06-22 (PCT/JP2021/023561)
[87] (WO2021/261478)
[30] JP (2020-107874) 2020-06-23

[21] **3,183,388**
[13] A1

[51] **Int.Cl. B62D 35/00 (2006.01)**

[25] EN

[54] **LAND VEHICLE DRAG REDUCTION DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE REDUCTION DE TRAINEE DE VEHICULE TERRESTRE**

[72] HUSSEIN, IBRAHIM RAFAAT MAHMOUD MORSI, US
[71] ENERGY HORIZON LLC, US
[85] 2022-12-19
[86] 2021-06-24 (PCT/US2021/038864)
[87] (WO2021/262959)
[30] US (63/043,455) 2020-06-24

[21] **3,183,389**
[13] A1

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

[25] EN

[54] **BISPECIFIC ANTIBODY AND USE THEREOF**

[54] **ANTICORPS BISPECIFIQUE ET SON UTILISATION**

[72] SHI, LEI, CN
[72] ZHONG, CHEN, CN
[72] WU, XIAODONG, CN
[72] HE, YUN, CN
[72] CHEN, FEI, CN
[72] LV, XIAOCHENG, CN
[72] XIE, JINLI, CN
[72] RONG, YIPING, CN
[72] HUANG, BING, CN
[72] DU, FANGFANG, CN
[72] ZHAO, JIANXUN, CN
[71] HARBOUR BIOMED US, INC., US
[85] 2022-12-19
[86] 2021-06-29 (PCT/CN2021/103058)
[87] (WO2022/002036)
[30] CN (202010618149.1) 2020-06-30

[21] **3,183,390**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) C07K 16/00 (2006.01) C07K 16/10 (2006.01)**

[25] EN

[54] **BINDING PROTEIN SPECIFIC FOR THE SPIKE PROTEIN OF SEVERE ACUTE RESPIRATORY SYNDROME CORONA VIRUS 2 (SARS-COV-2)**

[54] **PROTEINE DE LIAISON SPECIFIQUE DE LA PROTEINE DE SPICULE DU SYNDROME RESPIRATOIRE AIGU SEVERE 2 CORONAVIRUS 2 (SARS-COV-2)**

[72] KAHL, MATHIAS, DE
[72] FIEDLER, ERIK, DE
[72] BOSSE-DOENECKE, EVA, DE
[72] KATZSCHMANN, ANJA, DE
[72] BOBOLOWSKI, HANNA, DE
[72] LOTZE, JONATHAN, DE
[72] MEYSING, MAREN, DE
[71] NAVIGO PROTEINS GMBH, DE
[85] 2022-12-19
[86] 2021-06-23 (PCT/EP2021/067257)
[87] (WO2021/260075)
[30] EP (20181725.1) 2020-06-23
[30] EP (20186603.5) 2020-07-17
[30] EP (20188821.1) 2020-07-31
[30] EP (20201357.9) 2020-10-12

[21] **3,183,392**
[13] A1

[51] **Int.Cl. H04N 21/434 (2011.01) H04N 21/439 (2011.01) H04N 21/478 (2011.01) H04N 21/81 (2011.01) A63F 13/54 (2014.01) A63F 13/61 (2014.01)**

[25] EN

[54] **SENDING AUDIO CONTENT TO DIGITAL WORKS**

[54] **ENVOI DE CONTENU AUDIO A DES OEUVRES NUMERIQUES**

[72] OBENG-BOAKYE, WILFRID, GB
[72] FACEY, CHRISTIAN, GB
[71] AUDIOMOB LTD, GB
[85] 2022-12-19
[86] 2021-06-22 (PCT/GB2021/051586)
[87] (WO2022/043649)
[30] US (63/042,296) 2020-06-22

[21] **3,183,395**
[13] A1

[51] **Int.Cl. A61K 35/44 (2015.01)**

[25] EN

[54] **ENDOTHELIAL CELLS FOR MITIGATION OF CHEMOTHERAPY-INDUCED TOXICITY**

[54] **CELLULES ENDOTHELIALES POUR L'ATTENUATION DE LA TOXICITE INDUITE PAR UNE CHIMIOTHERAPIE**

[72] FINNEGAN, PAUL WILLIAM, US
[72] FRASER, JOHN K., US
[72] GINSBERG, MICHAEL DANIEL, US
[71] ANGIOCRINE BIOSCIENCE, INC., US
[85] 2022-12-19
[86] 2021-06-25 (PCT/US2021/039224)
[87] (WO2021/263189)
[30] US (63/044,243) 2020-06-25
[30] US (63/187,486) 2021-05-12

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[21] **3,183,465**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01)**
[25] EN
[54] **QUINOLINE DERIVATIVES, PHARMACEUTICALLY ACCEPTABLE SALTS, AND METHODS OF USE THEREOF**
[54] **DERIVES DE QUINOLEINE, SELS PHARMACEUTIQUEMENT ACCEPTABLES ET LEURS PROCEDES D'UTILISATION**
[72] GADDAM, BAPU, US
[71] VTV THERAPEUTICS LLC, US
[85] 2022-12-20
[86] 2020-07-31 (PCT/US2020/044410)
[87] (WO2022/005494)
[30] US (63/045,240) 2020-06-29

[21] **3,183,514**
[13] A1

[51] **Int.Cl. E01B 29/17 (2006.01)**
[25] EN
[54] **INITIAL AND FINAL METHODS FOR LAYING LONG RAILS**
[54] **PROCEDE INITIAL ET FINAL DE PAUSE DE LONGS RAILS ET PROCEDE DE RENOUVELLEMENT ASSOCIE**
[72] PILLER, MARCO, CH
[72] PILET, JACQUES, CH
[72] SAVOYAT, MARC-ANTOINE, CH
[72] STUPAR, MILAN, CH
[72] MUNDT, ALAIN, CH
[71] MATISA MATERIEL INDUSTRIEL SA, CH
[85] 2022-12-20
[86] 2021-07-08 (PCT/EP2021/069066)
[87] (WO2022/008686)
[30] FR (FR2007221) 2020-07-08

[21] **3,184,027**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/68 (2017.01)**
[25] EN
[54] **SAPONIN DERIVATIVES WITH IMPROVED THERAPEUTIC WINDOW**
[54] **DERIVES DE SAPONINE A FENETRE THERAPEUTIQUE AMELIOREE**
[72] POSTEL, RUBEN, NL
[72] HERMANS, GUY, NL
[72] FUCHS, HENDRIK, DE
[71] SAPREME TECHNOLOGIES B.V., NL
[85] 2022-12-22
[86] 2021-06-23 (PCT/EP2021/067227)
[87] (WO2021/260054)
[30] NL (2025904) 2020-06-24
[30] EP (PCT/EP2020/071045) 2020-07-24

[21] **3,184,494**
[13] A1

[51] **Int.Cl. C10M 107/32 (2006.01) C08G 63/16 (2006.01) C08G 63/42 (2006.01)**
[25] EN
[54] **HIGH VISCOSITY BASE FLUIDS BASED ON OIL COMPATIBLE POLYESTERS PREPARED FROM LONG-CHAIN EPOXIDES**
[54] **FLUIDES DE BASE A VISCOSITE ELEVEE A BASE DE POLYESTERS COMPATIBLES AVEC L'HUILE PREPARES A PARTIR D'EPOXYDES A LONGUE CHAINE**
[72] MAIER, STEFAN KARL, DE
[72] ALTENBUCHNER, PETER, DE
[72] ZIEGLER, FABIAN, DE
[72] ZATOCIL, CHRISTIANE, DE
[72] HILF, STEFAN, DE
[72] SCHWEISSINGER, EMILY CLARE, DE
[72] ELSNER, JENS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-12-29
[86] 2021-07-01 (PCT/EP2021/068136)
[87] (WO2022/003088)
[30] EP (EP20183878) 2020-07-03

[21] **3,184,503**
[13] A1

[51] **Int.Cl. C10M 107/32 (2006.01) C08G 63/16 (2006.01) C08G 63/42 (2006.01)**
[25] EN
[54] **HIGH VISCOSITY BASE FLUIDS BASED ON OIL COMPATIBLE POLYESTERS**
[54] **FLUIDES DE BASE A VISCOSITE ELEVEE A BASE DE POLYESTERS COMPATIBLES AVEC L'HUILE**
[72] MAIER, STEFAN KARL, DE
[72] ALTENBUCHNER, PETER, DE
[72] ZIEGLER, FABIAN, DE
[72] ZATOCIL, CHRISTIANE, DE
[72] HILF, STEFAN, DE
[72] SCHWEISSINGER, EMILY CLARE, DE
[72] ELSNER, JENS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-12-29
[86] 2021-07-01 (PCT/EP2021/068134)
[87] (WO2022/003087)
[30] EP (20183876.0) 2020-07-03

[21] **3,185,567**
[13] A1

[51] **Int.Cl. C07K 1/16 (2006.01) C07K 1/34 (2006.01)**
[25] EN
[54] **BIOPROCESS WITH REDUCED FOULING ON SURFACES**
[54] **BIOPROCEDE A ENCRASSEMENT REDUIT SUR DES SURFACES**
[72] KATZ, JOSHUA S., US
[72] JORDAN, SUSAN L., US
[72] FARES, HADI, US
[72] YEZER, BENJAMIN, US
[71] NUTRITION & BIOSCIENCES USA 1, LLC, US
[85] 2023-01-10
[86] 2021-07-14 (PCT/US2021/041508)
[87] (WO2022/015779)
[30] US (63/052,048) 2020-07-15

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[51] Int.Cl. B01J 19/08 (2006.01) B01J 19/12 (2006.01)	[51] Int.Cl. F02B 75/12 (2006.01) F02B 47/02 (2006.01) F02B 47/04 (2006.01) F02B 47/08 (2006.01) F02G 5/02 (2006.01) F02M 25/03 (2006.01)	[51] Int.Cl. C10G 1/10 (2006.01) C10G 11/18 (2006.01) C10G 65/12 (2006.01)
[25] FR	[25] FR	[25] EN
[54] MACHINE AND METHOD FOR TREATING PARTS OF DIFFERENT SHAPES	[54] USING A FLUID AS A VIRTUAL SECONDARY COMPRESSION PISTON FOR AN INTERNAL COMBUSTION ENGINE.	[54] COMMERCIAL GRADE ULTRA-LOW SULPHUR DIESEL PRODUCTION PROCESS FROM MIXED WASTE PLASTICS PYROLYSIS OIL
[54] MACHINE ET PROCEDE DE TRAITEMENT DE PIECES DE DIFFERENTES FORMES	[54] UTILISATION D'UN FLUIDE COMME UN PISTON VIRTUEL DE COMPRESSION SECONDAIRE POUR UN MOTEUR A COMBUSTION INTERNE	[54] PROCEDE DE PRODUCTION DE DIESEL A TRES FAIBLE TENEUR EN SOUFRE DE QUALITE COMMERCIALE A PARTIR D'HUILE DE PYROLYSE DE DECHETS PLASTIQUES MIXTES
[72] HEAU, CHRISTOPHE, FR	[72] LIMANE, ABDELHAKIM, CA	[72] ODJO, ANDREW, GB
[72] MAURIN-PERRIER, PHILIPPE, FR	[71] LIMANE, ABDELHAKIM, CA	[72] STEPHENS, BERTIE, GB
[72] GARRELIE, FLORENCE, FR	[85] 2023-02-14	[71] CLEAN PLANET ENERGY, A
[72] COLOMBIER, JEAN-PHILIPPE, FR	[86] 2021-07-26 (PCT/CA2021/051045)	TRADING NAME OF PYROPLAST
[72] PIGEON, FLORENT, FR	[87] (WO2023/004487)	ENERGY LTD, GB
[71] HYDROMECHANIQUE ET FROTTEMENT, FR		[85] 2023-02-14
[71] UNIVERSITE JEAN MONNET SAINT ETIENNE, FR		[86] 2021-07-27 (PCT/GB2021/051924)
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR		[87] (WO2022/034287)
[85] 2023-01-17	[21] 3,189,431 [13] A1	[30] GB (2012708.0) 2020-08-14
[86] 2021-06-03 (PCT/FR2021/051010)	[51] Int.Cl. A61B 10/00 (2006.01)	
[87] (WO2022/023629)	[25] EN	[21] 3,189,496 [13] A1
[30] FR (2008151) 2020-07-31	[54] LIQUID COLLECTION DEVICE	[51] Int.Cl. C07K 16/28 (2006.01)
	[54] DISPOSITIF DE COLLECTE DE LIQUIDE	[25] EN
[21] 3,189,201 [13] A1	[72] ROBBINS, AVI, US	[54] ANTI-PVRIG PROTEIN ANTIBODY OR ANTIBODY FRAGMENT AND USE THEREOF
[51] Int.Cl. A61L 9/20 (2006.01) F24F 8/22 (2021.01)	[72] CARPIO, ROBERT III, US	[54] ANTICORPS DE PROTEINE ANTI-PVRIG OU FRAGMENT D'ANTICORPS ET SON UTILISATION
[25] EN	[72] CHANG, YUAN, US	[72] TIAN, ZHIGANG, CN
[54] METHOD, APPARATUS AND SYSTEM FOR REDUCING PATHOGENS IN A BREATHABLE AIRSTREAM IN AN ENVIRONMENT	[72] FITZPATRICK, KATHLEEN, US	[72] LI, YANGYANG, CN
[54] PROCEDE, APPAREIL ET SYSTEME DE REDUCTION DES PATHOGENES DANS UN ECOULEMENT D'AIR RESPIRABLE DANS UN ENVIRONNEMENT	[72] MAHARSIA, RAHUL, US	[72] XIAO, WEIHUA, CN
[72] DUNBAR, THOMAS, US	[72] SHAHIDANI, SAMAN MAHDAVI, US	[72] SUN, RUI, CN
[71] TOMPHYZX.LLC, US	[72] SHELLY, HAYDEN, US	[72] SUN, HAOYU, CN
[85] 2023-02-13	[72] STREIFF, MICAH, US	[71] HEFEI TG IMMUNOPHARMA CO., LTD., CN
[86] 2021-08-13 (PCT/US2021/045922)	[71] POREX CORPORATION, US	[85] 2023-02-14
[87] (WO2022/036203)	[85] 2023-02-14	[86] 2022-03-07 (PCT/CN2022/079449)
[30] US (63/065,205) 2020-08-13	[86] 2021-08-27 (PCT/US2021/048010)	[87] (WO2022/188721)
[30] US (63/113,304) 2020-11-13	[87] (WO2022/047195)	[30] CN (202110250342.9) 2021-03-08
[30] US (63/150,126) 2021-02-17	[30] US (63/071,870) 2020-08-28	
[30] US (63/221,895) 2021-07-14	[30] US (63/089,409) 2020-10-08	
	[30] US (63/132,819) 2020-12-31	

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[21] **3,189,500**
[13] A1

[51] **Int.Cl. B65B 13/22 (2006.01)**
[25] EN
[54] **TENSIONING MECHANISM**
[54] **MECANISME DE TENSION**
[72] HE, YUHUA, CN
[72] JIANG, SHUIBO, CN
[71] ZHEJIANG WEIPAI PACKAGING
EQUIPMENT CO., LTD., CN
[85] 2023-02-14
[86] 2021-08-12 (PCT/CN2021/112171)
[87] (WO2022/042315)
[30] CN (202010860740.8) 2020-08-25

[21] **3,189,508**
[13] A1

[51] **Int.Cl. B65G 65/23 (2006.01) B65G
65/36 (2006.01) B65G 65/38 (2006.01)
B65G 65/42 (2006.01) E21B 43/267
(2006.01)**
[25] EN
[54] **PROPPANT DISPENSING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION
D'AGENT DE SOUTENEMENT**
[72] SNYDER, CORY, US
[72] D'AGOSTINO, SCOTT JOSEPH, US
[72] FISHER, MARC KEVIN, US
[72] OEHLER, MATTHEW, US
[72] SMITH, KEVIN, US
[72] DORFMAN, BRIAN, US
[72] D'AGOSTINO, MARK JOHN, US
[71] PROPPANT EXPRESS SOLUTIONS,
LLC, US
[85] 2023-02-14
[86] 2022-04-15 (PCT/US2022/025034)
[87] (WO2022/225814)
[30] US (63/176,523) 2021-04-19
[30] US (63/312,707) 2022-02-22
[30] US (17/721,786) 2022-04-15

[21] **3,189,644**
[13] A1

[51] **Int.Cl. C10L 1/16 (2006.01)**
[25] EN
[54] **OCTANE ENHANCED
INTERMEDIATE HYDROCARBON
COMPOSITION**
[54] **COMPOSITION
HYDROCARBONEE
INTERMEDIAIRE A INDICE
D'OCTANE AMELIORE**
[72] KESKIVALI, JUHA, FI
[72] KARVO, ANNA, FI
[72] KIISKI, ULLA, FI
[71] NESTE OYJ, FI
[85] 2023-02-15
[86] 2021-08-26 (PCT/FI2021/050573)
[87] (WO2022/043611)
[30] FI (20205840) 2020-08-31

[21] **3,189,920**
[13] A1

[51] **Int.Cl. A24D 3/04 (2006.01) A24D
3/06 (2006.01) A24D 3/10 (2006.01)
A24D 3/14 (2006.01)**
[25] EN
[54] **CATALYST INTRODUCTION
METHODS FOR ACCELERATED
DEACETYLATION OF
CELLULOSE ESTERS**
[54] **PROCEDES D'INTRODUCTION DE
CATALYSEUR POUR LA
DESACETYLATION ACCELEREE
D'ESTERS DE CELLULOSE**
[72] COMBS, MICHAEL, US
[72] PARKER, CODY, US
[72] MILLER, AMBER, US
[71] ACETATE INTERNATIONAL LLC,
US
[85] 2023-01-19
[86] 2021-07-27 (PCT/US2021/070990)
[87] (WO2022/027018)
[30] US (63/058,197) 2020-07-29

[21] **3,189,921**
[13] A1

[51] **Int.Cl. B62K 7/04 (2006.01) B62K
5/05 (2013.01) B62K 5/06 (2006.01)
B62K 5/08 (2006.01)**
[25] EN
[54] **MODULAR CARGO BIKE**
[54] **VELO DE TRANSPORT DE
CHARGE MODULAIRE**
[72] BAZAK, LIOR, IL
[71] BAZAK, LIOR, IL
[85] 2023-02-17
[86] 2021-08-26 (PCT/IL2021/051049)
[87] (WO2022/044015)
[30] US (63/069,733) 2020-08-25

[21] **3,189,923**
[13] A1

[51] **Int.Cl. C12N 1/19 (2006.01) C12N
1/21 (2006.01) C12N 5/10 (2006.01)
C12N 15/09 (2006.01) C12N 15/52
(2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS
FOR THE PRODUCTION OF
ACETYL-COA DERIVED
PRODUCTS**
[54] **PROCEDES ET COMPOSITIONS
POUR LA PRODUCTION DE
PRODUITS DERIVES D'ACETYL-
COA**
[72] LYNCH, MICHAEL DAVID, US
[72] LI, SHAU, US
[71] DUKE UNIVERSITY, US
[85] 2023-01-19
[86] 2021-07-23 (PCT/US2021/043023)
[87] (WO2022/020748)
[30] US (63/056,031) 2020-07-24

[21] **3,189,924**
[13] A1

[51] **Int.Cl. A47J 47/01 (2006.01) B05B
11/00 (2023.01) F04B 53/10 (2006.01)**
[25] EN
[54] **CONDIMENT DISPENSER**
[54] **DISTRIBUTEUR DE CONDIMENT**
[72] LEECH, GREGG, GB
[72] BERTENS-VLEMS, KIM, NL
[72] KALYVIOTI, IVI, NL
[71] H.J. HEINZ COMPANY BRANDS
LLC, US
[85] 2023-01-19
[86] 2021-07-23 (PCT/US2021/042915)
[87] (WO2022/020688)
[30] US (63/056,173) 2020-07-24

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[21] **3,189,925**
[13] A1

[51] **Int.Cl. B67C 3/20 (2006.01) B67C 3/22 (2006.01)**
[25] EN
[54] **CONDIMENT DISPENSER**
[54] **DISTRIBUTEUR DE CONDIMENTS**
[72] LEECH, GREGG, GB
[72] DUXBURY, ROBIN, GB
[72] BERTENS-VLEMS, KIM, NL
[72] KALYVIOTI, IVI, NL
[71] H.J. HEINZ COMPANY BRANDS LLC, US
[85] 2023-01-19
[86] 2021-07-23 (PCT/US2021/042913)
[87] (WO2022/020687)
[30] US (63/056,138) 2020-07-24
[30] US (63/068,619) 2020-08-21
[30] US (63/135,120) 2021-01-08

[21] **3,189,926**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHODS FOR THE USE OF A PD-1 X CTLA-4 BISPECIFIC MOLECULE**
[54] **PROCEDES D'UTILISATION D'UNE MOLECULE PD-1 X CTLA-4 BISPECIFIQUE**
[72] SUMROW, BRADLEY JAMES, US
[72] BONVINI, EZIO, US
[72] SHARMA, SHARAD, US
[72] WIGGINTON, JON MARC, US
[72] BEREZHNOY, ALEXEY YEVGENYEVICH, US
[71] MACROGENICS, INC., US
[85] 2023-01-19
[86] 2021-07-23 (PCT/US2021/042901)
[87] (WO2022/026306)
[30] US (63/057,054) 2020-07-27
[30] US (63/177,036) 2021-04-20
[30] US (63/219,066) 2021-07-07

[21] **3,189,927**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01)**
[25] EN
[54] **FLUID FILTRATION SYSTEM**
[54] **SYSTEME DE FILTRATION DE SUBSTANCE FLUIDE**
[72] KO, HSU-FENG, US
[72] KENNEDY, DOUGLAS, US
[72] ROHE, RICHARD P., JR., US
[72] BHATIA, RAVINDER, US
[72] DIEPENBROEK, BAS, NL
[72] DE JONGE, LODEWIJK, NL
[72] HUBER, PHILIPP, CH
[72] DELLENBACH, HANS ULRICH, CH
[71] JANSSEN BIOTECH, INC., US
[85] 2023-01-19
[86] 2021-07-19 (PCT/US2021/042168)
[87] (WO2022/020233)
[30] US (62/705,876) 2020-07-20

[21] **3,189,928**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 33/53 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **PROCESSING AND IMAGING TISSUE SAMPLES**
[54] **TRAITEMENT ET IMAGERIE D'ECHANTILLONS DE TISSU**
[72] MCLANE, MICHAEL, US
[71] AYOYA BIOSCIENCES, INC., US
[85] 2023-01-19
[86] 2021-07-20 (PCT/US2021/042353)
[87] (WO2022/020340)
[30] US (63/054,226) 2020-07-20

[21] **3,189,929**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 7/02 (2006.01) A61P 29/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **3-(1H-IMIDAZOL-2-YL)-2,3,8,8A-TETRAHYDROINDOLIZIN-5(1H)-ONE DERIVATIVES USEFUL AS FACTOR XIA INHIBITORS**
[54] **DERIVES DE 3-(1H-IMIDAZOL-2-YL)-2,3,8,8A-TETRAHYDROINDOLIZIN-5(1H)-ONE UTILES EN TANT QU'INHIBITEURS DU FACTEUR XIA**
[72] MACIELAG, MARK J., US
[72] XU, GUOZHANG, US
[72] GAUL, MICHEAL D., US
[72] THIEU, THO V., US
[72] ZHANG, JING, US
[72] WALL, MARK, US
[72] GAO, LING HUA, US
[72] ZHU, BIN, US
[72] LU, TIANBAO, US
[72] GUO, BOYING, US
[72] LIU, ZHIJIE, US
[72] NARGUND, RAVI, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2023-01-19
[86] 2021-07-22 (PCT/US2021/042693)
[87] (WO2022/020546)
[30] US (63/054,826) 2020-07-22

[21] **3,189,930**
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01) H04B 7/02 (2018.01) H04L 1/18 (2023.01) H04L 5/00 (2006.01)**
[25] EN
[54] **MULTI-TB SCHEDULING FOR SINGLE DCI-BASED MULTI-TRP AND PANEL TRANSMISSION**
[54] **PLANIFICATION MULTI-TB POUR TRANSMISSION MULTI-TRP ET PANNEAUX A BASE DE DCI UNIQUE**
[72] TRAN, XUAN TUONG, SG
[72] SUZUKI, HIDETOSHI, JP
[72] YAMAMOTO, TETSUYA, JP
[72] LI, HONGCHAO, DE
[72] OGAWA, YOSHIHIKO, JP
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[85] 2023-01-18
[86] 2021-06-05 (PCT/SG2021/050327)
[87] (WO2022/031221)
[30] SG (10202007552X) 2020-08-06

PCT Applications Entering the National Phase

[21] 3,189,931 [13] A1	[21] 3,189,932 [13] A1	[21] 3,189,933 [13] A1
[51] Int.Cl. C08J 7/048 (2020.01) B32B 27/12 (2006.01) C08J 5/18 (2006.01) C08L 3/00 (2006.01) C09D 101/02 (2006.01) C09D 103/02 (2006.01) D21H 19/34 (2006.01)	[51] Int.Cl. A61K 36/185 (2006.01) A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 31/352 (2006.01) C07C 39/23 (2006.01) C07C 65/19 (2006.01) C07D 311/80 (2006.01)	[51] Int.Cl. A61K 47/55 (2017.01) A61K 47/60 (2017.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)
[25] EN	[25] EN	[25] EN
[54] BARRIER COMPOSITION, USE AND PRODUCTION METHOD THEREOF, STRUCTURES, USE AND PRODUCTION METHOD THEREOF	[54] METHOD FOR PRODUCING A PURIFIED CANNABINOID EXTRACT, AND A PURIFIED CANNABINOID EXTRACT OBTAINED THEREFROM	[54] POLYETHYLENE GLYCOL CONJUGATE DRUG, AND PREPARATION METHOD THEREFOR AND USE THEREOF
[54] COMPOSITION DE BARRIERE, SON UTILISATION ET SON PROCEDE DE PRODUCTION, STRUCTURES, LEUR UTILISATION ET LEUR PROCEDE DE PRODUCTION	[54] PROCEDE DE PRODUCTION D'UN EXTRAIT DE CANNABINOIDE PURIFIE ET EXTRAIT DE CANNABINOIDE PURIFIE OBTENU PAR CELUI-CI	[54] MEDICAMENT CONJUGUE AU POLYETHYLENE GLYCOL ET PROCEDE DE PREPARATION ET UTILISATION ASSOCIES
[72] SIQUEIRA, GERMANO ANDRADE, BR	[72] PIGEON, XAVIER, CA	[72] LI, GAOQUAN, CN
[72] VIEIRA, RICHIELI TELES, BR	[72] CARPENTIER, CLAUDIA, CA	[72] LIU, NIAN, CN
[72] DE LIMA, VITOR HUGO, BR	[72] DERRIEN, MAELLE, CA	[72] PENG, YONGCHEN, CN
[72] LUCAS, ALESSANDRA DE ALMEIDA, BR	[72] BOUCHOUCHA, MERYEM, CA	[72] ZENG, XIAFAN, CN
[72] MOREIRA, FRANCYS KLEY VIEIRA, BR	[71] PURCANN PHARMA INC., CA	[72] MEI, GANG, CN
[72] URUENA, GUSTAVO ADOLFO DUARTE, BR	[85] 2023-01-19	[72] GUAN, SHENG, CN
[71] SUZANO S.A., BR	[86] 2021-08-24 (PCT/CA2021/051169)	[72] GAO, YANG, CN
[71] FUNDACAO UNIVERSIDADE FEDERAL DE SAO CARLOS - UFSCAR, BR	[87] (WO2022/047574)	[72] YANG, SHUAI, CN
[85] 2023-01-19	[30] US (63/073,562) 2020-09-02	[72] YIN, YIFENG, CN
[86] 2021-07-29 (PCT/BR2021/050319)		[72] LOU, JIE, CN
[87] (WO2022/020928)		[72] CHEN, HUIYU, CN
[30] BR (BR 10 2020 015501 6) 2020-07-29		[72] QIAN, KUN, CN
		[72] WEI, YUSONG, CN
		[72] ZHANG, QIAN, CN
		[72] LI, DAJUN, CN
		[72] DING, XIAOLING, CN
		[72] YANG, XIANGWEI, CN
		[72] HUANG, LIQUN, CN
		[72] LIU, XI, CN
		[72] LIU, LIWEI, CN
		[72] LI, ZHENWEI, CN
		[72] HU, KAIXIONG, CN
		[72] LIU, HUA, CN
		[72] TU, TAO, CN
		[71] CHONGQING UPGRA BIOTECHNOLOGY CO., LTD., CN
		[85] 2023-01-19
		[86] 2021-07-21 (PCT/CN2021/107625)
		[87] (WO2022/022360)
		[30] CN (202010738638.0) 2020-07-28

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[21] **3,189,934**
[13] A1

[51] **Int.Cl. E02F 9/20 (2006.01) E02F 9/22 (2006.01) G05D 1/02 (2020.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR CONTROLLING WORK MACHINE, AND WORK MACHINE**

[54] **PROCEDE DE COMMANDE D'UN ENGIN DE CHANTIER, SYSTEME ET ENGIN DE CHANTIER**

[72] KADONO, YUUICHI, JP

[71] KOMATSU LTD., JP

[85] 2023-01-19

[86] 2021-08-06 (PCT/JP2021/029346)

[87] (WO2022/085272)

[30] JP (2020-176499) 2020-10-21

[21] **3,189,935**
[13] A1

[51] **Int.Cl. B01J 20/20 (2006.01) B01J 20/28 (2006.01) B01J 20/32 (2006.01)**

[25] EN

[54] **PREPARATION OF ADSORBENT FILTERS PRE-LABELLED WITH STANDARDS FOR THE EVALUATION OF SAMPLING OF POLLUTANTS IN LIQUID AND AERIFORM MATRICES**

[54] **PREPARATION DE FILTRES ADSORBANTS PRE-MARQUES AU MOYEN DE NORMES POUR L'EVALUATION DE L'ECHANTILLONNAGE DE POLLUANTS DANS DES MATRICES LIQUIDES ET AERIFORMES**

[72] GUERRIERO, ETTORE, IT

[72] BENEDETTI, PAOLO, IT

[72] MANNI, ANDREA, IT

[72] CERASA, MARINA, IT

[71] CHEMICAL RESEARCH 2000 SRL, IT

[85] 2023-01-23

[86] 2021-07-29 (PCT/IB2021/056894)

[87] (WO2022/034422)

[30] IT (10202000019936) 2020-08-11

[21] **3,189,936**
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01) H04L 1/18 (2023.01)**

[25] EN

[54] **HYBRID AUTOMATIC REPEAT REQUEST CODEBOOK GENERATION IN WIRELESS COMMUNICATION SYSTEMS**

[54] **GENERATION DE LIVRE DE CODES DE DEMANDE DE REPETITION AUTOMATIQUE HYBRIDE DANS DES SYSTEMES DE COMMUNICATION SANS FIL**

[72] KOU, SHUAIHUA, CN

[72] HAO, PENG, CN

[72] GOU, WEI, CN

[72] LIU, XING, CN

[72] WEI, XINGGUANG, CN

[71] ZTE CORPORATION, CN

[85] 2023-01-23

[86] 2020-08-07 (PCT/CN2020/107985)

[87] (WO2022/027667)

[21] **3,189,937**
[13] A1

[51] **Int.Cl. D04H 1/425 (2012.01) D04H 1/4274 (2012.01) D04H 1/498 (2012.01) D04H 1/541 (2012.01) D04H 1/46 (2012.01) D04H 1/56 (2006.01) D04H 3/16 (2006.01) D04H 5/02 (2012.01)**

[25] EN

[54] **NONWOVEN FABRIC INCLUDING FIBERS FORMED FROM POST-CONSUMER RECYCLED PLASTIC**

[54] **NON-TISSE COMPRENANT DES FIBRES FORMEES A PARTIR DE PLASTIQUE RECYCLE POST-CONSUMMATION**

[72] ELLIS, DIANNE B., US

[71] BERRY GLOBAL, INC., US

[85] 2023-01-23

[86] 2021-08-03 (PCT/US2021/044247)

[87] (WO2022/031634)

[30] US (63/062,520) 2020-08-07

[21] **3,189,938**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **ANTIBODY SPECIFIC FOR MUCIN-1 AND METHODS OF USE THEREOF**

[54] **ANTICORPS SPECIFIQUE POUR MUCIN-1 ET PROCEDES D'UTILISATION ASSOCIES**

[72] RABUKA, DAVID, US

[72] DRAKE, PENELOPE M., US

[72] KIM, YUN CHEOL, US

[72] BARFIELD, ROBYN M., US

[72] BAUZON, MAXINE, US

[72] OGUNKOYA, AYODELE, US

[71] R.P. SCHERER TECHNOLOGIES, LLC, US

[85] 2023-01-23

[86] 2021-07-30 (PCT/US2021/043868)

[87] (WO2022/026809)

[30] US (63/059,497) 2020-07-31

[21] **3,189,939**
[13] A1

[51] **Int.Cl. H04W 28/24 (2009.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR MEDIA APPLICATION FUNCTION EXPOSURE FUNCTIONALITY**

[54] **PROCEDE ET APPAREIL POUR FONCTIONNALITE D'EXPOSITION DE FONCTIONS D'APPLICATION MULTIMEDIA**

[72] BOUAZIZI, IMED, US

[72] LO, CHARLES NUNG, US

[72] ZHANG, JUAN, US

[72] STOCKHAMMER, THOMAS, US

[71] QUALCOMM INCORPORATED, US

[85] 2023-01-23

[86] 2020-10-01 (PCT/CN2020/119771)

[87] (WO2022/067838)

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[21] **3,189,941**
[13] A1

[51] **Int.Cl. F41A 15/14 (2006.01) F41A 35/06 (2006.01)**

[25] EN

[54] **AMBIDEXTROUS FIREARM BOLT ASSEMBLIES AND METHODS OF USING THE SAME**

[54] **ENSEMBLES CULASSES AMBIDEXTRES D'ARMES A FEU ET LEURS PROCEDES D'UTILISATION**

[72] CRAIG, JEFFREY D., CA

[72] MANIACI, MARK R., CA

[72] MANIACI, GENE W. L., CA

[71] CRAIG, ROBERT J., CA

[85] 2022-10-25

[86] 2021-05-14 (PCT/IB2021/000324)

[87] (WO2021/229299)

[30] US (62/704,528) 2020-05-14

[21] **3,189,942**
[13] A1

[51] **Int.Cl. A61K 38/21 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **INTERFERON-BASED METHOD AND PHARMACEUTICAL COMBINATION FOR TREATING CANCER**

[54] **METHODE A BASE D'INTERFERON ET COMBINAISON PHARMACEUTIQUE POUR TRAITER LE CANCER**

[72] SUN, LI, CN

[72] ZHOU, WEIDONG, CN

[72] LIAO, XIAOJIN, CN

[72] ZHUANG, LU, CN

[72] HE, RUOYI, CN

[72] ZHOU, TING, CN

[72] ZENG, LINGYING, CN

[72] YANG, MEIHUA, CN

[72] WANG, SHIYUAN, CN

[72] ZHENG, JIEHUA, CN

[72] ZHANG, LINZHONG, CN

[71] XIAMEN AMOYTOP BIOTECH CO., LTD., CN

[71] BIOSTEED GENE TRANSFORMATION TECH. CO., LTD., CN

[85] 2023-01-23

[86] 2021-01-22 (PCT/CN2021/073191)

[87] (WO2022/016844)

[30] CN (PCT/CN2020/103613) 2020-07-22

[21] **3,189,944**
[13] A1

[51] **Int.Cl. H04W 76/19 (2018.01) H04W 76/27 (2018.01) H04W 76/30 (2018.01) H04W 36/00 (2009.01) H04W 52/02 (2009.01) H04W 72/04 (2023.01)**

[25] EN

[54] **CONFIGURATION RELEASE LIBERATION DE CONFIGURATION**

[72] KIM, TAEHUN, US

[72] DINAN, ESMAEL HEJAZI, US

[72] JEON, HYOUNGSUK, US

[72] PARK, KYUNGMIN, US

[72] RYU, JINSOOK, US

[72] TALEBI FARD, PEYMAN, US

[71] OFINNO, LLC, US

[85] 2023-01-23

[86] 2021-07-29 (PCT/US2021/043615)

[87] (WO2022/026647)

[30] US (63/058,134) 2020-07-29

[21] **3,189,945**
[13] A1

[51] **Int.Cl. B01D 53/85 (2006.01)**

[25] EN

[54] **BIOFILTER FOR BIOLOGICAL PURIFICATION OF A WASTE GAS STREAM CONTAINING IMPURITIES**

[54] **BIOFILTRE POUR L'EPURATION BIOLOGIQUE D'UN FLUX DE GAZ RESTANT CONTENANTDES IMPURETES**

[72] HARTMANN, CHRISTIAN, DE

[72] HARTMANN, ANTON, DE

[72] HARTMANN, MAGDALENA, DE

[72] SIEGEL, ALESSANDRO, DE

[71] HARTMANN BIOFILTER GMBH & CO. KG, DE

[85] 2023-01-23

[86] 2021-07-08 (PCT/EP2021/069036)

[87] (WO2022/017819)

[30] DE (10 2020 119 628.8) 2020-07-24

[21] **3,189,946**
[13] A1

[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/00 (2006.01) A61M 16/20 (2006.01) A62B 7/04 (2006.01)**

[25] EN

[54] **AUTOMATIC SYSTEM FOR THE CONSERVATION OF OXYGEN AND OTHER SUBSTANCES**

[54] **SYSTEME AUTOMATIQUE DE CONSERVATION D'OXYGENE ET D'AUTRES SUBSTANCES**

[72] BAZOBERRY, CARLOS FERNANDO, US

[72] YOUNG, BRENT H., US

[71] OXFO CORPORATION, US

[85] 2023-01-23

[86] 2021-07-27 (PCT/US2021/043333)

[87] (WO2022/026479)

[30] US (63/056,944) 2020-07-27

[30] US (17/068,718) 2020-10-12

[21] **3,189,948**
[13] A1

[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 31/4439 (2006.01) A61K 31/704 (2006.01)**

[25] EN

[54] **ADMINISTRATION OF BETA-HYDROXYBUTYRATE, AND RELATED COMPOUNDS IN HUMANS FOR THE TREATMENT AND/OR PREVENTION OF RESPIRATORY ILLNESSES**

[54] **ADMINISTRATION DE BETA-HYDROXYBUTYRATE ET DE COMPOSES APPARENTES CHEZ L'HOMME POUR LE TRAITEMENT ET/OU LA PREVENTION DE MALADIES RESPIRATOIRES**

[72] LOWERY, RYAN, US

[72] JACOB, WILSON, US

[71] AXCESS GLOBAL SCIENCES, LLC, US

[85] 2023-01-23

[86] 2021-07-23 (PCT/US2021/043076)

[87] (WO2022/020781)

[30] US (63/055,798) 2020-07-23

[30] US (17/384,632) 2021-07-23

Demandes PCT entrant en phase nationale

[21] **3,189,950**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12Q 1/6886 (2018.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**

[25] EN
[54] **COMBINED THERAPY AGAINST CANCER**
[54] **POLYTHERAPIE CONTRE LE CANCER**

[72] CELIA TERRASSA, ANTONI, ES
[72] ALBANELL MESTRES, JOAN, ES
[72] ROZALEN MIRALLES, CATALINA, ES
[72] PEREZ NUNEZ, IVAN, ES
[71] FUNDACIO INSTITUT HOSPITAL DEL MAR D'INVESTIGACIONS MEDIQUES (IMIM), ES

[85] 2023-01-23
[86] 2021-07-23 (PCT/EP2021/070650)
[87] (WO2022/023192)
[30] EP (20382681.3) 2020-07-28

[21] **3,189,951**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 40/67 (2018.01) G16H 80/00 (2018.01) A61B 5/01 (2006.01) A61B 5/02 (2006.01) A61B 5/1455 (2006.01)**

[25] EN
[54] **MULTI-FUNCTIONAL TELEMEDICAL DEVICE**
[54] **DISPOSITIF TELEMEDICAL MULTIFONCTIONNEL**

[72] MERSINGER, MICHAEL FRANCIS, US
[71] MERSINGER, MICHAEL FRANCIS, US

[85] 2023-01-23
[86] 2021-07-23 (PCT/US2021/042962)
[87] (WO2022/020715)
[30] US (63/055,681) 2020-07-23

[21] **3,189,952**
[13] A1

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 20/147 (2016.01) A23K 20/158 (2016.01)**

[25] EN
[54] **ANIMAL FEED SUPPLEMENT AND METHODS OF MAKING**
[54] **SUPPLEMENT ALIMENTAIRE POUR ANIMAUX ET PROCEDES DE FABRICATION**

[72] ALBRECHT, JACOB JOHN, US
[71] MILK SPECIALTIES COMPANY DBA MILK SPECIALTIES GLOBAL, US

[71] ALBRECHT, JACOB JOHN, US
[85] 2023-01-23
[86] 2021-07-23 (PCT/US2021/042934)
[87] (WO2022/020700)
[30] US (63/055,397) 2020-07-23

[21] **3,189,956**
[13] A1

[51] **Int.Cl. F17C 13/06 (2006.01) A01N 1/00 (2006.01) A01N 1/02 (2006.01) B65D 51/24 (2006.01)**

[25] EN
[54] **CANISTER CAPS FOR CRYOPRESERVATION APPLICATIONS**
[54] **CAPUCHONS DE RECIPIENT POUR DES APPLICATIONS DE CRYOCONSERVATION**

[72] BADALYAN, NICOLE, US
[72] LORD, KEVIN, US
[72] ZORETIC, SYDNEY, US
[72] TANTILLO, CLAIRE, US
[71] COOPERSURGICAL, INC., US

[85] 2023-01-23
[86] 2021-07-22 (PCT/US2021/042814)
[87] (WO2022/020618)
[30] US (63/055,477) 2020-07-23

[21] **3,189,957**
[13] A1

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

[25] EN
[54] **NEUROMODULATION FOR THE TREATMENT OF CIRCULATORY SYSTEM DISEASES**
[54] **NEUROMODULATION POUR LE TRAITEMENT DE MALADIES DU SYSTEME CIRCULATOIRE**

[72] GOURINE, ALIAKSANDR, GB
[72] GOURINE, ANDREY, GB
[71] AFFERENT MEDICAL SOLUTIONS LTD., GB

[71] GOURINE, ALIAKSANDR, GB
[85] 2023-01-23
[86] 2021-07-23 (PCT/EP2021/070755)
[87] (WO2022/018289)
[30] GB (2011522.6) 2020-07-24

[21] **3,189,958**
[13] A1

[51] **Int.Cl. E05D 3/00 (2006.01) E05D 7/00 (2006.01) E05D 7/081 (2006.01) E05F 1/06 (2006.01) E05F 1/10 (2006.01) E05F 1/12 (2006.01)**

[25] EN
[54] **PIVOT HINGE BRACKET ASSEMBLY**
[54] **ENSEMBLE SUPPORT DE CHARNIERE A PIVOT**

[72] MITCHELL, BRETT, US
[72] GREWE, BRIAN, US
[71] KASON INDUSTRIES, INC., US

[85] 2023-01-23
[86] 2021-07-22 (PCT/US2021/042729)
[87] (WO2022/026287)
[30] US (16/944,340) 2020-07-31

[21] **3,189,960**
[13] A1

[51] **Int.Cl. H01J 37/32 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR OZONE DEGRADATION FOR A PLASMA TREATMENT SYSTEM**
[54] **SYSTEMES ET PROCEDES DE DEGRADATION PAR L'OZONE POUR SYSTEME DE TRAITEMENT PAR PLASMA**

[72] WOLF, RORY, US
[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-01-23
[86] 2021-06-28 (PCT/US2021/039314)
[87] (WO2022/026097)
[30] US (63/058,247) 2020-07-29
[30] US (17/358,200) 2021-06-25

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[21] **3,189,963**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **UNIVERSAL CELL THERAPY PRODUCT AND USE THEREOF**

[54] **PRODUIT DE THERAPIE DE CELLULE UNIVERSELLE ET UTILISATION CONNEXE**

[72] VILLALBA, MARTIN, FR

[72] JORGENSEN, CHRISTIAN, FR

[72] ROBERT, BRUNO, FR

[72] MARTINEAU, PIERRE, FR

[72] HERNANDEZ, FRANCISCO JAVIER, FR

[72] PRESUMEY, JESSY, FR

[71] UNIVERSITE DE MONTPELLIER, FR

[71] CENTRE HOSPITALIER UNIVERSITAIRE DE MONTPELLIER (CHUM), FR

[71] ICM (INSTITUT DE CANCEROLOGIE DE MONTPELLIER), FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR

[85] 2023-01-23

[86] 2021-08-02 (PCT/EP2021/071586)

[87] (WO2022/023581)

[30] FR (FR2008211) 2020-07-31

[21] **3,189,965**
[13] A1

[51] **Int.Cl. B61K 9/08 (2006.01) B61L 23/04 (2006.01) B61L 25/02 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETERMINING A TARGET PROFILE OF THE TRACK TO CORRECT THE GEOMETRY**

[54] **METHODE ET SYSTEME POUR LA DETERMINATION D'UN PROFIL CIBLE DU RAIL POUR CORRIGER LA GEOMETRIE**

[72] AUER, FLORIAN, AT

[72] BERGHUBER, MICHAEL, AT

[72] HINTERBERGER, FABIAN, AT

[72] METZGER, BERNHARD, US

[72] WILCZEK, KRZYSZTOF, AT

[71] PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GESELLSCHAFT M.B.H., AT

[85] 2023-01-23

[86] 2021-08-24 (PCT/EP2021/073315)

[87] (WO2022/058127)

[30] AT (A50782/2020) 2020-09-16

[21] **3,189,966**
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) C09K 5/14 (2006.01) F25B 9/14 (2006.01) F28D 20/00 (2006.01) G01N 24/00 (2006.01) H01F 6/04 (2006.01)**

[25] EN

[54] **COLD STORAGE MATERIAL PARTICLE, COLD STORAGE DEVICE, REFRIGERATOR, CRYOPUMP, SUPERCONDUCTING MAGNET, NUCLEAR MAGNETIC RESONANCE IMAGING APPARATUS, NUCLEAR MAGNETIC RESONANCE APPARATUS, MAGNETIC FIELD APPLICATION TYPE SINGLE CRYSTAL PULLING APPARATUS, AND METHOD FOR PRODUCING COLD STORAGE MATERIAL PARTICLE**

[54] **PARTICULES DE MATERIAU DE STOCKAGE DE FROID, DISPOSITIF DE STOCKAGE DE FROID, MACHINE DE REFRIGERATION, CRYOPOMPE, AIMANT SUPRACONDUCTEUR, APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE NUCLEAIRE, APPAREIL DE RESONANCE MAGNETIQUE NUCLEAIRE, APPAREIL DE TIRAGE DE MONOCRISTAL DE TYPE A APPLICATION DE CHAMP MAGNETIQUE ET PROCEDE DE PRODUCTION DE PARTICULES DE MA**

[72] YAMASHITA, TOMOHIRO, JP

[72] EGUCHI, TOMOKO, JP

[72] KUBOKI, TAKASHI, JP

[72] USUI, DAICHI, JP

[72] KAWAMOTO, TAKAHIRO, JP

[71] KABUSHIKI KAISHA TOSHIBA, JP

[71] TOSHIBA MATERIALS CO., LTD., JP

[85] 2023-01-23

[86] 2021-08-17 (PCT/JP2021/030014)

[87] (WO2022/039150)

[30] JP (2020-137850) 2020-08-18

[30] JP (2020-160699) 2020-09-25

[21] **3,189,964**
[13] A1

[51] **Int.Cl. C09K 8/68 (2006.01) C10M 157/04 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **METHOD FOR BOOSTING VISCOSITY OF A FRACTURING FLUID**

[54] **PROCEDE D'AMPLIFICATION DE LA VISCOSITE D'UN FLUIDE DE FRACTURATION**

[72] PHATAK, ALHAD, US

[72] REN, YONGLIN, US

[72] SEYMOUR-LOYA, BRIAN, US

[72] SANDERS, AARON, US

[71] STEPAN COMPANY, US

[85] 2023-01-23

[86] 2021-06-24 (PCT/US2021/038862)

[87] (WO2022/026090)

[30] US (63/057,048) 2020-07-27

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[21] **3,189,971**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) G16H 20/17 (2018.01) G16H 40/60 (2018.01) G16H 40/63 (2018.01) A61M 5/145 (2006.01) A61M 5/172 (2006.01) A61M 5/20 (2006.01)**

[25] EN

[54] **ADMINISTRATION SYSTEMS AND METHODS FOR USING SAME**

[54] **SYSTEMES D'ADMINISTRATION ET PROCEDES DESTINES A LES UTILISER**

[72] SELMAN, HASAN, CH

[72] BOSSHARD, DAVID, CH

[72] KRAMER, CHRISTIAN, CH

[72] EBENER, STEFAN, CH

[71] YPSOMED AG, CH

[85] 2023-01-23

[86] 2021-08-24 (PCT/EP2021/073390)

[87] (WO2022/053307)

[30] CH (01123/20) 2020-09-09

[21] **3,189,973**
[13] A1

[51] **Int.Cl. A61K 31/40 (2006.01) A61K 31/4015 (2006.01) A61K 31/451 (2006.01) A61K 31/496 (2006.01) A61K 31/513 (2006.01) A61K 45/06 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **MDM2 INHIBITORS FOR USE IN THE TREATMENT OR PREVENTION OF HEMATOLOGIC NEOPLASM RELAPSE AFTER HEMATOPOIETIC CELL TRANSPLANTATION**

[54] **INHIBITEURS DE MDM2 A UTILISER DANS LE TRAITEMENT OU LA PREVENTION D'UNE RECHUTE DE NEOPLASME HEMATOLOGIQUE APRES UNE TRANSPLANTATION DE CELLULES HEMATOPOIETIQUES**

[72] ZEISER, ROBERT, DE

[72] DUYSER, JUSTUS, DE

[72] MENSSEN, HANS DIETRICH, CH

[71] NOVARTIS AG, CH

[85] 2023-01-23

[86] 2021-09-21 (PCT/EP2021/075896)

[87] (WO2022/058605)

[30] EP (20197230.4) 2020-09-21

[30] EP (21184448.5) 2021-07-08

[21] **3,189,976**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 35/16 (2015.01) A61K 38/17 (2006.01) B01D 1/18 (2006.01) C07K 1/36 (2006.01)**

[25] EN

[54] **PLASMA FRACTIONATION PROCESS UTILIZING SPRAY-DRIED HUMAN PLASMA**

[54] **FRACTIONNEMENT PLASMATIQUE FAISANT APPEL A DU PLASMA HUMAIN SECHE PAR ATOMISATION**

[72] PATATANYAN, ZHORZH, US

[72] MURTHY, ROHIT, US

[72] BADDOUR, YASSER, US

[72] ZAYDENBERG, ALEXANDER, US

[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[85] 2023-01-23

[86] 2021-10-01 (PCT/IB2021/000680)

[87] (WO2022/069945)

[30] US (63/086,335) 2020-10-01

[21] **3,189,995**
[13] A1

[51] **Int.Cl. A61G 1/017 (2006.01) A61G 5/06 (2006.01)**

[25] EN

[54] **PATIENT TRANSPORT APPARATUS**

[54] **APPAREIL DE TRANSPORT DE PATIENT**

[72] MOSELEY, ASHTON MARGARETE, ZA

[72] WHITE, DOMINIC, ZA

[71] UNIVERSITY OF JOHANNESBURG, ZA

[85] 2023-01-23

[86] 2021-07-21 (PCT/IB2021/056589)

[87] (WO2022/018657)

[30] ZA (2020/04481) 2020-07-21

[21] **3,189,999**
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/48 (2006.01) A61K 31/047 (2006.01) A61K 47/02 (2006.01) A61K 47/24 (2006.01) A61P 27/00 (2006.01)**

[25] EN

[54] **CAROTENOID FORMULATION FOR INCREASED BIOAVAILABILITY**

[54] **FORMULATION DE CAROTENOIDE POUR UNE BIODISPONIBILITE ACCRUE**

[72] NOLAN, JOHN, IE

[72] PRADO-CABRERO, ALFONSO, IE

[72] GREEN, MARINA, IE

[72] TORRES QUIROGA, JOSE, MX

[72] TORRES GOMEZ, CARLOS, MX

[72] MARQUEZ SANTACRUZ, JAZMIN, MX

[71] INDUSTRIAL ORGANICA, S.A. DE C.V., MX

[85] 2023-01-23

[86] 2021-07-20 (PCT/IB2021/056562)

[87] (WO2022/018642)

[30] US (63/054,653) 2020-07-21

[30] US (17/377,092) 2021-07-15

[21] **3,190,003**
[13] A1

[51] **Int.Cl. C08G 18/42 (2006.01) C09J 7/32 (2018.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08K 3/26 (2006.01) C09J 11/04 (2006.01) C09J 175/04 (2006.01)**

[25] EN

[54] **POLYURETHANE REACTIVE HOT MELT WITH LONG POT-LIFE UNDER HEAT**

[54] **MASSE FONDUE REACTIVE A BASE DE POLYURETHANE AYANT UNE LONGUE DUREE DE VIE EN POT SOUS CHALEUR**

[72] LI, YINGJIE, US

[72] QIN, SHUHUI, US

[72] FRANKEN, UWE, DE

[71] HENKEL AG & CO. KGAA, DE

[85] 2023-01-23

[86] 2021-08-03 (PCT/US2021/044257)

[87] (WO2022/035636)

[30] US (63/066,052) 2020-08-14

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[21] **3,190,009**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6888 (2018.01)**
[25] EN
[54] **MITOCHONDRIAL DNA QUALITY CONTROL**
[54] **CONTROLE DE LA QUALITE D'ADN MITOCHONDRIAL**
[72] ZHANG, RUOYU, US
[72] LIM, WEI KEAT, US
[72] ATWAL, GURINDER, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2023-01-23
[86] 2021-08-06 (PCT/US2021/044874)
[87] (WO2022/032052)
[30] US (63/062,566) 2020-08-07

[21] **3,190,014**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) B05B 7/00 (2006.01) B05B 15/55 (2018.01) B05B 7/04 (2006.01) B05B 7/12 (2006.01) B05B 7/24 (2006.01) B05B 12/00 (2018.01)**
[25] EN
[54] **HANDHELD GAS SPRAY SYSTEM FOR MIXING AND DISPENSING MULTI-COMPONENT COMPOSITIONS**
[54] **SYSTEME DE PULVERISATION DE GAZ PORTATIF POUR MELANGER ET DISTRIBUER DES COMPOSITIONS A COMPOSANTS MULTIPLES**
[72] PARIS, SPENCER SCOTT, US
[72] MOSLEY, EVAN JOSEPH, US
[72] MANKAR, NIKHIL, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE S.A., CH
[85] 2023-01-23
[86] 2021-08-18 (PCT/US2021/046428)
[87] (WO2022/040262)
[30] US (63/068,666) 2020-08-21

[21] **3,190,015**
[13] A1

[51] **Int.Cl. A61M 11/02 (2006.01) A61M 39/22 (2006.01) A61M 39/24 (2006.01)**
[25] EN
[54] **PRESSURE VALVE FOR MEDICAL DEVICES**
[54] **SOUPAPE DE PRESSION POUR DISPOSITIFS MEDICAUX**
[72] EVERS, RYAN, US
[72] CONGDON, DANIEL, US
[72] PIC, ANDREW, US
[72] MURRAY, COLLIN, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2023-01-23
[86] 2021-09-20 (PCT/US2021/051132)
[87] (WO2022/061243)
[30] US (63/081,057) 2020-09-21

[21] **3,190,019**
[13] A1

[51] **Int.Cl. G01R 33/24 (2006.01)**
[25] EN
[54] **VECTORIAL MAGNETOMETER AND ASSOCIATED METHOD FOR DISTINGUISHING SPIN POPULATION TRANSFER IN DIFFERENT CRYSTALLINE DEFECT ORIENTATIONS**
[54] **MAGNETOMETRE VECTORIEL ET PROCEDE ASSOCIE PERMETTANT DE DISTINGUER UN TRANSFERT DE POPULATIONS DE SPINS DANS DIFFERENTES ORIENTATIONS DE DEFAUTS CRISTALLINS**
[72] FLANSBERRY, ZACKARY, CA
[72] BERNARD, OLIVIER, CA
[72] HALDE, VINCENT, CA
[72] ROY-GUAY, DAVID, CA
[72] DUCLOS-CIANCI, GUILLAUME, CA
[71] SB TECHNOLOGIES INC., CA
[85] 2023-01-24
[86] 2021-07-26 (PCT/CA2021/051038)
[87] (WO2022/020943)
[30] US (63/056,738) 2020-07-27

[21] **3,190,023**
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01) H04B 7/06 (2006.01)**
[25] EN
[54] **BEAM INFORMATION INDICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL D'INDICATION D'INFORMATIONS DE FAISCEAU**
[72] WANG, YU, CN
[72] QIAO, YUNFEI, CN
[72] SHI, XUELIANG, CN
[72] LUO, HEJIA, CN
[72] LI, RONG, CN
[72] WANG, JUN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-01-24
[86] 2021-06-28 (PCT/CN2021/102702)
[87] (WO2022/017130)
[30] CN (202010724641.7) 2020-07-24

[21] **3,190,079**
[13] A1

[51] **Int.Cl. H01C 1/08 (2006.01) H01C 17/23 (2006.01) H01C 17/232 (2006.01)**
[25] EN
[54] **RESISTORS, CURRENT SENSE RESISTORS, BATTERY SHUNTS, SHUNT RESISTORS, AND METHODS OF MAKING**
[54] **RESISTANCES, RESISTANCES DE DETECTION DE COURANT, SHUNTS DE BATTERIE, RESISTANCES SHUNT ET PROCEDES DE FABRICATION**
[72] WYATT, TODD, US
[72] BERTSCH, TOM, US
[72] JOHNSON, JOSHUA, US
[72] KRAUSE, AARON, US
[72] VO, SARA, US
[72] GLENN, DARIN, US
[71] VISHAY DALE ELECTRONICS, LLC, US
[85] 2023-02-17
[86] 2021-05-11 (PCT/US2021/031732)
[87] (WO2022/039808)
[30] US (63/068,243) 2020-08-20

Demandes PCT entrant en phase nationale

[21] **3,190,097**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01)**

[25] EN

[54] **MODIFIED SIRNA WITH REDUCED OFF-TARGET ACTIVITY**

[54] **ARNSI MODIFIE AYANT UNE ACTIVITE HORS CIBLE REDUITE**

[72] HUANG, JINYU, CN

[72] LUO, MIN, CN

[72] YIN, KE, CN

[71] TUOJIE BIOTECH (SHANGHAI) CO., LTD., CN

[85] 2023-01-24

[86] 2021-08-04 (PCT/CN2021/110509)

[87] (WO2022/028462)

[30] CN (202010772542.6) 2020-08-04

[30] CN (202110244977.8) 2021-03-05

[30] CN (202110361502.7) 2021-04-02

[21] **3,190,098**
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **DRUG-SPECIFIC PHARMACOKINETIC ASSAY FOR IL-15 SUPERAGONIST**

[54] **DOSAGE PHARMACOCINETIQUE SPECIFIQUE D'UN MEDICAMENT POUR UN SUPERAGONISTE D'IL-15**

[72] TANAKA, SHIHO, US

[72] NIAZI, KAYVAN, US

[71] NANTCELL, INC., US

[85] 2023-01-24

[86] 2021-07-21 (PCT/US2021/042531)

[87] (WO2022/031440)

[30] US (63/060,256) 2020-08-03

[21] **3,190,099**
[13] A1

[51] **Int.Cl. A24F 40/53 (2020.01) A24F 40/57 (2020.01)**

[25] EN

[54] **VAPORIZER DEVICE INCLUDING ADAPTIVE TEMPERATURE PROFILING**

[54] **DISPOSITIF DE VAPORISATEUR COMPRENANT UN PROFILAGE DE TEMPERATURE ADAPTATIF**

[72] GARCIA-DOTY, IAN, US

[72] GREGORICH, NICHOLAS A., US

[72] KALOGEROPOULOS, XENOFON, GB

[72] NEWBOLD, ANDREW D., GB

[72] WALTON, JACK O., GB

[71] JUUL LABS, INC., US

[85] 2023-01-24

[86] 2021-07-22 (PCT/US2021/042757)

[87] (WO2022/020579)

[30] GR (20200100441) 2020-07-24

[30] US (63/057,696) 2020-07-28

[21] **3,190,101**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) C12N 15/113 (2010.01) A61P 31/14 (2006.01) C07K 7/08 (2006.01) C07K 14/005 (2006.01) C07K 14/08 (2006.01) C07K 14/165 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING VIRAL INFECTIONS**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'INFECTIONS VIRALES**

[72] DESAI, NEIL P., US

[72] DIVITA, GILLES, FR

[71] AADIGEN, LLC, US

[85] 2023-01-24

[86] 2021-07-23 (PCT/US2021/043077)

[87] (WO2022/020782)

[30] FR (FR2007849) 2020-07-24

[21] **3,190,103**
[13] A1

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

[25] EN

[54] **PROCESSES FOR PREPARING MODULATORS OF ALPHA-1 ANTITRYPSIN**

[54] **PROCEDES DE PREPARATION DE MODULATEURS DE L'ALPHA-1 ANTITRYPSINE**

[72] BLIGH, CAVAN MCKEON, US

[72] GIACOMETTI, ROBERT DANIEL, US

[72] HARRISON, CRISTIAN, US

[72] LAWS, STEPHEN W., US

[72] LOOKER, ADAM, US

[72] ROEPER, STEFANIE, US

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2023-01-24

[86] 2021-07-26 (PCT/US2021/043154)

[87] (WO2022/026372)

[30] US (63/056,958) 2020-07-27

[30] US (63/079,735) 2020-09-17

[30] US (63/080,877) 2020-09-21

[30] US (63/114,739) 2020-11-17

[21] **3,190,105**
[13] A1

[51] **Int.Cl. C07F 7/08 (2006.01) C07F 7/22 (2006.01) C07F 19/00 (2006.01)**

[25] EN

[54] **METHODS TO PRODUCE ORGANOTIN COMPOSITIONS WITH CONVENIENT LIGAND PROVIDING REACTANTS**

[54] **PROCEDES DE PRODUCTION DE COMPOSITIONS D'ORGANOETAIN AU MOYEN DE REACTIFS COMMUNES FOURNISSANT UN LIGAND**

[72] EDSON, JOSEPH B., US

[72] CARDINEAU, BRIAN J., US

[72] LAMKIN, THOMAS J., US

[72] JILEK, ROBERT E., US

[72] EARLEY, WILLIAM (DECEASED), US

[72] HUIHUI-GIST, KIERRA, US

[71] INPRIA CORPORATION, US

[85] 2023-01-24

[86] 2021-08-24 (PCT/US2021/047299)

[87] (WO2022/046736)

[30] US (63/070,098) 2020-08-25

[30] US (63/191,646) 2021-05-21

PCT Applications Entering the National Phase

[21] **3,190,107**
[13] A1

[51] **Int.Cl. C22B 3/00 (2006.01) C22B 34/22 (2006.01) C22B 34/34 (2006.01)**

[25] EN

[54] **OXIDATIVE PROCESSES FOR SELF-HEATING AND PYROPHORIC CATALYSTS CONTAINING ACTIVE METAL SULFIDES, AND MITIGATION OF HALIDE AND POLYTHIONIC ACID STRESS CORROSION CRACKING MECHANISMS IN PROCESS EQUIPMENT**

[54] **PROCEDES D'OXYDATION POUR CATALYSEURS AUTOCHAUFFANTS ET PYROPHORIQUES CONTENANT DES SULFURES METALLIQUES ACTIFS, ET ATTENUATION DES MECANISMES DE FISSURATION PAR CORROSION SOUS CO NTRAINT D'HALOGENURE ET D'ACIDE POLYTHIONIQUE DANS UN EQUIPEMENT DE TRAITEMENT**

[72] ESTEBAN, JAMES, US
[72] SEARS, SEAN, US
[72] SCHUENEMANN, TREY, US
[71] REFINED TECHNOLOGIES, INC., US
[85] 2023-01-24
[86] 2021-07-28 (PCT/US2021/043428)
[87] (WO2022/026530)
[30] US (63/059,558) 2020-07-31

[21] **3,190,109**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-INTEGRIN BETA7 ANTIBODY FORMULATIONS AND DEVICES**

[54] **FORMULATIONS D'ANTICORPS ANTI-INTEGRINE BETA7 ET DISPOSITIFS**

[72] PULLEY, JENNIFER, GB
[72] TANG, MEINA TAO, US
[72] TOLE, SWATI, US
[72] TYRRELL, HELEN, GB
[72] ABOUHOSSEIN, MARIAM, US
[72] AMARCHINTA, HEMANTH, US
[72] BORUVKA, AUDREY, CA
[72] DING, HAN TING, US
[72] FLORES, HEATHER L., US
[72] GIESE, GLEN SCOTT, US
[72] RAVANELLO, RENATO, US
[72] ZHANG, WENHUI, US
[71] GENENTECH, INC., US
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2023-01-24
[86] 2021-07-29 (PCT/US2021/043690)
[87] (WO2022/026699)
[30] US (63/059,427) 2020-07-31

[21] **3,190,110**
[13] A1

[51] **Int.Cl. A23F 3/32 (2006.01) A23L 5/30 (2016.01) A23L 23/10 (2016.01) A23P 10/28 (2016.01) A23F 5/12 (2006.01) A23L 2/395 (2006.01) A23L 3/005 (2006.01) A23L 3/01 (2006.01) H05B 6/64 (2006.01) H05B 6/78 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE PREPARATION OF COFFEE TABLETS AND THE LIKE**

[54] **SYSTEME ET PROCEDE DE PREPARATION DE TABLETTES DE CAFE ET SIMILAIRES**

[72] CARBONINI, CARLO, IT
[72] DANGELICO, FRANCESCA, IT
[72] DI MARCO, MASSIMO, IT
[71] LUIGI LAVAZZA S.P.A., IT
[85] 2023-01-24
[86] 2021-09-09 (PCT/IB2021/058187)
[87] (WO2022/053957)
[30] IT (10202000021496) 2020-09-10

[21] **3,190,113**
[13] A1

[51] **Int.Cl. G01M 3/28 (2006.01) G01M 3/08 (2006.01) G01M 3/18 (2006.01)**

[25] EN

[54] **DYNAMIC WATER LEAK DETECTION**

[54] **DETECTION DYNAMIQUE DE FUITE D'EAU**

[72] RUDD, GRANT, US
[72] PICARDI, ROBERT NATHAN, US
[72] GOODMAN, DANIEL MARC, US
[72] HEFFERNAN, CRAIG CARL, US
[72] DONAHUE, HARRISON WAYNE, US
[72] DALY, LIAM SHEA, US
[71] ALARM.COM INCORPORATED, US
[85] 2023-01-24
[86] 2021-07-20 (PCT/US2021/042301)
[87] (WO2022/020306)
[30] US (63/056,003) 2020-07-24
[30] US (17/379,069) 2021-07-19

[21] **3,190,114**
[13] A1

[51] **Int.Cl. H02K 16/04 (2006.01) F04D 25/00 (2006.01) F04D 29/00 (2006.01) H02K 7/08 (2006.01) H02K 7/09 (2006.01)**

[25] EN

[54] **COOLING SYSTEM AND RIM DRIVEN FAN FOR ENGINE COOLING**

[54] **SYSTEME DE REFROIDISSEMENT ET VENTILATEUR A ENTRAINEMENT PAR VIROLE POUR REFROIDISSEMENT DE MOTEUR**

[72] LEMBERG, NICHOLAS A., US
[72] ARNOLD, KOLIN, US
[72] SUTPHIN, RICHARD C., US
[71] BAE SYSTEMS CONTROLS INC., US
[85] 2023-01-24
[86] 2021-07-19 (PCT/US2021/042185)
[87] (WO2022/020239)
[30] US (16/938,336) 2020-07-24

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[21] **3,190,115**
[13] A1

[51] **Int.Cl. G06F 16/9535 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR SEARCHING BASED ON MULTIPLE USER PROFILES**
[54] **PROCEDES ET SYSTEMES DE RECHERCHE REPOSANT SUR DE MULTIPLES PROFILS D'UTILISATEURS**
[72] AHER, ANKUR ANIL, IN
[72] SEN, SUSANTO, IN
[71] ROVI GUIDES, INC., US
[85] 2023-01-24
[86] 2020-12-29 (PCT/US2020/067380)
[87] (WO2022/031306)
[30] US (16/987,082) 2020-08-06

[21] **3,190,116**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01) G06T 17/05 (2011.01) G06F 16/29 (2019.01) G01V 1/00 (2006.01)**
[25] EN
[54] **INTEGRATION OF GEOTAGS AND OPPORTUNITY MATURATION**
[54] **INTEGRATION DE GEOMARQUES ET MATURATION D'OPPORTUNITE**
[72] LAAKE, ANDREAS W., US
[72] FRUGIER-DORRINGTON, TRACY, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2023-01-24
[86] 2020-07-24 (PCT/US2020/043423)
[87] (WO2022/019918)

[21] **3,190,117**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **ANTI-ROR1 ANTIBODIES AND RELATED BISPECIFIC BINDING PROTEINS**
[54] **ANTICORPS ANTI-ROR1 ET PROTEINES DE LIAISON BISPECIFIQUES ASSOCIEES**
[72] GONG, SHIYONG, CN
[72] OUYANG, KEDONG, CN
[72] WU, CHENGBIN, CN
[72] WU, DANQING, CN
[72] WU, XUAN, CN
[72] ZHANG, RUI, CN
[71] EPIMAB BIOTHERAPEUTICS (HK) LIMITED, CN
[85] 2023-01-24
[86] 2021-08-23 (PCT/CN2021/114088)
[87] (WO2022/042488)
[30] CN (PCT/CN2020/110841) 2020-08-24
[30] CN (PCT/CN2020/141398) 2020-12-30

[21] **3,190,119**
[13] A1

[51] **Int.Cl. B62D 33/04 (2006.01) B62D 63/02 (2006.01)**
[25] EN
[54] **VEHICLE**
[54] **VEHICULE**
[72] RUFLI, FRANZ, CH
[71] RUFLI, FRANZ, CH
[85] 2023-01-24
[86] 2020-07-24 (PCT/EP2020/071010)
[87] (WO2021/018785)
[30] CH (00959/19) 2019-07-26

[21] **3,190,120**
[13] A1

[51] **Int.Cl. H04N 21/462 (2011.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DATA TRANSMISSION WITH SIGNIFICANTLY REDUCED LATENCY LOSSES**
[54] **PROCEDE ET SYSTEME DE TRANSMISSION DE DONNEES AVEC DES PERTES DE LATENCE SIGNIFICATIVEMENT REDUITES**
[72] ROCK, KLAUS, DE
[71] ROCK, KLAUS, DE
[85] 2023-01-24
[86] 2020-07-30 (PCT/EP2020/071554)
[87] (WO2021/019035)
[30] EP (19189655.4) 2019-08-01

[21] **3,190,123**
[13] A1

[51] **Int.Cl. F24F 1/0035 (2019.01) F24F 11/46 (2018.01) F24F 11/875 (2018.01) F24F 5/00 (2006.01) F24F 7/00 (2021.01) F24F 12/00 (2006.01) F25B 30/00 (2006.01) F28D 20/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR AIR CONDITIONING THE INTERIOR OF A BUILDING**
[54] **SYSTEME DE CLIMATISATION D'ESPACES INTERIEURS D'UN BATIMENT**
[72] SCHECHNER, ALEXANDER, DE
[72] IHLE, GERHARD, DE
[72] ELHELALY, ISLAM, DE
[71] ENVOLA GMBH, DE
[85] 2023-01-24
[86] 2021-07-16 (PCT/EP2021/069955)
[87] (WO2022/017976)
[30] DE (10 2020 119 653.9) 2020-07-24

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[21] **3,190,124**
[13] A1

[51] **Int.Cl. F28D 1/04 (2006.01)**
[25] EN
[54] **DEVICE FOR ENERGY TRANSFER AND ENERGY STORAGE IN A LIQUID RESERVOIR**

[54] **DISPOSITIF DE TRANSFERT D'ENERGIE ET DE STOCKAGE D'ENERGIE DANS UN RESERVOIR A LIQUIDE**

[72] SCHECHNER, ALEXANDER, DE
[72] IHLE, GERHARD, DE
[72] ELHELALY, ISLAM, DE
[71] ENVOVA GMBH, DE
[85] 2023-01-24
[86] 2021-07-16 (PCT/EP2021/069956)
[87] (WO2022/017977)
[30] DE (10 2020 119 652.0) 2020-07-24

[21] **3,190,125**
[13] A1

[51] **Int.Cl. A61F 7/00 (2006.01) A61H 39/06 (2006.01)**
[25] EN
[54] **DEVICE FOR THERMAL TREATMENT OF HUMANS**

[54] **DISPOSITIF POUR EXERCER UNE ACTION THERMIQUE SUR UNE PERSONNE**

[72] OSIPOV, ILYA VIKTOROVICH, RU
[71] OSIPOV, ILYA VIKTOROVICH, RU
[85] 2023-01-24
[86] 2021-01-01 (PCT/RU2021/050001)
[87] (WO2021/246911)
[30] RU (2020118184) 2020-06-02

[21] **3,190,128**
[13] A1

[51] **Int.Cl. A23C 9/18 (2006.01) A23L 23/10 (2016.01) A23P 10/28 (2016.01) A23F 3/32 (2006.01) A23F 5/12 (2006.01) A23L 2/395 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR THE PREPARATION OF COFFEE TABLETS AND THE LIKE**

[54] **SYSTEME ET PROCEDE DE PREPARATION DE TABLETTES DE CAFE ET SIMILAIRES**

[72] CARBONINI, CARLO, IT
[72] DANGELICO, FRANCESCA, IT
[72] DI MARCO, MASSIMO, IT
[71] LUIGI LAVAZZA S.P.A., IT
[85] 2023-01-24
[86] 2021-09-09 (PCT/IB2021/058192)
[87] (WO2022/053961)
[30] IT (102020000021499) 2020-09-10

[21] **3,190,130**
[13] A1

[51] **Int.Cl. C04B 2/10 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING OXIDIC MATERIALS FROM LOW BULK DENSITY MINERAL MATERIAL, SYSTEM FOR CARRYING OUT THE METHOD AND MATERIAL OBTAINABLE IN SUCH A METHOD**

[54] **PROCEDE DE PRODUCTION DE MATERIAUX OXYDIQUES A PARTIR D'UN MATERIAU MINERAL A FAIBLE DENSITE APPARENTE, SYSTEME POUR LA MISE EN OEUVRE DU PROCEDE ET MATERIAU POUVANT ETRE OBTENU D ANS UN TEL PROCEDE**

[72] DIETRICH, MEIKE, DE
[72] BRACHT, LUKAS, DE
[72] TOLKE, HEINZ, DE
[71] FLSMIDTH A/S, DK
[85] 2023-01-24
[86] 2021-07-23 (PCT/EP2021/070745)
[87] (WO2022/018286)
[30] DE (10 2020 209 393.8) 2020-07-24

[21] **3,190,131**
[13] A1

[51] **Int.Cl. G05D 1/00 (2006.01) G16Y 10/40 (2020.01) G16Y 40/10 (2020.01) G16Y 40/30 (2020.01) G08G 1/00 (2006.01) G08G 1/09 (2006.01) G08G 1/13 (2006.01) G08G 1/16 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING BULLDOZER AND CONVEYANCE VEHICLE**

[54] **PROCEDE ET SYSTEME DE COMMANDE D'UN BULLDOZER ET D'UN VEHICULE DE TRANSPORT**

[72] KADONO, YUUICHI, JP
[71] KOMATSU LTD., JP
[85] 2023-01-24
[86] 2021-08-17 (PCT/JP2021/030015)
[87] (WO2022/085282)
[30] JP (2020-177955) 2020-10-23

[21] **3,190,132**
[13] A1

[51] **Int.Cl. C03B 37/083 (2006.01)**
[25] EN
[54] **TIP PLATE FOR A BUSHING AND BUSHING**

[54] **PLAQUE A TETONS POUR UNE FILIERE ET FILIERE**

[72] MAGER, GUNTHER, DE
[72] CAMPBELL, IAN, GB
[71] COOKSON PRECIOUS METALS LTD., GB
[85] 2023-01-24
[86] 2021-08-19 (PCT/EP2021/073063)
[87] (WO2022/043188)
[30] DE (10 2020 005 323.8) 2020-08-31

[21] **3,190,134**
[13] A1

[51] **Int.Cl. A61K 38/36 (2006.01) A61K 38/48 (2006.01) B01D 15/08 (2006.01) B01D 15/36 (2006.01) B01D 15/42 (2006.01) C07K 14/745 (2006.01) C12N 9/64 (2006.01)**
[25] EN
[54] **A PROCESS FOR THE PURIFICATION OF PROTHROMBIN COMPLEX CONCENTRATE (PCC) AND FIX FROM COMPLETE PLASMA OR CRYO-POOR PLASMA**

[54] **PROCEDE DE PURIFICATION DU CONCENTRE DE COMPLEXE PROTHROMBINIQUE (CCP) ET DE FIX A PARTIR DE PLASMA COMPLET OU DE PLASMA CRYO-SURNAGEANT**

[72] JOSIC, DJURO, SI
[72] BEGIC, MARIJA, SI
[72] ANDJELKOVIC, UROS, SI
[71] SARTORIOUS BIA SEPARATIONS D.O.O., SI
[85] 2023-01-25
[86] 2021-07-28 (PCT/EP2021/071181)
[87] (WO2022/023431)
[30] EP (20188209.9) 2020-07-28

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[13] A1

[51] **Int.Cl. B01J 8/02 (2006.01) B01J 8/04 (2006.01) C10G 3/00 (2006.01) C10G 45/44 (2006.01) C10G 45/58 (2006.01) C10G 49/00 (2006.01) C10G 65/04 (2006.01) C10G 65/08 (2006.01) C10G 65/12 (2006.01)**

[25] EN

[54] **PROCESS FOR HYDROTREATMENT OF MATERIALS FROM RENEWABLE SOURCES**

[54] **PROCEDE POUR L'HYDROTRAITEMENT DE MATIERES PROVENANT DE SOURCES RENOUVELABLES**

[72] VAN DIJK, NICOLAAS, NL

[72] JANSSEN, ANDRIES HENDRIK, NL

[72] LAWRENCE, GERALD MAX, US

[72] HENKET, ROY LEON BERNARD, NL

[72] SIGAUD, JULIEN, NL

[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2023-01-24

[86] 2021-08-20 (PCT/EP2021/073144)

[87] (WO2022/038265)

[30] EP (20192161.6) 2020-08-21

[21] **3,190,136**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 9/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHOD FOR TREATING IMMUNE TOXICITIES INDUCED BY IMMUNE CHECKPOINT INHIBITORS**

[54] **PROCEDE DE TRAITEMENT DE TOXICITES IMMUNITAIRES INDUITES PAR DES INHIBITEURS DE POINTS DE CONTROLE IMMUNITAIRES**

[72] ALLENBACH, YVES, FR

[72] SALEM, JOE-ELIE, FR

[72] ANQUETIL, CELINE, FR

[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR

[71] SORBONNE UNIVERSITE, FR

[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR

[85] 2023-01-25

[86] 2021-07-29 (PCT/EP2021/071319)

[87] (WO2022/023490)

[30] EP (20305873.0) 2020-07-30

[21] **3,190,137**
[13] A1

[51] **Int.Cl. B25B 21/00 (2006.01)**

[25] EN

[54] **MACHINE AND METHOD FOR RUNNING A MACHINE**

[54] **MACHINE ET PROCEDE DE FONCTIONNEMENT D'UNE MACHINE**

[72] KENDALL, ISABEL, DE

[72] VON MONKIEWITSCH, MATTHIAS, AT

[71] HILTI AKTIENGESELLSCHAFT, LI

[85] 2023-01-24

[86] 2021-08-30 (PCT/EP2021/073878)

[87] (WO2022/049030)

[30] EP (20193820.6) 2020-09-01

[21] **3,190,139**
[13] A1

[51] **Int.Cl. G16B 50/40 (2019.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ENCRYPTING GENETIC DATA OF A SUBJECT**

[54] **PROCEDE ET SYSTEME DE CHIFFREMENT DE DONNEES GENETIQUES D'UN SUJET**

[72] FINA, FREDERIC, FR

[72] BIANCOTTO, ALAIN, FR

[72] PELLEGRINO, ERIC, FR

[72] DELAVEAU, MAEVA, FR

[72] MACAGNO, NICOLAS, FR

[72] FIGARELLA-BRANGER, DOMINIQUE, FR

[71] ASSISTANCE PUBLIQUE HOPITAUX DE MARSEILLE, FR

[71] UNIVERSITE D'AIX-MARSEILLE, FR

[85] 2023-01-25

[86] 2021-08-02 (PCT/EP2021/071531)

[87] (WO2022/029059)

[30] EP (20305891.2) 2020-08-03

[21] **3,190,140**
[13] A1

[51] **Int.Cl. E03B 7/12 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR CONTROLLING THE DISTRIBUTION OF A FLUID, WITH AN ANTI-FREEZE SAFETY FUNCTION**

[54] **APPAREIL ET PROCEDE DE COMMANDE DE LA DISTRIBUTION D'UN FLUIDE, AVEC UNE FONCTION DE SECURITE ANTIGEL**

[72] BERTOLOTTI, UMBERTO, IT

[72] BERTOLOTTI, STEFANO, IT

[71] I.V.A.R. S.P.A., IT

[85] 2023-01-24

[86] 2021-07-14 (PCT/IB2021/056337)

[87] (WO2022/023854)

[30] IT (102020000018868) 2020-07-31

[21] **3,190,141**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) C07K 14/08 (2006.01)**

[25] EN

[54] **IMPROVEMENTS TO WASH SOLUTIONS FOR ANION EXCHANGE CHROMATOGRAPHY IN A METHOD OF PURIFICATION OF RECOMBINANTLY-PRODUCED RSV PROTEINS**

[54] **AMELIORATIONS APPORTEES A DES SOLUTIONS DE LAVAGE POUR CHROMATOGRAPHIE PAR ECHANGE D'ANIONS DANS UNE METHODE DE PURIFICATION DE PROTEINES DU VRS PRODUITES PAR RECOMBINAISON**

[72] KUBLBECK, JILL ANN, US

[72] PETTAWAY, ALEXANDRA, US

[72] SALM, JEFFREY RICHARD, US

[71] PFIZER INC., US

[85] 2023-01-24

[86] 2021-07-22 (PCT/IB2021/056629)

[87] (WO2022/023895)

[30] US (63/056,949) 2020-07-27

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[21] **3,190,144**
[13] A1

[51] **Int.Cl. C07D 221/14 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **NAPHTHALENE MONOIMIDE COMPOUNDS AND METHODS THEREOF**
[54] **COMPOSES DE MONOIMIDE DE NAPHTHALENE ET PROCEDES ASSOCIES**
[72] THIMMAIAH, GOVINDARAJU, IN
[72] KOLLA, RAJASEKHAR, IN
[72] SAMANTA, SOURAV, IN
[71] JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH, IN
[85] 2023-01-24
[86] 2021-07-22 (PCT/IB2021/056633)
[87] (WO2022/018679)
[30] IN (202041031875) 2020-07-24

[21] **3,190,146**
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01)**
[25] EN
[54] **COMMUNICATION METHOD, APPARATUS, AND SYSTEM**
[54] **PROCEDE, APPAREIL ET SYSTEME DE COMMUNICATION**
[72] GAO, HUI, CN
[72] GAO, YICHEN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-01-25
[86] 2020-07-31 (PCT/CN2020/106449)
[87] (WO2022/021444)

[21] **3,190,147**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A23L 33/00 (2016.01) A23L 33/15 (2016.01) A61K 33/00 (2006.01) A61K 45/00 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS OF REDUCING INCIDENCE OR RISK OF CEREBRAL FOLATE DEFICIENCY**
[54] **PROCEDES DE REDUCTION DE L'INCIDENCE OU DU RISQUE DE CARENCE EN FOLATE CEREBRAL**
[72] AYOUB, GEORGE, US
[72] LAM, DOMINIC MAN-KIT, CN
[71] AYOUB, GEORGE, US
[71] LAM, DOMINIC MAN-KIT, CN
[85] 2023-01-24
[86] 2021-07-27 (PCT/IB2021/056815)
[87] (WO2022/023977)
[30] US (63/056,829) 2020-07-27

[21] **3,190,148**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01) C07K 14/08 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATED TO EBOLAVIRUS VACCINES**
[54] **COMPOSITIONS ET METHODES ASSOCIEES A DES VACCINS CONTRE LE VIRUS EBOLA**
[72] HE, LINLING, US
[72] ZHU, JIANG, US
[72] CHAUDHARY, ANSHUL, US
[72] WILSON, IAN, US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2023-01-25
[86] 2021-08-09 (PCT/US2021/045178)
[87] (WO2022/035739)
[30] US (63/063,530) 2020-08-10

[21] **3,190,150**
[13] A1

[51] **Int.Cl. F16L 55/128 (2006.01) E21B 33/128 (2006.01) F16L 55/136 (2006.01)**
[25] EN
[54] **SEAL ASSEMBLY FOR PIPELINE ISOLATION TOOL AND METHODS OF USE**
[54] **ENSEMBLE ETANCHEITE POUR OUTIL D'ISOLATION DE PIPELINE ET PROCEDES D'UTILISATION**
[72] GILES, PAUL, US
[72] FARDALEHI, HUMON GLENN, US
[71] SAFE ISOLATIONS LLC, US
[85] 2023-01-24
[86] 2021-07-30 (PCT/US2021/044060)
[87] (WO2022/026919)
[30] US (63/058,829) 2020-07-30

[21] **3,190,151**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/566 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01) G01N 21/17 (2006.01)**
[25] EN
[54] **METHODS OF IDENTIFYING INTERACTIONS OF A COMPOUND AND A CONDENSATE, OR A COMPONENT THEREOF, AND USES THEREOF**
[54] **PROCEDES D'IDENTIFICATION D'INTERACTIONS D'UN COMPOSE ET D'UN CONDENSAT, OU D'UN COMPOSANT DE CELUI-CI, ET LEURS UTILISATIONS**
[72] MITREA, DIANA MARIA, US
[72] MITTASCH, MATTHAUS, DE
[72] DANDLIKER, PETER JEFFREY, US
[72] BEUTEL, BRUCE AARON, US
[72] BOCZEK, EDGAR ERIK, DE
[71] DEWPOINT THERAPEUTICS, INC., US
[85] 2023-01-25
[86] 2021-08-11 (PCT/US2021/045592)
[87] (WO2022/035989)
[30] US (63/064,867) 2020-08-12

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[21] **3,190,154**
[13] A1

[51] **Int.Cl. C07D 241/18 (2006.01) A61P 31/20 (2006.01) A61P 35/00 (2006.01) C07D 221/04 (2006.01) C07D 471/04 (2006.01) C07D 487/10 (2006.01) C07D 491/048 (2006.01) C07D 491/107 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETING PD-L1**
[54] **PROCEDES ET COMPOSITIONS POUR LE CIBLAGE DE PD-L1**

[72] WU, TONGFEI, US
[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, US
[72] GONZALVEZ, FRANCOIS, US
[72] STOYCHEVA, ANTITSA DIMITROVA, US
[72] DEVAL, JEROME, US
[72] LIU, CHENG, US
[72] ZHANG, QINGLING, US
[71] ALIGOS THERAPEUTICS, INC., US
[85] 2023-01-25
[86] 2021-08-12 (PCT/US2021/045696)
[87] (WO2022/040002)
[30] US (63/066,689) 2020-08-17
[30] US (63/210,423) 2021-06-14

[21] **3,190,156**
[13] A1

[51] **Int.Cl. B60K 1/04 (2019.01)**

[25] EN
[54] **BATTERY ENERGY STORAGE SYSTEMS MOUNTING**
[54] **MONTAGE DE SYSTEMES DE STOCKAGE D'ENERGIE PAR BATTERIE**

[72] COLLIGNON, PATRICK, US
[72] COLLIGNON, MAXELL, US
[71] TROVA COMMERCIAL VEHICLES INC, US
[85] 2023-01-25
[86] 2021-08-11 (PCT/US2021/071160)
[87] (WO2022/036364)
[30] US (63/064,795) 2020-08-12

[21] **3,190,158**
[13] A1

[51] **Int.Cl. H01M 10/0525 (2010.01) H01M 10/0562 (2010.01) H01M 10/0565 (2010.01)**

[25] EN
[54] **POWDERIZED SOLID-STATE ELECTROLYTE AND ELECTROACTIVE MATERIALS**
[54] **ELECTROLYTE A L'ETAT SOLIDE EN POUDRE ET MATERIAUX ELECTROACTIFS**

[72] PHARES, DENIS, US
[72] DARGERT, JORDAN, US
[72] MARTINS, GABRIEL STEHLING VIEIRA, US
[72] SINGH, VICKRAM, US
[72] STAMPFLI, PATRICK, US
[71] DRAGONFLY ENERGY CORP., US
[85] 2023-01-24
[86] 2021-08-11 (PCT/US2021/045469)
[87] (WO2022/035919)
[30] US (63/064,449) 2020-08-12

[21] **3,190,159**
[13] A1

[51] **Int.Cl. E21B 7/02 (2006.01) E21B 15/00 (2006.01)**

[25] EN
[54] **SIDE SADDLE TRAVERSABLE DRILLING RIG**
[54] **APPAREIL DE FORAGE TRAVERSABLE A SELLE LATERALE**

[72] REDDY, PADIRA, US
[72] LEE, DENVER, US
[72] MONGATTIL, PREMKUMAR, US
[71] NABORS DRILLING TECHNOLOGIES USA, INC., US
[85] 2023-01-25
[86] 2021-08-27 (PCT/US2021/048087)
[87] (WO2022/051192)
[30] US (63/073,197) 2020-09-01

[21] **3,190,160**
[13] A1

[51] **Int.Cl. A61B 3/15 (2006.01) A61B 3/00 (2006.01) A61B 3/10 (2006.01) A61B 3/12 (2006.01) A61B 3/14 (2006.01)**

[25] EN
[54] **USING INFRARED TO DETECT PROPER EYE ALIGNMENT BEFORE CAPTURING RETINAL IMAGES**
[54] **UTILISATION DE L'INFRAROUGE POUR DETECTER L'ALIGNEMENT CORRECT DE L'ŒIL AVANT LA CAPTURE D'IMAGES RETINIENNES**

[72] CLARIDA, WARREN JAMES, US
[72] AMELON, RYAN EARL ROHRET, US
[72] SHAH, ABHAY, US
[72] SUTHER, JACOB PATRICK, US
[72] NIEMEIJER, MEINDERT, US
[72] ABRAMOFF, MICHAEL DAVID, US
[71] DIGITAL DIAGNOSTICS INC., US
[85] 2023-01-24
[86] 2021-08-12 (PCT/US2021/045727)
[87] (WO2022/040007)
[30] US (16/997,843) 2020-08-19

[21] **3,190,161**
[13] A1

[51] **Int.Cl. G10L 17/00 (2013.01) G10L 17/02 (2013.01)**

[25] EN
[54] **IMPROVING SPEAKER RECOGNITION WITH QUALITY INDICATORS**
[54] **AMELIORATION DE LA RECONNAISSANCE DU LOCUTEUR AU MOYEN D'INDICATEURS DE QUALITE**

[72] RAO, HRISHIKESH, US
[72] PHATAK, KEDAR, US
[72] KHOURY, ELIE, US
[71] PINDROP SECURITY, INC., US
[85] 2023-01-24
[86] 2021-08-20 (PCT/US2021/046901)
[87] (WO2022/040524)
[30] US (63/068,685) 2020-08-21

PCT Applications Entering the National Phase

[21] **3,190,163**
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/496 (2006.01) A61P 3/10 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/00 (2006.01)**

[25] EN

[54] **HETEROCYCLIC GLP-1 AGONISTS**

[54] **AGONISTES HETEROCYCLIQUES DE GLP-1**

[72] MENG, QINGHUA, CN
[72] LEI, HUI, CN
[72] ZHANG, HAIZHEN, CN
[72] LIN, XICHEN, CN
[72] JENNINGS, ANDREW, US
[71] GASHERBRUM BIO, INC., US
[85] 2023-01-25
[86] 2021-08-06 (PCT/CN2021/111193)
[87] (WO2022/028572)
[30] CN (PCT/CN2020/107437) 2020-08-06
[30] CN (PCT/CN2021/073958) 2021-01-27

[21] **3,190,165**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/08 (2006.01) E21B 43/14 (2006.01)**

[25] EN

[54] **OPEN-HOLE PRESSURE TIGHT MULTILATERAL JUNCTION**

[54] **JONCTION MULTILATERALE ETANCHE A LA PRESSION NON TUBEE**

[72] DAHL, ESPEN, NO
[72] FALNES, MORTEN, NO
[72] LAFFERTY, GAVIN, GB
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-01-25
[86] 2021-10-01 (PCT/US2021/053216)
[87] (WO2022/072860)
[30] US (63/086,912) 2020-10-02
[30] US (17/492,295) 2021-10-01

[21] **3,190,166**
[13] A1

[51] **Int.Cl. A61L 9/16 (2006.01) A41D 13/11 (2006.01) A62B 7/10 (2006.01) A62B 23/02 (2006.01)**

[25] EN

[54] **PORTABLE AIR STERILIZER FOR RESPIRATORS USED IN INFECTIOUS ENVIRONMENTS**

[54] **STERILISATEUR D'AIR PORTABLE POUR RESPIRATEURS UTILISES DANS DES ENVIRONNEMENTS INFECTIEUX**

[72] IONESCU, CAZEMIR-BENEDICT, RO
[72] RADU, RADU, RO
[71] BLUESTEM BIO INC., US
[85] 2023-01-25
[86] 2021-08-17 (PCT/US2021/046374)
[87] (WO2022/040234)
[30] RO (2020 00520) 2020-08-17
[30] US (17/390,011) 2021-07-30

[21] **3,190,168**
[13] A1

[51] **Int.Cl. A45F 5/00 (2006.01) A47K 5/12 (2006.01) B65D 79/00 (2006.01) F16M 13/04 (2006.01)**

[25] EN

[54] **PORTABLE PERSONAL HAND SANITIZER DISPENSER**

[54] **DISTRIBUTEUR PORTATIF PERSONNEL DE DESINFECTANT POUR LES MAINS**

[72] WATSON, MICHAEL, CA
[71] WATSON, MICHAEL, CA
[85] 2023-01-26
[86] 2021-07-27 (PCT/CA2021/051052)
[87] (WO2022/020949)
[30] US (63/057,060) 2020-07-27

[21] **3,190,169**
[13] A1

[51] **Int.Cl. C08G 18/72 (2006.01) C08G 18/78 (2006.01) C09D 175/04 (2006.01)**

[25] EN

[54] **A POLYISOCYANATE COMPOSITION AND A POLYURETHANE COMPOSITION OBTAINED THEREFROM**

[54] **COMPOSITION DE POLYISOCYANATE ET COMPOSITION DE POLYURETHANE OBTENUE A PARTIR DE CELLE-CI**

[72] LUAN, BAO, CN
[72] RONG, ZHUXIA, CN
[72] DU, SIXUAN, CN
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2023-01-26
[86] 2020-09-01 (PCT/CN2020/112775)
[87] (WO2022/047605)

[21] **3,190,171**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01) G06T 7/12 (2017.01) G06T 7/73 (2017.01) B25J 19/02 (2006.01) G05B 19/418 (2006.01) G06T 1/00 (2006.01)**

[25] EN

[54] **A SELECTOR FOR ROBOT-RETRIEVABLE ITEMS**

[54] **SELECTEUR POUR ARTICLES PRELEVABLES PAR ROBOT**

[72] PEDRO, OSEMWARO JEREMIAH OGHENETEGA, GB
[71] OCADO INNOVATION LIMITED, GB
[85] 2023-01-25
[86] 2021-08-09 (PCT/EP2021/072179)
[87] (WO2022/034032)
[30] GB (2012459.0) 2020-08-11

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[21] **3,190,172**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/4184 (2006.01) A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **SALT INDUCIBLE KINASE INHIBITORS**
[54] **INHIBITEURS DE KINASES INDUCTIBLES PAR UN SEL**
[72] WEIN, MARC NATHAN, US
[72] GREENLEE, WILLIAM J., US
[71] THE GENERAL HOSPITAL CORPORATION, US
[85] 2023-01-25
[86] 2021-08-05 (PCT/US2021/044673)
[87] (WO2022/031928)
[30] US (63/061,515) 2020-08-05

[21] **3,190,173**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **ANTI-ANG-2 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-ANG-2 ET SON UTILISATION**
[72] LI, YIMING, CN
[72] LI, LI, CN
[72] FU, FENGGEN, CN
[72] JING, HUA, CN
[72] LIU, JUNJIAN, CN
[71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN
[85] 2023-01-26
[86] 2021-06-21 (PCT/CN2021/101243)
[87] (WO2021/259200)
[30] CN (202010573625.2) 2020-06-22
[30] CN (202011428549.2) 2020-12-09

[21] **3,190,174**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 45/06 (2006.01) C07K 14/00 (2006.01) C07K 14/47 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **MATERIALS AND METHODS FOR MULTIDIRECTIONAL BIOTRANSPORTATION IN VIROTHERAPEUTICS**
[54] **MATERIAUX ET PROCEDES POUR LE BIOTRANSPORT MULTIDIRECTIONNEL DANS DES AGENTS VIROTHERAPEUTIQUES**

[72] GANESAN, RAJKUMAR, US
[72] ZWOLAK, ADAM, US
[72] WHITE, IAN, US
[72] TAMOT, NINKKA, US
[72] HARVILLA, PAUL B., US
[72] DODDAREDDY, RAJITHA, US
[72] SINGH, SANJAYA, US
[72] BORROK, III, MARTIN JACK, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-01-25
[86] 2021-08-02 (PCT/US2021/044138)
[87] (WO2022/031576)
[30] US (63/060,293) 2020-08-03
[30] US (63/060,359) 2020-08-03
[30] US (63/060,372) 2020-08-03
[30] US (63/060,444) 2020-08-03
[30] US (63/060,307) 2020-08-03
[30] US (63/060,421) 2020-08-03
[30] US (63/060,409) 2020-08-03
[30] US (63/060,385) 2020-08-03
[30] US (63/060,435) 2020-08-03
[30] US (63/060,354) 2020-08-03
[30] US (63/060,552) 2020-08-03
[30] US (63/075,673) 2020-09-08
[30] US (63/075,606) 2020-09-08
[30] US (63/075,687) 2020-09-08
[30] US (63/075,664) 2020-09-08
[30] US (63/075,628) 2020-09-08
[30] US (63/075,504) 2020-09-08
[30] US (63/075,580) 2020-09-08
[30] US (63/075,539) 2020-09-08
[30] US (63/075,568) 2020-09-08
[30] US (63/075,677) 2020-09-08
[30] US (63/075,647) 2020-09-08
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[30] US (63/145,873) 2021-02-04
[30] US (63/145,893) 2021-02-04
[30] US (63/145,887) 2021-02-04
[30] US (63/145,880) 2021-02-04
[30] US (63/145,875) 2021-02-04
[30] US (63/145,877) 2021-02-04
[30] US (63/145,896) 2021-02-04
[30] US (63/145,876) 2021-02-04
[30] US (63/145,888) 2021-02-04
[30] US (63/145,890) 2021-02-04
[30] US (63/222,332) 2021-07-15

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[13] A1
[51] **Int.Cl. A61K 31/4545 (2006.01) A61K 9/00 (2006.01) A61P 25/06 (2006.01)**
[25] EN
[54] **TREATMENT OF MIGRAINE**
[54] **TRAITEMENT DE MIGRAINE**
[72] TRUGMAN, JOEL, US
[72] FINNEGAN, MICHELLE, US
[71] ALLERGAN PHARMACEUTICALS INTERNATIONAL LIMITED, IE
[85] 2023-01-25
[86] 2021-07-29 (PCT/US2021/043791)
[87] (WO2022/026767)
[30] US (63/103,353) 2020-07-29
[30] US (63/070,449) 2020-08-26
[30] US (63/087,175) 2020-10-02
[30] US (63/092,211) 2020-10-15
[30] US (63/129,362) 2020-12-22
[30] US (63/201,254) 2021-04-20

[21] **3,190,207**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01)**
[25] EN
[54] **PULSE SHAPE ANALYSIS**
[54] **ANALYSE DE FORME D'IMPULSIONS**
[72] TAVAKOLI, BEHNOOSH, US
[72] GHANNAD-REZAIE, MOSTAFA, US
[72] LEE, VICTORIA HARRISON, US
[72] LIU, DAPHNE, US
[72] CAPODILUPO, EMILY RACHEL, US
[72] CAPODILUPO, JOHN VINCENZO, US
[71] WHOOP, INC., US
[85] 2023-01-25
[86] 2021-07-29 (PCT/US2021/043672)
[87] (WO2022/026686)
[30] US (63/058,155) 2020-07-29

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[21] **3,190,208**
[13] A1

[51] **Int.Cl. A01N 43/653 (2006.01) C07D 249/12 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **TRIAZOLONE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS**

[54] **COMPOSES DE TRIAZOLONE POUR LUTTER CONTRE LES INVERTEBRES NUISIBLES**

[72] KAR, MOUMITA, US

[72] LONG, JEFFREY KEITH, US

[71] FMC CORPORATION, US

[85] 2023-01-25

[86] 2021-07-28 (PCT/US2021/043396)

[87] (WO2022/026511)

[30] US (63/058,096) 2020-07-29

[21] **3,190,209**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/053 (2021.01) A61B 5/145 (2006.01) A61B 5/1491 (2006.01)**

[25] EN

[54] **MINIATURIZED NONINVASIVE GLUCOSE SENSOR AND CONTINUOUS GLUCOSE MONITORING SYSTEM**

[54] **CAPTEUR PHOTOACOUSTIQUE DE GLUCOSE, SYSTEME ET PROCEDE ASSOCIES**

[72] ZHOU, LI, US

[72] RUSSELL, RAYMOND M., US

[72] SCHULTZ, PETER, US

[72] PATEL, ANUJ M., US

[72] CHEN, CAROL, US

[72] MALEKMADANI, ROSHANNE, US

[72] TO, LYNETTE, US

[72] KOW, HSIAO-YU S., US

[72] GAUTHAM, RAGHAVENDHAR V., US

[71] MEDTRONIC MINIMED, INC., US

[85] 2023-01-26

[86] 2021-06-11 (PCT/US2021/036906)

[87] (WO2022/026062)

[30] US (16/942,719) 2020-07-29

[30] US (16/942,721) 2020-07-29

[21] **3,190,210**
[13] A1

[51] **Int.Cl. B01J 29/06 (2006.01) C10G 21/20 (2006.01)**

[25] EN

[54] **HIGH ACTIVITY SECOND STAGE NAPHTHA HYDROCRACKING CATALYST**

[54] **CATALYSEUR D'HYDROCRAQUAGE DE NAPHTA DE SECOND ETAGE A HAUTE ACTIVITE**

[72] JIA, JIFEI, US

[72] ZHAN, BI-ZENG, US

[72] LOUIE, WAI SEUNG WILLIAM, US

[72] ARORA, ARUN, US

[72] PAREKH, JAY, US

[71] CHEVRON U.S.A. INC., US

[85] 2023-01-26

[86] 2021-07-23 (PCT/US2021/042950)

[87] (WO2022/026318)

[30] US (63/057,813) 2020-07-28

[21] **3,190,211**
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) C07B 59/00 (2006.01) C07H 19/16 (2006.01)**

[25] EN

[54] **METHODS AND MATERIALS FOR USING [18F]-F-ARAG IN CARDIAC IMAGING**

[54] **METHODES ET MATERIAUX POUR L'UTILISATION DE [18F]-F-ARAG DANS L'IMAGERIE CARDIAQUE**

[72] LEVI, JELENA, US

[71] CELLSIGHT TECHNOLOGIES INC., US

[85] 2023-01-26

[86] 2021-07-28 (PCT/US2021/043431)

[87] (WO2022/026533)

[30] US (63/057,643) 2020-07-28

[21] **3,190,212**
[13] A1

[51] **Int.Cl. F41G 11/00 (2006.01) F41G 1/00 (2006.01) F41G 1/30 (2006.01)**

[25] EN

[54] **MOUNTING SYSTEM FOR MINI RED DOT SIGHTS**

[54] **SYSTEME DE MONTAGE POUR VISEURS A MINI-POINTS ROUGES**

[72] ROSEN, MICHAEL, US

[72] TOY, SETH, US

[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US

[85] 2023-01-26

[86] 2021-07-28 (PCT/US2021/043473)

[87] (WO2022/026558)

[30] US (63/057,377) 2020-07-28

[21] **3,190,213**
[13] A1

[51] **Int.Cl. B64D 15/12 (2006.01) H05B 3/20 (2006.01)**

[25] EN

[54] **DE-ICING SYSTEMS AND CONTROL**

[54] **SYSTEMES DE DEGIVRAGE ET COMMANDE**

[72] BRATIANU-BADEA, ALEXANDRU, US

[72] TOUBIANA, RUBEN, US

[72] BUENROSTRO, CHRISTOPHER, US

[72] FRITZ, NATHAN, US

[72] SERRANO, CURTIS, US

[71] DE-ICE TECHNOLOGIES, INC., US

[85] 2023-01-26

[86] 2021-07-28 (PCT/US2021/043545)

[87] (WO2022/026604)

[30] US (63/057,881) 2020-07-28

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[21] **3,190,214**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61P 27/02 (2006.01) C07K 14/005 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **IMPROVED AAV-MEDIATED X-LINKED RETINOSCHISIS THERAPIES**

[54] **THERAPIES AMELIOREES DU RETINOSCHISIS LIE A L'X, MEDIEES PAR AAV**

[72] BOYE, SHANNON E., US

[72] BOYE, SANFORD L., US

[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US

[85] 2023-01-26

[86] 2021-07-28 (PCT/US2021/043582)

[87] (WO2022/026632)

[30] US (63/058,437) 2020-07-29

[21] **3,190,215**
[13] A1

[51] **Int.Cl. C09K 11/08 (2006.01) G02B 1/18 (2015.01) G02B 1/11 (2015.01) G02B 5/20 (2006.01) G02B 5/22 (2006.01) G09F 13/22 (2006.01)**

[25] EN

[54] **THIN LAMINAR MATERIAL FOR PRODUCING SHORT WAVE INFRARED EMISSION**

[54] **MATERIAU LAMINAIRE MINCE POUR PRODUIRE UNE EMISSION INFRAROUGE A ONDES COURTES**

[72] PALMER, WILLIAM R., US

[72] PALMER, STEPHEN L., US

[71] CYALUME TECHNOLOGIES, INC., US

[85] 2023-01-26

[86] 2021-07-14 (PCT/US2021/041579)

[87] (WO2022/026187)

[30] US (16/940,428) 2020-07-28

[21] **3,190,216**
[13] A1

[51] **Int.Cl. G09F 3/04 (2006.01) G09F 3/02 (2006.01)**

[25] EN

[54] **HYBRID HEAT TRANSFER LABEL ASSEMBLIES**

[54] **ENSEMBLES ETIQUETTE HYBRIDE A TRANSFERT THERMIQUE**

[72] DIXON, LEE R. B., US

[72] ALTAMIRANO, CARLOS, US

[72] FILIPPINO, LUIGI, US

[72] COLELLA, MICHAEL B., US

[72] TRUONG, TRINH, US

[72] BLESZINSKI, EMMA, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-01-26

[86] 2021-07-29 (PCT/US2021/043599)

[87] (WO2022/026641)

[30] US (63/059,421) 2020-07-31

[21] **3,190,217**
[13] A1

[51] **Int.Cl. F16L 3/02 (2006.01) F01N 13/18 (2010.01) F16B 2/02 (2006.01) F16B 2/06 (2006.01) F16L 21/06 (2006.01) F16L 33/02 (2006.01)**

[25] EN

[54] **FLEXIBLE U-BOLT ASSEMBLY**

[54] **ENSEMBLE BOULON EN U FLEXIBLE**

[72] KING, PAUL, US

[71] CTKING, LLC, US

[85] 2023-01-26

[86] 2021-07-29 (PCT/US2021/043714)

[87] (WO2022/026718)

[30] US (63/058,157) 2020-07-29

[21] **3,190,218**
[13] A1

[51] **Int.Cl. A01N 43/34 (2006.01) A01N 47/02 (2006.01) A01N 61/00 (2006.01) A01P 13/00 (2006.01) C07D 205/04 (2006.01) C07D 207/06 (2006.01) C07D 207/26 (2006.01) C07D 207/27 (2006.01) C07D 209/46 (2006.01) C07D 211/44 (2006.01) C07D 211/46 (2006.01) C07D 221/20 (2006.01) C07D 237/14 (2006.01) C07D 237/16 (2006.01) C07D 239/36 (2006.01) C07D 261/04 (2006.01) C07D 261/20 (2006.01) C07D 263/04 (2006.01) C07D 263/52 (2006.01) C07D 265/30 (2006.01) C07D 265/32 (2006.01) C07D 267/10 (2006.01) C07D 295/084 (2006.01) C07D 491/113 (2006.01) C07D 498/04 (2006.01) C07D 498/10 (2006.01)**

[25] EN

[54] **SUBSTITUTED HALOALKYL SULFONANILIDE HERBICIDES**

[54] **HERBICIDES A BASE D'HALOALKYL SULFONANILIDE SUBSTITUES**

[72] SELBY, THOMAS PAUL, US

[72] STEVENSON, THOMAS MARTIN, US

[72] LEVENS, ALISON MARY, US

[72] HOLMES, MICHAEL, US

[72] ZHANG, WANDI, US

[71] FMC CORPORATION, US

[85] 2023-01-25

[86] 2021-07-28 (PCT/US2021/043379)

[87] (WO2022/026500)

[30] US (63/058,459) 2020-07-29

[21] **3,190,219**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0215 (2006.01) A61B 17/00 (2006.01) A61F 2/02 (2006.01)**

[25] EN

[54] **SENSOR STABILIZER**

[54] **STABILISATEUR DE CAPTEUR**

[72] VALDEZ, MICHAEL G., US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2023-01-25

[86] 2021-01-08 (PCT/US2021/012799)

[87] (WO2022/031317)

[30] US (63/060,333) 2020-08-03

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[21] **3,190,220**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C12N 5/07 (2010.01) C12P 21/02 (2006.01)**
[25] EN
[54] **CELL CULTURE PROCESSES**
[54] **PROCEDES DE CULTURE CELLULAIRE**
[72] BEN YAHIA, BASSEM, BE
[72] PIEDNOIR, ANTOINE PHILIPPE THOMAS, BE
[71] UCB BIOPHARMA SRL, BE
[85] 2023-01-25
[86] 2021-08-19 (PCT/EP2021/073094)
[87] (WO2022/038250)
[30] GB (2012991.2) 2020-08-20

[21] **3,190,221**
[13] A1

[51] **Int.Cl. C05G 3/20 (2020.01) C05G 5/30 (2020.01)**
[25] EN
[54] **CONDITIONING AGENT FOR A PARTICULATE FERTILIZER**
[54] **AGENT DE CONDITIONNEMENT POUR ENGRAIS PARTICULAIRE**
[72] NAFISI, VAJIHEH, NO
[72] TANDE, TERJE, NO
[71] YARA INTERNATIONAL ASA, NO
[85] 2023-01-25
[86] 2021-08-23 (PCT/EP2021/073231)
[87] (WO2022/043243)
[30] EP (20192401.6) 2020-08-24

[21] **3,190,225**
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01) A01G 9/029 (2018.01) A01G 31/06 (2006.01) A01H 4/00 (2006.01)**
[25] EN
[54] **STORAGE CONTAINER, GROWTH AND/OR PROPAGATION STATION, CULTIVATION SYSTEM AND METHOD FOR CULTIVATING DEVELOPMENT MATERIAL**
[54] **CONTENANT DE STOCKAGE, STATION DE CULTURE ET/OU DE PROPAGATION, SYSTEME DE CULTURE ET PROCEDE POUR CULTIVER UN PRODUIT EN DEVELOPPEMENT**
[72] RUTZ, BENJAMIN, CH
[72] DURR, GUNTER, CH
[72] CIRILLO, FABIO, CH
[71] CAPSERO AG, CH
[85] 2023-01-25
[86] 2021-08-23 (PCT/EP2021/073275)
[87] (WO2022/048935)
[30] EP (20194195.2) 2020-09-02

[21] **3,190,226**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL PREPARATION**
[54] **PREPARATION PHARMACEUTIQUE**
[72] AMBRUOSI, ALESSANDRA, DE
[72] MANNINI, RICCARDO, IT
[72] RIEHL, MARKUS, DE
[72] BECKER, AXEL, DE
[71] MERCK PATENT GMBH, DE
[85] 2023-01-25
[86] 2021-09-15 (PCT/EP2021/075337)
[87] (WO2022/058351)
[30] EP (20196904.5) 2020-09-18

[21] **3,190,227**
[13] A1

[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/67 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **CELLS HAVING GENE DUPLICATIONS AND USES THEREOF**
[54] **CELLULES AYANT DES DUPLICATIONS DE GENES ET LEURS UTILISATIONS**
[72] ZHANG, LIN, US
[71] PFIZER INC., US
[85] 2023-01-25
[86] 2021-07-27 (PCT/IB2021/056803)
[87] (WO2022/023972)
[30] US (62/706,075) 2020-07-30

[21] **3,190,229**
[13] A1

[51] **Int.Cl. E01H 5/06 (2006.01) E01H 5/00 (2006.01) E01H 5/04 (2006.01)**
[25] EN
[54] **SNOWPLOW ASSEMBLY AND METHODS OF USE THEREOF**
[54] **ENSEMBLE CHASSE-NEIGE ET SES PROCEDES D'UTILISATION**
[72] WISEBROD, RAPHI, CA
[71] RUFF STUFF INC, CA
[85] 2023-01-25
[86] 2021-07-27 (PCT/IB2021/056823)
[87] (WO2022/023981)
[30] US (63/057,416) 2020-07-28

[21] **3,190,230**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 17/06 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **METHOD OF TREATING PSORIASIS IN PEDIATRIC SUBJECTS WITH ANTI-IL12/IL23 ANTIBODY**
[54] **METHODE DE TRAITEMENT DU PSORIASIS CHEZ DES SUJETS PEDIATRIQUES AVEC UN ANTICORPS ANTI-IL12/IL23**
[72] HSU, MING-CHUN, US
[72] LI, SHU, US
[72] RANDAZZO, BRUCE, US
[72] SONG, KUN, US
[72] ZHU, YAOWEI, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-01-25
[86] 2021-07-30 (PCT/IB2021/056975)
[87] (WO2022/024065)
[30] US (63/058,966) 2020-07-30

Demandes PCT entrant en phase nationale

[21] **3,190,232**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A61B 5/024 (2006.01) A61B 5/1455 (2006.01) A62B 18/02 (2006.01) A62B 18/08 (2006.01)**

[25] EN

[54] **ADAPTIVE PERSONAL PROTECTIVE FACIAL GARMENTS AND METHODS OF OPERATING THE SAME**

[54] **VETEMENTS FACIAUX DE PROTECTION PERSONNELS ADAPTATIFS ET LEURS PROCEDES DE FONCTIONNEMENT**

[72] CHAHINE, TONY, CA
[72] ALIZADEH-MEGHRAZI, MILAD, CA
[72] EDELMAN, GODFRIED GYSBRECHT, CA
[72] ESKANDARIAN, LADAN, CA
[72] PERSIC, JOHN, CA
[72] GOLMOHAMMADI ROSTAMI, SAHAR, CA
[71] MYANT INC., CA
[85] 2023-01-26
[86] 2021-07-28 (PCT/CA2021/051062)
[87] (WO2022/020957)
[30] US (63/058,959) 2020-07-30
[30] US (63/085,841) 2020-09-30

[21] **3,190,233**
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01) C08L 23/04 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **ETHYLENE INTERPOLYMERS CATALYZED USING MIXED HOMOGENEOUS CATALYST FORMULATIONS**

[54] **INTERPOLYMERES D'ETHYLENE CATALYSES A L'AIDE DE FORMULATIONS DE CATALYSEUR HOMOGENE MELANGEES**

[72] KONAGANTI, VINOD, CA
[72] GOYAL, SHIVENDRA, CA
[72] KASIRI, SEPIDEH, CA
[72] GILLON, BRONWYN, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2023-01-25
[86] 2021-10-06 (PCT/IB2021/059182)
[87] (WO2022/074590)
[30] US (63/089,204) 2020-10-08

[21] **3,190,235**
[13] A1

[51] **Int.Cl. A47G 7/00 (2006.01) F24F 1/035 (2019.01) F24F 8/108 (2021.01) A01G 9/02 (2018.01)**

[25] EN

[54] **AIR PURIFIER WITH PLANT POT**

[54] **PURIFICATEUR D'AIR AVEC POT POUR PLANTE**

[72] GRAY, BRENT, CA
[72] MORAND, MICHEL, CA
[72] CAVALIE, GUILLAUME, CA
[71] DUPRAY VENTURES INC., CA
[85] 2023-01-26
[86] 2021-09-22 (PCT/CA2021/051319)
[87] (WO2022/061454)
[30] US (63/081,373) 2020-09-22

[21] **3,190,236**
[13] A1

[51] **Int.Cl. B05D 1/36 (2006.01) C09D 7/61 (2018.01) B05D 3/00 (2006.01) B05D 3/10 (2006.01) B05D 5/06 (2006.01) B05D 7/14 (2006.01) B05D 7/24 (2006.01) C09D 201/00 (2006.01)**

[25] EN

[54] **METHOD OF FORMING MULTI-LAYER COATING FILM**

[54] **PROCEDE DE FORMATION DE FILM DE REVETEMENT MULTICOUCHE**

[72] TERADA, KAISEI, JP
[72] MURATA, HIROSHI, JP
[71] KANSAI PAINT CO., LTD., JP
[85] 2023-01-25
[86] 2021-07-27 (PCT/JP2021/027777)
[87] (WO2022/025070)
[30] JP (2020-128623) 2020-07-29

[21] **3,190,239**
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01)**

[25] EN

[54] **IMPLANTATION SYSTEM AND ADD-ON ELEMENT FOR AN IMPLANTATION SYSTEM**

[54] **SYSTEME D'IMPLANTATION ET ELEMENT COMPLEMENTAIRE DESTINE A UN SYSTEME D'IMPLANTATION**

[72] ZASTROW, FRANK, DE
[71] ZASTROW, FRANK, DE
[85] 2023-01-26
[86] 2021-07-26 (PCT/DE2021/200098)
[87] (WO2022/022787)
[30] DE (10 2020 209 688.0) 2020-07-31

[21] **3,190,240**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01)**

[25] EN

[54] **CONTROL SYSTEM OF UNMANNED VEHICLE, UNMANNED VEHICLE, AND METHOD OF CONTROLLING UNMANNED VEHICLE**

[54] **SYSTEME DE COMMANDE DE VEHICULE SANS CONDUCTEUR, VEHICULE SANS CONDUCTEUR ET PROCEDE DE COMMANDE DE VEHICULE SANS CONDUCTEUR**

[72] SASAKI, SHUN, JP
[71] KOMATSU LTD., JP
[85] 2022-12-21
[86] 2021-05-24 (PCT/JP2021/019616)
[87] (WO2022/024522)
[30] JP (2020-128167) 2020-07-29

[21] **3,190,242**
[13] A1

[51] **Int.Cl. A47L 13/12 (2006.01) A47L 13/255 (2006.01)**

[25] EN

[54] **CLEANING ELEMENT**

[54] **ELEMENT DE NETTOYAGE**

[72] THYSON, DIANA, DE
[72] CHMEL, VACLAV, CZ
[72] DURI, LUKAS, CZ
[72] AMBARDEKAAR, SANDEEP, DE
[71] CARL FREUDENBERG KG, DE
[85] 2023-01-26
[86] 2021-07-02 (PCT/EP2021/068298)
[87] (WO2022/022945)
[30] DE (10 2020 120 153.2) 2020-07-30

[21] **3,190,243**
[13] A1

[51] **Int.Cl. A61K 31/4995 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 487/08 (2006.01)**

[25] EN

[54] **AMINOPYRIMIDINYL DERIVATIVES**

[54] **DERIVES D'AMINOPYRIMIDINYLE**

[72] GERSTENBERGER, BRIAN STEPHEN, US
[72] JIAO, WENHUA, US
[72] LALL, MANJINDER SINGH, US
[72] LIRA, RICARDO, US
[72] SCHNUTE, MARK EDWARD, US
[71] PFIZER INC., US
[85] 2022-12-28
[86] 2021-06-30 (PCT/IB2021/055851)
[87] (WO2022/003583)
[30] US (63/047,606) 2020-07-02

PCT Applications Entering the National Phase

[21] **3,190,245**
[13] A1

[51] **Int.Cl. C02F 11/13 (2019.01) C02F 11/14 (2019.01) C10B 53/00 (2006.01) F23G 7/00 (2006.01)**

[25] EN

[54] **METHOD AND TREATMENT FACILITY FOR THE PHYSICAL AND THERMOCHEMICAL TREATMENT OF BIOMASS**

[54] **PROCEDE ET INSTALLATION DE TRAITEMENT POUR REALISER LE TRAITEMENT PHYSIQUE ET THERMOCHEMIQUE DE BIOMASSE**

[72] HACKL, ANDREAS, AT

[71] NEXT GENERATION ELEMENTS GMBH, AT

[85] 2023-01-26

[86] 2021-08-09 (PCT/AT2021/060276)

[87] (WO2022/032317)

[30] AT (A50670/2020) 2020-08-10

[30] AT (A51129/2020) 2020-12-22

[21] **3,190,248**
[13] A1

[51] **Int.Cl. E03F 1/00 (2006.01) E03F 5/10 (2006.01) E03F 7/10 (2006.01)**

[25] EN

[54] **SEMI-AQUEOUS METHOD FOR EXTRACTING A SUBSTANCE**

[54] **PROCEDE SEMI-AQUEUX D'EXTRACTION D'UNE SUBSTANCE**

[72] JACKSON, DAVID, P., US

[72] JACKSON, MACKENZLE, A., US

[72] LEE, JOHN, J., US

[71] CLEAN IMAGINEERING LLC, US

[85] 2023-01-09

[86] 2021-07-09 (PCT/US2021/041190)

[87] (WO2022/011322)

[30] US (63/050,307) 2020-07-10

[30] US (63/212,254) 2021-06-18

[21] **3,190,250**
[13] A1

[51] **Int.Cl. B28B 5/02 (2006.01) B28B 5/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR CONTINUOUSLY CASTING A MEMBER FROM A SETTABLE MATERIAL**

[54] **APPAREIL ET PROCEDE POUR LA COULEE EN CONTINU D'UNE PIECE A PARTIR D'UN MATERIAU DURCISSABLE**

[72] NORRIS, JOSEPH, AU

[72] MCDONALD, RODERICK, AU

[71] NORRIS, JOSEPH, AU

[71] MCDONALD, RODERICK, AU

[85] 2023-01-26

[86] 2021-07-29 (PCT/AU2021/050828)

[87] (WO2022/020899)

[30] AU (2020902663) 2020-07-29

[21] **3,190,251**
[13] A1

[51] **Int.Cl. A47F 11/10 (2006.01)**

[25] EN

[54] **DISPLAY DEVICE FOR ILLUMINATING PACKAGED BEVERAGES**

[54] **DISPOSITIF D'AFFICHAGE POUR ECLAIRER DES BOISSONS CONDITIONNEES**

[72] JAIN, SANDEEP, IN

[72] BHUTANI, GURMEET SINGH, IN

[71] PEPSICO, INC., US

[85] 2023-01-09

[86] 2021-07-15 (PCT/US2021/041851)

[87] (WO2022/015996)

[30] IN (202041030501) 2020-07-17

[21] **3,190,252**
[13] A1

[51] **Int.Cl. A61B 18/12 (2006.01) A61B 34/30 (2016.01) A61B 34/37 (2016.01) A61B 90/98 (2016.01) A61B 18/18 (2006.01)**

[25] EN

[54] **MODULAR APPARATUS FOR ROBOT-ASSISTED ELECTROSURGERY**

[54] **APPAREIL MODULAIRE POUR ELECTROCHIRURGIE ASSISTEE PAR ROBOT**

[72] HANCOCK, CHRISTOPHER PAUL, GB

[72] MEADOWCROFT, SIMON, GB

[72] BISHOP, JOHN, GB

[72] ULLRICH, GEORGE CHRISTIAN, GB

[71] CREO MEDICAL LIMITED, GB

[85] 2023-01-26

[86] 2021-07-14 (PCT/EP2021/069652)

[87] (WO2022/028837)

[30] GB (2012303.0) 2020-08-07

[21] **3,190,253**
[13] A1

[51] **Int.Cl. A61B 17/32 (2006.01) A61B 17/88 (2006.01)**

[25] EN

[54] **ORTHOPAEDIC CEMENT REMOVAL TOOLS**

[54] **OUTILS D'ELIMINATION DE CIMENT ORTHOPEDIQUE**

[72] BADCOTT, SEAN MARTIN, GB

[72] YOUNG, STEPHEN MICHAEL RADLEY, GB

[71] RADLEY SCIENTIFIC LIMITED, GB

[85] 2023-01-26

[86] 2021-07-26 (PCT/GB2021/000085)

[87] (WO2022/023689)

[30] GB (2011627.3) 2020-07-27

[21] **3,190,255**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **HUMANIZED MOUSE MODELS FOR SARS-COV-2 INFECTION**

[54] **MODELES HUMANISES DE SOURIS POUR L'INFECTION PAR LE SARS-COV-2**

[72] SHULTZ, LEONARD D., US

[71] THE JACKSON LABORATORY, US

[85] 2023-01-13

[86] 2021-07-14 (PCT/US2021/041568)

[87] (WO2022/015813)

[30] US (63/052,260) 2020-07-15

Demandes PCT entrant en phase nationale

[21] **3,190,256**
[13] A1

[51] **Int.Cl. F24B 1/14 (2021.01) F23B 90/04 (2011.01) A47J 37/07 (2006.01) F23B 40/00 (2006.01) F23B 80/00 (2006.01) F24B 5/02 (2006.01)**

[25] EN
[54] **PELLET-FIRED HEATING SYSTEMS AND APPLIANCES**
[54] **SYSTEMES ET APPAREILS DE CHAUFFAGE A GRANULES**

[72] SCOTT, JIM, CA
[71] CANADIAN TIRE CORPORATION, LIMITED, CA
[85] 2023-01-27
[86] 2020-07-30 (PCT/CA2020/051045)
[87] (WO2022/020931)

[21] **3,190,258**
[13] A1

[51] **Int.Cl. A61P 1/16 (2006.01) C07D 263/44 (2006.01) C07D 277/34 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01) C07D 417/10 (2006.01)**

[25] EN
[54] **COMPOUNDS AND METHODS OF MODULATING 17.BETA.-HYDROXYSTEROID DEHYDROGENASE TYPE 13**
[54] **COMPOSES ET PROCEDES DE MODULATION DE LA 17.BETA.-HYDROXYSTEROIDE DESHYDROGENASE DE TYPE 13**

[72] DA SILVA JARDINE, PAUL, US
[72] DEWEY, FREDERICK, US
[72] HOFFMAN, JOSHUA, US
[71] METREA BIOSCIENCES, INC., US
[85] 2023-01-26
[86] 2021-08-18 (PCT/US2021/046519)
[87] (WO2022/040324)
[30] US (63/067,094) 2020-08-18

[21] **3,190,259**
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61K 31/7016 (2006.01) A61P 3/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN
[54] **PRODUCTS FOR TREATING THE JNCL DISEASE**
[54] **PRODUITS POUR LE TRAITEMENT DE LA MALADIE DE CEROIDE-LIPOFUSCINOSE NEURONALE JUVENILE (JNCL)**

[72] KERKOVICH, DANIELLE, US
[72] WALLER-EVANS, HELEN, GB
[72] LLOYD-EVANS, EMYR, GB
[72] AMAWI, ABDALLAH, US
[72] LOFTI, PARISA, US
[72] SARDIELLO, MARCO, US
[71] BEYOND BATTEN DISEASE FOUNDATION, US
[71] BAYLOR COLLEGE OF MEDECINE, US
[71] UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, GB
[85] 2023-01-26
[86] 2021-07-30 (PCT/EP2021/071501)
[87] (WO2022/023573)
[30] EP (20188648.8) 2020-07-30

[21] **3,190,260**
[13] A1

[51] **Int.Cl. C02F 1/78 (2006.01)**

[25] EN
[54] **METHOD OF WATER TREATMENT AND TREATED WATER PRODUCED THEREBY**
[54] **PROCEDE DE TRAITEMENT DES EAUX ET EAUX TRAITEES AINSI PRODUITES**

[72] NAHAS, RICHARD, CA
[71] NAHAS, RICHARD, CA
[85] 2023-01-27
[86] 2021-07-29 (PCT/CA2021/051063)
[87] (WO2022/020958)
[30] US (63/058,009) 2020-07-29

[21] **3,190,261**
[13] A1

[51] **Int.Cl. A01N 37/02 (2006.01) A01N 59/00 (2006.01) A23L 3/3508 (2006.01) C02F 1/50 (2006.01)**

[25] EN
[54] **METHOD FOR CONTROLLING MICROBIAL GROWTH IN SUGAR PROCESSING**
[54] **PROCEDE DE REGULATION DE LA CROISSANCE MICROBIENNE DANS LE TRAITEMENT DU SUCRE**

[72] SCHOENFELDER, CARL, US
[72] CUMMING, SCOTT K., US
[71] HYDRITE CHEMICAL CO., US
[85] 2023-01-26
[86] 2021-07-30 (PCT/US2021/043995)
[87] (WO2022/081236)
[30] US (63/059,741) 2020-07-31

[21] **3,190,264**
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/53 (2020.01) A24F 40/65 (2020.01)**

[25] EN
[54] **METHOD FOR OPERATING AN ELECTRONIC VAPOR GENERATION DEVICE**
[54] **PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF DE GENERATION DE VAPEUR ELECTRONIQUE**

[72] GOCH, MICHAEL, DE
[72] MEDIC, MARKO, DE
[71] XEOTECH GMBH, DE
[85] 2023-01-27
[86] 2020-07-31 (PCT/EP2020/071686)
[87] (WO2021/019080)
[30] DE (10 2019 120 851.3) 2019-08-01

PCT Applications Entering the National Phase

[21] **3,190,265**
[13] A1

[51] **Int.Cl. H04N 19/129 (2014.01) H04N 19/132 (2014.01) H04N 19/134 (2014.01) H04N 19/176 (2014.01) H04N 19/182 (2014.01) H04N 19/46 (2014.01) H04N 19/597 (2014.01)**

[25] EN

[54] **PACKING OF VIEWS FOR IMAGE OR VIDEO CODING**

[54] **CONDITIONNEMENT DE VUES POUR CODAGE D'IMAGE OU VIDEO**

[72] BRULS, WILHELMUS HENDRIKUS ALFONSUS, NL

[71] KONINKLIJKE PHILIPS N.V., NL

[85] 2023-01-27

[86] 2021-07-26 (PCT/EP2021/070767)

[87] (WO2022/023227)

[30] EP (20188843.5) 2020-07-31

[21] **3,190,266**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01)**

[25] EN

[54] **IMMUNE CELLS DEFECTIVE FOR SOCS1**

[54] **CELLULES IMMUNITAIRES DEFECTIVES EN SOCS1**

[72] MENGER, LAURIE, FR

[72] MENEGATTI, SILVIA, FR

[72] AMIGORENA, SEBASTIAN, FR

[71] INSTITUT CURIE, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[85] 2023-01-26

[86] 2021-07-30 (PCT/EP2021/071504)

[87] (WO2022/023576)

[30] EP (20305878.9) 2020-07-30

[21] **3,190,268**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 37/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **COMPOUNDS**

[54] **COMPOSES**

[72] CONNON, STEPHEN, IE

[72] FEARON, URSULA, IE

[72] KELLY, VINCENT, IE

[72] SOUTHERN, JOHN, IE

[71] THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, AND THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN, IE

[85] 2023-01-27

[86] 2021-07-28 (PCT/EP2021/071185)

[87] (WO2022/023433)

[30] GB (2011812.1) 2020-07-29

[21] **3,190,271**
[13] A1

[51] **Int.Cl. G01R 15/24 (2006.01)**

[25] EN

[54] **MAGNETO-OPTIC CURRENT TRANSFORMER AND METHOD FOR DETECTING A CURRENT INTENSITY**

[54] **TRANSFORMATEUR DE COURANT MAGNETO-OPTIQUE ET PROCEDE DE MESURE D'INTENSITE DE COURANT**

[72] CANAS, FEDERICO, DE

[72] JUDENDORFER, THOMAS, DE

[72] SCHUBERTH, STEFAN, DE

[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE

[85] 2023-01-27

[86] 2021-07-28 (PCT/EP2021/071207)

[87] (WO2022/023445)

[30] DE (10 2020 209 699.6) 2020-07-31

[21] **3,190,272**
[13] A1

[51] **Int.Cl. A61G 7/10 (2006.01)**

[25] EN

[54] **DRIVE SYSTEM FOR PATIENT LIFT**

[54] **SYSTEME D'ENTRAINEMENT POUR DISPOSITIF DE LEVAGE DE PATIENT**

[72] BOSSE, JOEL, CA

[71] ARJO IP HOLDING AKTIEBOLAG, SE

[85] 2023-01-26

[86] 2021-08-16 (PCT/EP2021/072703)

[87] (WO2022/038084)

[30] SE (2050957-6) 2020-08-17

[21] **3,190,274**
[13] A1

[51] **Int.Cl. C01B 32/00 (2017.01) C01B 32/05 (2017.01) C09C 1/48 (2006.01) C09C 1/56 (2006.01)**

[25] EN

[54] **MODIFIED FINE PARTICULATE CARBON MATERIALS AND METHOD FOR PRODUCING SAME**

[54] **MATIERES CARBONEES PARTICULAIRES FINES MODIFIEES ET LEUR PROCEDE DE PRODUCTION**

[72] WITTMANN, TOBIAS, DE

[72] PODSCHUN, JACOB, DE

[72] LUDER, ULF, DE

[72] SCHMAUCKS, GERD, DE

[71] SUNCOAL INDUSTRIES GMBH, DE

[85] 2023-01-26

[86] 2021-08-26 (PCT/EP2021/073685)

[87] (WO2022/043470)

[30] DE (10 2020 210 801.3) 2020-08-26

Demandes PCT entrant en phase nationale

[21] **3,190,276**
[13] A1

[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/706 (2006.01) A61K 31/708 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **COMBINATION OF A BCL-2 INHIBITOR AND A HYPOMETHYLATING AGENT FOR TREATING CANCERS, USES AND PHARMACEUTICAL COMPOSITIONS THEREOF**

[54] **COMBINAISON D'UN INHIBITEUR DE BCL-2 ET D'UN AGENT HYPOMETHYLANT POUR LE TRAITEMENT DE CANCERS, UTILISATIONS ET COMPOSITIONS PHARMACEUTIQUES ASSOCIEES**

[72] DESSEIN, EMMELYNE, FR

[72] MAHNKE, LISA, US

[71] LES LABORATOIRES SERVIER, FR

[71] NOVARTIS AG, CH

[85] 2023-01-27

[86] 2021-07-30 (PCT/EP2021/071368)

[87] (WO2022/023514)

[30] US (63/059,419) 2020-07-31

[30] EP (20195633.1) 2020-09-11

[21] **3,190,277**
[13] A1

[51] **Int.Cl. A61K 31/4192 (2006.01) A61K 31/422 (2006.01) A61P 25/00 (2006.01) C07D 403/06 (2006.01) C07D 403/14 (2006.01) C07D 413/04 (2006.01) C07D 413/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUNDS**

[54] **COMPOSES HETEROCYCLIQUES**

[72] BENZ, JOERG, CH

[72] GRETHER, UWE, CH

[72] HORNSPERGER, BENOIT, CH

[72] KROLL, CARSTEN, CH

[72] KUHN, BERND, CH

[72] MARTIN, RAINER E., CH

[72] O'HARA, FIONN, CH

[72] PUELLMANN, BERND, CH

[72] RICHTER, HANS, CH

[72] RITTER, MARTIN, CH

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

[85] 2023-01-26

[86] 2021-09-01 (PCT/EP2021/074150)

[87] (WO2022/049134)

[30] EP (20194318.0) 2020-09-03

[21] **3,190,278**
[13] A1

[51] **Int.Cl. A61K 31/185 (2006.01) A61K 31/445 (2006.01) A61K 31/4535 (2006.01) A61K 31/46 (2006.01) A61K 31/473 (2006.01) A61K 31/5377 (2006.01) A61K 31/7135 (2006.01) A61K 38/02 (2006.01) A61K 38/26 (2006.01) A61K 45/06 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **ANTIVIRAL USE OF LIRAGLUTIDE AND GEFITINIB**

[54] **UTILISATION ANTIVIRALE DE LIRAGLUTIDE ET DE GEFITINIB**

[72] PERCO, PAUL, AT

[71] DELTA 4 GMBH, AT

[85] 2023-01-27

[86] 2021-07-30 (PCT/EP2021/071405)

[87] (WO2022/023533)

[30] EP (20188727.0) 2020-07-30

[21] **3,190,279**
[13] A1

[51] **Int.Cl. G16H 20/17 (2018.01)**

[25] EN

[54] **METHOD FOR DISPLAYING A MEDICAL VALUE**

[54] **PROCEDE D'AFFICHAGE D'UNE VALEUR MEDICALE**

[72] MORENO, SANCHEZ MIGUEL ANGEL, AT

[71] F. HOFFMANN-LAROCHE AG, CH

[85] 2023-01-27

[86] 2021-08-02 (PCT/EP2021/071585)

[87] (WO2022/029087)

[30] EP (20189070.4) 2020-08-02

[21] **3,190,280**
[13] A1

[51] **Int.Cl. A61P 31/14 (2006.01) C07K 16/10 (2006.01)**

[25] EN

[54] **SARS-COV-2 ANTIBODIES FOR TREATMENT AND PREVENTION OF COVID-19**

[54] **ANTICORPS ANTI-SARS-COV-2 POUR LE TRAITEMENT ET LA PREVENTION DE LA COVID-19**

[72] GASSER, ROBERT, US

[72] ESSER, MARK, US

[72] MCTAMNEY II, PATRICK, US

[72] LOO, YUEH-MING, US

[72] VARKEY, REENA M., US

[72] DU, QUN, US

[72] STEINHARDT, JAMES, US

[72] RAJAN, SARAVANAN, US

[71] ASTRAZENECA UK LIMITED, GB

[85] 2023-01-27

[86] 2021-08-09 (PCT/EP2021/072203)

[87] (WO2022/034044)

[30] US (63/063,862) 2020-08-10

[30] US (63/112,104) 2020-11-10

[21] **3,190,281**
[13] A1

[51] **Int.Cl. C09D 5/14 (2006.01)**

[25] EN

[54] **RESIN-CONTAINING COMPOSITION WITH ANTIMICROBIAL PROPERTIES, IN PARTICULAR BIOCIDAL PROPERTIES, FOR SURFACE COATINGS ON PAPER LAYERS OR WOOD-BASED PANELS**

[54] **COMPOSITION DE RESINE AYANT DES PROPRIETES ANTIMICROBIENNES, EN PARTICULIER DES PROPRIETES BIOCIDES, POUR DES REVETEMENTS DE SURFACE SUR DES PLIS DE PAPIER OU DES PLANCHES A BASE DE BOIS**

[72] GIER, ANDREAS, DE

[72] HASCH, JOACHIM, DE

[72] KALWA, NORBERT, DE

[71] SWISS KRONO TEC AG, CH

[85] 2023-01-27

[86] 2021-08-25 (PCT/EP2021/073513)

[87] (WO2022/048970)

[30] EP (20194328.9) 2020-09-03

[30] EP (20211912.9) 2020-12-04

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[21] **3,190,282**
[13] A1

[51] **Int.Cl. C12P 7/04 (2006.01) C12P 7/46 (2006.01) C12P 7/52 (2006.01) C12P 7/54 (2006.01) C12P 7/56 (2006.01) C12P 19/14 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING A SUGAR SYRUP FROM A RESIDUAL LIGNOCELLULOSIC BIOMASS**

[54] **PROCEDE DE PRODUCTION D'UN SIROP DE SUCRES A PARTIR D'UNE BIOMASSE LIGNOCELLULOSIQUE RESIDUAIRE**

[72] PERCHERON, BENJAMIN, FR

[71] SUEZ INTERNATIONAL, FR

[85] 2023-01-27

[86] 2021-07-30 (PCT/FR2021/051432)

[87] (WO2022/023686)

[30] FR (FR2008205) 2020-07-31

[21] **3,190,284**
[13] A1

[51] **Int.Cl. A61B 5/097 (2006.01) A61M 16/20 (2006.01)**

[25] EN

[54] **A MODULAR MOUTHPIECE**

[54] **EMBOUT BUCCAL MODULAIRE**

[72] BREJL, STIG LYTKE, GB

[72] YTTERVIK, ROGER, GB

[71] EXHALATION TECHNOLOGY LIMITED, GB

[85] 2023-01-27

[86] 2021-07-28 (PCT/GB2021/051944)

[87] (WO2022/023743)

[30] GB (2011756.0) 2020-07-29

[21] **3,190,285**
[13] A1

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

[25] EN

[54] **P53 POST-TRANSLATIONAL MODIFICATIONS AS MARKERS IN THE DIAGNOSIS AND PROGNOSIS OF A NEURODEGENERATIVE DISEASE**

[54] **MODIFICATIONS POST-TRADUCTION P53 EN TANT QUE MARQUEURS DE DIAGNOSTIC ET DE PRONOSTIC D'UNE MALADIE NEURODEGENERATIVE**

[72] PICCIRELLA, SIMONA, IT

[72] UBERTI, DANIELA LETIZIA, IT

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

[85] 2023-01-27

[86] 2021-07-27 (PCT/IB2021/056792)

[87] (WO2022/023964)

[30] IT (10202000018544) 2020-07-30

[21] **3,190,287**
[13] A1

[51] **Int.Cl. A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01) C07D 491/048 (2006.01) C07D 491/10 (2006.01) C07D 498/04 (2006.01) C07D 498/10 (2006.01)**

[25] EN

[54] **ANTAGONIST COMPOUNDS**

[54] **COMPOSES ANTAGONISTES**

[72] MCCARTHY, CLIVE, GB

[72] MOULTON, BEN, GB

[72] WALKER, EDWARD RICHARD, GB

[72] MCMAHON, PEARL SIOBHAN, GB

[71] ADORX THERAPEUTICS LIMITED, GB

[85] 2023-01-27

[86] 2021-07-30 (PCT/GB2021/051984)

[87] (WO2022/023772)

[30] GB (2011996.2) 2020-07-31

[21] **3,190,289**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/015 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **COMPOSITION AND METHOD**

[54] **COMPOSITION ET PROCEDE**

[72] FRANKLIN, ROBIN J M, GB

[72] NEUMANN, BJORN, GB

[72] SEGEL, MICHAEL, GB

[72] YOUNG, ADAM, GB

[71] CAMBRIDGE ENTERPRISE LIMITED, GB

[85] 2023-01-27

[86] 2021-07-30 (PCT/GB2021/051985)

[87] (WO2022/023773)

[30] GB (2011871.7) 2020-07-30

[21] **3,190,295**
[13] A1

[51] **Int.Cl. H04W 76/00 (2018.01) H04W 52/38 (2009.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DYNAMIC WIRELESS CONNECTION MANAGEMENT**

[54] **PROCEDE ET SYSTEME POUR LA GESTION DYNAMIQUE DES CONNECTIONS SANS FIL**

[72] KENNEDY, JOHN C., US

[72] KOPCHINSKY, SCOTT, US

[72] SON, DON, US

[72] FIELDS, JACOB, US

[72] GARCIA, HUGO, US

[72] STORY, DAVID, US

[72] LILAVOIS, PATRICK, US

[72] BARROS, JAIRO, US

[71] PLATFORM SCIENCE, INC., US

[85] 2023-01-27

[86] 2021-07-25 (PCT/US2021/043096)

[87] (WO2022/026344)

[30] US (63/058,460) 2020-07-29

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[21] **3,190,296**
[13] A1

[51] **Int.Cl. F17C 3/08 (2006.01)**
[25] EN
[54] **LONG HEAT PATH SUPPORT STRUCTURE**
[54] **STRUCTURE DE SUPPORT A LONG TRAJET DE CHALEUR**
[72] MANN, CHRISTOPHER MARK, GB
[72] TAYLOR, TOM RICHARD, GB
[72] MANN, LUKE JAMES, GB
[72] BRADSHAW, THOMAS WILLIAM, GB
[71] BENNAMANN SERVICES LTD, GB
[85] 2023-01-27
[86] 2021-08-16 (PCT/IB2021/057535)
[87] (WO2022/038495)
[30] US (63/066,544) 2020-08-17

[21] **3,190,297**
[13] A1

[51] **Int.Cl. C08G 63/00 (2006.01) C08K 3/013 (2018.01) C08G 63/02 (2006.01) C08G 63/08 (2006.01) C08K 3/00 (2018.01) C08K 3/26 (2006.01) C08K 5/00 (2006.01) C08L 67/00 (2006.01) C08L 67/04 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **BIOBASED MATERIAL FOR CONSUMER GOODS PACKAGING**
[54] **MATERIAU D'ORIGINE BIOLOGIQUE POUR EMBALLAGE DE BIENS DE CONSOMMATION**
[72] JOHNSON, ADAM, US
[72] SAMANTA, SATYABRATA, US
[71] MEREDIAN, INC., US
[85] 2023-01-27
[86] 2021-07-26 (PCT/US2021/043136)
[87] (WO2022/026362)
[30] US (63/058,563) 2020-07-30

[21] **3,190,300**
[13] A1

[51] **Int.Cl. A61B 17/62 (2006.01) A61B 90/96 (2016.01) A61B 17/56 (2006.01) A61B 17/64 (2006.01) A61B 17/66 (2006.01)**
[25] EN
[54] **DETACHABLE MOTOR**
[54] **MOTEUR AMOVIBLE**
[72] HARARI, SHAHAR, IL
[72] COHEN, OREN, IL
[71] SYNTHES GMBH, CH
[85] 2023-01-27
[86] 2021-07-29 (PCT/IL2021/050922)
[87] (WO2022/024133)
[30] US (63/058,686) 2020-07-30

[21] **3,190,301**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61K 45/06 (2006.01) A61P 3/10 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY FOR CANCER**
[54] **POLYTHEAPIE CONTRE LE CANCER**
[72] MORSER, MICHAEL J., US
[72] LEUNG, LAWRENCE L.K., US
[72] MYLES, TIMOTHY, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[85] 2023-01-27
[86] 2021-07-26 (PCT/US2021/043197)
[87] (WO2022/026398)
[30] US (63/059,673) 2020-07-31

[21] **3,190,303**
[13] A1

[51] **Int.Cl. G06F 16/2457 (2019.01) G06F 16/248 (2019.01) G06F 16/9535 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ADDRESSING DISINFORMATION**
[54] **SYSTEME ET PROCEDE D'ADRESSAGE DE DESINFORMATION**
[72] SEHREMELIS, GEORGE, US
[71] OVERLOOKED, INC., US
[85] 2023-01-27
[86] 2021-07-26 (PCT/US2021/043229)
[87] (WO2022/026416)
[30] US (63/057,171) 2020-07-27

[21] **3,190,304**
[13] A1

[51] **Int.Cl. A41D 19/00 (2006.01) A41D 19/01 (2006.01) A41D 19/015 (2006.01)**
[25] EN
[54] **EASY-ON GLOVE**
[54] **GANT FACILE A ENFILER**
[72] ARCHIBALD, DANIEL PATRICK, US
[71] ARCHIBALD, DANIEL PATRICK, US
[85] 2023-01-27
[86] 2021-07-26 (PCT/US2021/043235)
[87] (WO2022/026421)
[30] US (63/056,719) 2020-07-27
[30] US (17/443,331) 2021-07-25

[21] **3,190,306**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2023.01) G06F 12/00 (2006.01) G06Q 40/00 (2023.01)**
[25] EN
[54] **ENVIRONMENTAL, SOCIAL, AND GOVERNANCE (ESG) PERFORMANCE TRENDS**
[54] **TENDANCES DE PERFORMANCES ENVIRONNEMENTALES, SOCIALES ET DE GOUVERNANCE (ESG)**
[72] LALIT, HARSHAD, US
[72] CLARK, CASEY COLLINS, US
[71] ROCKEFELLER & CO. LLC, US
[85] 2023-01-27
[86] 2021-07-27 (PCT/US2021/043263)
[87] (WO2022/026433)
[30] US (63/057,221) 2020-07-27

[21] **3,190,307**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **PROTEINS COMPRISING HLA-G ANTIGEN BINDING DOMAINS AND THEIR USES**
[54] **PROTEINES COMPRENANT DES DOMAINES DE LIAISON A L'ANTIGENE HLA-G ET LEURS UTILISATIONS**
[72] OBERMAJER, NATASA, BE
[72] ZWOLAK, ADAM, US
[72] LAQUERRE, SYLVIE, US
[72] BREHMER, DIRK, BE
[72] DE LANGE, DESIREE, BE
[72] HASLER, JULIEN, BE
[72] VERSMISSEN, SHANA, BE
[72] PETLEY, THEODORE D., US
[72] VAN DE VEN, KELLY, BE
[72] YI, FANG, US
[72] SINGH, SANJAYA, US
[72] GANESAN, RAJKUMAR, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-01-27
[86] 2021-07-29 (PCT/IB2021/056909)
[87] (WO2022/024024)
[30] US (63/057,960) 2020-07-29

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[21] **3,190,310**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/519 (2006.01) A61K 47/04 (2006.01) A61K 47/12 (2006.01) A61P 27/02 (2006.01)**

[25] EN
[54] **AQUEOUS COMPOSITION**
[54] **COMPOSITION AQUEUSE**
[72] KUBO, OZORA, JP
[72] HAYASHI, SAEKO, JP
[72] KITA, AKIKO, JP
[71] ROHTO PHARMACEUTICAL CO., LTD., JP
[85] 2023-01-27
[86] 2021-07-30 (PCT/JP2021/028439)
[87] (WO2022/025279)
[30] JP (2020-129728) 2020-07-30

[21] **3,190,313**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/519 (2006.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61P 27/02 (2006.01)**

[25] EN
[54] **AQUEOUS COMPOSITION**
[54] **COMPOSITION AQUEUSE**
[72] KUBO, OZORA, JP
[72] HAYASHI, SAEKO, JP
[72] KITA, AKIKO, JP
[71] ROHTO PHARMACEUTICAL CO., LTD., JP
[85] 2023-01-27
[86] 2021-07-30 (PCT/JP2021/028441)
[87] (WO2022/025281)
[30] JP (2020-129730) 2020-07-30

[21] **3,190,314**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61M 11/02 (2006.01) A61M 15/00 (2006.01) A61M 15/08 (2006.01) B05B 1/04 (2006.01) B05B 1/32 (2006.01)**

[25] EN
[54] **DEVICE FOR DELIVERY OF A COMPOUND TO SPECIFIC REGIONS OF THE NASAL CAVITY**
[54] **DISPOSITIF D'ADMINISTRATION D'UN COMPOSE A DES REGIONS SPECIFIQUES DE LA CAVITE NASALE**
[72] COOPER, ANDREW ROBERT, US
[72] BLATCHFORD, CHRISTOPHER GEORGE, US
[72] HOWGILL, STEPHEN, US
[72] GAVTASH, BARZIN, US
[72] MYATT, BENJAMIN JAMES, US
[72] VERSTEEG, HENDRIK, US
[72] WARD, KERRY, US
[72] HODGES, LEE MICHAEL, US
[72] APOOLA, SAM OLADELE, US
[72] BUNTING, JOHN PAUL, US
[71] KINDEVA DRUG DELIVERY L.P., US
[71] COOPER, ANDREW ROBERT, US
[71] BLATCHFORD, CHRISTOPHER GEORGE, US
[71] HOWGILL, STEPHEN, US
[71] GAVTASH, BARZIN, US
[71] MYATT, BENJAMIN JAMES, US
[71] VERSTEEG, HENDRIK, US
[71] WARD, KERRY, US
[71] HODGES, LEE MICHAEL, US
[71] APOOLA, SAM OLADELE, US
[71] BUNTING, JOHN PAUL, US
[85] 2023-01-27
[86] 2021-07-28 (PCT/US2021/043424)
[87] (WO2022/026528)
[30] GB (2011729.7) 2020-07-29

[21] **3,190,315**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G10H 1/00 (2006.01)**

[25] EN
[54] **LATENT-SPACE REPRESENTATIONS OF AUDIO SIGNALS FOR CONTENT-BASED RETRIEVAL**
[54] **REPRESENTATIONS D'ESPACE LATENT DE SIGNAUX AUDIO POUR UNE RECUPERATION BASEE SUR UN CONTENU**
[72] KORETZKY, ALEJANDRO, US
[72] RAJASHEKHARAPPA, NAVEEN SASALU, US
[71] DISTRIBUTED CREATION INC., US
[85] 2023-01-27
[86] 2021-07-28 (PCT/US2021/043427)
[87] (WO2022/026529)
[30] US (16/942,410) 2020-07-29

[21] **3,190,320**
[13] A1

[51] **Int.Cl. C07K 1/22 (2006.01) C07K 14/71 (2006.01) C07K 14/715 (2006.01)**

[25] EN
[54] **HETERODIMERIC FC FUSION PROTEIN, AND COMPOSITION, USE, AND METHOD RELATED TO SAME**
[54] **PROTEINE DE FUSION FC HETERODIMERE, ET COMPOSITION, UTILISATION ET PROCEDE ASSOCIES**
[72] CHOI, EUN SHIK, KR
[72] PARK, HYUN KYU, KR
[71] MEDYTOX INC., KR
[85] 2023-01-27
[86] 2021-07-28 (PCT/KR2021/009835)
[87] (WO2022/025643)
[30] KR (10-2020-0094232) 2020-07-29

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[21] **3,190,321**
[13] A1

[51] **Int.Cl. A61B 5/1486 (2006.01) A61B 5/1495 (2006.01)**
[25] EN
[54] **SENSOR IDENTIFICATION AND INTEGRITY CHECK DESIGN**
[54] **CONCEPTION DE CONTROLE D'INTEGRITE ET D'IDENTIFICATION DE CAPTEUR**
[72] CHOY, DAVID YUEH-HUA, US
[72] GARAI, ELLIS, US
[72] TSANG, MELISSA, US
[72] PATEL, ANUJ M., US
[71] MEDTRONIC MINIMED, INC., US
[85] 2023-01-27
[86] 2021-07-28 (PCT/US2021/043443)
[87] (WO2022/026542)
[30] US (16/944,450) 2020-07-31

[21] **3,190,322**
[13] A1

[51] **Int.Cl. A23G 9/04 (2006.01)**
[25] EN
[54] **FROZEN PRODUCT MACHINE**
[54] **MACHINE A PRODUITS GLACES**
[72] SPRINGER, LINDSAY, US
[72] SUSZ, ROBERT J., US
[72] DUDENHOEFFER, RAY, US
[72] PARK, DONKEUN, US
[72] PARK, DON, YUHONG, US
[72] GLUCKSMAN, DOV, US
[71] STEUBEN FOODS, INC., US
[85] 2023-01-27
[86] 2021-07-28 (PCT/US2021/043562)
[87] (WO2022/026617)
[30] US (63/057,781) 2020-07-28
[30] US (17/387,839) 2021-07-28

[21] **3,190,324**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) A61K 35/17 (2015.01) A61K 38/00 (2006.01) A61P 35/00 (2006.01) C07K 14/435 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **SYNTHETIC OLIGOMERIZATION SYSTEMS FOR CELL ENGINEERING AND THERAPY**
[54] **SYSTEMES D'OLIGOMERISATION SYNTHETIQUES POUR L'INGENIERIE ET LA THERAPIE CELLULAIRE**
[72] QI, LEI S., US
[72] CHAVEZ, MICHAEL, US
[72] FINN, PAUL B., US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2023-01-27
[86] 2021-07-28 (PCT/US2021/043563)
[87] (WO2022/026618)
[30] US (63/058,466) 2020-07-29

[21] **3,190,325**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 38/00 (2006.01) A61K 38/17 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **STABLE PHARMACEUTICAL PREPARATION**
[54] **PREPARATION PHARMACEUTIQUE STABLE**
[72] KIM, SU JUNG, KR
[72] KIM, KWANG WOO, KR
[72] ROH, JI WON, KR
[72] SHIN, YEON KYEONG, KR
[72] OH, JUN SEOK, KR
[72] LEE, JAE BIN, KR
[72] HAN, WON YONG, KR
[71] CELLTRION INC., KR
[85] 2023-01-27
[86] 2021-07-29 (PCT/KR2021/009870)
[87] (WO2022/025660)
[30] KR (10-2020-0096434) 2020-07-31

[21] **3,190,327**
[13] A1

[51] **Int.Cl. B01D 21/00 (2006.01)**
[25] EN
[54] **TENSIONER FOR LAMELLA SETTLER**
[54] **TENDEUR POUR DECANTEUR LAMELLAIRE**
[72] DOMINGUEZ MADEIRA, SALVADOR, US
[72] SUDAK, MATTHEW, US
[71] XYLEM WATER SOLUTIONS ZELIENOPLE LLC, US
[85] 2023-01-27
[86] 2021-07-29 (PCT/US2021/043693)
[87] (WO2022/026702)
[30] US (63/059,357) 2020-07-31
[30] US (17/386,999) 2021-07-28

[21] **3,190,328**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD93 CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS ANTI-CD93 ET LEURS UTILISATIONS**
[72] CHEN, ZIRONG, US
[72] GUERRETTE, ROXANN, US
[72] JONES, GREGORY, US
[72] KOMABA, SHIGERU, US
[72] LI, JIAN, US
[72] NORTON, ANGELA, US
[72] WU, LIHUA, US
[72] XIA, ZHINAN, US
[71] DYNAMICURE BIOTECHNOLOGY LLC, US
[85] 2023-01-27
[86] 2021-07-29 (PCT/US2021/043784)
[87] (WO2022/026763)
[30] US (63/058,359) 2020-07-29
[30] US (63/084,474) 2020-09-28
[30] US (PCT/US2021/035542) 2021-06-02

PCT Applications Entering the National Phase

[21] **3,190,333**
[13] A1

[51] **Int.Cl. C21C 5/52 (2006.01) F27B 3/26 (2006.01) F27D 17/00 (2006.01)**

[25] EN

[54] **FLUE GAS TREATMENT APPARATUS AND RELATIVE METHOD**

[54] **APPAREIL DE TRAITEMENT DE GAZ DE COMBUSTION ET PROCEDE ASSOCIE**

[72] CHIARULLO, ENZO JOSEF, IT

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

[85] 2023-01-27

[86] 2021-07-28 (PCT/IB2021/056880)

[87] (WO2022/029568)

[30] IT (102020000019201) 2020-08-04

[21] **3,190,410**
[13] A1

[51] **Int.Cl. A61M 1/28 (2006.01) A61B 5/021 (2006.01) A61M 1/16 (2006.01) A61M 1/36 (2006.01) B01D 61/00 (2006.01) B01D 61/24 (2006.01) F16K 7/12 (2006.01)**

[25] EN

[54] **PRESSURE SENSORS, INCLUDING PRESSURE SENSORS FOR AUTOMATED PERITONEAL DIALYSIS SYSTEMS, AND ASSOCIATED SYSTEMS, DEVICES, AND METHODS**

[54] **CAPTEURS DE PRESSION, Y COMPRIS CAPTEURS DE PRESSION POUR SYSTEMES DE DIALYSE PERITONEALE AUTOMATISEE, ET SYSTEMES, DISPOSITIFS ET PROCEDES ASSOCIES**

[72] WOLLOWITZ, MICHAEL, US

[72] QADEER, ABDUL, PK

[72] USMAN, FARRUKH, US

[71] BYONYKS MEDICAL DEVICES, INC., US

[85] 2023-01-26

[86] 2021-07-27 (PCT/US2021/071012)

[87] (WO2022/027036)

[30] US (63/056,879) 2020-07-27

[21] **3,190,411**
[13] A1

[51] **Int.Cl. A61J 1/05 (2006.01) A61J 1/14 (2006.01) B04C 3/06 (2006.01) G21G 1/00 (2006.01)**

[25] EN

[54] **CONTAINER CLOSURE INCLUDING VORTEX-GENERATING FEATURE**

[54] **FERMETURE DE CONTENANT COMPRENANT UN ELEMENT GENERANT UN TOURBILLON**

[72] RADFORD, LAUREN, US

[72] SHAHANOV, VALERY, US

[72] MICKA, ALEX, US

[71] CURIUM US LLC, US

[85] 2023-01-26

[86] 2021-08-25 (PCT/US2021/047564)

[87] (WO2022/046915)

[30] US (63/072,641) 2020-08-31

[21] **3,190,412**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/22 (2006.01) A61B 17/221 (2006.01) A61B 17/32 (2006.01)**

[25] EN

[54] **CATHETER WITH ENHANCED TENSILE STRENGTH**

[54] **CATHETER A RESISTANCE AMELIOREE A LA TRACTION**

[72] YEE, BRANDON, US

[72] ROUE, CHAD C., US

[72] DAVIS, DANIEL, US

[72] YANG, YI, US

[72] YOURGENLOW, ASHOOR SHAHBAZI, US

[72] SCARLETT, JHUSTIN Y., US

[72] RAY, MIRANDA M., US

[72] KHOSRAVI, FARHAD, US

[71] IMPERATIVE CARE, INC., US

[85] 2023-01-26

[86] 2021-08-10 (PCT/US2021/045397)

[87] (WO2022/035867)

[30] US (63/064,270) 2020-08-11

[30] US (17/343,004) 2021-06-09

[21] **3,190,414**
[13] A1

[51] **Int.Cl. C12Q 1/6827 (2018.01) A01H 6/28 (2018.01) C12Q 1/6895 (2018.01) G16B 20/20 (2019.01) A01H 1/04 (2006.01) C07H 21/04 (2006.01) C40B 20/04 (2006.01) C40B 40/06 (2006.01)**

[25] EN

[54] **VARIN MARKERS**

[54] **MARQUEURS DE VARINE**

[72] HOLLOWAY, ALISHA, US

[72] BAKKER, ERICA, US

[72] HARDWICK, KAYLA, US

[71] PHYLOS BIOSCIENCE, INC., US

[85] 2023-01-26

[86] 2021-08-06 (PCT/US2021/044908)

[87] (WO2022/035691)

[30] US (63/064,874) 2020-08-12

[21] **3,190,415**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **IL2RB/IL2RG SYNTHETIC CYTOKINES**

[54] **CYTOKINES SYNTHETIQUES IL2RB/IL2RG**

[72] VIVONA, SANDRO, US

[72] KASTELEIN, ROBERT, US

[72] ROKKAM, DEEPTI, US

[72] LUPARDUS, PATRICK J., US

[72] DE WAAL MALEFYT, RENE, US

[71] SYNTHEKINE, INC., US

[85] 2023-01-26

[86] 2021-08-05 (PCT/US2021/044853)

[87] (WO2022/032040)

[30] US (63/061,562) 2020-08-05

[30] US (63/078,745) 2020-09-15

[30] US (63/135,884) 2021-01-11

[30] US (63/136,095) 2021-01-11

[30] US (63/136,098) 2021-01-11

Demandes PCT entrant en phase nationale

[21] **3,190,417**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) A61K 39/395 (2006.01) C07K 14/715 (2006.01) C07K 16/24 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS RELATED TO RECEPTOR PAIRINGS**

[54] **COMPOSITIONS ET PROCEDES ASSOCIES A DES APPARIEMENTS DE RECEPTEURS**

[72] KASTELEIN, ROBERT, US
[72] LUPARDUS, PATRICK J., US
[72] ROKKAM, DEEPTI, US
[71] SYNTHEKINE, INC., US
[85] 2023-01-26
[86] 2021-08-05 (PCT/US2021/044730)
[87] (WO2022/055641)
[30] US (63/061,562) 2020-08-05
[30] US (63/078,745) 2020-09-15
[30] US (63/135,884) 2021-01-11

[21] **3,190,418**
[13] A1

[51] **Int.Cl. A61P 25/28 (2006.01) C07B 59/00 (2006.01) C07D 239/28 (2006.01) C07D 239/34 (2006.01) C07D 239/36 (2006.01) C07D 401/06 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 403/12 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **HETEROBIARYL COMPOUNDS AND IMAGING AGENTS FOR IMAGING HUNTINGTIN PROTEIN**

[54] **COMPOSES HETEROBIARYLES ET AGENTS D'IMAGERIE POUR L'IMAGERIE DE LA PROTEINE HUNTINGTINE**

[72] LIU, LONGBIN, US
[72] DOMINGUEZ, CELIA, US
[72] CHEN, XUEMEI, US
[72] MANGETTE, JOHN E., US
[71] CHDI FOUNDATION, INC., US
[85] 2023-01-26
[86] 2021-08-05 (PCT/US2021/044702)
[87] (WO2022/031946)
[30] US (63/062,310) 2020-08-06

[21] **3,190,419**
[13] A1

[51] **Int.Cl. A47J 47/14 (2006.01)**

[25] EN

[54] **METHODS, SYSTEMS, AND DEVICES FOR PORTABLE ENVIRONMENT CONTROLLED CONTAINERS**

[54] **PROCEDES, SYSTEMES ET DISPOSITIFS POUR RECIPIENT PORTABLE A ENVIRONNEMENT CONTROLE**

[72] ESCOBAR, STEVEN S., US
[72] SPRAUVE, MICHAEL, US
[72] PAVEL, MICHAEL, US
[71] PAVEL & SPRAUVE LLC, US
[85] 2023-01-26
[86] 2021-08-05 (PCT/US2021/044618)
[87] (WO2022/031897)
[30] US (63/062,525) 2020-08-07
[30] US (17/393,445) 2021-08-04

[21] **3,190,420**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/715 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS RELATED TO IL27 RECEPTOR BINDING**

[54] **COMPOSITIONS ET METHODES SE RAPPORTANT A LA LIAISON DU RECEPTEUR IL27**

[72] KASTELEIN, ROBERT, US
[72] LUPARDUS, PATRICK J., US
[72] ROKKAM, DEEPTI, US
[71] SYNTHEKINE, INC., US
[85] 2023-01-26
[86] 2021-08-04 (PCT/US2021/044577)
[87] (WO2022/031871)
[30] US (63/061,562) 2020-08-05
[30] US (63/078,745) 2020-09-15
[30] US (63/135,884) 2021-01-11

[21] **3,190,421**
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**

[25] EN

[54] **UPLINK TRANSMISSIONS FOR DOWNLINK CONTROL CHANNEL REPETITION**

[54] **TRANSMISSIONS EN LIAISON MONTANTE POUR REPETITION DE CANAL DE CONTROLE DESCENDANT**

[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[71] OFINNO, LLC, US
[85] 2023-01-27
[86] 2021-08-03 (PCT/US2021/044271)
[87] (WO2022/031651)
[30] US (63/060,855) 2020-08-04

[21] **3,190,422**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) C07K 14/605 (2006.01)**

[25] EN

[54] **GLP-1 RECEPTOR ANTAGONISTS**

[54] **ANTAGONISTES DU RECEPTEUR DE GLP-1**

[72] BROWN, GILES ALBERT, GB
[72] CONGREVE, MILES STUART, GB
[72] SCULLY, CONOR, GB
[71] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2023-01-26
[86] 2021-07-27 (PCT/GB2021/051921)
[87] (WO2022/023723)
[30] GB (2011604.2) 2020-07-27

PCT Applications Entering the National Phase

[21] **3,190,423**
[13] A1

[51] **Int.Cl. H04W 76/10 (2018.01) H04W 72/12 (2023.01) H04W 88/08 (2009.01) H04W 76/27 (2018.01)**

[25] EN

[54] **METHODS, APPARATUS AND SYSTEM FOR UPLINK RESOURCE CONFIGURATION**

[54] **PROCEDES, APPAREILS ET SYSTEME DE CONFIGURATION DE RESSOURCES DE LIAISON MONTANTE**

[72] PARK, KYUNGMIN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] KIM, TAEHUN, US
[72] JEON, HYOUNGSUK, US
[72] RYU, JINSOOK, US
[72] TALEBI FARD, PEYMAN, US
[71] OFINNO, LLC, US
[85] 2023-01-27
[86] 2021-08-03 (PCT/US2021/044345)
[87] (WO2022/031704)
[30] US (63/060,548) 2020-08-03

[21] **3,190,424**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C12N 5/071 (2010.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) A61L 27/40 (2006.01) C12Q 1/02 (2006.01)**

[25] EN

[54] **BLADDER ORGANOID AND METHOD FOR PRODUCING SAME**

[54] **ORGANOIDE VESICAL ET PROCEDE POUR LE PRODUIRE**

[72] TAKASATO, MINORU, JP
[72] OFUJI, KAZUHIRO, JP
[72] WYMEERSCH, FILIP JOS, JP
[71] RIKEN, JP
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2023-01-26
[86] 2021-07-30 (PCT/JP2021/028394)
[87] (WO2022/025269)
[30] JP (2020-129498) 2020-07-30

[21] **3,190,425**
[13] A1

[51] **Int.Cl. C12N 5/073 (2010.01) G01N 33/483 (2006.01) G01N 33/68 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **EMBRYO EVALUATION BASED ON REAL-TIME VIDEO**

[54] **EVALUATION D'EMBRYONS BASEE SUR UNE VIDEO EN TEMPS REEL**

[72] WESSELS WELLS, CARA ELIZABETH, US
[71] EMGENISYS, INC., US
[85] 2023-01-27
[86] 2021-08-03 (PCT/US2021/044423)
[87] (WO2022/031765)
[30] US (63/060,554) 2020-08-03

[21] **3,190,426**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **PANCREATIC CANCER DIAGNOSTIC COMPOSITION TO BE USED IN BUFFY COAT SAMPLE**

[54] **COMPOSITION DE DIAGNOSTIC DU CANCER DU PANCREAS DESTINEE A ETRE UTILISEE DANS UN ECHANTILLON DE COUCHE LEUCOCYTAIRE**

[72] JEONG, HYOUNG HWA, KR
[72] KIM, SOBIN, KR
[71] HUVET BIO, INC., KR
[85] 2023-01-26
[86] 2021-08-05 (PCT/KR2021/010329)
[87] (WO2022/031072)
[30] KR (10-2020-0098845) 2020-08-06

[21] **3,190,427**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **IL10RA BINDING MOLECULES AND METHODS OF USE**

[54] **MOLECULES DE LIAISON A L'IL10RA ET PROCEDES D'UTILISATION**

[72] VIVONA, SANDRO, US
[72] KASTELEIN, ROBERT, US
[72] ROKKAM, DEEPTI, US
[72] LUPARDUS, PATRICK J., US
[71] SYNTHEKINE, INC., US
[85] 2023-01-27
[86] 2021-08-05 (PCT/US2021/044603)
[87] (WO2022/031885)
[30] US (63/061,562) 2020-08-05
[30] US (63/078,745) 2020-09-15
[30] US (63/136,098) 2021-01-11
[30] US (63/135,884) 2021-01-11

[21] **3,190,428**
[13] A1

[51] **Int.Cl. A61K 39/215 (2006.01) A61P 37/04 (2006.01) C07K 14/005 (2006.01) C07K 14/08 (2006.01) C07K 14/165 (2006.01)**

[25] EN

[54] **VACCINE COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **COMPOSITIONS VACCINALES ET LEURS METHODES D'UTILISATION**

[72] MASSOUD, TARIK F., US
[72] PAULMURUGAN, RAMASAMY, US
[72] SUKUMAR, UDAY, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2023-01-26
[86] 2021-07-30 (PCT/US2021/044052)
[87] (WO2022/026917)
[30] US (63/059,845) 2020-07-31

Demandes PCT entrant en phase nationale

[21] **3,190,430**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/18 (2006.01) C40B 40/02 (2006.01)**

[25] EN

[54] **IL10RB BINDING MOLECULES AND METHODS OF USE**

[54] **MOLECULES DE LIAISON A L'IL10RB ET LEURS PROCEDES D'UTILISATION**

[72] VIVONA, SANDRO, US

[72] KASTELEIN, ROBERT, US

[72] ROKKAM, DEEPTI, US

[72] LUPARDUS, PATRICK J., US

[71] SYNTHKINE, INC., US

[85] 2023-01-27

[86] 2021-08-05 (PCT/US2021/044802)

[87] (WO2022/032005)

[30] US (63/061,562) 2020-08-05

[30] US (63/078,745) 2020-09-15

[30] US (63/135,884) 2021-01-11

[21] **3,190,431**
[13] A1

[51] **Int.Cl. H02K 1/02 (2006.01) H02K 21/14 (2006.01) H02K 27/00 (2006.01) H02P 7/00 (2016.01) H02P 25/00 (2006.01) H02P 27/00 (2006.01)**

[25] EN

[54] **POWER DISTRIBUTION WITHIN AN ELECTRIC MACHINE WITH RECTIFIED ROTOR WINDINGS**

[54] **DISTRIBUTION DE COURANT DANS UNE MACHINE ELECTRIQUE A ENROULEMENTS ROTORIQUES REDRESSES**

[72] PREINDL, MATTHIAS, US

[72] PENNINGTON, WALTER WESLEY, III, US

[72] RUBIN, MATTHEW J., US

[72] STEVENSON, GREGORY GORDON, US

[72] OWEN, MICHAEL PARKER, US

[72] BAGGET SWINT, ETHAN, US

[71] TAU MOTORS, INC., US

[85] 2023-01-26

[86] 2021-08-02 (PCT/US2021/044213)

[87] (WO2022/026957)

[30] US (63/059,930) 2020-07-31

[21] **3,190,432**
[13] A1

[25] EN

[54] **PREVENTION OF UNAUTHORIZED MIGRATION OF WIRELESS ACCESS POINTS ACROSS SERVICE PROVIDERS**

[54] **PREVENTION D'UNE MIGRATION NON AUTORISEE DE POINTS D'ACCES SANS FIL PARMIS DES FOURNISSEURS DE SERVICES**

[72] KANNAN, NAVNEETH N., US

[71] ARRIS ENTERPRISES LLC, US

[85] 2023-01-27

[86] 2021-08-06 (PCT/US2021/044938)

[87] (WO2022/026961)

[30] US (63/058,145) 2020-07-29

[21] **3,190,433**
[13] A1

[51] **Int.Cl. C07J 41/00 (2006.01) C07J 43/00 (2006.01) C07J 51/00 (2006.01)**

[25] EN

[54] **METHODS OF MAKING CHOLIC ACID DERIVATIVES AND STARTING MATERIALS THEREFOR**

[54] **PROCEDES DE FABRICATION DE DERIVES D'ACIDE CHOLIQUE ET LEURS MATIERES PREMIERES**

[72] REID, J. GREGORY, US

[72] REDDY, JAYACHANDRA P., US

[72] PAUL, BERNHARD J., US

[72] HOSSAIN, SK SAMAD, US

[71] SANDHILL ONE, LLC, US

[85] 2023-01-27

[86] 2021-08-11 (PCT/US2021/045467)

[87] (WO2022/039983)

[30] US (63/068,498) 2020-08-21

[21] **3,190,434**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/32 (2012.01) G07F 19/00 (2006.01)**

[25] EN

[54] **ATM TRANSACTIONS USING BARCODES IN MULTIPLE STATES**

[54] **TRANSACTIONS DE GAB UTILISANT DES CODES-BARRES DANS DE MULTIPLES ETATS**

[72] PHILLIPS, JEREMY J., US

[72] KONOPA, MATTHEW B., US

[71] CAPITAL ONE SERVICES, LLC, US

[85] 2023-01-27

[86] 2021-08-12 (PCT/US2021/045682)

[87] (WO2022/036052)

[30] US (16/992,709) 2020-08-13

[21] **3,190,435**
[13] A1

[51] **Int.Cl. C07C 1/04 (2006.01) C07C 1/12 (2006.01) C07C 9/04 (2006.01) C10L 3/08 (2006.01)**

[25] EN

[54] **METHANATION WITH TURBOCHARGER**

[54] **METHANATION AVEC TURBOCOMPRESSEUR**

[72] HERRMANN, STEPHAN, DE

[72] FISCHER, FELIX, DE

[72] SPLIETHOFF, HARTMUT, DE

[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE

[85] 2023-01-30

[86] 2021-09-28 (PCT/EP2021/076604)

[87] (WO2022/078747)

[30] EP (20201565.7) 2020-10-13

[21] **3,190,436**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 31/57 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/26 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING NEUROACTIVE STEROID AND USE THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT UN STEROIDE NEUROACTIF ET SON UTILISATION**

[72] HONG, ZHI, US

[72] KRAUS, JOHN, US

[72] XU, LIANHONG, US

[72] GIRARDET, JEAN-LUC, US

[72] MA, JI, US

[71] BRII BIOSCIENCES, INC., US

[85] 2023-01-27

[86] 2021-08-17 (PCT/US2021/046347)

[87] (WO2022/040216)

[30] US (63/066,808) 2020-08-17

[30] US (63/109,847) 2020-11-04

PCT Applications Entering the National Phase

[21] **3,190,437**
[13] A1

[51] **Int.Cl. A61K 8/44 (2006.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 9/10 (2006.01) C11D 1/10 (2006.01)**

[25] EN

[54] **N-ACYL AMINO ACID PRODUCTS AND USES**

[54] **PRODUITS D'ACIDES AMINES N-ACYLE ET LEURS UTILISATIONS**

[72] ROM, OREN, US

[72] ZHANG, JIFENG, US

[72] CHEN, YUQING E., US

[72] ZHAO, YING, US

[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US

[85] 2023-01-27

[86] 2021-08-17 (PCT/US2021/046357)

[87] (WO2022/040222)

[30] US (63/067,175) 2020-08-18

[21] **3,190,438**
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**

[25] EN

[54] **DEFAULT RULES IN CONTROL CHANNEL REPETITION**

[54] **REGLES PAR DEFAUT DANS UNE REPETITION D'UN CANAL DE COMMANDE**

[72] CIRIK, ALI CAGATAY, US

[72] DINAN, ESMAEL HEJAZI, US

[72] YI, YUNJUNG, US

[72] ZHOU, HUA, US

[72] PARK, JONGHYUN, US

[71] OFINNO, LLC, US

[85] 2023-01-27

[86] 2021-08-24 (PCT/US2021/047271)

[87] (WO2022/046717)

[30] US (63/070,476) 2020-08-26

[21] **3,190,440**
[13] A1

[51] **Int.Cl. G01N 33/542 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **MONITORING OF IN VITRO PROTEIN SYNTHESIS**

[54] **SURVEILLANCE DE LA SYNTHÈSE DE PROTEINES IN VITRO**

[72] CHEN, MICHAEL CHUN HAO, GB

[72] CHEN, SIHONG, GB

[72] REIKINE, STEPHANIE, GB

[72] PAOLINI JR., RICHARD J., US

[72] SLOMINSKI, LUKE, US

[72] GEORGIEV, ATANAS YORDANOV, GB

[72] KALSI, SUMIT, GB

[72] GANDINI, CHIARA, GB

[71] NUCLERA NUCLEICS LTD, GB

[85] 2023-01-30

[86] 2021-08-18 (PCT/GB2021/052140)

[87] (WO2022/038353)

[30] GB (2013063.9) 2020-08-21

[21] **3,190,441**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/427 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/536 (2006.01) A61K 31/5377 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **PROTEIN SECRETION INHIBITORS**

[54] **INHIBITEURS DE LA SECRETION DE PROTEINES**

[72] MCMINN, DUSTIN, US

[72] RAO, MEERA, US

[71] KEZAR LIFE SCIENCES, US

[85] 2023-01-27

[86] 2021-08-31 (PCT/US2021/048317)

[87] (WO2022/047347)

[30] US (63/072,690) 2020-08-31

[21] **3,190,442**
[13] A1

[51] **Int.Cl. A63C 3/10 (2006.01) B24B 3/00 (2006.01)**

[25] EN

[54] **SKATE BLADE SHARPENING SYSTEM**

[54] **SYSTEME D'AFFUTAGE DE LAME DE PATIN**

[72] BEAUDET, DANIEL A., US

[72] GORYACHEV, IVAN D., US

[72] AUSTIN, BRIAN, US

[72] LAYTON, RUSSELL K., JR., US

[71] VELASA SPORTS, INC., US

[85] 2023-01-27

[86] 2021-06-30 (PCT/US2021/070805)

[87] (WO2022/026976)

[30] US (63/059,885) 2020-07-31

[30] US (16/989,770) 2020-08-10

[21] **3,190,443**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01) B67D 1/12 (2006.01)**

[25] EN

[54] **BEVERAGE DISPENSER WITH DISPENSING AREA CAMERAS**

[54] **DISTRIBUTEUR DE BOISSONS A ZONE DE DISTRIBUTION EQUIPEE DE CAMERAS**

[72] MULCAHEY, DAVID JAMES, US

[72] CONNOR, MICHAEL LAWRENCE, US

[72] HEJNA, JASON FRANZ, US

[71] THE COCA-COLA COMPANY, US

[85] 2023-01-27

[86] 2021-07-27 (PCT/US2021/070994)

[87] (WO2022/027022)

[30] US (63/057,923) 2020-07-29

[21] **3,190,444**
[13] A1

[51] **Int.Cl. A61B 18/00 (2006.01) A61B 18/12 (2006.01) A61B 18/14 (2006.01)**

[25] EN

[54] **ELONGATED MEDICAL NEEDLE**

[54] **AIGUILLE MEDICALE ALLONGEE**

[72] ABOU MARIE, RUND, CA

[72] MILLER, BROCK, CA

[72] BALKOVEC, CHRISTIAN, CA

[72] ERDEMIR, BERNA, CA

[71] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE

[85] 2023-01-30

[86] 2021-07-29 (PCT/IB2021/056917)

[87] (WO2022/024031)

[30] US (63/058,849) 2020-07-30

Demandes PCT entrant en phase nationale

[21] **3,190,445**
[13] A1

[51] **Int.Cl. H02J 7/34 (2006.01) H02J 3/18 (2006.01) H02J 3/28 (2006.01) H02J 7/35 (2006.01)**

[25] EN

[54] **BESSUPS (BATTERY ENERGY STORAGE SYSTEM UNINTERRUPTIBLE POWER SYSTEM)**

[54] **BESSUPS (SYSTEME D'ALIMENTATION SANS COUPURE DE SYSTEME DE STOCKAGE D'ENERGIE DE BATTERIE)**

[72] EMERT, STEVEN, US

[72] MAZZETTI, WILLIAM PAUL, JR., US

[71] ROSENDIN ELECTRIC, INC., US

[85] 2023-01-27

[86] 2022-01-11 (PCT/US2022/012018)

[87] (WO2022/155148)

[30] US (63/136,597) 2021-01-12

[30] US (63/136,600) 2021-01-12

[21] **3,190,446**
[13] A1

[51] **Int.Cl. G06F 13/38 (2006.01)**

[25] EN

[54] **AN ENHANCED PROCESSOR DATA TRANSPORT MECHANISM**

[54] **MECANISME DE TRANSPORT DE DONNEES DE PROCESSEUR AMELIORE**

[72] PIERSON, FORREST L., US

[71] PIERSON, FORREST L., US

[85] 2023-01-27

[86] 2021-07-28 (PCT/US2021/043374)

[87] (WO2022/026497)

[30] US (63/058,652) 2020-07-30

[21] **3,190,447**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/0789 (2010.01) C12N 15/861 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **GENE CORRECTION FOR SCID-X1 IN LONG-TERM HEMATOPOIETIC STEM CELLS**

[54] **CORRECTION GENIQUE POUR SCID-X1 DANS DES CELLULES SOUCHES HEMATOPOIETIQUES A LONG TERME**

[72] PAVEL-DINU, MARA, US

[72] PORTEUS, MATTHEW H., US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2023-01-26

[86] 2021-08-03 (PCT/US2021/044401)

[87] (WO2022/031746)

[30] US (63/060,586) 2020-08-03

[21] **3,190,448**
[13] A1

[51] **Int.Cl. C07D 239/02 (2006.01) A61K 31/505 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 403/12 (2006.01)**

[25] EN

[54] **PYRIMIDINONE COMPOUNDS AND USES THEREOF**

[54] **COMPOSES DE PYRIMIDINONE ET LEURS UTILISATIONS**

[72] SU, WEI-GUO, CN

[72] ZHANG, WEIHAN, CN

[72] DENG, WEI, CN

[72] YANG, HAIBIN, CN

[71] HUTCHISON MEDIPHARMA LIMITED, CN

[85] 2023-01-30

[86] 2021-08-17 (PCT/CN2021/113038)

[87] (WO2022/037585)

[30] CN (202010840261.X) 2020-08-18

[30] CN (202110894582.2) 2021-08-05

[30] CN (202110928029.6) 2021-08-13

[21] **3,190,451**
[13] A1

[51] **Int.Cl. A21D 2/26 (2006.01) A21D 8/04 (2006.01)**

[25] EN

[54] **WHEAT-CONTAINING FLOUR AND DOUGH WITH PEA PROTEIN**

[54] **FARINE CONTENANT DU BLE ET PATE COMPRENANT UNE PROTEINE DE POIS**

[72] DINIZ FARIA, JULIANA, NL

[72] DE BARROS ABRAAO DE SOUZA, IVAN GUILHERME, NL

[72] LOPES DA SILVA, PAOLA MARIA, NL

[71] CARAVAN INGREDIENTS INC., US

[85] 2023-01-30

[86] 2020-08-07 (PCT/EP2020/072313)

[87] (WO2022/028719)

[21] **3,190,453**
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12N 5/077 (2010.01) C12N 5/00 (2006.01)**

[25] EN

[54] **CONSUMABLE TISSUE-LIKE STRUCTURE GENERATED WITH MUSCLE CELLS GROWN ON EDIBLE HOLLOW FIBERS**

[54] **STRUCTURE DE TYPE TISSU CONSOMMABLE GENEREE AVEC DES CELLULES MUSCULAIRES CULTIVEES SUR DES FIBRES CREUSES COMESTIBLES**

[72] WEISSENBACH, JEAN-LOUIS, US

[72] SYLVIA, RYAN, US

[72] VON DER BRELIE, ALMUT, DE

[72] BRANDL, MELANIE, DE

[72] FESENFELD, MICHAELA, DE

[71] MERCK PATENT GMBH, DE

[85] 2023-01-30

[86] 2021-08-19 (PCT/EP2021/073078)

[87] (WO2022/038240)

[30] US (63/068,397) 2020-08-21

PCT Applications Entering the National Phase

[21] **3,190,454**
[13] A1

[51] **Int.Cl. B01D 69/10 (2006.01) B01D 69/12 (2006.01) B01D 71/02 (2006.01) C01B 3/50 (2006.01)**

[25] EN

[54] **HYDROGEN PURIFICATION USING MOLECULAR DYNAMICS**

[54] **PURIFICATION D'HYDROGENE A L'AIDE DE LA DYNAMIQUE MOLECULAIRE**

[72] ROBLES, GLEN, US

[72] NIMOCKS, ROBERT, US

[72] ROCKE, MIKE, US

[72] CHEIKY, CHARITY, US

[71] H24US CORP., US

[85] 2023-01-26

[86] 2021-08-04 (PCT/US2021/044505)

[87] (WO2022/031821)

[30] US (63/061,608) 2020-08-05

[21] **3,190,455**
[13] A1

[51] **Int.Cl. A61K 31/444 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) C12N 15/09 (2006.01)**

[25] EN

[54] **COLD MEDICINE AND ANTIVIRAL MEDICINE**

[54] **REMEDE CONTRE LE RHUME ET AGENT ANTIVIRAL**

[72] IWATA, KOUSHI, JP

[72] IMAI, KAORU, JP

[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP

[85] 2023-01-30

[86] 2021-06-30 (PCT/JP2021/024778)

[87] (WO2022/024649)

[30] JP (2020-128943) 2020-07-30

[21] **3,190,456**
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01) G16H 20/13 (2018.01) G16H 40/63 (2018.01) G16H 50/30 (2018.01)**

[25] EN

[54] **INHALER SYSTEM**

[54] **SYSTEME D'INHALATEUR**

[72] MILTON-EDWARDS, MARK, GB

[72] SAFIOTI, GUILHERME, SE

[72] REICH, MICHAEL, IL

[71] NORTON (WATERFORD) LIMITED, IE

[85] 2023-01-30

[86] 2021-08-20 (PCT/EP2021/073171)

[87] (WO2022/038275)

[30] GB (2013129.8) 2020-08-21

[21] **3,190,459**
[13] A1

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

[25] EN

[54] **GP130 BINDING MOLECULES AND METHODS OF USE**

[54] **MOLECULES DE LIAISON A LA GP130 ET PROCEDES D'UTILISATION**

[72] KASTELEIN, ROBERT, US

[72] ROKKAM, DEEPTI, US

[72] LUPARDUS, PATRICK J., US

[72] VIVONA, SANDRO, US

[71] SYNTHEKINE, INC., US

[85] 2023-01-26

[86] 2021-08-04 (PCT/US2021/044575)

[87] (WO2022/031869)

[30] US (63/061,562) 2020-08-05

[30] US (63/078,745) 2020-09-15

[30] US (63/135,884) 2021-01-11

[21] **3,190,462**
[13] A1

[51] **Int.Cl. F16K 17/38 (2006.01)**

[25] EN

[54] **SAFETY VALVE AND DISCHARGE DIRECTION REGULATION MEMBER**

[54] **SOUPAPE DE SURETE ET ELEMENT DE REGULATION DE DIRECTION D'EVACUATION**

[72] MATSUOKA, MASASHI, JP

[72] DAIDO, KUNIHICO, JP

[72] YAKUSHIJI, TADAYUKI, JP

[72] HIRAMATSU, KOJI, JP

[72] HORIKAWA, YUSEI, JP

[72] KITANAKA, TAKAO, JP

[72] NUMAZAKI, KAZUSHI, JP

[72] IWAMOTO, NATSUKI, JP

[72] TOKUNO, TETSUYA, JP

[71] FUJIKIN INCORPORATED, JP

[71] JTEKT CORPORATION, JP

[85] 2023-01-30

[86] 2021-07-29 (PCT/JP2021/028003)

[87] (WO2022/030340)

[30] JP (2020-131563) 2020-08-03

[21] **3,190,463**
[13] A1

[51] **Int.Cl. A61K 38/02 (2006.01) A61K 39/395 (2006.01) A61K 39/42 (2006.01)**

[25] EN

[54] **IL27R.ALPHA. BINDING MOLECULES AND METHODS OF USE**

[54] **MOLECULES DE LIAISON A IL27R.ALPHA. ET PROCEDES D'UTILISATION**

[72] KASTELEIN, ROBERT, US

[72] ROKKAM, DEEPTI, US

[72] LUPARDUS, PATRICK J., US

[72] VIVONA, SANDRO, US

[71] SYNTHEKINE, INC., US

[85] 2023-01-26

[86] 2021-08-04 (PCT/US2021/044576)

[87] (WO2022/031870)

[30] US (63/061,562) 2020-08-05

[30] US (63/078,745) 2020-09-15

[30] US (63/135,884) 2021-01-11

[21] **3,190,464**
[13] A1

[51] **Int.Cl. A61B 90/00 (2016.01) G06T 7/73 (2017.01) G06T 7/80 (2017.01)**

[25] EN

[54] **MICROSCOPE CAMERA CALIBRATION**

[54] **ETALONNAGE DE CAMERA DE MICROSCOPE**

[72] STOPP, SEBASTIAN, DE

[72] MANUS, JOHANNES, DE

[71] BRAINLAB AG, DE

[85] 2022-12-12

[86] 2020-08-10 (PCT/EP2020/072391)

[87] (WO2022/033656)

Demandes PCT entrant en phase nationale

[21] **3,190,468**
[13] A1

[51] **Int.Cl. G01N 33/18 (2006.01)**
[25] EN
[54] **ONLINE MEASUREMENT OF
DISPERSED OIL PHASE IN
PRODUCED WATER**
[54] **MESURE EN LIGNE DE PHASE
HUILEUSE DISPERSEE DANS DE
L'EAU PRODUITE**
[72] AHMED, ELAF A., SA
[72] DUVAL, SEBASTIEN A., SA
[72] LESS, SIMONE, SA
[72] ALDOSSARY, ALI S., SA
[71] SAUDI ARABIAN OIL COMPANY,
SA
[85] 2023-01-30
[86] 2021-07-29 (PCT/US2021/043633)
[87] (WO2022/026660)
[30] US (16/942,604) 2020-07-29

[21] **3,190,469**
[13] A1

[51] **Int.Cl. C12P 21/00 (2006.01) C12Q
1/02 (2006.01) C40B 40/08 (2006.01)
C40B 40/10 (2006.01) G01N 33/15
(2006.01)**
[25] EN
[54] **METHOD FOR SCREENING FOR
POLYPEPTIDE THAT ACTS ON
TARGET PROTEIN**
[54] **PROCEDE DE CRIBLAGE D'UN
POLYPEPTIDE AGISSANT SUR
UNE PROTEINE CIBLE**
[72] KIMURA, TADASHI, JP
[71] NATIONAL INSTITUTE OF
ADVANCED INDUSTRIAL SCIENCE
AND TECHNOLOGY, JP
[85] 2023-01-30
[86] 2021-08-04 (PCT/JP2021/028940)
[87] (WO2022/030539)
[30] JP (2020-132823) 2020-08-05

[21] **3,190,471**
[13] A1

[51] **Int.Cl. E21B 7/15 (2006.01) B23K
10/00 (2006.01) E21B 7/14 (2006.01)
E21C 37/00 (2006.01) E21C 37/18
(2006.01) H05H 1/50 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR
NON-CONTACT BORING**
[54] **SYSTEMES ET PROCEDE DE
PERCEMENT SANS CONTACT**
[72] ABRAMS, KIMBERLY, US
[72] TORRES, SHIVANI, US
[72] WRIGHT, IAN, US
[72] MOSAVAT, KAMYAR, US
[72] MORIDIAN, BARZIN, US
[72] DOBROWOLSKI, ARIELLE, US
[72] TKACHENKO, ARTEM, US
[72] DICKE, MOLLY, US
[72] STRANGEWAY, MATTHEW, US
[72] LI, MENSON, US
[72] BENSON, RYAN, US
[72] LINK, RANDY, US
[72] BAID, NIMIT, US
[72] WRIGHT, MATTHEW, US
[71] ARCBY, INC., US
[85] 2023-01-30
[86] 2021-07-30 (PCT/US2021/043910)
[87] (WO2022/026835)
[30] US (63/059,927) 2020-07-31
[30] US (63/151,036) 2021-02-18

[21] **3,190,473**
[13] A1

[51] **Int.Cl. B06B 3/00 (2006.01) B23K
20/10 (2006.01) F16C 23/08 (2006.01)
G10K 11/00 (2006.01)**
[25] EN
[54] **HIGH-EFFICIENCY WELDING
ASSEMBLY FOR USE IN
ULTRASONIC ADDITIVE
MANUFACTURING**
[54] **ENSEMBLE DE SOUDAGE A
HAUT RENDEMENT DESTINE A
ETRE UTILISE DANS LA
FABRICATION ADDITIVE PAR
ULTRASONS**
[72] WENNING, JUSTIN, US
[72] HEHR, ADAM J., US
[72] NORFOLK, MARK I., US
[71] FABRISONIC LLC, US
[85] 2023-01-30
[86] 2021-06-28 (PCT/US2021/039338)
[87] (WO2022/035516)
[30] US (16/989,110) 2020-08-10

[21] **3,190,474**
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) A61P
25/00 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **ANTI-CONNEXIN ANTIBODY
FORMULATIONS**
[54] **FORMULATIONS D'ANTICORPS
ANTI-CONNEXINE**
[72] ZHANG, YANFENG, US
[71] ALAMAB THERAPEUTICS, INC., US
[85] 2023-01-30
[86] 2021-07-30 (PCT/US2021/044043)
[87] (WO2022/026914)
[30] US (63/059,502) 2020-07-31

[21] **3,190,477**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) C12N
15/113 (2010.01) C12N 15/115
(2010.01)**
[25] EN
[54] **ADAR DEPENDENT EDITING
COMPOSITIONS AND METHODS
OF USE THEREOF**
[54] **COMPOSITIONS D'EDITION
DEPENDANT D'ADAR ET LEURS
PROCEDES D'UTILISATION**
[72] LI, ZHEN, US
[72] ZHU, RUI, US
[72] DA SILVA CORREIA, JEAN, US
[72] FULTZ, KIMBERLY, US
[72] STUDER, SEAN, US
[72] LEAR, SAM, US
[71] ADARX PHARMACEUTICALS, INC.,
US
[85] 2023-01-30
[86] 2021-07-30 (PCT/US2021/044074)
[87] (WO2022/026928)
[30] US (63/059,084) 2020-07-30
[30] US (63/127,839) 2020-12-18

PCT Applications Entering the National Phase

[21] **3,190,479**
[13] A1

[51] **Int.Cl. H02P 23/14 (2006.01) H02K 1/02 (2006.01) H02K 1/24 (2006.01) H02K 3/28 (2006.01) H02P 23/00 (2016.01)**

[25] EN

[54] **POWER DISTRIBUTION WITHIN AN ELECTRIC MACHINE**

[54] **DISTRIBUTION D'ENERGIE DANS UNE MACHINE ELECTRIQUE**

[72] PREINDL, MATTHIAS, US

[72] PENNINGTON, WALTER WESLEY, III, US

[72] RUBIN, MATTHEW J., US

[72] STEVENSON, GREGORY GORDON, US

[72] OWEN, MICHAEL PARKER, US

[72] BAGGET SWINT, ETHAN, US

[71] TAU MOTORS, INC., US

[85] 2023-01-30

[86] 2021-08-02 (PCT/US2021/044207)

[87] (WO2022/026956)

[30] US (63/059,929) 2020-07-31

[21] **3,190,480**
[13] A1

[51] **Int.Cl. G02F 1/1335 (2006.01)**

[25] EN

[54] **PROTECTED QUANTUM DOTS FOR THERAPEUTIC, DIAGNOSTIC, AND OTHER USES**

[54] **POINTS QUANTIQUES PROTEGES POUR UTILISATIONS THERAPEUTIQUES, DIAGNOSTIQUES ET AUTRES**

[72] CHALLA, SIVA SAI RAMANA KUMAR, US

[72] SABLIOV, CRISTINA M., US

[72] ASTETE, CARLOS E., US

[72] WANG, JUN, US

[72] HANNA, EBAN, A., US

[71] BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US

[71] QUANTUM TECHNOLOGY GROUP INC., US

[85] 2023-01-30

[86] 2021-07-28 (PCT/US2021/043372)

[87] (WO2022/031484)

[30] US (63/060,214) 2020-08-03

[21] **3,190,481**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR INHIBITING PLP1 EXPRESSION**

[54] **COMPOSITIONS ET METHODES D'INHIBITION DE L'EXPRESSION DE PLP1**

[72] BROWN, BOB DALE, US

[72] JUNG, MAIRE, US

[72] CHANGELIAN, ARMEN, US

[72] ZHANG, CHUNYANG, US

[71] DICERNA PHARMACEUTICALS INC., US

[85] 2023-01-30

[86] 2021-08-04 (PCT/US2021/044541)

[87] (WO2022/031847)

[30] US (63/061,040) 2020-08-04

[30] US (63/151,445) 2021-02-19

[21] **3,190,485**
[13] A1

[51] **Int.Cl. A23K 20/158 (2016.01) A23K 40/30 (2016.01) A23P 20/10 (2016.01)**

[25] EN

[54] **PET FOOD**

[54] **ALIMENT POUR ANIMAUX DE COMPAGNIE**

[72] GARRETSON, LISA, US

[72] WEATHERBY, NATASHA, US

[72] YANG, CHA, US

[71] BLUE BUFFALO ENTERPRISES, INC., US

[85] 2023-01-30

[86] 2021-07-28 (PCT/US2021/043402)

[87] (WO2022/026517)

[30] US (63/058,562) 2020-07-30

[21] **3,190,486**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/715 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **IL10 RECEPTOR BINDING MOLECULES AND METHODS OF USE**

[54] **MOLECULES DE LIAISON AU RECEPTEUR IL10 ET LEURS PROCEDES D'UTILISATION**

[72] VIVONA, SANDRO, US

[72] RAMADASS, MAHALAKSHMI, US

[72] KASTELEIN, ROBERT, US

[72] ROKKAM, DEEPTI, US

[72] LUPARDUS, PATRICK J., US

[71] SYNTHETIKINE, INC., US

[85] 2023-01-30

[86] 2021-08-05 (PCT/US2021/044834)

[87] (WO2022/032022)

[30] US (63/061,562) 2020-08-05

[30] US (63/078,745) 2020-09-15

[30] US (63/136,098) 2021-01-11

[30] US (63/135,884) 2021-01-11

[21] **3,190,487**
[13] A1

[51] **Int.Cl. C09G 1/08 (2006.01) C09G 1/16 (2006.01) C08K 3/22 (2006.01) C08K 3/36 (2006.01)**

[25] EN

[54] **VEHICLE CERAMIC SURFACE TREATMENT COMPOSITION AND PROCESS FOR USE THEREOF**

[54] **COMPOSITION DE CERAMIQUE DE TRAITEMENT DE SURFACE DE VEHICULE ET SON PROCEDE D'UTILISATION**

[72] ALWATTARI, ALI, US

[72] HUANG, TSAO-CHIN CLARENCE, US

[72] ESCOTO, JOHN ISIDORO, JR., US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-01-30

[86] 2021-07-28 (PCT/US2021/043425)

[87] (WO2022/031490)

[30] US (63/062,603) 2020-08-07

[30] US (17/386,010) 2021-07-27

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[21] **3,190,488**
[13] A1

[51] **Int.Cl. A01N 25/26 (2006.01) A01N 63/22 (2020.01) A01P 5/00 (2006.01)**

[25] EN

[54] **BIOINSECTICIDE**

[54] **BIOINSECTICIDE**

[72] CLOETE, SAMUEL L., US

[72] KWIATKOWSKI, JUSTIN, US

[71] KANNAR EARTH SCIENCE, LTD., US

[85] 2023-01-30

[86] 2021-08-06 (PCT/US2021/044921)

[87] (WO2022/032082)

[30] US (63/061,906) 2020-08-06

[30] US (63/210,086) 2021-06-14

[30] US (63/215,239) 2021-06-25

[21] **3,190,489**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) A61K 38/53 (2006.01)**

[25] EN

[54] **INTESTINAL ALKALINE PHOSPHATASES AND METHODS OF USE IN INHIBITING LIVER FIBROSIS**

[54] **PHOSPHATASES ALCALINES INTESTINALES ET PROCEDES D'UTILISATION DANS L'INHIBITION DE LA FIBROSE HEPATIQUE**

[72] HODIN, RICHARD A., US

[71] THE GENERAL HOSPITAL CORPORATION, US

[85] 2023-01-31

[86] 2021-07-29 (PCT/US2021/043691)

[87] (WO2022/026700)

[30] US (63/059,781) 2020-07-31

[21] **3,190,490**
[13] A1

[51] **Int.Cl. B65D 83/70 (2006.01) H01M 50/342 (2021.01) B65D 90/36 (2006.01) F17C 13/12 (2006.01) H01G 9/12 (2006.01)**

[25] EN

[54] **PRESSURE RELIEF ASSEMBLIES AND METHODS**

[54] **ENSEMBLES ET PROCEDES DE DECHARGE DE PRESSION**

[72] PRYMULA, DAVID A., US

[72] SCHOENBORN, RANDALL J., US

[72] HAZARD, BRADLEY, US

[72] SHUKLA, UMANG, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-01-30

[86] 2021-08-09 (PCT/US2021/045149)

[87] (WO2022/032216)

[30] US (63/062,588) 2020-08-07

[30] US (17/395,727) 2021-08-06

[21] **3,190,495**
[13] A1

[51] **Int.Cl. A61K 31/50 (2006.01) A61K 31/5025 (2006.01) C07D 237/26 (2006.01) C07D 237/30 (2006.01) C07D 237/32 (2006.01)**

[25] EN

[54] **COMPOUNDS, COMPOSITIONS AND METHODS**

[54] **COMPOSES, COMPOSITIONS ET METHODES**

[72] CRAIG, II, ROBERT A., US

[72] DE VICENTE FIDALGO, JAVIER, US

[72] ESTRADA, ANTHONY A., US

[72] FOX, BRIAN M., US

[72] HU, CHENG, US

[72] LEXA, KATRINA W., US

[72] NILEWSKI, LIZANNE G., US

[72] OSIPOV, MAKSIM, US

[72] THOTTUMKARA, ARUN, US

[72] BAGDASARIAN, ALEX L., US

[72] HUFFMAN, BENJAMIN J., US

[71] DENALI THERAPEUTICS INC., US

[85] 2023-01-30

[86] 2021-08-13 (PCT/US2021/045924)

[87] (WO2022/036204)

[30] US (63/066,074) 2020-08-14

[30] US (63/151,600) 2021-02-19

[21] **3,190,496**
[13] A1

[51] **Int.Cl. A61N 5/06 (2006.01) A61B 1/06 (2006.01) A61B 18/18 (2006.01) A61B 18/24 (2006.01) A61L 2/10 (2006.01) A61M 39/16 (2006.01)**

[25] EN

[54] **INTERNAL ULTRAVIOLET THERAPY**

[54] **THERAPIE PAR ULTRAVIOLETS INTERNE**

[72] REZAIE, ALI, US

[72] PIMENTEL, MARK, US

[72] MELMED, GIL Y., US

[71] CEDARS-SINAI MEDICAL CENTER, US

[85] 2023-01-30

[86] 2021-08-13 (PCT/US2021/046011)

[87] (WO2022/036263)

[30] US (63/065,167) 2020-08-13

[21] **3,190,497**
[13] A1

[51] **Int.Cl. A61F 2/12 (2006.01)**

[25] EN

[54] **IMPLANTS AND SYSTEMS FOR SCARLESS MASTOPEXY**

[54] **IMPLANTS ET SYSTEMES POUR MASTOPEXIE SANS CICATRICE**

[72] LIMEM, SKANDER, US

[72] VAN NATTA, BRUCE, US

[72] WILLIAMS, SIMON F., US

[71] TEPHA, INC., US

[85] 2023-01-30

[86] 2021-09-08 (PCT/US2021/049418)

[87] (WO2022/055966)

[30] US (63/076,182) 2020-09-09

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[21] **3,190,501**
[13] A1

[51] **Int.Cl. B66B 11/02 (2006.01) B66B 11/00 (2006.01) B66B 9/00 (2006.01) B66B 9/16 (2006.01)**

[25] EN

[54] **FOLDABLE ELEVATOR STRUCTURES FOR CABIN AND SHAFT**

[54] **STRUCTURES D'ASCENSEUR PLIABLES POUR CABINE D'ASCENSEUR ET CAGE D'ASCENSEUR**

[72] DE LEDEBUR, JUAN-CARLOS G., US

[72] GRUBER, STEFAN A., US

[72] DE LEDEBUR, PATRICK-ANDREW G., US

[71] DE LEDEBUR, JUAN-CARLOS G., US

[71] GRUBER, STEFAN A., US

[71] DE LEDEBUR, PATRICK-ANDREW G., US

[85] 2023-01-30

[86] 2022-04-04 (PCT/US2022/023293)

[87] (WO2022/216596)

[30] US (17/226,711) 2021-04-09

[30] US (17/504,219) 2021-10-18

[21] **3,190,505**
[13] A1

[51] **Int.Cl. C12N 15/873 (2010.01) C12N 5/073 (2010.01) C12N 15/877 (2010.01) A01K 67/02 (2006.01)**

[25] EN

[54] **METHODS OF EMBRYO TWINNING**

[54] **PROCEDES DE JUMELAGE D'EMBRYONS**

[72] CAMERON, NICHOLAS, AU

[72] AZOULAY, DANIELLE, AU

[71] NBRYO PTY LTD, AU

[85] 2023-01-31

[86] 2021-07-30 (PCT/AU2021/050836)

[87] (WO2022/020907)

[30] AU (2020902691) 2020-07-31

[21] **3,190,506**
[13] A1

[51] **Int.Cl. A61C 17/08 (2006.01)**

[25] EN

[54] **DENTAL AEROSOL AND LIQUID SUCTION DEVICE**

[54] **AEROSOL DENTAIRE ET DISPOSITIF D'ASPIRATION DE LIQUIDE**

[72] VONDERWALDE, CARLOS, CA

[72] MAYCHER, DAVID JOHN, CA

[71] MAYCHER HEALTH CARE INNOVATIONS INC., CA

[85] 2023-01-31

[86] 2020-08-04 (PCT/CA2020/051063)

[87] (WO2022/020932)

[30] US (16/944,523) 2020-07-31

[21] **3,190,509**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **COMBINATORY TREATMENT OF SMA WITH SARNA AND MRNA MODULATORS**

[54] **TRAITEMENT COMBINATOIRE DE SMA AVEC DES MODULATEURS DE PETIT ARN ACTIVATEUR ET D'ARNM**

[72] LI, LONGCHENG, CN

[72] KANG, MOORIM, CN

[72] WU, JIANCHENG, CN

[71] RACTIGEN THERAPEUTICS, CN

[85] 2023-01-31

[86] 2021-07-29 (PCT/CN2021/109146)

[87] (WO2022/022617)

[30] CN (PCT/CN2020/106200) 2020-07-31

[21] **3,190,512**
[13] A1

[51] **Int.Cl. B21B 25/02 (2006.01) B21C 45/00 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR HANDLING MANDREL RODS IN A TUBE ROLLING MILL**

[54] **DISPOSITIF ET PROCEDE DE MANIPULATION DE TIGES DE MANDRIN DANS UN LAMINOIR A TUBES**

[72] KIRCHNER, WALTER, DE

[72] MARIN, PAOLO, IT

[72] RINALDI, PATRIZIO, IT

[71] SMS GROUP GMBH, DE

[85] 2023-01-31

[86] 2021-06-30 (PCT/EP2021/067964)

[87] (WO2022/033760)

[30] DE (10 2020 210 233.3) 2020-08-12

[21] **3,190,516**
[13] A1

[51] **Int.Cl. C07K 14/38 (2006.01) C12N 1/14 (2006.01) C12N 9/62 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **EXPRESSION HOST**

[54] **HOTE D'EXPRESSION**

[72] COCONI LINARES, LUCIA NANCY, BE

[71] BIOTALYS NV, BE

[85] 2023-01-31

[86] 2021-08-02 (PCT/EP2021/071595)

[87] (WO2022/023583)

[30] EP (20188921.9) 2020-07-31

[30] EP (20188933.4) 2020-07-31

[30] EP (20217907.3) 2020-12-30

[21] **3,190,518**
[13] A1

[51] **Int.Cl. A61K 49/04 (2006.01) A61K 51/04 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **PET-CT IMAGING METHODS, CONTRAST AGENTS AND PHARMACEUTICAL COMPOSITIONS FOR USE IN SAID IMAGING METHODS**

[54] **PROCEDES D'IMAGERIE PET-CT, AGENTS DE CONTRASTE ET COMPOSITIONS PHARMACEUTIQUES DESTINES A ETRE UTILISES DANS LESDITS PROCEDES D'IMAGERIE**

[72] STRANSKY-HEILKRON, NATHALIE, FR

[72] BABIC, ANDREJ, FR

[71] ADIPOSS SA, CH

[85] 2023-01-31

[86] 2021-08-06 (PCT/EP2021/072014)

[87] (WO2022/029294)

[30] EP (20189928.3) 2020-08-06

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[21] **3,190,544**
[13] A1

[51] **Int.Cl. G02B 1/04 (2006.01)**
[25] EN
[54] **PACKAGING SOLUTIONS**
[54] **SOLUTIONS D'ENCAPSULATION**
[72] BARNIAK, VICKI, US
[72] SCHEUER, CATHERINE, US
[72] JULIAN, RUTH, US
[72] REINDEL, WILLIAM T., US
[72] XIA, ERNING, US
[71] BAUSCH + LOMB IRELAND LIMITED, IE
[85] 2023-01-31
[86] 2021-08-09 (PCT/EP2021/072140)
[87] (WO2022/034010)
[30] US (63/063,715) 2020-08-10

[21] **3,190,577**
[13] A1

[51] **Int.Cl. A61B 5/08 (2006.01) A61B 5/24 (2021.01) A61B 7/00 (2006.01) A61B 7/04 (2006.01) A61N 1/365 (2006.01) A63B 24/00 (2006.01)**
[25] EN
[54] **WEARABLE AUSCULTATION DEVICE**
[54] **DISPOSITIF D'AUSCULTATION POUVANT ETRE PORTE**
[72] MOEHRING, MARK A., US
[72] ALLEMAN, ANTHONY J., US
[71] OTONEXUS MEDICAL TECHNOLOGIES, INC., US
[85] 2023-01-31
[86] 2021-08-19 (PCT/US2021/046754)
[87] (WO2022/040456)
[30] US (63/067,502) 2020-08-19

[21] **3,190,578**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/12 (2006.01) A61L 31/02 (2006.01)**
[25] EN
[54] **MECHANICAL DETACHMENT SYSTEM FOR TRANSCATHETER DEVICES**
[54] **SYSTEME DE DETACHEMENT MECANIQUE POUR DISPOSITIFS TRANSCATHETER**
[72] LE, LE, US
[72] LEO, ROSE Y., US
[72] YEH, CHUNG, US
[72] KWONG, KASEY, US
[72] MARLANGAUE, ROCHELLE, US
[72] LANDSMAN, TODD L., US
[72] BARRETT, MICHAEL, US
[71] SHAPE MEMORY MEDICAL, INC., US
[85] 2023-01-31
[86] 2021-08-20 (PCT/US2021/046812)
[87] (WO2022/040490)
[30] US (63/068,533) 2020-08-21

[21] **3,190,579**
[13] A1

[51] **Int.Cl. A61K 38/18 (2006.01) C07K 14/495 (2006.01)**
[25] EN
[54] **ONCOLYTIC VIRUSES ENCODING RECOMBINANT TRANSFORMING GROWTH FACTOR (TGF)-BETA MONOMERS AND USES THEREOF**
[54] **VIRUS ONCOLYTIQUES CODANT POUR DES MONOMERES DE FACTEUR DE CROISSANCE TRANSFORMANT (TGF)-BETA RECOMBINANT ET LEURS UTILISATIONS**
[72] HINCK, ANDREW P., US
[72] DELGOFFE, GREG M., US
[72] DEPEAUX, KRISTIN, US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2023-01-31
[86] 2021-08-27 (PCT/US2021/048043)
[87] (WO2022/047220)
[30] US (63/070,965) 2020-08-27

[21] **3,190,580**
[13] A1

[51] **Int.Cl. B22D 11/00 (2006.01) B22D 11/06 (2006.01) C21D 1/62 (2006.01)**
[25] EN
[54] **PROCESS FOR IN-LINE MECHANICALLY SCRIBING OF AMORPHOUS FOIL FOR MAGNETIC DOMAIN ALIGNMENT AND CORE LOSS REDUCTION**
[54] **PROCEDE DE TRACAGE EN LIGNE MECANIQUE DE FEUILLE AMORPHE PERMETTANT UN ALIGNEMENT DU DOMAINE MAGNETIQUE ET UNE REDUCTION DE PERTE DANS LE NOYAU**
[72] THEISEN, ERIC ALAN, US
[72] GRANGER, DONALD E., JR., US
[72] HASTIE, THOMAS JOSEPH, US
[72] REED, DONALD ROBERT, JR., US
[71] METGLAS, INC., US
[85] 2023-01-31
[86] 2021-08-30 (PCT/US2021/048191)
[87] (WO2022/066366)
[30] US (17/033,301) 2020-09-25

[21] **3,190,581**
[13] A1

[51] **Int.Cl. A61K 41/00 (2020.01) A61K 39/395 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **TREATMENT OF DISEASES RELATED TO COLONY-STIMULATING FACTOR 1 RECEPTOR DYSFUNCTION USING TREM2 AGONISTS**
[54] **TRAITEMENT DE MALADIES ASSOCIEES AU DYSFONCTIONNEMENT DU RECEPTEUR DE FACTEUR 1 DE STIMULATION DES COLONIES AU MOYEN D'AGONISTES DE TREM2**
[72] BRENNAN, MATTHEW, US
[72] DUNN, JUDITH, US
[72] FISHER, RICHARD, US
[72] LYNCH, BERKLEY A., US
[72] ROBINETTE, STEVEN, US
[71] VIGIL NEUROSCIENCE, INC., US
[85] 2023-01-31
[86] 2021-08-05 (PCT/US2021/071115)
[87] (WO2022/032293)
[30] US (63/061,315) 2020-08-05
[30] US (63/129,852) 2020-12-23

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[21] **3,190,582**
[13] A1

[51] **Int.Cl. B01J 4/00 (2006.01) B01J 47/022 (2017.01) C02F 1/42 (2006.01) G21F 9/12 (2006.01) C02F 1/28 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ION EXCHANGE**

[54] **SYSTEMES ET PROCEDES D'ECHANGE D'IONS**

[72] SYLVESTER, PAUL, US

[72] GARRETT, BEN, US

[72] BONNET, NICEPHORE, US

[72] GAITHER, BRIAN, US

[72] NULLE, CLAY, US

[72] PIROUX, JEAN-CHRISTOPHE YVES MAURICE, US

[71] VEOLIA NUCLEAR SOLUTIONS, INC., US

[85] 2023-01-31

[86] 2021-08-19 (PCT/US2021/046625)

[87] (WO2022/040387)

[30] US (63/068,501) 2020-08-21

[30] US (63/201,024) 2021-04-08

[21] **3,190,583**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/404 (2006.01) A61K 31/439 (2006.01) A61K 31/443 (2006.01) A61K 31/529 (2006.01) A61P 11/00 (2006.01) A61P 43/00 (2006.01) C07D 413/04 (2006.01)**

[25] EN

[54] **MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR**

[54] **MODULATEURS DU REGULATEUR DE LA CONDUCTANCE TRANSMEMBRANAIRE DE LA FIBROSE KYSTIQUE**

[72] CLEMENS, JEREMY J., US

[72] BOOKSER, BRETT C., US

[72] CLEVELAND, THOMAS, US

[72] COON, TIMOTHY R., US

[72] GALLANT, MICHEL, US

[72] LATERREUR, JULIE, US

[72] MELILLO, VITO, US

[72] MILLER, MARK THOMAS, US

[72] PARASELLI, PRASUNA, US

[72] RAMTOHUL, YEEMAN K., US

[72] REDDY, THUMKUNTA JAGADEESWAR, US

[72] STURINO, CLAUDIO, US

[72] VALDEZ, LINO, US

[72] ZHOU, JINGLAN, US

[72] BECHARA, WILLIAM SCHULZ, US

[72] BAEK, MINSON, US

[72] GROOTENHUIS, PETER (DECEASED), US

[72] HADIDA RUAH, SARA SABINA, US

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2023-01-31

[86] 2021-08-06 (PCT/US2021/044895)

[87] (WO2022/032068)

[30] US (63/063,194) 2020-08-07

[21] **3,190,584**
[13] A1

[51] **Int.Cl. A61F 7/02 (2006.01) A61F 7/10 (2006.01)**

[25] EN

[54] **MECHANISM FOR AUTOMATED INJURY STABILIZATION AND TREATMENT**

[54] **MECANISME DE STABILISATION ET DE TRAITEMENT AUTOMATIQUES DE BLESSURES**

[72] MABINI, JERRY MARIO, US

[72] BALAZS, ALEX, US

[71] SECURED INJURY DEVICES, INC., US

[85] 2023-01-31

[86] 2021-08-05 (PCT/US2021/044844)

[87] (WO2022/032031)

[30] US (63/063,143) 2020-08-07

[21] **3,190,585**
[13] A1

[51] **Int.Cl. A61K 31/635 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT USING FUROSEMIDE**

[54] **METHODES DE TRAITEMENT A L'AIDE DE FUROSEMIDE**

[72] MOHR, JOHN F., US

[72] TUCKER, JOHN, US

[72] HASSMAN, MICHAEL, US

[72] PECORELLI, ERIK MARK, US

[71] SCPHARMACEUTICALS INC., US

[85] 2023-01-31

[86] 2021-08-05 (PCT/US2021/044723)

[87] (WO2022/031959)

[30] US (63/061,518) 2020-08-05

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[21] **3,190,586**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTI-CEACAM5 ANTIBODIES AND CONJUGATES AND USES THEREOF**

[54] **ANTICORPS ANTI-CEACAM5, CONJUGUES ET LEURS UTILISATIONS**

[72] ANDERL, JAN, DE
[72] RAAB-WESTPHAL, SABINE, DE
[72] HECHT, STEFAN, DE
[72] DEUTSCH, CARL, DE
[72] SHAN, MIN, DE
[72] KONNING, DOREEN, DE
[72] SLOOT, WILLEM N., DE
[72] HART, FELIX, DE
[72] SCHROTER, CHRISTIAN, DE
[72] TOLEIKIS, LARS, DE
[72] BERGER, NIR, IL
[71] MERCK PATENT GMBH, DE
[85] 2023-02-01
[86] 2021-08-13 (PCT/EP2021/072595)
[87] (WO2022/048883)
[30] EP (20194711.6) 2020-09-04
[30] EP (20195559.8) 2020-09-10

[21] **3,190,587**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61L 27/18 (2006.01) A61L 27/48 (2006.01) A61L 27/50 (2006.01) A61L 31/06 (2006.01) A61L 31/12 (2006.01) A61L 31/14 (2006.01)**

[25] EN

[54] **A POLYURETHANE COMPOSITE SHEET, A METHOD OF MAKING SUCH COMPOSITE SHEET, AND USE THEREOF IN MAKING A MEDICAL IMPLANT**

[54] **FEUILLE COMPOSITE DE POLYURETHANE, PROCEDE DE FABRICATION D'UNE TELLE FEUILLE COMPOSITE ET SON UTILISATION DANS LA FABRICATION D'UN IMPLANT MEDICAL**

[72] DAVISON, NOEL L., NL
[72] WIERMANS, MANDY MARIA JOZEFINA, NL
[72] DE BONT, NICOLAES HUBERTUS MARIA, NL
[72] HAZZARD, MARK KENNETH, NL
[71] DSM IP ASSETS B.V., NL
[85] 2023-02-01
[86] 2021-08-30 (PCT/EP2021/073912)
[87] (WO2022/049038)
[30] EP (20193942.8) 2020-09-01

[21] **3,190,588**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01)**

[25] EN

[54] **PREPARATION OF RNA AND DNA SEQUENCING LIBRARIES USING BEAD-LINKED TRANSPOSOMES**

[54] **PREPARATION DE BANQUES DE SEQUENCAGE ARN ET ADN A L'AIDE DE TRANSPOSOMES LIES A DES BILLES**

[72] GORMLEY, NIALL ANTHONY, GB
[72] KENNEDY, ANDREW B., US
[72] KUERSTEN, ROBERT SCOTT, US
[72] SCHROTH, GARY, US
[72] RANDISE-HINCHLIFF, CARLO, US
[72] SCHULTZABERGER, SARAH, US
[72] KAPER, FIONA, US
[72] WU, YIR-SHYUAN, US
[72] KHURANA, TARUN, US
[72] MASHAYEKHI, FOAD, US
[71] ILLUMINA, INC., US
[71] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2023-01-31
[86] 2021-08-05 (PCT/US2021/044715)
[87] (WO2022/031955)
[30] US (63/061,885) 2020-08-06
[30] US (63/165,830) 2021-03-25
[30] US (63/168,802) 2021-03-31
[30] US (63/219,014) 2021-07-07

[21] **3,190,589**
[13] A1

[51] **Int.Cl. E01D 21/00 (2006.01)**

[25] EN

[54] **FORMWORK SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE COFFRAGE**

[72] HUBER, JULIAN, DE
[72] READ, ANDREW, DE
[72] STURM, FLORIAN, DE
[72] HARRIS, KEN, US
[72] LUNDAY, JUSTIN, US
[72] STRAUB, DAN, US
[71] PERI SE, DE
[85] 2023-02-01
[86] 2021-08-09 (PCT/IB2021/057334)
[87] (WO2022/029741)
[30] US (16/988,555) 2020-08-07

[21] **3,190,590**
[13] A1

[51] **Int.Cl. B65C 9/00 (2006.01) B29C 65/48 (2006.01) B32B 38/10 (2006.01) B65C 9/12 (2006.01) B65C 9/18 (2006.01)**

[25] EN

[54] **ASYMMETRIC PEEL PLATE FOR A LABEL-DISPENSING APPARATUS AND PEEL ASSIST PLATE**

[54] **PLAQUE DE DECOLLEMENT ASYMETRIQUE POUR UN APPAREIL DE DISTRIBUTION D'ETIQUETTES ET PLAQUE D'AIDE AU DECOLLEMENT**

[72] BANDHOLZ, BRENT, US
[72] CHERNEY, KATHERINE A., US
[72] GRATZ, JOSHUA, US
[71] BRADY WORLDWIDE, INC., US
[85] 2023-02-01
[86] 2021-07-29 (PCT/US2021/043757)
[87] (WO2022/031518)
[30] US (63/061,002) 2020-08-04

[21] **3,190,591**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/08 (2006.01) A61L 2/24 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SANITIZING MOBILE ELECTRONIC DEVICES**

[54] **SYSTEMES ET PROCEDES DE DESINFECTION DE DISPOSITIFS ELECTRONIQUES MOBILES**

[72] YANG, FRANK, US
[72] WONG, RYAN, US
[72] BOWMAN, CORY, US
[72] BUSHROE, FREDERICK, US
[72] CONLEY, WILLIAM PATRICK, US
[72] PIRSHAFIEY, NASSER, US
[71] SIMPLEHUMAN, LLC, US
[85] 2023-02-01
[86] 2021-08-02 (PCT/US2021/044231)
[87] (WO2022/031626)
[30] US (63/060,566) 2020-08-03
[30] US (63/090,054) 2020-10-09
[30] US (63/125,942) 2020-12-15

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[21] **3,190,592**
[13] A1

[51] **Int.Cl. F16B 5/02 (2006.01) F16B 1/00 (2006.01)**
[25] EN
[54] **METHODS FOR COATING AND COMPONENTS HAVING COATINGS FOR ELECTRICAL CONDUCTIVITY**
[54] **PROCEDES DE REVETEMENT ET ELEMENTS AYANT DES REVETEMENTS POUR CONDUCTIVITE ELECTRIQUE**
[72] PHAM, HAIKHANH DAO, US
[72] BOURGES, LAURENT, US
[72] STEPHAN, JOHAN, FR
[71] HI-SHEAR CORPORATION, US
[71] LISI AEROSPACE, FR
[85] 2023-02-01
[86] 2021-08-02 (PCT/US2021/044232)
[87] (WO2022/035634)
[30] US (63/064,892) 2020-08-12

[21] **3,190,594**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC SYNDROME**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU SYNDROME METABOLIQUE**
[72] ABRAMS, MARC, US
[72] WONDIMU, ELISABETH, US
[72] BASURAY, SOUMIK, US
[71] DICERNA PHARMACEUTICALS INC., US
[85] 2023-02-01
[86] 2021-08-04 (PCT/US2021/044544)
[87] (WO2022/031850)
[30] US (63/061,045) 2020-08-04
[30] US (63/082,762) 2020-09-24

[21] **3,190,596**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) C12N 7/02 (2006.01)**
[25] EN
[54] **FORMULATIONS FOR HIGHLY PURIFIED VIRAL PARTICLES**
[54] **FORMULATIONS POUR PARTICULES VIRALES HAUTEMENT PURIFIEES**
[72] TOMKOWICZ, BRIAN E., US
[72] ERCOLINO, MATTHEW P., US
[72] SPAGNOL, STEPHEN T., US
[72] MOHAPATRA, SAKYA SING, US
[72] SMITH, JEFFREY, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-02-01
[86] 2021-08-06 (PCT/US2021/044955)
[87] (WO2022/032104)
[30] US (63/063,128) 2020-08-07
[30] US (63/063,108) 2020-08-07

[21] **3,190,593**
[13] A1

[51] **Int.Cl. A61K 31/41 (2006.01) A61K 31/4196 (2006.01) A61K 31/428 (2006.01) A61K 31/4375 (2006.01) A61K 31/497 (2006.01) A61K 31/498 (2006.01) A61P 7/00 (2006.01) A61P 7/06 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 407/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **UREA DERIVATIVES AS PYRUVATE KINASE ACTIVATORS**
[54] **DERIVES D'UREE UTILISES EN TANT QU'ACTIVATEURS DE LA PYRUVATE KINASE**
[72] SETTI, LINA Q., US
[72] CATHERS, BRIAN, US
[72] LI, ZHE, US
[72] NILAR, SHAHUL, US
[72] PARTRIDGE, JAMES, US
[72] YU, CHUL, US
[72] YU, MING, US
[72] ZANCANELLA, MANUEL, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2023-01-31
[86] 2021-08-03 (PCT/US2021/044388)
[87] (WO2022/031735)
[30] US (63/060,345) 2020-08-03

[21] **3,190,595**
[13] A1

[51] **Int.Cl. C01B 17/033 (2006.01) C22B 1/11 (2006.01) C22B 3/10 (2006.01)**
[25] EN
[54] **RECOVERING METAL FROM METAL-BEARING MATERIAL**
[54] **RECUPERATION DE METAL A PARTIR D'UN MATERIAU METALLIFERE**
[72] FENNEL, MARK JAMES, US
[72] HACKL, RALPH PETER, US
[72] BROWN, PAUL LESLIE, US
[72] BURLEY, ADAM JAMES, US
[72] ALCAYAGA ZUNIGA, JAVIERA DEL PILAR, US
[72] MLADINIC MUNOZ, YURE ANTON, US
[71] RIO TINTO TECHNOLOGICAL RESOURCES INC., US
[85] 2023-01-31
[86] 2021-07-30 (PCT/US2021/043908)
[87] (WO2022/026833)

[21] **3,190,598**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **AUTOMATICALLY-LOCKING VACUUM SYRINGES, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **SERINGUES SOUS VIDE A VERROUILLAGE AUTOMATIQUE, ET METHODES ET SYSTEMES ASSOCIES**
[72] RUGGLES, KENDALL ANNE, US
[72] MERRITT, BENJAMIN EDWARD, US
[72] STRAUSS, BRIAN MICHAEL, US
[72] THRESS, JOHN COLEMAN, US
[72] HUNTER, EVAN STUART, US
[72] ZIKRY, CHRISTOPHER ANDREW, US
[71] INARI MEDICAL, INC., US
[85] 2023-02-01
[86] 2021-08-06 (PCT/US2021/045072)
[87] (WO2022/032173)
[30] US (63/061,902) 2020-08-06

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[21] **3,190,599**
[13] A1

[51] **Int.Cl. H04L 12/28 (2006.01)**
[25] EN
[54] **MULTICAST SERVICE RECEIVING METHOD, MULTICAST SERVICE CONFIGURATION METHOD, TERMINAL, AND NETWORK-SIDE DEVICE**
[54] **PROCEDE DE RECEPTION DE SERVICE MULTIDIFFUSION, PROCEDE DE CONFIGURATION DE SERVICE MULTIDIFFUSION, TERMINAL ET DISPOSITIF COTE RESEAU**
[72] LIU, JIAMIN, CN
[71] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2023-02-01
[86] 2021-08-04 (PCT/CN2021/110510)
[87] (WO2022/028463)
[30] CN (202010780254.5) 2020-08-05

[21] **3,190,600**
[13] A1

[51] **Int.Cl. E04G 1/15 (2006.01) E04G 1/24 (2006.01) E04G 3/28 (2006.01)**
[25] EN
[54] **SERVICE PLATFORM FOR COLLAPSING FRAME**
[54] **PLATEFORME DE SERVICE POUR CHASSIS PLIABLE**
[72] LIBUNAO, GEORGE, US
[72] WEST, SOLOMON O'NEIL, US
[71] TRANSCONTINENTAL HOLDING CORP., US
[85] 2023-01-31
[86] 2021-07-30 (PCT/US2021/044037)
[87] (WO2022/026910)
[30] US (63/059,797) 2020-07-31

[21] **3,190,601**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61K 31/7088 (2006.01) A61P 21/00 (2006.01) A61P 25/00 (2006.01) C12N 15/12 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **NUCLEIC ACID CONSTRUCTS AND USES THEREOF FOR TREATING SPINAL MUSCULAR ATROPHY**
[54] **CONSTRUCTIONS D'ACIDES NUCLEIQUES ET LEURS UTILISATIONS POUR LE TRAITEMENT DE L'AMYOTROPHIE SPINALE**
[72] ZHU, PEIXIN, US
[72] YE, GUOJIE, US
[72] WU, ZHENHUA, US
[72] WANG, LIJUN, US
[71] HANGZHOU EXEGENESIS BIO LTD., CN
[85] 2023-02-01
[86] 2021-08-04 (PCT/CN2021/110521)
[87] (WO2022/028472)
[30] CN (PCT/CN2020/107173) 2020-08-05
[30] CN (PCT/CN2020/138056) 2020-12-21

[21] **3,190,602**
[13] A1

[51] **Int.Cl. A61K 31/4365 (2006.01) A61K 31/519 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **INHIBITORS OF SHORT-CHAIN DEHYDROGENASE ACTIVITY FOR TREATING NEURODEGENERATION**
[54] **INHIBITEURS DE L'ACTIVITE DE LA DESHYDROGENASE A CHAINE COURTE POUR LE TRAITEMENT DE LA NEURODEGENERESCE**
[72] MARKOWITZ, SANFORD, US
[72] PIEPER, ANDREW, US
[72] LI, HONGYUN, US
[72] SHIN, MIN-KYOO, US
[72] KOH, YEOJUNG, US
[72] READY, JOSEPH, US
[72] ROSA, EDWIN VAZQUEZ, US
[71] CASE WESTERN RESERVE UNIVERSITY, US
[71] THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERAN AFFAIRS, US
[71] UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER, US
[85] 2023-02-01
[86] 2021-08-09 (PCT/US2021/045231)
[87] (WO2022/032230)
[30] US (63/062,874) 2020-08-07

[21] **3,190,603**
[13] A1

[51] **Int.Cl. F24C 7/06 (2006.01) A24F 40/20 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01) A24F 40/485 (2020.01) A24F 40/51 (2020.01) A24F 40/57 (2020.01) A61M 15/00 (2006.01)**
[25] EN
[54] **DUAL CONVECTION AND CONDUCTION OVEN FOR FLOWER STICK**
[54] **FOUR A DOUBLE CONVECTION ET A CONDUCTION POUR BATON DE FLEURS**
[72] SIMPSON, MICHAEL LEE, US
[72] BICKERTON, MATTHEW JAMES, US
[71] FLAT PLANET LIMITED, CN
[85] 2023-01-31
[86] 2021-07-31 (PCT/US2021/044095)
[87] (WO2022/026938)
[30] US (63/059,894) 2020-07-31

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[21] **3,190,604**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **TREATMENT OF OBESITY IN SUBJECTS HAVING VARIANT NUCLEIC ACID MOLECULES ENCODING CALCITONIN RECEPTOR (CALCR)**
[54] **TRAITEMENT DE L'OBESITE CHEZ DES SUJETS AYANT DES MOLECULES D'ACIDE NUCLEIQUE VARIANTES CODANT POUR LE RECEPTEUR DE LA CALCITONINE (CALCR)**
[72] LOTTA, LUCA ANDREA, US
[72] AKBARI, PARSA, US
[72] FERREIRA, MANUEL ALLEN REVEZ, US
[72] BARAS, ARIS, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2023-02-01
[86] 2021-08-13 (PCT/US2021/045887)
[87] (WO2022/040035)
[30] US (63/066,182) 2020-08-15
[30] US (63/108,308) 2020-10-31

[21] **3,190,605**
[13] A1

[51] **Int.Cl. C11D 1/12 (2006.01) C11D 1/83 (2006.01) C11D 3/20 (2006.01) C11D 3/44 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **ACIDIC CLEANING AND DISINFECTING COMPOSITIONS**
[54] **COMPOSITIONS ACIDES NETTOYANTES ET DESINFECTANTES**
[72] FALK, NANCY A., US
[72] SCHEUING, DAVID R., US
[72] DAY, HEATHER L., US
[72] CHEN, SZU-YING, US
[72] PARRISH, BRYAN K., US
[72] FRAUSTO, FANNY, US
[72] GHARAKHANIAN, ERIC G., US
[72] KING, WILLIAM, US
[71] THE CLOROX COMPANY, US
[85] 2023-02-01
[86] 2021-08-18 (PCT/US2021/046534)
[87] (WO2022/040332)
[30] US (63/068,706) 2020-08-21

[21] **3,190,606**
[13] A1

[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTIBODY-TLR AGONIST CONJUGATES, METHODS AND USES THEREOF**
[54] **CONJUGUES ANTICORPS-AGONISTES DE TLR, PROCEDES ET UTILISATIONS DE CEUX-CI**
[72] MOON, SUNG-JU, US
[72] LEON, BRIAN, US
[72] KANG, MINGCHAO, US
[72] KNUDSEN, NICKOLAS, US
[72] SAKAMURI, SUKUMAR, US
[72] TIAN, FENG, US
[71] AMBRX, INC., US
[85] 2023-02-01
[86] 2021-08-20 (PCT/US2021/047009)
[87] (WO2022/040596)
[30] US (63/068,342) 2020-08-20
[30] US (63/118,365) 2020-11-25

[21] **3,190,607**
[13] A1

[51] **Int.Cl. H04W 28/22 (2009.01)**
[25] EN
[54] **TRANSMISSION METHOD FOR PHYSICAL UPLINK CONTROL CHANNEL, TERMINAL, AND BASE STATION**
[54] **PROCEDE DE TRANSMISSION POUR UN CANAL DE COMMANDE DE LIAISON MONTANTE PHYSIQUE, TERMINAL ET STATION DE BASE**
[72] ZHANG, YI, CN
[72] XIA, LIANG, CN
[72] WU, DAN, CN
[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN
[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN
[85] 2023-02-01
[86] 2021-08-06 (PCT/CN2021/111216)
[87] (WO2022/028581)
[30] CN (202010790995.1) 2020-08-07

[21] **3,190,608**
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01) B64D 45/00 (2006.01) B64D 47/02 (2006.01)**
[25] EN
[54] **CABIN FOR AN AIRCRAFT, HAVING A MONITORING ASSEMBLY, AIRCRAFT HAVING THE CABIN, MONITORING ASSEMBLY AND METHOD FOR MONITORING A CABIN OF AN AIRCRAFT**
[54] **CABINE DESTINEE A UN AERONEF COMPRENANT UN DISPOSITIF DE SURVEILLANCE, AERONEF COMPRENANT LA CABINE, DISPOSITIF DE SURVEILLANCE ET PROCEDE DE SURVEILLANCE D'UNE CABINE D'UN AERONEF**
[72] FUCHTE, JORG, DE
[72] SCHMEDES, MARCEL, DE
[72] JIRSCH, MICHAEL, DE
[71] DIEHL AEROSPACE GMBH, DE
[71] DIEHL AVIATION LAUPHEIM GMBH, DE
[85] 2023-01-31
[86] 2021-08-19 (PCT/EP2021/073042)
[87] (WO2022/038227)
[30] DE (10 2020 210 572.3) 2020-08-20

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[21] **3,190,609**
[13] A1

[51] **Int.Cl. A61K 31/438 (2006.01) A61P 13/12 (2006.01) C07D 495/20 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **INHIBITORS OF APOL1 AND METHODS OF USING SAME**

[54] **INHIBITEURS D'APOL1 ET LEURS METHODES D'UTILISATION**

[72] AHN, JUN MYUN, US

[72] ANGLE, SAMANTHA, US

[72] BRODNEY, MICHAEL AARON, US

[72] CAO, JINGRONG, US

[72] COCHRAN, JOHN E., US

[71] COME, JON H., US

[72] DAKIN, LESLIE A., US

[72] DOLGIKH, ELENA, US

[72] MAXWELL, BRAD D., US

[72] NANTHAKUMAR, SUGANTHINI S., US

[72] O'DOWD, HARDWIN, US

[72] OLSEN, JESSICA HOWARD, US

[72] SENTER, TIMOTHY J., US

[72] SHIMIZU, AKIRA JOSEPH, US

[72] STONE, STEVEN DAVID, US

[72] WANG, HAOXUAN, US

[71] VERTEX PHARMACEUTICALS INCORPORATED, US

[85] 2023-02-01

[86] 2021-08-26 (PCT/US2021/047754)

[87] (WO2022/047031)

[30] US (63/070,705) 2020-08-26

[21] **3,190,611**
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12N 5/0735 (2010.01) C12N 5/077 (2010.01) C12M 1/00 (2006.01) C12M 3/00 (2006.01)**

[25] EN

[54] **PROCESS SYSTEM FOR BIOREACTOR-BASED CLEAN MEAT PRODUCTION**

[54] **SYSTEME DE TRAITEMENT POUR LA PRODUCTION DE VIANDE CULTIVEE A BASE D'UN BIOREACTEUR**

[72] WEISSENBACH, JEAN-LOUIS, US

[72] SYLVIA, RYAN, US

[72] VON DER BRELIE, ALMUT, DE

[72] BRANDL, MELANIE, DE

[72] FESENFELD, MICHAELA, DE

[71] MERCK PATENT GMBH, DE

[85] 2023-02-01

[86] 2021-08-19 (PCT/EP2021/073079)

[87] (WO2022/038241)

[30] US (63/068,406) 2020-08-21

[21] **3,190,612**
[13] A1

[51] **Int.Cl. B65G 21/20 (2006.01)**

[25] EN

[54] **MOUNT FOR ADJUSTABLE CONVEYOR BELT GUIDERAIL AND RELATED METHODS**

[54] **SUPPORT POUR RAIL DE GUIDAGE DE BANDE TRANSPORTEUSE REGLABLE ET PROCEDES ASSOCIES**

[72] LAYNE, JAMES L., US

[72] FYE, STEPHEN C., US

[72] COTTON, AARON, US

[72] LASLEY, NATHAN, US

[71] SPAN TECH LLC, US

[85] 2023-02-01

[86] 2021-08-31 (PCT/US2021/048382)

[87] (WO2022/047362)

[30] US (63/072,300) 2020-08-31

[21] **3,190,613**
[13] A1

[51] **Int.Cl. G05D 1/00 (2006.01) G06N 20/00 (2019.01) B60W 60/00 (2020.01) B60W 50/00 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM AND COMPUTER READABLE MEDIUM FOR CALIBRATION OF COOPERATIVE SENSORS**

[54] **PROCEDE, SYSTEME ET SUPPORT LISIBLE PAR ORDINATEUR PERMETTANT L'ETALONNAGE DE CAPTEURS COOPERATIFS**

[72] HASNAIN, ALI, SG

[72] BUYUKBURC, KUTLUHAN, SG

[72] RAVINDRANATH, PRADEEP ANAND, SG

[71] CURIUM PTE. LTD., SG

[85] 2023-02-01

[86] 2021-07-30 (PCT/SG2021/050444)

[87] (WO2022/031226)

[30] SG (10202007357Y) 2020-08-01

[21] **3,190,614**
[13] A1

[51] **Int.Cl. F03D 17/00 (2016.01)**

[25] EN

[54] **MEASURING DEVICE FOR WIND TURBINES**

[54] **DISPOSITIF DE MESURE POUR EOLIENNES**

[72] MOSER, MICHAEL, AT

[72] LOSS, THERESA, AT

[71] EOLOGIX SENSOR TECHNOLOGY GMBH, AT

[85] 2023-02-02

[86] 2021-08-12 (PCT/AT2021/060282)

[87] (WO2022/032321)

[30] AT (A50683/2020) 2020-08-14

[21] **3,190,616**
[13] A1

[51] **Int.Cl. B29C 73/10 (2006.01)**

[25] EN

[54] **METHOD FOR REPAIRING SURFACE DEFECT WITH A FAST CURING PATCH**

[54] **PROCEDE DE REPARATION D'UN DEFAUT DE SURFACE AVEC UN TIMBRE A DURCISSEMENT RAPIDE**

[72] HABIBPOUR, MEHDI, US

[72] LERTOLA, MATT JAMES, US

[72] SEABOLDT, CARLTON G., US

[72] SHOULDICE, GRANT, US

[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-02-01

[86] 2021-09-07 (PCT/US2021/049190)

[87] (WO2022/055832)

[30] US (63/075,928) 2020-09-09

[30] US (17/466,149) 2021-09-03

[21] **3,190,617**
[13] A1

[51] **Int.Cl. G01N 27/904 (2021.01)**

[25] EN

[54] **C-SCAN DATA MERGING**

[54] **FUSION DE DONNEES DE BALAYAGE C**

[72] LECLERC, REMI, CA

[71] EVIDENT CANADA, INC., CA

[85] 2023-02-02

[86] 2021-08-30 (PCT/CA2021/051197)

[87] (WO2022/040812)

[30] US (63/072,437) 2020-08-31

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[21] **3,190,618**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/135 (2006.01) A61K 47/06 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01) A61K 47/38 (2006.01) A61P 23/02 (2006.01) A61P 25/24 (2006.01) A61P 29/02 (2006.01)**

[25] EN
[54] **ESKETAMINE-SUSPENSION-TTS**
[54] **TTS DE SUSPENSION D'ESKETAMINE**

[72] DR. HAMMES, FLORIAN, DE
[72] TOMELERI, ANJA, DE
[72] KLEUDGEN, TOBIAS, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE

[85] 2023-02-02
[86] 2021-07-22 (PCT/EP2021/070578)
[87] (WO2022/028913)
[30] EP (20189832.7) 2020-08-06

[21] **3,190,619**
[13] A1

[51] **Int.Cl. B03D 1/002 (2006.01) B03D 1/08 (2006.01) C22B 15/00 (2006.01)**

[25] EN
[54] **PROCESSING METHOD**
[54] **PROCEDE DE TRAITEMENT**

[72] BURLEY, ADAM JAMES, US
[72] ALCAYAGA ZUNIGA, JAVIERA DEL PILAR, US
[72] MLADINIC MUNOZ, YURE ANTON, US

[71] RIO TINTO TECHNOLOGICAL RESOURCES INC., US

[85] 2023-01-31
[86] 2021-07-30 (PCT/US2021/043878)
[87] (WO2022/026817)
[30] US (16/944,379) 2020-07-31

[21] **3,190,621**
[13] A1

[51] **Int.Cl. B05D 5/00 (2006.01) B29C 73/02 (2006.01) C09D 5/34 (2006.01)**

[25] EN
[54] **ULTRA-FAST UV-CURED MATERIAL FOR REPAIRING SURFACE IMPERFECTIONS**

[54] **MATERIAU DURCI PAR UV DE MANIERE ULTRA-RAPIDE POUR LA REPARATION D'IMPERFECTIONS DE SURFACE**

[72] HABIBPOUR, MEHDI, US
[72] LERTOLA, MATT JAMES, US
[72] SHOULDICE, GRANT, US
[71] ILLINOIS TOOL WORKS INC., US

[85] 2023-02-01
[86] 2021-09-08 (PCT/US2021/049344)
[87] (WO2022/055914)
[30] US (63/075,483) 2020-09-08
[30] US (17/467,799) 2021-09-07

[21] **3,190,622**
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 31/06 (2006.01)**

[25] EN
[54] **STORAGE SYSTEM, METHODS AND DEVICES**

[54] **SYSTEME, PROCEDES ET DISPOSITIFS DE STOCKAGE**

[72] STADIE, ROBERT, GB
[71] OCADO INNOVATION LIMITED, GB

[85] 2023-02-02
[86] 2021-07-28 (PCT/EP2021/071157)
[87] (WO2022/033875)
[30] GB (2012672.8) 2020-08-13
[30] GB (2012673.6) 2020-08-13
[30] GB (2012675.1) 2020-08-13

[21] **3,190,623**
[13] A1

[51] **Int.Cl. B65D 5/66 (2006.01)**

[25] EN
[54] **RECLOSABLE FROZEN FOOD PACKAGING CASE**

[54] **BOITE D'EMBALLAGE D'ALIMENTS CONGELES REFERMABLE**

[72] RENK, ZACHARY, US
[72] TOSTENSON, TAL A., US
[71] GENERAL MILLS, INC., US

[85] 2023-01-31
[86] 2020-07-31 (PCT/US2020/044430)
[87] (WO2022/025916)

[21] **3,190,624**
[13] A1

[51] **Int.Cl. A01G 9/14 (2006.01) A01G 31/06 (2006.01)**

[25] EN
[54] **STORAGE SYSTEM, METHODS AND DEVICES**

[54] **DISPOSITIFS, PROCEDES ET SYSTEME DE STOCKAGE**

[72] STADIE, ROBERT, GB
[71] OCADO INNOVATION LIMITED, GB

[85] 2023-02-02
[86] 2021-07-28 (PCT/EP2021/071162)
[87] (WO2022/033878)
[30] GB (2012672.8) 2020-08-13
[30] GB (2012673.6) 2020-08-13
[30] GB (2012675.1) 2020-08-13

[21] **3,190,625**
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) A01H 1/04 (2006.01) C12N 9/22 (2006.01) C12N 15/63 (2006.01)**

[25] EN
[54] **INCREASING GENE EDITING AND SITE-DIRECTED INTEGRATION EVENTS UTILIZING MEIOTIC AND GERMLINE PROMOTERS**

[54] **AUGMENTATION D'EDITION DE GENE ET D'EVENEMENTS D'INTEGRATION DIRIGES SUR LE SITE A L'AIDE DE PROMOTEURS MEIOTIQUES ET DE LIGNEE GERMINALE**

[72] BAUER, MATTHEW J., US
[72] KANIZAY, LISA, US
[72] LAMB, JONATHAN, US
[72] MARENGO, MATTHEW S., US
[72] O'BRIEN, BRENT, US
[71] MONSANTO TECHNOLOGY LLC, US

[85] 2023-02-01
[86] 2021-09-09 (PCT/US2021/049680)
[87] (WO2022/056139)
[30] US (63/076,705) 2020-09-10

Demandes PCT entrant en phase nationale

[21] **3,190,626**
[13] A1

[51] **Int.Cl. C10B 55/00 (2006.01) G06T 7/10 (2017.01) C10B 57/04 (2006.01) C10G 9/00 (2006.01) G01N 33/28 (2006.01)**

[25] EN

[54] **COKE MORPHOLOGY BY IMAGE SEGMENTATION**

[54] **MORPHOLOGIE DE COKE PAR SEGMENTATION D'IMAGE**

[72] CHAUDHURI, KAUSTAV, US

[72] REA, THOMAS M., US

[72] ROGEL, ESTRELLA, US

[72] OVALLES, CESAR, US

[72] HAJDU, PAUL E., US

[71] CHEVRON U.S.A. INC., US

[85] 2023-01-31

[86] 2021-07-26 (PCT/IB2021/056728)

[87] (WO2022/034406)

[30] US (63/064,998) 2020-08-13

[21] **3,190,627**
[13] A1

[51] **Int.Cl. F16B 21/02 (2006.01) F16B 35/06 (2006.01) F16B 37/04 (2006.01)**

[25] EN

[54] **MULTI-HEAD BOLT AND FASTENER SYSTEM**

[54] **BOULON A TETE MULTIPLE ET SYSTEME DE FIXATION**

[72] HUBER, JULIAN, DE

[72] READ, ANDREW, DE

[72] STURM, FLORIAN, DE

[71] PERI SE, DE

[85] 2023-02-01

[86] 2021-08-09 (PCT/IB2021/057337)

[87] (WO2022/029743)

[30] US (16/988,538) 2020-08-07

[21] **3,190,629**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B66C 7/00 (2006.01) E04B 1/36 (2006.01) E04H 9/02 (2006.01) F16M 7/00 (2006.01)**

[25] EN

[54] **A GRID LEVELLING MECHANISM**

[54] **MECANISME DE MISE A NIVEAU DE GRILLE**

[72] KIRBY, OLIVER, GB

[72] NOAR, BENJAMIN ARTHUR PORTNOY, GB

[72] INGRAM-TEDD, ANDREW, GB

[72] MILLWARD, STEPHEN, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-02-02

[86] 2021-08-12 (PCT/EP2021/072536)

[87] (WO2022/034189)

[30] GB (2012740.3) 2020-08-14

[30] GB (2012751.0) 2020-08-14

[30] GB (2013968.9) 2020-09-04

[30] GB (2016081.8) 2020-10-09

[30] GB (2016097.4) 2020-10-09

[21] **3,190,631**
[13] A1

[51] **Int.Cl. F24T 50/00 (2018.01) F24T 10/20 (2018.01) F28F 23/00 (2006.01)**

[25] EN

[54] **GENERATING GEOTHERMAL ENERGY USING MULTIPLE WORKING FLUIDS**

[54] **GENERATION D'UNE ENERGIE GEOTHERMIQUE A L'AIDE DE MULTIPLES FLUIDES DE TRAVAIL**

[72] TOEWS, MATTHEW, CA

[72] SCHWARZ, BAILEY, CA

[72] REDFERN, JOHN, CA

[72] CAIRNS, PAUL, CA

[72] ZATONSKI, VSEVOLOD, CA

[71] EAVOR TECHNOLOGIES INC., CA

[85] 2023-01-31

[86] 2021-08-05 (PCT/IB2021/057233)

[87] (WO2022/029699)

[30] US (63/061,385) 2020-08-05

[21] **3,190,632**
[13] A1

[51] **Int.Cl. G02F 1/025 (2006.01)**

[25] EN

[54] **SEMICONDUCTOR IQ MODULATOR**

[54] **MODULATEUR IQ A SEMI-CONDUCTEUR**

[72] OZAKI, JOSUKE, JP

[72] OGISO, YOSHIHIRO, JP

[72] HASHIZUME, YASUAKI, JP

[72] TANOBE, HIROMASA, JP

[72] ISHIKAWA, MITSUTERU, JP

[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP

[85] 2023-02-01

[86] 2020-08-03 (PCT/JP2020/029726)

[87] (WO2022/029855)

[21] **3,190,633**
[13] A1

[51] **Int.Cl. F16L 15/04 (2006.01)**

[25] EN

[54] **PIPE SCREW JOINT AND CONNECTION METHOD THEREFOR**

[54] **ASSEMBLAGE PAR VISSAGE DE TUYAU ET SON PROCEDE DE RACCORDEMENT**

[72] YOSHIKAWA, MASAKI, JP

[72] GOTO, SEIGO, JP

[72] OZAKI, SEIJI, JP

[72] SATO, HIDEO, JP

[71] JFE STEEL CORPORATION, JP

[85] 2023-02-01

[86] 2020-09-30 (PCT/JP2020/037353)

[87] (WO2022/070367)

PCT Applications Entering the National Phase

[21] **3,190,634**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTIBODIES AGAINST ILT2 AND USE THEREOF**

[54] **ANTICORPS CONTRE ILT2 ET LEUR UTILISATION**

[72] MANDEL, ILANA, IL
[72] PERETZ, TSURI, IL
[72] HAVES ZIV, DANA, IL
[72] GOLDSHTEIN, ILANA, IL
[72] ALISHEKEVITZ, DROR, IL
[72] FRIDMAN-DROR, ANNA, IL
[72] HAKIM, MOTTI, IL
[72] SHULMAN, AVIDOR, IL
[72] SAPIR, YAIR, IL
[72] BEN-MOSHE, TEHILA, IL
[71] BIOND BIOLOGICS LTD., IL
[85] 2023-01-31
[86] 2021-08-11 (PCT/IB2021/057414)
[87] (WO2022/034524)
[30] IL (PCT/IL2020/050889) 2020-08-12
[30] US (63/145,604) 2021-02-04
[30] US (63/149,371) 2021-02-15

[21] **3,190,636**
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61F 9/007 (2006.01) A61K 31/525 (2006.01)**

[25] EN

[54] **OPHTHALMIC COMPOSITIONS FOR REMOVING MEIBUM OR INHIBITING MEIBUM BUILDUP**

[54] **COMPOSITIONS OPHTALMIQUES POUR L'ELIMINATION DE MEIBUM OU L'INHIBITION DE L'ACCUMULATION DE MEIBUM**

[72] SAWAYA, ASSAD, US
[71] ALTAIRE PHARMACEUTICALS, INC., US
[85] 2023-01-31
[86] 2021-07-30 (PCT/US2021/043861)
[87] (WO2022/026805)
[30] US (63/059,275) 2020-07-31

[21] **3,190,638**
[13] A1

[51] **Int.Cl. C22B 3/08 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERING LITHIUM**

[54] **PROCEDE DE RECUPERATION DE LITHIUM**

[72] ABE, TAKURO, JP
[72] SUZUKI, YUSUKE, JP
[72] KATAYAMA, SHINSUKE, JP
[71] KANTO DENKA KOGYO CO., LTD., JP
[85] 2023-02-01
[86] 2021-10-18 (PCT/JP2021/038461)
[87] (WO2022/085635)
[30] JP (2020-175537) 2020-10-19

[21] **3,190,639**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **EXPANDABLE SHEATH FOR INTRODUCING AN ENDOVASCULAR DELIVERY DEVICE INTO A BODY**

[54] **GAINE EXPANSIBLE DESTINEE A INTRODUIRE UN DISPOSITIF D'ACHEMINEMENT ENDOVASCULAIRE DANS UN CORPS**

[72] LEE, JEONG SOO, US
[72] GAFFNEY, LEAH PAIGE, US
[72] KIM, JUDY, US
[72] MORA, DAVID, US
[72] ANDERSON, ELIZABETH ANNE, US
[72] TRAN, SONNY, US
[72] SALEH, NASSER WILLIAM, US
[72] TAMIR, ILAN, US
[72] FINE, MAXWELL HARRISON, US
[72] NGUYEN, DUY, US
[72] NGUYEN, KIM D., US
[72] NGUYEN, THANH V., US
[72] BULMAN, ERIK, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2023-01-31
[86] 2021-05-07 (PCT/US2021/031275)
[87] (WO2022/026026)
[30] US (63/059,772) 2020-07-31

[21] **3,190,640**
[13] A1

[51] **Int.Cl. C12N 1/04 (2006.01) C12N 1/12 (2006.01)**

[25] EN

[54] **COMPOSITION FOR FREEZE-PRESERVING MICROALGAE BELONGING TO FAMILY THRAUSTOCHYTRIACEAE AND METHOD FOR FREEZE-PRESERVING OF MICROALGAE BELONGING TO THRAUSTOCHYTRIACEAE USING SAME**

[54] **COMPOSITION POUR LA CONSERVATION PAR CONGELATION DE MICRO-ALGUES APPARTENANT A LA FAMILLE DES THRAUSTOCHYTRIACEAE ET PROCEDE DE CONSERVATION PAR CONGELATION DE MICRO-ALGUES APPARTENANT A DES THRAUSTOCHYTRIACEAE L'UTILISANT**

[72] JANG, SUNG HOON, KR
[72] SHIN, WON SUB, KR
[72] CHOI, JUNG WOON, KR
[72] KANG, HAE WON, KR
[72] KIM, JI YOUNG, KR
[72] OK, SEUNG HAN, KR
[72] JANG, HO SUN, KR
[72] KIM, JONG MIN, KR
[72] LEE, JIN HO, KR
[72] KIM, DAE CHEOL, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2023-02-01
[86] 2021-10-01 (PCT/KR2021/013515)
[87] (WO2022/154212)
[30] KR (10-2021-0006814) 2021-01-18

Demandes PCT entrant en phase nationale

[21] **3,190,642**
[13] A1

[51] **Int.Cl. A61K 9/107 (2006.01) A61K 47/44 (2017.01) A61P 27/04 (2006.01)**

[25] EN

[54] **OPHTHALMIC COMPOSITIONS FOR DELIVERING MEIBUM-LIKE MATERIALS**

[54] **COMPOSITIONS OPHTALMIQUES D'ADMINISTRATION DE MATERIAU DE TYPE MEIBUM**

[72] SAWAYA, ASSAD, US

[71] ALTAIRE PHARMACEUTICALS, INC., US

[85] 2023-01-31

[86] 2021-07-30 (PCT/US2021/043842)

[87] (WO2022/026796)

[30] US (63/059,261) 2020-07-31

[21] **3,190,645**
[13] A1

[51] **Int.Cl. A61K 31/416 (2006.01) A61K 31/4192 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) C07D 209/00 (2006.01) C07D 209/34 (2006.01) C07D 231/56 (2006.01) C07D 235/26 (2006.01) C07D 249/18 (2006.01) C07D 263/54 (2006.01) C07D 277/62 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS**

[54] **NOUVEAUX COMPOSES**

[72] MILLER, NEIL, GB

[72] RUTTER, RICHARD, GB

[72] KULAGOWSKI, JAN, GB

[72] MORPHY, RICHARD, GB

[72] LADDUWAHETTY, TAMMY, GB

[72] MACLEAN, JOHN, GB

[72] MOROGLU, MUSTAFA, GB

[72] TALBOT, ERIC, GB

[72] ROWLEY, MICHAEL, GB

[71] NRG THERAPEUTICS LTD., GB

[85] 2023-02-02

[86] 2021-09-01 (PCT/GB2021/052261)

[87] (WO2022/049376)

[30] GB (2013728.7) 2020-09-01

[21] **3,190,646**
[13] A1

[51] **Int.Cl. D21H 25/04 (2006.01) B32B 29/00 (2006.01) D21H 11/18 (2006.01) D21H 27/30 (2006.01)**

[25] EN

[54] **A METHOD FOR PRODUCING A MULTILAYER MACHINE GLAZED PAPER COMPRISING HIGHLY REFINED CELLULOSE FIBERS AND A MULTILAYER MACHINE GLAZED PAPER PRODUCED**

[54] **PROCEDE DE PRODUCTION DE PAPIER SATINE SUR MACHINE MULTICOUCHE COMPRENANT DES FIBRES DE CELLULOSE HAUTEMENT RAFFINEES ET PAPIER SATINE SUR MACHINE MULTICOUCHE PRODUIT**

[72] HEISKANEN, ISTO, FI

[72] BACKFOLK, KAJ, FI

[72] KAUPPI, ANNA, FI

[72] KANKKUNEN, JUKKA, FI

[72] KORVENNIEMI, JUHA, FI

[71] STORA ENSO OYJ, FI

[85] 2023-01-31

[86] 2021-08-31 (PCT/IB2021/057942)

[87] (WO2022/049484)

[30] SE (2051027-7) 2020-09-01

[21] **3,190,648**
[13] A1

[25] EN

[54] **A GRID FRAMEWORK STRUCTURE**

[54] **STRUCTURE A OSSATURE EN FORME DE GRILLE**

[72] NOAR, BENJAMIN, ARTHUR PORTNOY, GB

[72] KAROLINCZAK, PAWEL, GB

[72] INGRAM-TEDD, ANDREW, GB

[72] MILLWARD, STEPHEN, GB

[72] PATON, CHRISTOPHER JAMES, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-02-02

[86] 2021-08-12 (PCT/EP2021/072532)

[87] (WO2022/034187)

[30] GB (2012740.3) 2020-08-14

[30] GB (2012751.0) 2020-08-14

[30] GB (2013968.9) 2020-09-04

[30] GB (2016081.8) 2020-10-09

[30] GB (2016097.4) 2020-10-09

[21] **3,190,649**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION INCLUDING CELL EXPRESSING CHIMERIC RECEPTOR**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DES CELLULES EXPRIMANT UN RECEPTEUR CHIMERIQUE**

[72] IGAWA, TOMOYUKI, SG

[72] SAKURAI, MIKA, JP

[72] SUZUKI, TAKASHI, JP

[72] TATSUMI, KANAKO, JP

[72] SHIMIZU, SHUN, JP

[72] TAMADA, KOJI, JP

[72] SAKODA, YUKIMI, JP

[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP

[71] YAMAGUCHI UNIVERSITY, JP

[85] 2023-01-31

[86] 2021-07-30 (PCT/JP2021/028230)

[87] (WO2022/025220)

[30] JP (2020-131116) 2020-07-31

[21] **3,190,650**
[13] A1

[51] **Int.Cl. A01G 3/08 (2006.01) B23D 61/02 (2006.01)**

[25] EN

[54] **CLEARING SAW BLADE WITH INDEXING INDICIA**

[54] **LAME DE DEBROUSSAILLEUSE A INDICE D'INDEXATION**

[72] LIKIDOU, PANAGIOTA, SE

[72] HAGBERG, ALBIN, SE

[72] MELIN, PATRIK, SE

[71] HUSQVARNA AB, SE

[85] 2023-01-31

[86] 2021-07-09 (PCT/SE2021/050707)

[87] (WO2022/031202)

[30] SE (2050935-2) 2020-08-05

PCT Applications Entering the National Phase

[21] **3,190,651**
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01) F21V 8/00 (2006.01) G02B 6/26 (2006.01) G02B 27/00 (2006.01) G02B 27/10 (2006.01) G02B 27/14 (2006.01)**

[25] EN

[54] **OPTICAL SYSTEM FOR TWO-DIMENSIONAL EXPANSION OF AN IMAGE REDUCING GLINTS AND GHOSTS FROM THE WAVEDUIDE**

[54] **SYSTEME OPTIQUE POUR L'EXPANSION BIDIMENSIONNELLE D'UNE IMAGE REDUISANT LES REFLETS ET LA REMANENCE A PARTIR DU GUIDE D'ONDES**

[72] DANZIGER, YOCHAY, IL
[72] GRABARNIK, SHIMON, IL
[72] CHRIKI, RONEN, IL
[72] RONEN, EITAN, IL
[72] SHARLIN, ELAD, IL
[71] LUMUS LTD., IL
[85] 2023-02-02
[86] 2021-08-23 (PCT/IL2021/051034)
[87] (WO2022/044001)
[30] US (63/069,059) 2020-08-23
[30] US (63/072,174) 2020-08-30
[30] US (63/076,971) 2020-09-11

[21] **3,190,655**
[13] A1

[51] **Int.Cl. C09D 175/04 (2006.01) C09D 7/61 (2018.01) C09D 5/14 (2006.01) C09D 5/16 (2006.01) C09D 133/04 (2006.01) A01N 59/16 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL COATING**

[54] **REVETEMENT ANTIMICROBIEN**

[72] TRICOLI, ANTONIO, AU
[72] NISBET, DAVID, AU
[72] ASHOK, DEEPU, AU
[72] TAHERI, MAHDIAR, AU
[71] NANOSTRATUS PTY LTD, AU
[85] 2023-02-03
[86] 2021-08-06 (PCT/AU2021/050860)
[87] (WO2022/027103)
[30] AU (2020902767) 2020-08-06

[21] **3,190,659**
[13] A1

[51] **Int.Cl. H05B 3/00 (2006.01) F16L 25/00 (2006.01) F16L 53/00 (2018.01) F24H 1/14 (2006.01) H01R 43/00 (2006.01) H05B 1/02 (2006.01)**

[25] EN

[54] **SELF-REGULATING HEATED HOSE ASSEMBLY AND METHOD OF MAKING**

[54] **ENSEMBLE TUYAU CHAUFFE AUTO-REGULE ET SON PROCEDE DE FABRICATION**

[72] FERRONE, WILLIAM, US
[72] FERRONE, CHRISTOPHER, US
[71] SYKES HOLLOW INNOVATIONS, LTD., US
[85] 2023-02-02
[86] 2020-08-05 (PCT/US2020/044984)
[87] (WO2022/031282)

[21] **3,190,661**
[13] A1

[51] **Int.Cl. A61B 8/14 (2006.01) A61B 8/00 (2006.01) A61B 8/06 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR ULTRASOUND IMAGING**

[54] **PROCEDES ET SYSTEMES D'ECHOGRAPHIE**

[72] BLAIS, SIMON, CA
[72] POREE, JONATHAN, CA
[72] PROVOST, JEAN, CA
[71] POLYVALOR, LIMITED PARTNERSHIP, CA
[85] 2023-02-03
[86] 2021-08-05 (PCT/CA2021/051087)
[87] (WO2022/027134)
[30] US (63/062,107) 2020-08-06

[21] **3,190,664**
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/06 (2006.01) A61B 8/08 (2006.01) G01N 29/06 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR ULTRASOUND IMAGING OF A BODY IN MOTION**

[54] **PROCEDES ET SYSTEMES D'IMAGERIE PAR ULTRASON D'UN CORPS EN MOUVEMENT**

[72] CORMIER, PHILIPPE, CA
[72] POREE, JONATHAN, CA
[72] PROVOST, JEAN, CA
[71] POLYVALOR, LIMITED PARTNERSHIP, CA
[85] 2023-02-03
[86] 2021-08-05 (PCT/CA2021/051088)
[87] (WO2022/027135)
[30] US (63/061,925) 2020-08-06

[21] **3,190,665**
[13] A1

[51] **Int.Cl. A63F 13/77 (2014.01) A63F 13/798 (2014.01) A63F 13/85 (2014.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING RECOMMENDATIONS TO IMPROVE GAMEPLAY**

[54] **SYSTEMES ET PROCEDES DE FOURNITURE DE RECOMMANDATIONS POUR AMELIORER LA JOUABILITE**

[72] PICHAIMURTHY, RAJENDRAN, IN
[72] SANTHA, DOLPHIN MASILAMANY, IN
[72] VISWANATHAN, PRAKASH, IN
[71] ROVI GUIDES, INC., US
[85] 2023-02-02
[86] 2020-12-28 (PCT/US2020/067214)
[87] (WO2022/031305)
[30] US (16/985,717) 2020-08-05

Demandes PCT entrant en phase nationale

[21] **3,190,670**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A01N 63/22 (2020.01) A01P 1/00 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **PLANT GROWTH PROMOTING BACTERIA**

[54] **BACTERIES FAVORISANT LA CROISSANCE DES PLANTES**

[72] JUTEAU, JEAN-MARC, CA

[72] SIROIS, MARC, CA

[72] KLOEPPER, JOE, US

[72] MCINROY, JOHN, US

[71] ABNATURA INC., CA

[71] AUBURN UNIVERSITY, US

[85] 2023-02-03

[86] 2021-08-10 (PCT/CA2021/051105)

[87] (WO2022/032382)

[30] US (63/063,649) 2020-08-10

[21] **3,190,675**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/12 (2006.01) A61K 39/215 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ANTI-CORONAVIRUS VACCINES**

[54] **VACCINS ANTI-CORONAVIRUS**

[72] BAIMA, ERIC TODD, US

[72] BURAKOVA, YULIA, US

[72] DOMINOWSKI, PAUL JOSEPH, US

[72] DUNHAM, STEVEN ALAN, US

[72] HAINER, NICOLE LYNN, US

[72] HARDHAM, JOHN MORGAN, US

[72] KUMAR, MAHESH, US

[72] MILLERSHIP, JASON JOHN, US

[72] MWANGI, DUNCAN M., US

[72] RAI, SHARATH K., US

[72] WAPPEL, SHARON MARIE, US

[72] FOSS, DENNIS LEE, US

[72] LIZER, JOSHUA T., US

[72] WORKMAN, JASON J., US

[72] GILLIES, JAMES P., US

[72] MEHRA, RAJESH K., US

[71] ZOETIS SERVICES LLC, US

[85] 2023-02-02

[86] 2021-07-30 (PCT/US2021/043830)

[87] (WO2022/035612)

[30] US (63/064,225) 2020-08-11

[30] US (63/088,708) 2020-10-07

[30] US (63/145,045) 2021-02-03

[21] **3,190,677**
[13] A1

[51] **Int.Cl. H04W 24/00 (2009.01)**

[25] EN

[54] **METHOD FOR ENHANCING WIRELESS COMMUNICATION DEVICE MEASUREMENTS**

[54] **PROCEDE D'AMELIORATION DE MESURES DE DISPOSITIF DE COMMUNICATION SANS FIL**

[72] LU, TING, CN

[72] NIU, LI, CN

[72] DAI, BO, CN

[72] SHA, XIUBIN, CN

[71] ZTE CORPORATION, CN

[85] 2023-02-03

[86] 2020-08-07 (PCT/CN2020/107715)

[87] (WO2022/027559)

[21] **3,190,678**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **TREATMENT OF B CELL MALIGNANCIES**

[54] **TRAITEMENT DE MALIGNITES DES LYMPHOCYTES B**

[72] HASSOUNAH, NADIA, US

[72] CHAUDHURY, ANWESHA, US

[72] CHOUDHURY, SOMESH, US

[72] WOO, JANGHEE, US

[72] KUNDAMAL, NICOLE ANJU PUNJABI, US

[71] NOVARTIS AG, CH

[85] 2023-02-02

[86] 2021-08-02 (PCT/US2021/044113)

[87] (WO2022/031567)

[30] US (63/060,786) 2020-08-04

[30] US (63/114,363) 2020-11-16

[30] US (63/147,507) 2021-02-09

[21] **3,190,682**
[13] A1

[51] **Int.Cl. H04W 4/24 (2018.01)**

[25] EN

[54] **CHARGING PROCESSING METHOD SYSTEM AND RELATED DEVICE**

[54] **PROCEDE DE TRAITEMENT DE FACTURATION, SYSTEME, ET DISPOSITIF ASSOCIE**

[72] CHAI, XIAOQIAN, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2023-02-03

[86] 2021-06-01 (PCT/CN2021/097739)

[87] (WO2022/028076)

[30] CN (202010774810.8) 2020-08-04

[21] **3,190,683**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01)**

[25] EN

[54] **METHOD AND COMPOSITION OF UPREGULATING RNA INTERFERENCE PROCESS**

[54] **METHODE ET COMPOSITION DE REGULATION A LA HAUSSE DU PROCESSUS D'INTERFERENCE ARN**

[72] GOWEY, BRANDIE, US

[71] GOWEY RESEARCH GROUP, PLLC, US

[85] 2023-02-02

[86] 2021-08-03 (PCT/US2021/044399)

[87] (WO2022/031744)

[30] US (63/060,467) 2020-08-03

[21] **3,190,685**
[13] A1

[51] **Int.Cl. A61K 31/522 (2006.01) A61P 35/00 (2006.01) C07D 473/02 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY WITH ADENOSINE RECEPTOR ANTAGONISTS**

[54] **POLYTHERAPIE AVEC DES ANTAGONISTES DE RECEPTEUR D'ADENOSINE**

[72] FAN, PEIDONG, US

[72] YAO, LINA, US

[72] LIU, JIWEN, US

[72] ELZEIN, ELFATIH, US

[71] TEON THERAPEUTICS, INC., US

[85] 2023-02-02

[86] 2021-08-06 (PCT/US2021/044935)

[87] (WO2022/032091)

[30] US (63/062,857) 2020-08-07

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[21] **3,190,686**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUND AS BCL-2 INHIBITOR**

[54] **COMPOSE HETEROCYCLIQUE EN TANT QU'INHIBITEUR DE BCL-2**

[72] KONG, NORMAN XIANGLONG, CN

[72] ZHOU, CHAO, CN

[72] ZHENG, ZHIXIANG, CN

[71] BEIJING INNOCARE PHARMA TECH CO., LTD., CN

[85] 2023-02-03

[86] 2021-08-02 (PCT/CN2021/109991)

[87] (WO2022/028353)

[30] CN (202010782972.6) 2020-08-06

[21] **3,190,688**
[13] A1

[51] **Int.Cl. A41F 9/00 (2006.01) A41F 9/02 (2006.01)**

[25] EN

[54] **HIP THRUST BELT**

[54] **CEINTURE DE POUSSEE DE HANCHE**

[72] BECK, BRETT ANDREW, US

[72] BECK, HANNA-GRETA KIRBER, US

[72] PETERSON, ERIC, US

[72] SHENG, WANG PAI, US

[71] BELIEVE PURSUE LLC, US

[85] 2023-02-02

[86] 2021-08-10 (PCT/US2021/045450)

[87] (WO2022/035906)

[30] US (16/990,920) 2020-08-11

[21] **3,190,693**
[13] A1

[51] **Int.Cl. A45D 44/00 (2006.01) G06Q 30/06 (2023.01) A61K 8/00 (2006.01) B01J 13/10 (2006.01)**

[25] EN

[54] **SYSTEM AND DEVICE FOR CUSTOMIZATION OF COSMETICS**

[54] **SYSTEME ET DISPOSITIF POUR LA PERSONNALISATION DE PRODUITS COSMETIQUES**

[72] BRANDON, CHARLES C., US

[72] FLOYD, TRAVIS, US

[72] WALLACE, WALTER JOYNER, US

[72] BRAUGHT, AMANDA D., US

[72] LAM, JENNY L., US

[72] PHILLIPS, PETER, US

[72] POWERS, A. PHIL, US

[72] COHEN, CAMILLE, US

[72] SEEMAN, DAVE, US

[72] REESE, EVAN, US

[72] MEISS, MITCH, US

[72] RICHARDS, PETER J., US

[71] BLEE.LLC, US

[85] 2023-02-02

[86] 2021-08-19 (PCT/US2021/046632)

[87] (WO2022/040392)

[30] US (63/067,693) 2020-08-19

[21] **3,190,694**
[13] A1

[51] **Int.Cl. A61P 31/04 (2006.01) C07K 7/08 (2006.01) C07K 14/47 (2006.01) A61K 38/00 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL PEPTIDOMIMETICS**

[54] **PEPTIDOMIMETIQUES A ACTIVITE ANTIMICROBIENNE**

[72] OBRECHT, DANIEL, CH

[72] LUTHER, ANATOL, DE

[72] UPERT, GREGORY, FR

[72] DESJONQUERES, NICOLAS, FR

[72] BRABET, EMILE, FR

[72] ZBINDEN, PETER, CH

[72] ZERBE, OLIVER, CH

[72] MOHLE, KERSTIN, CH

[71] SPEXIS AG, CH

[71] UNIVERSITAT ZURICH, CH

[85] 2023-02-03

[86] 2021-08-05 (PCT/EP2021/025301)

[87] (WO2022/028737)

[30] EP (EP20020353.7) 2020-08-05

[21] **3,190,698**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/82 (2013.01)**

[25] EN

[54] **COMMISSURE MARKER FOR A PROSTHETIC HEART VALVE**

[54] **MARQUEUR DE COMMISSURE POUR VALVE CARDIAQUE PROTHETIQUE**

[72] BIALAS, MICHAEL R., US

[72] HICKS, KRISTEN, US

[72] MURAD, MICHAEL C., US

[72] SENESH, GIL, US

[72] ANGELICO, GONZALO GERMAN, US

[72] CERQUEIRA, CARLA SUSANA, US

[72] LOW, VICTORIA MARIKO, US

[72] FERNANDEZ, ANDREA, US

[72] NGUYEN, KIM D., US

[72] HOANG, LIEN HUONG THI, US

[72] BRITZMAN, KARL J., US

[72] HOYE, SHANNON NICOLE, US

[72] WHITEHEAD, HALEY NICOLE, US

[72] WINTERS, TAYLOR MICHAEL, US

[72] DO, VICKY HONG, US

[72] CORONA, JEANNETTE JASMINE, US

[72] ISHIGO, ASHLEY AKEMI, US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2023-02-02

[86] 2021-08-23 (PCT/US2021/047063)

[87] (WO2022/046588)

[30] US (63/069,567) 2020-08-24

[30] US (63/138,890) 2021-01-19

[21] **3,190,699**
[13] A1

[51] **Int.Cl. B01J 20/04 (2006.01) B01J 20/06 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01) B01J 23/00 (2006.01) B01D 53/94 (2006.01)**

[25] EN

[54] **OXYGEN STORAGE CAPACITY ENHANCED COMPOSITIONS**

[54] **COMPOSITIONS A CAPACITE DE STOCKAGE D'OXYGENE AMELIOREE**

[72] NG, SZU HWEE, SG

[72] DENG, SUZI, SG

[72] KOH, PERLYN, SG

[72] TAN, STEFFI, SG

[71] NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD., SG

[85] 2023-02-01

[86] 2021-07-22 (PCT/IB2021/000511)

[87] (WO2022/034373)

[30] US (63/064,610) 2020-08-12

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[21] **3,190,700**
[13] A1

[51] **Int.Cl. H01Q 1/12 (2006.01) H04B 1/02 (2006.01) H04B 1/40 (2015.01)**
[25] EN
[54] **SAFETY SENSORS**
[54] **CAPTEURS DE SECURITE**
[72] FAZEL, MAGID, US
[72] TAUDIEN, JERKER, US
[72] TERZIC, MILORAD M., US
[71] M & R TECHNOLOGY, LLC, US
[85] 2023-02-02
[86] 2021-08-23 (PCT/US2021/047108)
[87] (WO2022/046616)
[30] US (62/706,548) 2020-08-24

[21] **3,190,704**
[13] A1

[51] **Int.Cl. A61P 31/02 (2006.01) C07K 7/08 (2006.01) C07K 14/47 (2006.01) A61K 38/00 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL PEPTIDOMIMETICS**
[54] **PEPTIDOMIMETIQUES A ACTIVITE ANTIMICROBIENNE**
[72] OBRECHT, DANIEL, CH
[72] LUTHER, ANATOL, DE
[72] UPERT, GREGORY, FR
[72] DESJONQUERES, NICOLAS, FR
[72] BRABET, EMILIE, FR
[72] ZBINDEN, PETER, CH
[72] ZERBE, OLIVER, CH
[72] MOHLE, KERSTIN, CH
[71] SPEXIS AG, CH
[71] UNIVERSITAT ZURICH, CH
[85] 2023-02-03
[86] 2021-08-05 (PCT/EP2021/025302)
[87] (WO2022/028738)
[30] EP (20020354.5) 2020-08-05

[21] **3,190,705**
[13] A1

[51] **Int.Cl. A61J 1/10 (2006.01) A61J 1/00 (2023.01) A61J 1/05 (2006.01) A61J 1/12 (2006.01) A61J 1/14 (2006.01) A61J 1/16 (2006.01) A61J 1/20 (2006.01)**
[25] EN
[54] **BAG TRANSFER MECHANISM FOR IV COMPOUNDING**
[54] **MECANISME DE TRANSFERT DE SAC POUR MALAXAGE IV**
[72] ECKERT, ROBERT, US
[72] PETERSEN, WALTER, US
[72] BRAUN, EZEKIEL, US
[71] OMNICELL, INC., US
[85] 2023-02-02
[86] 2021-08-23 (PCT/US2021/047155)
[87] (WO2022/046637)
[30] US (17/005,637) 2020-08-28

[21] **3,190,707**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/215 (2006.01) A61P 31/14 (2006.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01)**
[25] EN
[54] **IMMUNE MEMORY ENHANCED PREPARATIONS AND USES THEREOF**
[54] **PREPARATIONS AMELIOREES A MEMOIRE IMMUNITAIRE ET LEURS UTILISATIONS**
[72] SUCKOW, MARK, US
[72] KALINAUSKAS, ASHLEY, US
[72] CLAUSON, RYAN MICHAEL, US
[71] TORIGEN PHARMACEUTICALS, INC., US
[85] 2023-02-02
[86] 2021-08-27 (PCT/US2021/048083)
[87] (WO2022/047248)
[30] US (63/072,073) 2020-08-28

[21] **3,190,709**
[13] A1

[51] **Int.Cl. C08L 67/06 (2006.01)**
[25] EN
[54] **FLAME RESISTANT BODY FILL COMPOSITION**
[54] **COMPOSITION DE REMPLISSAGE D'UN CORPS IGNIFUGE**
[72] TWARDOWSKA, HELENA, US
[72] SEABOLDT, CARLTON, US
[72] TURPIN, RICK, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2023-02-02
[86] 2021-09-08 (PCT/US2021/049341)
[87] (WO2022/055913)
[30] US (63/075,948) 2020-09-09
[30] US (17/467,697) 2021-09-07

[21] **3,190,711**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SELECTIVE APPLICATION OF COSMETIC COMPOSITION TO IMPART UNDEREYE BRIGHTENING**
[54] **SYSTEME ET PROCEDE D'APPLICATION SELECTIVE D'UNE COMPOSITION COSMETIQUE POUR CONFERER UN ECLAIRCISSEMENT SOUS LES YEUX**
[72] EDGAR, ALBERT DURR, US
[72] HIGGINS, LAURA, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2023-02-02
[86] 2021-07-30 (PCT/US2021/071079)
[87] (WO2022/032273)
[30] US (62/706,150) 2020-08-03

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[21] **3,190,717**
[13] A1
[51] **Int.Cl. C08F 4/14 (2006.01) C08F 4/26 (2006.01) C08F 110/10 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING HIGH-REACTIVITY ISOBUTENE HOMO- OR COPOLYMERS**
[54] **PROCEDE DE PREPARATION D'HOMOPOLYMERES OU DE COPOLYMERES D'ISOBUTENE A REACTIVITE ELEVEE**
[72] LEDERHOSE, PAUL, DE
[72] MUEHLBACH, KLAUS, DE
[72] KOSTJUK, SERGEI V., BY
[72] VASILENKO, IRINA V., BY
[72] BEREZIANKO, IVAN A., BY
[71] BASF SE, DE
[85] 2023-02-03
[86] 2021-07-27 (PCT/EP2021/070987)
[87] (WO2022/028951)
[30] EP (20189546.3) 2020-08-05
[30] EP (20195544.0) 2020-09-10

[21] **3,190,721**
[13] A1
[51] **Int.Cl. A01D 34/00 (2006.01) B62D 51/02 (2006.01) B66F 9/075 (2006.01) E02F 3/34 (2006.01) E02F 9/16 (2006.01)**
[25] EN
[54] **WORK MACHINES HAVING A SUSPENDED OPERATOR STATION**
[54] **MACHINES DE TRAVAIL AYANT UNE STATION D'OPERATEUR SUSPENDUE**
[72] DOCKTER, NATHAN, US
[72] PRIEKSAT, MASON, US
[72] DAINING, STEPHEN, US
[71] VERMEER MANUFACTURING COMPANY, US
[85] 2023-02-03
[86] 2021-08-03 (PCT/US2021/044393)
[87] (WO2022/031738)
[30] US (63/060,847) 2020-08-04
[30] US (63/185,069) 2021-05-06

[21] **3,190,720**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **AAV VECTORS ENCODING PARKIN AND USES THEREOF**
[54] **VECTEURS VAA CODANT POUR LA PARKINE ET LEURS UTILISATIONS**
[72] ABELIOVICH, ASA, US
[72] SHYKIND, BENJAMIN, US
[71] PREVAIL THERAPEUTICS, INC., US
[85] 2023-02-03
[86] 2021-08-03 (PCT/US2021/044351)
[87] (WO2022/031708)
[30] US (63/060,353) 2020-08-03

[21] **3,190,722**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **ADAPTER POLYPEPTIDES AND METHODS OF USING THE SAME**
[54] **POLYPEPTIDES ADAPTATEURS ET METHODES D'UTILISATION DE CES DERNIERS**
[72] LEE, LY JAMES, US
[72] CHIANG, CHI-LING, US
[72] MA, YIFAN, US
[71] OHIO STATE INNOVATION FOUNDATION, US
[71] SPOT BIOSYSTEMS LTD., US
[85] 2023-02-03
[86] 2021-08-04 (PCT/US2021/044449)
[87] (WO2022/031783)
[30] US (63/061,749) 2020-08-05

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Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] 3,182,704 [13] A1	[21] 3,188,809 [13] A1	[21] 3,188,941 [13] A1
<p>[51] Int.Cl. A61B 5/1495 (2006.01) A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/1468 (2006.01) A61B 5/1486 (2006.01)</p> <p>[25] EN</p> <p>[54] METHODS, SYSTEMS, AND DEVICES FOR CALIBRATION AND OPTIMIZATION OF GLUCOSE SENSORS AND SENSOR OUTPUT</p> <p>[54] PROCEDES, SYSTEMES ET DISPOSITIFS D'ETALONNAGE ET D'OPTIMISATION DE CAPEURS DE GLUCOSE ET DE SORTIE DE CAPTEURS</p> <p>[72] AJEMBA, PETER, US</p> <p>[72] NOGUEIRA, KEITH, US</p> <p>[72] NISHIDA, JEFFERY, US</p> <p>[72] TSAI, ANDY Y., US</p> <p>[72] KANNARD, BRIAN T., US</p> <p>[72] MILLER, MICHAEL E., US</p> <p>[72] JACKS, STEVEN C., US</p> <p>[72] VARSAVSKY, ANDREA, US</p> <p>[71] MEDTRONIC MINIMED, INC., US</p> <p>[22] 2018-08-31</p> <p>[41] 2019-03-21</p> <p>[62] 3,098,327</p> <p>[30] US (62/558,248) 2017-09-13</p> <p>[30] US (16/117,466) 2018-08-30</p> <p>[30] US (16/117,733) 2018-08-30</p> <p>[30] US (16/117,617) 2018-08-30</p>	<p>[25] EN</p> <p>[54] ENERGY GATEWAY, HOUSEHOLD APPLIANCE, DIRECT-CURRENT MICRO-GRID SYSTEM AND ENERGY MANAGEMENT METHOD THEREFOR</p> <p>[54] PASSERELLE D'ENERGIE, APPAREIL MENAGER, SYSTEME DE MICRO-RESEAU DE DISTRIBUTION ELECTRIQUE A COURANT CONTINU ET PROCEDE DE GESTION D'ENERGIE POUR CELUI-CI</p> <p>[72] DONG, MINGZHU, CN</p> <p>[72] ZHOA, ZHIGANG, CN</p> <p>[72] TANG, WENQIANG, CN</p> <p>[72] NAN, SHUGONG, CN</p> <p>[72] HUANG, MENG, CN</p> <p>[72] REN, PENG, CN</p> <p>[72] LIU, XIA, CN</p> <p>[71] GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI, CN</p> <p>[22] 2016-10-11</p> <p>[41] 2017-04-20</p> <p>[62] 3,001,750</p> <p>[30] CN (201510677211.3) 2015-10-15</p>	<p>[51] Int.Cl. C09D 151/02 (2006.01) B05D 5/00 (2006.01) C08F 251/00 (2006.01) C08F 290/00 (2006.01) C08G 81/00 (2006.01) C08G 81/02 (2006.01) C09D 151/08 (2006.01)</p> <p>[25] EN</p> <p>[54] POLYMERS AND DNA COPOLYMER COATINGS</p> <p>[54] POLYMERES ET REVETEMENTS COPOLYMERES D'ADN</p> <p>[72] BROWN, ANDREW A., GB</p> <p>[72] GEORGE, WAYNE N., GB</p> <p>[72] RICHEZ, ALEXANDRE, GB</p> <p>[72] DINGWALL, ANNE-CECILE, GB</p> <p>[72] VON HATTEN, XAVIER, GB</p> <p>[71] ILLUMINA CAMBRIDGE LIMITED, GB</p> <p>[22] 2015-10-26</p> <p>[41] 2016-05-06</p> <p>[62] 2,965,578</p> <p>[30] US (62/073,764) 2014-10-31</p>
		<p>[21] 3,188,987 [13] A1</p>
		<p>[25] EN</p> <p>[54] AUTOMATED SMART STORAGE OF TEMPERATURE SENSITIVE PRODUCTS</p> <p>[54] STOCKAGE INTELLIGENT AUTOMATISE DE PRODUITS THERMOSENSIBLES</p> <p>[72] MANNING, ROBERT JAMES, US</p> <p>[72] BOKELMAN, KEVIN LEE, US</p> <p>[72] WOHLHIETER, GEORGE M., US</p> <p>[72] BARGHINI, ANTHONY DAVID, US</p> <p>[72] BILLMAN, WESLY HARDIN, US</p> <p>[72] DULL, DAN J., US</p> <p>[72] SNYDER, NICHOLAS JAMES, US</p> <p>[72] MAJETTE, MARK, US</p> <p>[72] BAKER, EUGENE ABRAHAM, US</p> <p>[72] KLINE, DANIEL, US</p> <p>[71] TRUMED SYSTEMS, INC., US</p> <p>[22] 2014-12-07</p> <p>[41] 2015-06-11</p> <p>[62] 2,932,619</p> <p>[30] US (61/913,247) 2013-12-07</p>

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,189,011**
[13] A1

[51] **Int.Cl. C09K 8/80 (2006.01) E21B 43/22 (2006.01) E21B 43/26 (2006.01) E21B 43/267 (2006.01)**

[25] EN

[54] **INFUSED AND COATED PROPPANT CONTAINING CHEMICAL TREATMENT AGENTS AND METHODS OF USING SAME**

[54] **AGENT DE SOUTÈNEMENT PERFUSE ET REVÊTU CONTENANT UN AGENT DE TRAITEMENT CHIMIQUE ET SES PROCÉDES D'UTILISATION**

[72] DUENCKEL, ROBERT, US
[72] CONNER, MARK, US
[72] CANNAN, CHAD, US
[72] ROPER, TODD, US
[72] LEASURE, JOSHUA, US
[72] LIENG THU, US
[72] CADY, DANIEL, US
[72] READ, PETER A, GB
[71] CARBO CERAMICS INC., US
[22] 2015-09-17
[41] 2016-06-02
[62] 2,961,502
[30] US (62/051,719) 2014-09-17

[21] **3,189,025**
[13] A1

[25] EN

[54] **LIQUID COMPOSITION COMPRISING VEGF ANTAGONIST**

[54] **COMPOSITION LIQUIDE COMPRENANT UN ANTAGONISTE DU VEGF**

[72] KIM, INAE, KR
[72] JUNG, YOUNGSEOK, KR
[72] JANG, YONG MIN, KR
[72] YOO, WONJUNG, KR
[72] LEE, JAEMIN, KR
[72] KIM, YONGKOOK, KR
[71] SAMSUNG BIOEPIS CO., LTD., KR
[22] 2018-12-18
[41] 2019-06-27
[62] 3,085,158
[30] KR (10-2017-0178693) 2017-12-22

[21] **3,189,028**
[13] A1

[25] EN

[54] **CONSTRUCTING AND PROGRAMMING QUANTUM HARDWARE FOR QUANTUM ANNEALING PROCESSES**

[54] **CONSTRUCTION ET PROGRAMMATION D'UN MATÉRIEL QUANTIQUE POUR DES PROCÉDES DE RECRUIT QUANTIQUE**

[72] MOHSENI, MASOUD, US
[72] NEVEN, HARTMUT, US
[71] GOOGLE LLC, US
[22] 2014-12-31
[41] 2015-07-09
[62] 2,936,114
[30] US (61/924,207) 2014-01-06
[30] US (61/985,348) 2014-04-28

[21] **3,189,032**
[13] A1

[51] **Int.Cl. A61B 5/05 (2021.01) A61B 5/0507 (2021.01)**

[25] EN

[54] **WEARABLE/MAN-PORTABLE ELECTROMAGNETIC TOMOGRAPHIC IMAGING**

[54] **IMAGERIE TOMOGRAPHIQUE ELECTROMAGNETIQUE PORTABLE**

[72] SEMENOV, SERGUEI Y., AT
[71] EMTENSOR GMBH, AT
[22] 2014-03-11
[41] 2014-09-25
[62] 2,942,814
[30] US (61/801,965) 2013-03-15
[30] US (13/894,395) 2013-05-14

[21] **3,189,038**
[13] A1

[25] EN

[54] **CONSTRUCTING AND PROGRAMMING QUANTUM HARDWARE FOR QUANTUM ANNEALING PROCESSES**

[54] **CONSTRUCTION ET PROGRAMMATION D'UN MATÉRIEL QUANTIQUE POUR DES PROCÉDES DE RECRUIT QUANTIQUE**

[72] MOHSENI, MASOUD, US
[72] NEVEN, HARTMUT, US
[71] GOOGLE LLC, US
[22] 2014-12-31
[41] 2015-07-09
[62] 2,936,114
[30] US (61/924,207) 2014-01-06
[30] US (61/985,348) 2014-04-28

[21] **3,189,076**
[13] A1

[25] EN

[54] **DOWNHOLE APPARATUS WITH A VALVE ARRANGEMENT**

[54] **APPAREIL DE FOND DE TROU A ENSEMBLE VANNE**

[72] BRUCE, STEPHEN EDMUND, GB
[72] GRANT, DAVID, GB
[72] WALLACE, SCOTT E., GB
[72] SMITH, EWAN, GB
[71] HALLIBURTON MANUFACTURING AND SERVICES LIMITED, GB
[22] 2017-05-02
[41] 2017-11-09
[62] 3,094,478
[30] GB (1607710.9) 2016-05-03

[21] **3,189,085**
[13] A1

[51] **Int.Cl. B65G 69/32 (2006.01)**

[25] EN

[54] **ADJUSTABLE LATERAL SEALS FOR DOCK WEATHER BARRIERS**

[54] **JOINTS LATÉRAUX RÉGLABLES POUR BARRIÈRES CONTRE LES INTÉMPÉRIES DE QUAI**

[72] HEIM, FRANK, US
[72] WITHROW, RYAN, US
[71] RITE-HITE HOLDING CORPORATION, US
[22] 2017-08-14
[41] 2018-02-22
[62] 3,033,898
[30] US (15/238,384) 2016-08-16

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,189,097**
[13] A1

[25] EN
[54] **IMPLANTABLE UROLOGICAL DEVICE WITH IMPROVED RETRIEVAL FEATURE**
[54] **DISPOSITIF UROLOGIQUE IMPLANTABLE POURVU D'UN ELEMENT D'EXTRACTION AMELIORE**
[72] LEE, HEEJIN, US
[72] HO DUC, HONG LINH, US
[71] TARIS BIOMEDICAL LLC, US
[22] 2013-05-20
[41] 2013-11-28
[62] 3,124,983
[30] US (61/649,253) 2012-05-19

[21] **3,189,099**
[13] A1

[25] EN
[54] **RECORD MATCHING SYSTEM**
[54] **SYSTEME D'ENREGISTREMENTS DE CORRESPONDANCE**
[72] BATCHU, RAVI, US
[72] GANOTRA, MANISH, US
[72] GILLUM, DIANA, US
[72] TAO, JOOLEE, US
[72] TRUESDALE, STEVEN, US
[71] NATIONAL STUDENT CLEARINGHOUSE, US
[22] 2017-06-30
[41] 2018-01-25
[62] 3,103,567
[30] US (62/365,858) 2016-07-22
[30] US (15/593,024) 2017-05-11

[21] **3,189,189**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING RELEVANT INFORMATION FOR AN ENTERPRISE**
[54] **SYSTEME ET PROCEDE D'IDENTIFICATION D'INFORMATIONS PERTINENTES POUR UNE ENTREPRISE**
[72] LYRAS, DIMITRIS, GB
[71] LYRAS, DIMITRIS, GB
[22] 2014-07-18
[41] 2016-01-21
[62] 3,035,678

[21] **3,189,191**
[13] A1

[51] **Int.Cl. E04F 11/06 (2006.01) B60P 3/36 (2006.01) B60R 3/02 (2006.01) B62D 25/22 (2006.01)**
[25] EN
[54] **FOLDING STAIRCASE**
[54] **ESCALIER PLIANT**
[72] GRANZOTTO, ANTHONY J., US
[72] TOMPKINS, GARY E., US
[71] MORRYDE INTERNATIONAL, INC., US
[22] 2019-07-02
[41] 2020-01-03
[62] 3,048,472
[30] US (16026517) 2018-07-03

[21] **3,189,198**
[13] A1

[51] **Int.Cl. E04F 11/06 (2006.01) B60P 3/36 (2006.01) B60R 3/02 (2006.01) B62D 25/22 (2006.01)**
[25] EN
[54] **FOLDING STAIRCASE**
[54] **ESCALIER PLIANT**
[72] GRANZOTTO, ANTHONY J., US
[72] TOMPKINS, GARY E., US
[71] MORRYDE INTERNATIONAL, INC., US
[22] 2019-07-02
[41] 2020-01-03
[62] 3,048,472
[30] US (16026517) 2018-07-03

[21] **3,189,207**
[13] A1

[25] EN
[54] **A SYSTEM FOR MODULATING AN NAVIGATION GRAPHICAL USER INTERFACE DURING MOVEMENT OF A VEHICLE**
[54] **SYSTEME POUR MODULER UNE INTERFACE UTILISATEUR GRAPHIQUE DE NAVIGATION PENDANT LE MOUVEMENT D'UN VEHICULE**
[72] KUMAR, RAJEEV, CA
[72] KUMAR, RAKESH, CA
[71] APP-POP-UP INC., CA
[22] 2021-08-27
[41] 2022-03-03
[62] 3,163,484
[30] US (US63/071,003) 2020-08-27

[21] **3,189,208**
[13] A1

[51] **Int.Cl. C01B 32/184 (2017.01) C01B 32/194 (2017.01)**
[25] EN
[54] **METHODS FOR SYNTHESIS OF GRAPHENE DERIVATIVES AND FUNCTIONAL MATERIALS FROM ASPHALTENES, GRAPHENE DERIVATIVES, 2D MATERIALS AND APPLICATIONS OF USE**
[54] **PROCEDES POUR LA SYNTHESE DE DERIVES DE GRAPHENE ET DE MATERIAUX FONCTIONNELS A PARTIR D'ASPHALTENES, DERIVES DE GRAPHENE, MATERIAUX 2D ET APPLICATIONS D'UTILISATION**
[72] TANIMOLA, OLANREWAJU W., US
[71] TANIMOLA, OLANREWAJU W., US
[22] 2015-08-10
[41] 2016-02-11
[62] 2,960,807
[30] US (62/035,140) 2014-08-08

[21] **3,189,213**
[13] A1

[51] **Int.Cl. B03B 9/02 (2006.01)**
[25] EN
[54] **METHOD FOR CONSOLIDATING MATURE FINES TAILINGS**
[54] **PROCEDE DE CONSOLIDATION DE RESIDUS DE FINES MATURES**
[72] GATES, IAN D., CA
[72] WANG, JINGYI, CA
[72] SU, YI, CA
[71] CEDA SERVICES AND PROJECTS LP, CA
[22] 2018-01-30
[41] 2018-08-09
[62] 3,066,803
[30] US (62/453,030) 2017-02-01

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[21] **3,189,251**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR PERFORMING SECURE COMMUNICATIONS**
[54] **SYSTEME ET PROCEDE D'EXECUTION DE COMMUNICATIONS SECURISEES**
[72] TEIXEIRA, MARCIO COELHO, BR
[71] CRYPTOMETRY CANADA INC., CA
[22] 2015-01-27
[41] 2015-08-06
[62] 2,938,174
[30] US (61/934,341) 2014-01-31
[30] US (62/038,589) 2014-08-18
[30] US (62/090,632) 2014-12-11

[21] **3,189,252**
[13] A1

[51] **Int.Cl. C07D 333/58 (2006.01) A61K 31/381 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **HIGH PENETRATION PRODRUG COMPOSITIONS AND PHARMACEUTICAL COMPOSITION THEREOF FOR TREATMENT OF PULMONARY CONDITIONS**
[54] **COMPOSITIONS DE PROMEDICAMENT A FORTE PENETRATION ET COMPOSITION PHARMACEUTIQUE ASSOCIEE POUR LE TRAITEMENT D'AFFECTIONS PULMONAIRES**
[72] YU, CHONGXI, US
[72] XU, LINA, CN
[71] TECHFIELDS PHARMA CO., LTD., CN
[71] YU, CHONGXI, US
[22] 2013-03-15
[41] 2013-11-21
[62] 2,872,121
[30] CN (201210151555.7) 2012-05-16

[21] **3,189,253**
[13] A1

[25] EN
[54] **MOISTURE DETECTING AIR CAP INDICATOR FOR EXPANSION TANK FAILURE**
[54] **INDICATEUR DE BOUCHON A AIR DETECTANT L'HUMIDITE POUR DEFAILLANCE DE RESERVOIR D'EXPANSION**
[72] VAN HAAREN, CHRISTOPHER A., US
[72] CERPOVICZ, KENNETH, US
[72] KAMPF, CHRISTOPHER, US
[71] AMTROL LICENSING INC., US
[22] 2015-05-27
[41] 2015-12-03
[62] 2,949,714
[30] US (14/291,894) 2014-05-30

[21] **3,189,256**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01B 35/20 (2006.01) A01B 39/20 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **PLANTING TRENCH CLOSING SYSTEMS, METHODS, AND APPARATUS**
[54] **SYSTEMES, PROCEDES ET APPAREIL POUR FERMER UNE TRANCHEE DE PLANTATION**
[72] HODEL, JEREMY, US
[72] URBANIAK, DOUGLAS, US
[72] KATER, TIMOTHY, US
[71] PRECISION PLANTING LLC, US
[22] 2016-11-11
[41] 2017-05-26
[62] 3,006,778
[30] US (62/257,265) 2015-11-19

[21] **3,189,260**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01B 76/00 (2006.01)**
[25] EN
[54] **SEED TRENCH CLOSING SENSORS**
[54] **CAPTEURS DE FERMETURE DE SILLON DE SEMIS**
[72] KOCH, DALE, US
[72] HODEL, JEREMY, US
[72] KATER, TIMOTHY, US
[72] URBANIAK, DOUGLAS, US
[71] PRECISION PLANTING LLC, US
[22] 2017-05-12
[41] 2017-11-16
[62] 3,024,098
[30] US (62/336,069) 2016-05-13
[30] US (62/425,978) 2016-11-23
[30] US (62/465,134) 2017-02-28

[21] **3,189,270**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) G01N 33/577 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING PANCREATIC TUMOR, ANTIBODIES, AND KIT FOR THE DETECTION OF PANCREATIC TUMOR**
[54] **METHODE DE DETECTION D'UNE TUMEUR PANCREATIQUE, ANTICORPS ET TROUSSE DE DETECTION D'UNE TUMEUR PANCREATIQUE**
[72] SANADA, MITSUAKI, JP
[72] KOBAYASHI, MICHIMOTO, JP
[72] TAKAYAMA, AIKO, JP
[72] SASAJIMA, YOSHIYUKI, JP
[72] JUNG, GIMAN, JP
[72] YAMADA, TESSHI, JP
[72] HONDA, KAZUFUMI, JP
[71] TORAY INDUSTRIES, INC., JP
[71] NATIONAL CANCER CENTER, JP
[22] 2014-09-30
[41] 2015-04-09
[62] 2,925,099
[30] JP (2013-206682) 2013-10-01
[30] JP (2014-166188) 2014-08-18

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] 3,189,276 [13] A1	[21] 3,189,388 [13] A1	[21] 3,189,419 [13] A1
<p>[51] Int.Cl. C07K 16/18 (2006.01) C07K 14/775 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR DETECTING PANCREATIC TUMOR, ANTIBODIES, AND KIT FOR THE DETECTION OF PANCREATIC TUMOR</p> <p>[54] METHODE DE DETECTION D'UNE TUMEUR PANCREATIQUE, ANTICORPS ET TROUSSE DE DETECTION D'UNE TUMEUR PANCREATIQUE</p> <p>[72] SANADA, MITSUAKI, JP</p> <p>[72] KOBAYASHI, MICHIMOTO, JP</p> <p>[72] TAKAYAMA, AIKO, JP</p> <p>[72] JUNG, GIMAN, JP</p> <p>[72] YAMADA, TESSHI, JP</p> <p>[72] HONDA, KAZUFUMI, JP</p> <p>[71] TORAY INDUSTRIES, INC., JP</p> <p>[71] NATIONAL CANCER CENTER, JP</p> <p>[22] 2014-09-30</p> <p>[41] 2015-04-09</p> <p>[62] 2,925,099</p> <p>[30] JP (2013-206682) 2013-10-01</p> <p>[30] JP (2014-166188) 2014-08-18</p>	<p>[25] EN</p> <p>[54] CHIMERIC ANTIGEN RECEPTORS TARGETING BCMA AND METHODS OF USE THEREOF</p> <p>[54] RECEPTEURS D'ANTIGENE CHIMERIQUES CIBLANT BCMA ET LEURS PROCEDES D'UTILISATION</p> <p>[72] FAN, XIAOHU, CA</p> <p>[72] ZHUANG, QIUCHUAN, CN</p> <p>[72] WANG, PINGYAN, CN</p> <p>[72] WANG, LIN, CN</p> <p>[72] YANG, LEI, CN</p> <p>[72] HAO, JIAYING, CN</p> <p>[72] ZHAO, DAN, CN</p> <p>[72] HE, XIAN, CN</p> <p>[71] LEGEND BIOTECH IRELAND LIMITED, IE</p> <p>[22] 2017-08-10</p> <p>[41] 2018-02-15</p> <p>[62] 3,019,453</p> <p>[30] CN (PCT/CN2016/094408) 2016-08-10</p>	<p>[25] EN</p> <p>[54] TRANSDERMAL DRUG DELIVERY APPARATUS AND METHODS</p> <p>[54] APPAREIL ET PROCEDES D'ADMINISTRATION DE MEDICAMENT TRANSDERMIQUE</p> <p>[72] BAKER, ANDREW T., US</p> <p>[72] GADSBY, ELIZABETH DEIBLER, US</p> <p>[72] ROSS, RUSSELL F., US</p> <p>[72] HAGAN, LUKE, US</p> <p>[71] SORRENTO THERAPEUTICS, INC., US</p> <p>[22] 2015-04-29</p> <p>[41] 2015-11-05</p> <p>[62] 2,944,997</p> <p>[30] US (61/996,149) 2014-04-30</p>
[21] 3,189,286 [13] A1	[21] 3,189,390 [13] A1	[21] 3,189,433 [13] A1
<p>[25] EN</p> <p>[54] APPARATUS AND METHODS FOR RECORDING A MEDIA STREAM</p> <p>[54] APPAREIL ET PROCEDES POUR ENREGISTRER UN FLUX MULTIMEDIA</p> <p>[72] GONDER, TOM, US</p> <p>[72] CHEN, JOHN, US</p> <p>[72] PATEL, VIPUL, US</p> <p>[71] TIME WARNER CABLE ENTERPRISES LLC, US</p> <p>[22] 2015-03-16</p> <p>[41] 2015-09-24</p> <p>[62] 2,941,117</p> <p>[30] US (14/220,021) 2014-03-19</p>	<p>[25] EN</p> <p>[54] DISPENSING SYSTEM WITH FLUID LEVEL SENSOR</p> <p>[54] SYSTEME DE DISTRIBUTION A CAPTEUR DE NIVEAU DE FLUIDE</p> <p>[72] WEGELIN, JACKSON WILLIAM, US</p> <p>[72] CIAVARELLA, NICK ERMANNO, US</p> <p>[72] PROPER, SCOTT THEODORE, US</p> <p>[72] CORNEY, RICHARD E., US</p> <p>[71] GOJO INDUSTRIES, INC., US</p> <p>[22] 2015-02-11</p> <p>[41] 2015-08-20</p> <p>[62] 2,939,370</p> <p>[30] US (61/938,643) 2014-02-11</p>	<p>[25] EN</p> <p>[54] MEMORY CARD AND TERMINAL</p> <p>[54] CARTE MEMOIRE ET TERMINAL</p> <p>[72] YANG, JIANGTAO, CN</p> <p>[71] HUAWEI TECHNOLOGIES CO., LTD., CN</p> <p>[22] 2019-02-01</p> <p>[41] 2019-08-08</p> <p>[62] 3,087,613</p> <p>[30] CN (201810103746.3) 2018-02-01</p>
	[21] 3,189,434 [13] A1	[21] 3,189,434 [13] A1
		<p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR DECRYPTING DIGITAL ART AND IMAGING FOR DISPLAY OF THE SAME</p> <p>[54] SYSTEMES ET PROCEDES DE DECHIFFRAGE D'ART NUMERIQUE ET IMAGERIE PERMETTANT D'AFFICHER LEDIT ART NUMERIQUE</p> <p>[72] TRACHTENBERG, MARC, US</p> <p>[72] GARIEPY, FRANCOIS, CA</p> <p>[71] VIDERI INC., US</p> <p>[22] 2014-03-14</p> <p>[41] 2014-09-18</p> <p>[62] 2,907,301</p> <p>[30] US (61/800,681) 2013-03-15</p> <p>[30] US (61/917,067) 2013-12-17</p> <p>[30] US (14/213,956) 2014-03-14</p>

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[21] **3,189,459**
[13] A1

[51] **Int.Cl. B21C 37/15 (2006.01) B21C 37/08 (2006.01) F16L 9/18 (2006.01) F16L 9/19 (2006.01)**

[25] EN

[54] **DUAL WALLED TITANIUM TUBING AND METHODS OF MANUFACTURING THE TUBING**

[54] **TUBAGE EN TITANE A DOUBLE PAROI ET METHODES DE FABRICATION DU TUBAGE**

[72] RUST, CHARLES WILLIAM, US

[71] THE BOEING COMPANY, US

[22] 2016-02-10

[41] 2016-08-11

[62] 3,107,784

[30] US (14/619,449) 2015-02-11

[21] **3,189,592**
[13] A1

[25] EN

[54] **SYSTEM AND METHOD FOR CAPTURING DOSE INFORMATION**

[54] **SYSTEME ET PROCEDE DE CAPTURE D'INFORMATIONS DE DOSE**

[72] SEARLE, GARY, US

[72] BURKE, ANDREW, US

[72] GIANELIS, STEPHEN, US

[72] FOCHT, KENNETH, US

[72] COSTELLO, PETER, US

[72] SIWINSKI, SHANE, US

[72] ROSS, FRANCIS L., III, US

[71] BECTON, DICKINSON AND COMPANY, US

[22] 2015-09-14

[41] 2016-03-17

[62] 2,960,286

[30] US (14/485,749) 2014-09-14

[21] **3,189,653**
[13] A1

[25] EN

[54] **CYCLOTIDES AS IMMUNOSUPPRESSIVE AGENTS**

[54] **CYCLOTIDES EN TANT QU'AGENTS IMMUNOSUPPRESSEURS**

[72] GRUENDEMANN, CARSTEN, DE

[72] GRUBER, CHRISTIAN WERNER, AT

[71] MEDIZINISCHE UNIVERSITAT WIEN, AT

[71] UNIVERSITAETSKLINIKUM FREIBURG, DE

[22] 2012-12-21

[41] 2013-06-27

[62] 2,859,708

[30] EP (11195413.7) 2011-12-22

[30] EP (12196918.2) 2012-12-13

[21] **3,189,669**
[13] A1

[25] EN

[54] **NUCLEIC ACID ENCODING N-METHYLPUTRESCINE OXIDASE AND USES THEREOF**

[54] **ACIDE NUCLEIQUE CODANT LA N-METHYLPUTRESCINE OXYDASE ET SES UTILISATIONS**

[72] PAGE, JONATHAN E., CA

[72] LIU, ENWU, CA

[71] 22ND CENTURY LIMITED, LLC, US

[22] 2007-06-19

[41] 2008-02-21

[62] 2,997,344

[30] US (60/814,542) 2006-06-19

[30] US (60/901,654) 2007-02-16

[21] **3,189,679**
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 7/08 (2019.01) B32B 9/02 (2006.01) B32B 27/02 (2006.01) B32B 27/12 (2006.01)**

[25] EN

[54] **CELLULOSE MATERIALS AND METHODS OF MAKING AND USING SAME**

[54] **MATIERES CELLULOSIQUES ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLES-CI**

[72] CHEN, GEORGE, CN

[72] LEE, KOON-YANG, GB

[72] BISMARCK, ALEXANDER, AT

[72] LI, ROBERT, CN

[71] ECOINNO (H.K.) LIMITED, CN

[22] 2017-02-24

[41] 2017-08-31

[62] 3,014,093

[30] US (62/299,084) 2016-02-24

[21] **3,189,691**
[13] A1

[25] EN

[54] **DEVICES, SYSTEMS AND METHODS FOR DELIVERING A PROSTHETIC MITRAL VALVE AND ANCHORING DEVICE**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE MISE EN PLACE D'UNE VALVE MITRALE PROTHETIQUE ET D'UN DISPOSITIF D'ANCRAGE**

[72] SPENCE, PAUL A., US

[72] TOMPKINS, LANDON H., US

[71] MITRAL VALVE TECHNOLOGIES SARL, CH

[22] 2015-02-20

[41] 2015-08-27

[62] 2,937,849

[30] US (61/943,125) 2014-02-21

[21] **3,189,752**
[13] A1

[51] **Int.Cl. G16B 20/10 (2019.01) G16B 20/00 (2019.01) G16B 20/20 (2019.01)**

[25] EN

[54] **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS**

[54] **METHODES ET SYSTEMES D'EVALUATION NON INVASIVE DE VARIATIONS GENETIQUES**

[72] ZHAO, CHEN, US

[72] DZAKULA, ZELIJKO, US

[72] DECIU, COSMIN, US

[72] KIM, SUNG KYUN, US

[72] MAZLOOM, AMIN, US

[72] HANNUM, GREGORY, US

[72] EHRICH, MATHIAS, US

[71] SEQUENOM, INC., US

[22] 2014-05-23

[41] 2014-11-27

[62] 2,910,205

[30] US (61/827,385) 2013-05-24

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,189,762**
[13] A1

[25] EN
[54] **CLOSURE AND LID AND METHOD OF FORMING CLOSURE AND LID**
[54]
[72] SEIDERS, ROY JOSEPH, US
[72] TOLMAN, JOHN ALAN, US
[72] NICHOLS, STEVE CHARLES, US
[71] YETI COOLERS, LLC, US
[22] 2016-10-28
[41] 2017-05-04
[62] 3,124,054
[30] US (62/248,996) 2015-10-30
[30] US (14/971,779) 2015-12-16
[30] US (14/971,788) 2015-12-16
[30] US (15/288,175) 2016-10-07

[21] **3,189,943**
[13] A1

[25] EN
[54] **OPTIMIZED PROCESS AND AERATION PERFORMANCE WITH AN ADVANCED CONTROL ALGORITHM**
[54] **PROCEDE ET PERFORMANCE D'AERATION OPTIMISES COMPRENANT UN ALGORITHME DE CONTROLE AVANCE**
[72] ELGER, SARAH OLIVIA, US
[72] KOCH, JOHN EDWARD, III, US
[72] HENRIKSSON, ASA HELENA GORANSDOTTER, SE
[71] XYLEM WATER SOLUTIONS U.S.A., INC., US
[22] 2013-11-18
[41] 2014-05-22
[62] 2,891,914
[30] US (61/727,517) 2012-11-16
[30] US (14/081,718) 2013-11-15

[21] **3,189,961**
[13] A1

[25] EN
[54] **ROLLER GROUPS FOR GRINDING DEVICES, GRINDING DEVICES, AND METHODS**
[54] **ENSEMBLE DE ROULEAUX POUR DISPOSITIFS DE MEULAGE, DISPOSITIFS DE MEULAGE ET PROCEDE DE MEULAGE**
[72] HOLENSTEIN, PHILIPPE, CH
[72] STUDERUS, LUKAS, CH
[72] RICKENBACH, DANIEL, CH
[72] MARK, DANIEL, CH
[72] WEBER, HERIBERT, CH
[71] BUHLER AG, CH
[22] 2019-05-28
[41] 2019-12-05
[62] 3,101,679
[30] EP (18174570.4) 2018-05-28

[21] **3,189,967**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR SALES EXECUTION ENVIRONMENT**
[54] **SYSTEMES ET PROCEDES POUR ENVIRONNEMENT D'EXECUTION DE VENTE**
[72] TODD, JASON, US
[72] WEBB, TIMOTHY, US
[72] MCTEER, JENNIFER, US
[72] KATHMAN, JEFFREY, US
[71] WALMART APOLLO, LLC, US
[22] 2014-12-19
[41] 2015-06-25
[62] 2,934,657
[30] US (61/919,034) 2013-12-20
[30] US (61/919,030) 2013-12-20
[30] US (61/919,036) 2013-12-20
[30] US (61/919,042) 2013-12-20

[21] **3,189,969**
[13] A1

[51] **Int.Cl. C08L 23/02 (2006.01) C08K 3/013 (2018.01) A61F 13/15 (2006.01) A61F 13/49 (2006.01) A61F 13/511 (2006.01) B29C 55/02 (2006.01) B32B 7/10 (2006.01) B32B 27/08 (2006.01) B32B 27/28 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01) C08J 5/18 (2006.01) A41D 13/12 (2006.01)**
[25] EN
[54] **MICROPOROUS BREATHABLE FILM AND METHOD OF MAKING THE MICROPOROUS BREATHABLE FILM**
[54] **FILM MICROPOREUX PERMEABLE A L'AIR ET PROCEDE DE FABRICATION DUDIT FILM MICROPOREUX PERMEABLE A L'AIR**
[72] MIDDLESWORTH, JEFFREY ALAN, US
[72] KITZMILLER, BROOKE D., US
[72] SONNENTAG, BRADLEY, US
[71] BERRY GLOBAL, INC., US
[22] 2016-07-08
[41] 2017-01-19
[62] 2,992,140
[30] US (62/191,010) 2015-07-10
[30] US (62/233,128) 2015-09-25

[21] **3,189,972**
[13] A1

[25] EN
[54] **EVERTING TRANSCATHETER VALVE AND METHODS**
[54] **VALVE TRANSCATHETER A RETOURNEMENT ET PROCEDES**
[72] BRUCHMAN, WILLIAM C., US
[72] HARTMAN, CODY L., US
[71] W. L. GORE & ASSOCIATES, INC., US
[22] 2013-06-18
[41] 2014-01-30
[62] 3,098,032
[30] US (61/675,744) 2012-07-25
[30] US (13/797,633) 2013-03-12

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[21] 3,189,974 [13] A1	[21] 3,189,978 [13] A1	[21] 3,189,984 [13] A1
<p>[51] Int.Cl. B02C 4/32 (2006.01) B02C 4/02 (2006.01) B02C 4/06 (2006.01) B02C 4/28 (2006.01) B02C 4/38 (2006.01)</p> <p>[25] EN</p> <p>[54] ROLLER GROUPS FOR GRINDING DEVICES, GRINDING DEVICES, AND METHODS</p> <p>[54] ENSEMBLE DE ROULEAUX POUR DISPOSITIFS DE MEULAGE, DISPOSITIFS DE MEULAGE ET PROCEDE DE MEULAGE</p> <p>[72] HOLENSTEIN, PHILIPPE, CH</p> <p>[72] STUDERUS, LUKAS, CH</p> <p>[72] RICKENBACH, DANIEL, CH</p> <p>[72] MARK, DANIEL, CH</p> <p>[72] WEBER, HERIBERT, CH</p> <p>[71] BUHLER AG, CH</p> <p>[22] 2019-05-28</p> <p>[41] 2019-12-05</p> <p>[62] 3,101,679</p> <p>[30] EP (18174570.4) 2018-05-28</p>	<p>[25] EN</p> <p>[54] METHOD AND SYSTEM FOR REPLICATING A COMMUNICATION APPLICATION ON AN AUXILIARY COMPUTING DEVICE</p> <p>[54] PROCEDE ET SYSTEME POUR REPLIQUER UNE APPLICATION DE COMMUNICATION SUR UN DISPOSITIF INFORMATIQUE AUXILIAIRE</p> <p>[72] BEST, CHRISTOPHER, CA</p> <p>[71] KIK INTERACTIVE INC., CA</p> <p>[22] 2015-02-06</p> <p>[41] 2015-08-13</p> <p>[62] 2,937,922</p> <p>[30] US (61/937,046) 2014-02-07</p>	<p>[25] EN</p> <p>[54] METHODS AND DEVICES FOR CALIBRATING AND/OR MONITORING OPTICAL MEASUREMENT DEVICES</p> <p>[54] PROCEDES ET DISPOSITIFS D'ETALONNAGE ET/OU DE SURVEILLANCE DE DISPOSITIFS DE MESURE OPTIQUES</p> <p>[72] HAGEN, NORBERT D., US</p> <p>[72] OPALSKY, DAVID, US</p> <p>[72] WALKER, GEORGE T., US</p> <p>[72] KNIGHT, BYRON J., US</p> <p>[71] GEN-PROBE INCORPORATED, US</p> <p>[22] 2016-06-08</p> <p>[41] 2016-12-15</p> <p>[62] 2,985,850</p> <p>[30] US (62/173,045) 2015-06-09</p>
[21] 3,189,977 [13] A1	[21] 3,189,983 [13] A1	[21] 3,189,993 [13] A1
<p>[51] Int.Cl. A41D 27/20 (2006.01)</p> <p>[25] EN</p> <p>[54] SECURE POCKET STRUCTURE</p> <p>[54] STRUCTURE DE POCHE SECURISEE</p> <p>[72] BOYD, PATRICK D., US</p> <p>[72] TINDELL, AMANDA, US</p> <p>[72] VAN WEERD, MARK A., US</p> <p>[71] NIKE INNOVATE C.V., US</p> <p>[22] 2019-06-20</p> <p>[41] 2020-01-30</p> <p>[62] 3,106,810</p> <p>[30] US (62/703,261) 2018-07-25</p> <p>[30] US (16/438,758) 2019-06-12</p>	<p>[25] EN</p> <p>[54] OPTIMIZED PROCESS AND AERATION PERFORMANCE WITH AN ADVANCED CONTROL ALGORITHM</p> <p>[54] PROCEDE ET PERFORMANCE D'AERATION OPTIMISES COMPRENANT UN ALGORITHME DE CONTROLE AVANCE</p> <p>[72] ELGER, SARAH OLIVIA, US</p> <p>[72] KOCH III, JOHN EDWARD, US</p> <p>[72] NORDENBORG, ASA HELENA GORANSDOTTER, SE</p> <p>[71] XYLEM WATER SOLUTIONS U.S.A., INC., US</p> <p>[22] 2013-11-18</p> <p>[41] 2014-05-22</p> <p>[62] 2,891,914</p> <p>[30] US (61/727,517) 2012-11-16</p> <p>[30] US (14/081,718) 2013-11-15</p>	<p>[25] EN</p> <p>[54] OPTIMIZED PROCESS AND AERATION PERFORMANCE WITH AN ADVANCED CONTROL ALGORITHM</p> <p>[54] PROCEDE ET PERFORMANCE D'AERATION OPTIMISES COMPRENANT UN ALGORITHME DE CONTROLE AVANCE</p> <p>[72] ELGER, SARAH OLIVIA, US</p> <p>[72] KOCH III, JOHN EDWARD, US</p> <p>[72] NORDENBORG, ASA HELENA GORANSDOTTER, SE</p> <p>[71] XYLEM WATER SOLUTIONS U.S.A., INC., US</p> <p>[22] 2013-11-18</p> <p>[41] 2014-05-22</p> <p>[62] 2,891,914</p> <p>[30] US (61/727,517) 2012-11-16</p> <p>[30] US (14/081,718) 2013-11-15</p>

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,190,052**
[13] A1

[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING MAINTENANCE NEEDS AND VALIDATING THE INSTALLATION OF AN ALARM SYSTEM**
[54] **PROCEDE ET APPAREIL POUR DETERMINER DES BESOINS DE MAINTENANCE ET VALIDER L'INSTALLATION D'UN SYSTEME D'ALARME**
[72] BREED, JASON, CA
[72] MIRZAZADA, FAHIM, CA
[71] JOHNSON CONTROLS TYCO IP HOLDINGS LLP, US
[22] 2014-10-01
[41] 2015-04-09
[62] 2,925,433
[30] US (61/886,251) 2013-10-03
[30] US (14/495,970) 2014-09-25

[21] **3,190,182**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/24 (2012.01) G06Q 40/03 (2023.01)**
[25] EN
[54] **CROSS-FUNDS MANAGEMENT SERVER-BASED PAYMENT SYSTEM, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR SERVEUR POUR LA GESTION DE FONDS CROISES, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-28
[41] 2016-11-03
[62] 2,988,809
[30] CN (201510217832.3) 2015-04-30

[21] **3,190,187**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/24 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS PARTAGE AINSI QUE PROCEDE, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-28
[41] 2016-11-03
[62] 2,987,695
[30] CN (201510220468.6) 2015-04-30

[21] **3,190,180**
[13] A1

[25] EN
[54] **METHODS OF ANALYZING MASSIVELY PARALLEL SEQUENCING DATA**
[54] **PROCEDES D'ANALYSE DE DONNEES DE SEQUENCAGE MASSIVEMENT PARALLELE**
[72] YOUNG, BRIAN A., US
[72] HEIZER, JR, ESLEY M., US
[72] MINARD-SMITH, ANGELA T., US
[72] MCMILLAN, NANCY J., US
[72] YAVAS, GOKHAN, US
[72] BORNMAN, DANIEL M., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[22] 2015-09-02
[41] 2016-03-24
[62] 2,961,563
[30] US (14/489,198) 2014-09-17

[21] **3,190,184**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/24 (2012.01) G06Q 40/03 (2023.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON SHARED FUNDS-MANAGEMENT SERVER, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS PARTAGES, ET PROCEDE, DISPOSITIF ET SERVEUR CORRESPONDANTS**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-28
[41] 2016-11-03
[62] 2,988,804
[30] CN (201510219328.7) 2015-04-30

[21] **3,190,188**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/24 (2012.01)**
[25] EN
[54] **CROSS-FUNDS MANAGEMENT SERVER-BASED PAYMENT SYSTEM, METHOD, DEVICE AND SERVER**
[54] **SYSTEME DE PAIEMENT INTER-SERVEUR DE GESTION DE FONDS, PROCEDE, DISPOSITIF ET SERVEUR**
[72] ZHANG, YI, CN
[71] 10353744 CANADA LTD., CA
[22] 2015-05-28
[41] 2016-11-03
[62] 2,987,700
[30] CN (201510218750.0) 2015-04-30

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[21] **3,190,351**
[13] A1

[25] EN
[54] **SEM SCANNER SENSING
APPARATUS, SYSTEM AND
METHODOLOGY FOR EARLY
DETECTION OF ULCERS**
[54] **APPAREIL DE DETECTION DE
SCANNER SEM, SYSTEME ET
METHODOLOGIE POUR LA
DETECTION PRECOCE DES
ULCERES**
[72] SARRAFZADEH, MAJID, US
[72] KAISER, WILLIAM, US
[72] MEHRNIA, ALIREZA, US
[72] BATES-JENSEN, BARBARA, US
[72] WANG, FRANK, US
[72] LAM, YEUNG, US
[72] FLESCH, MICHAEL, US
[72] BOYSTAK, JOSEPH, US
[71] THE REGENTS OF THE
UNIVERSITY OF CALIFORNIA, US
[71] BRUIN BIOMETRICS, LLC, US
[22] 2011-05-06
[41] 2011-11-17
[62] 3,082,134
[30] US (61/453,852) 2011-03-17
[30] US (61/332,755) 2010-05-08

[21] **3,190,354**
[13] A1

[25] EN
[54] **AGRICULTURAL PRODUCT
TRANSFER TO AIR SEEDER
TANKS**
[54]
[72] BEAUJOT, NORBERT, CA
[71] SEEDMASTER MANUFACTURING
LTD., CA
[22] 2020-12-21
[41] 2022-06-21
[62] 3,103,312

[21] **3,190,408**
[13] A1

[25] EN
[54] **PURIFIED HYDROGEN
PEROXIDE GAS GENERATION
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[54] **PROCEDES ET DISPOSITIFS DE
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PEROXYDE D'HYDROGENE
PURIFIE**
[72] LEE, JAMES D., US
[72] BOSMA, DOUGLAS J., US
[71] SYNEXIS LLC, US
[22] 2015-05-05
[41] 2015-11-12
[62] 2,947,432
[30] US (61/988,535) 2014-05-05

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WU, HSU-HSIANG	3,046,919	YOUNGER, RAE	2,961,996	ZHENG, YAJUN	2,938,311
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WU, YANAN	3,086,433	YU, DAO-YI	2,941,535	ZHOU, XIAOMING	2,930,805
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BATKE, THERESA	3,135,461	DENIS, DANIEL	3,128,701	HYDROGENICS	
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LO, PING-CHUNG	3,167,428	PRATHAPANENI, DIMPLE		SHI, XIAO QI	3,129,295
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NICHOLS, CHRISTIAN	3,182,082	OBRECHT, DANIEL	3,190,704	INCORPORATED	3,183,322
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NICHOLS, ROBERT CHARLES	3,182,720	OCADO INNOVATION		UNIVERSITY	3,182,756
NICHOLSON, JEFFERY W.	3,182,067	LIMITED	3,190,622	ORHAN, ELISE	3,182,197
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NIDAM, OFER	3,182,065	LIMITED	3,190,624	ORSI, CARLO	3,182,549
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NIMOCKS, ROBERT	3,190,454	ODJO, ANDREW	3,189,494	OSLO	
NIPPON TELEGRAPH AND		OEHLER, MATTHEW	3,189,508	UNIVERSITETSSYKEHUS	
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